ଓଡ଼ିଶା ବିଦ୍ୟୁତ୍ ନିୟାମକ ଆୟୋଗ
ODISHA ELECTRICITY REGULATORY COMMISSION
BIDYUT NIYAMAK BHAWAN
PLOT NO.4, CHUNOKOLI, SHAILASHREE VIHAR, BHUBANESWAR -751021
TEL. No. 2721048, 2721049
E-MAIL: oerc@odisha.gov.in / orierc@gmail.com
WEBSITE: www.orierc.org

Together, Let us light up our lives

Case No. 78/2025

PUBLIC NOTICE

Hearing Application approval of Capital Investment Plan for the FY 2026-27 in its licensed area of supply as per para 3.2 of the OERC (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations,2022.

.

M/s. Tata Power Southern Odisha Ltd. has filed an application for approval of Capital Investment Plan for the FY 2026-27 in its licensed area of supply as per para 3.2 of the OERC (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations,2022.The Commission has registered it as **Case No. 78 of 2025** and has decided to dispose of this case through a public hearing vide order dated 23.12.2025. The petition along with all Annexures submitted by M/s.TPSODL in this regard is available in OERC website (www.orierc.org) and also in M/s. TPSODL's website www.tpsouthernodisha.com.The persons/ organizations those who are interested to participate in the above proceeding may file their views/objections/suggestions, if any, on the petition of M/s. TPSODL on or before **05.01.2026** through affidavits with a copy to the Petitioner. M/s. TPSODL is directed to file its rejoinders, if any, to the objections/suggestions of the Respondents before this Commission on or before the date of hearing with a copy to the Respondents. Those persons who have filed their objections/suggestions/views by the due date to the above application of M/s. TPSODL shall participate in the hearing of the application by the Commission. The case shall be heard on **09.01.2026** at 11.00 AM by the Commission through Hybrid mode in its Office at Bhubaneswar. No further notice will be given in this regard.

By Order of the Commission

Dated:23.12.2025

Sd/-
S E C R E T A R Y

Together, Let us light up our lives

ଓଡ଼ିଶା ବିଦ୍ୟୁତ୍ ନିୟାମକ ଆୟୋଗ

ODISHA ELECTRICITY REGULATORY COMMISSION

BIDYUT NIYAMAK BHAWAN
PLOT NO.4, CHUNOKOLI, SHAILASHREE VIHAR, BHUBANESWAR -751021
TEL. No. 2721048, 2721049
E-MAIL: oerc@odisha.gov.in / orierc@gmail.com
WEBSITE: www.orierc.org

No.1635 /dt. 23.12.2025

Case No. 78/2025

To,

The Chief Finance & Regulatory,
TPSODL, Courtpeta,
Berhampur- 760004

Sub: Public Notice for hearing of Application for approval of Capital Investment Plan for the FY 2026-27 in its licensed area of supply as per para 3.2 of the OERC (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations,2022.

Sir,

I am directed to inform that you are required to publish the matter as attached to this letter in English language in one issue of a daily English newspaper and in Odia language in Odia newspaper having wide circulation in the State of Odisha. The publication shall be made on **24.12.2025**.

You are directed to keep your application in your web- site immediately.

You may file your rejoinder to the objections filed by any objector on or before **09.01.2026** serving copy to the concerned objector.

The proof of publications published in English and Odia dailies shall be furnished to the Commission within five days of such publication.

By Order of the Commission

Encl : As above

Sd/-
SECRETARY

BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION,
BIDYUT NIYAMAK BHAWAN.
PLOT No-4, CHUNOKOLI, SHAILASHREE VIHAR, BHUBANESWAR-751021

IN THE MATTER OF: Application for approval of Capital Investment Plan for the FY 2026-2027 in the Licensed Area of TP Southern Odisha Distribution Ltd.

And

IN THE MATTER OF: TP Southern Odisha Distribution Ltd. (Formerly Southco Utility), Corporate Office, Kamapally, Courtpeta, Berhampur, Ganjam District, Odisha 760004. ..... ***Petitioner***

AFFIDAVIT

I Soumitry Dey, aged about 48 years, s/o. Banshidhar Dey, working as the Head Regulatory Affairs, do hereby solemnly affirm and state as follows:

a) That, I am working as Head Regulatory Affairs of TPSODL, Courtpeta, Berhampur, Dist. - Ganjam-760004. I am the authorized representative in the above matter and duly authorized by the said applicant to make this affidavit on its behalf.
b) That, I have gone through the contentions in this submission and understood the contents thereof.
c) That, the facts stated in the present application are true to the best my knowledge and belief, and the same are based upon available records.

RAMA PRASANNA MAHAPATRA
ADVOCATE & NOTARY
GOVT. OF INDIA,
BERHAMPUR (GM.) Odisha
Sl. No. 4-2182
Date: 10/9/2025
Time: 10:35 AM/PM

Deponent

Verified that the contents of above affidavit are true and correct, no part it is false and nothing material has been concealed there-from.

Verified at Berhampur on this 10th day of Sept. 2025

Deponent

DECLARATION
The deponent having been identified by
Advocate Sri S.K. Mahapatra of Dahyo
solemnly affirm before me on this day of 10th Sept
2025 at 11.35 AM/PM that the contents
mentioned in this Affidavit are true to his/her
knowledge information and belief.

10-9-2025

Identified by the ADVOCATE

Rama Prasanna Mahapatra
NOTARY, Govt. of INDIA,
Berhampur, GM., Odisha
10/9/25

BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION,
BIDYUT NIYAMAK BHAWAN.
PLOT No-4, CHUNOKOLI, SHAILASHREE VIHAR, BHUBANESWAR-751021

Case No: ____/2025

IN THE MATTER OF: Application for approval of Capital Investment Plan for the FY 2027 in the Licensed Area of TP Southern Odisha Distribution Ltd.

And

IN THE MATTER OF: TP Southern Odisha Distribution Ltd. (Formerly Southco Utility), Corporate Office, Registered Office at Kamapally, Coutpeta, Berhampur, Ganjam, Odisha 760004

….Petitioner

IN THE MATTER OF: All Concerned Stake Holders. Respondents

A. Background for Submission of the Petition

1. The Hon'ble Commission had directed TPSODL to seek the approval of the Capital Investment Plan in line with the Vesting Order (Case no. 83 of 2020 dated 28.12.2020) and OERC (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations.

2. The relevant extract from the Vesting Order is as follows:
   43. Capital investment plan
   …….
   (d) TPSODL would be required to seek the Commission's approval on the detailed capital expenditure plan in line with the regulations. TPSODL shall satisfy the Commission that the

capital expenditure plan submitted in line with regulations adheres to the capital expenditure plan submitted as part of the Bid.

…….

3. Further, the Odisha Electricity Regulatory Commission (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations 2022 ("Tariff Regulations") provide the following for approval of the Capital Investment.

3.2. Capital Investment

3.2.1. The Distribution Licensee shall submit ***detailed capital investment plan, financing plan and physical targets for each year of the Control Period*** *for strengthening and augmentation of distribution network, meeting the requirement of load growth, reduction in distribution losses, improvement in quality of supply, reliability, metering, reduction in congestion, etc., to the Commission for approval, as a part of the Business Plan applicable for the entire control period and annual proposal for each year of the Control Period.*

3.2.2. The Distribution Licensee shall file a ***separate annual Capital Investment Plan comprising of capital investment plan, financing plan and physical targets for each year of the Control Period as per the timelines specified in Annexure-I****.*

(Emphasis Supplied)

4. In compliance to the Tariff Regulations,2022; TPSODL had filed its Business Plan for FY 2023-24 vide submission dated 31.01.2023 (registered as Case 12/2023) and Business Plan for FY25 to FY28 vide submission dated 09.06.2023 (registered as Case 46/2023). The Business Plan application of TPSODL comprised of, among other component of Business Plan as per Tariff Regulation,2022; Capital Investment Plan for the Control Period. The Business Plan application for FY 2023-24 was disposed off by the Hon'ble Commission in the Tariff Order for FY 2023-24 dated 23.03.2023. The Hon'ble Commission has issued order in the matter of Case 46/2023 on 14.09.2023 and has stipulated following with regards submission of Capital Investment Plan.

33. Capital Investment

…….

j. ***The Commission opines that the Capital expenditure involves multidimensional aspects which undergoes changes due to rapid urbanization & industrial growth. Ensuring reliability of power supply, reducing interruptions & AT&C loss and providing electricity at an affordable tariff to the consumers etc. are major challenges.*** *In view of such dynamism in the system,* ***the Commission directs the DISCOMs to submit the year wise Capex plan for the control period for approval***

of the Commission. *The Commission also observes that the DISCOMs are required to catch up in capitalization with the approval by the Commission.* ***(Emphasis Suppled)***

5. We are in this submission filing the proposal for Capital Investment for FY 2026-27 for the approval of the Hon'ble Commission.

6. The details of the various schemes are given in the following paragraphs.

A. Background

7. TPSODL receives electrical power at 33KV level from 38 numbers of 220/33KV or 132/33KV Grid substations located within and in the vicinity of TPSODL operational area. TPSODL distributes the power at 33KV / 11KV / 440V / 230V depending on the demand of the consumers.

8. TPSODL's major challenges are rooted in its vast, aging distribution network, which requires investment to address operational, commercial, and safety issues. The network is comprised of lengthy, radial lines, a significant portion of which run through forest areas, complicating maintenance and impacting service reliability. Infrastructure deficiencies include worn-out, undersized bare conductors, extremely long spans, damaged or tilted poles, poor joints, and non-compliance with statutory safety guidelines. These deficiencies result in compromised safety clearances andlack of guard wires at road crossing infeeders, posing a serious threat to employees, the public, and animals. Therefore, a substantial investment is crucial to upgrade the network, improve supply reliability, enhance customer services, and ensure the safety of all stakeholders.

9. As explained in our earlier petitions, TPSODL has identified a number of other challenges related to Metering infrastructure, Customer Services, and Technology usage. These challenges are planned to be addressed through a systematic investment plan prepared by TPSODL, a part of which was proposed by TPSODL in our earlier petitions. Further, Tata Power who is a 51% Share Holder in TPSODL has also been an early implementer of latest technology in India and has perhaps the greatest number of standalone and integrated technology platforms in use. These technologies have been instrumental in improving the overall performance of the company and also been able to deliver business benefit in terms of lowering losses and improving reliability and better management of the business and consumers.

10. The proposed Capex plan represents a justified and efficient level of total capital investment estimated by TPSODL to meet the service obligation; ensuring safe and reliable network, maintaining high level of service standards and to reflect upon the commitment of benchmark customer services through process improvement, capacity building, technology adoption & carbon footprint reduction.

B. Capital Expenditure proposal for FY 2026-27

11. The summary of the Capital Expenditure proposed in this petition under various heads is as follows:

Table 1 : Capital Expenditure proposal for FY 2026-27

Capex Head	Sl. No.	Activity	Total Cost proposed (Rs. In Cr.)
Statutory & Safety	1	Safety & Electrical Testing Equipment	5.09
	2	Cradle guard at major road crossings, Populated area, School area	4.41
	3	Fencing of Distribution substations (DSS), Switchyard development at PSS	7.01
	4	Intermediate poles for vulnerable location	4.78
	5	**Sub Total- Statutory & Safety (1)**	**21.29**
Loss Reduction	6	LT Bare to ABC Conversion and Polycarbonate box	3.49
	7	Feeder & DT Metering for Energy Audit	12.62
	8	GIS implementation	3
	9	**Sub Total- Loss Reduction (2)**	**19.11**
Network Reliability	10	SCADA- automation and Security Survillence at PSS	6.98
	11	PSS Refurbishment	13.31
	12	33 kV & 11 kV New Network Infrastructure	72.94
	13	Refurbishment of 33 KV & 11 KV Line	62.43
	14	33 KV & 11 KV UG Cable	2.92
	15	33 KV & 11 KV (Auto Recloser & Sectionalizer, RMU and FPI)	7.9
	16	DSS Refurbishment and LV protection	8.02
	17	River Crossing Infrastructure	2.73
	18	**Sub Total Network Reliability (3)**	**177.24**
Load Growth	19	New/Augmentation of PTR	24.22
	20	Augmentation / addition of Distribution Transformer along with associated lines	32.28

	21	*Augmentation and addition of LT ABC line*	*2*
	22	*Differential CAPEX to recover New Connections*	*10*
	23	***Sub Total- Load Growth (4)***	***68.49***
Infrastructure-Technology & Civil	*24*	*Build & Strengthen DC–DR Infrastructure & End-User IT Hardware, IT Applications & Software, Cybersecurity Solutions*	*21.84*
	25	*Civil Upgradation +Roof Top Solar+Water harvesting*	*20.36*
	26	*Ready to use Admin Asset*	*1.2*
	27	***Sub Total -Technology Infrastructure (5)***	***43.4***
	28	***Grand Total (Rs. In Cr.)***	***329.53***

12. The Description of the various schemes shown in the table above is provided in **Chapter 4 Details of Capital Expenditure Schemes.**

C. Basis for estimation of Cost

13. The estimation of capital costs for major items have been made on the basis of Cost Data Book (CDB) published by the Government of Odisha for various items. The new CDB is under discussion and finalization.

14. However, the CDB has been published by the Government of Odisha for the FY 2018-19. Subsequently, in the meeting dated 23rd November 2021, it was decided that 6% p.a towards escalation may be considered till the rates are revised. The relevant extracts from the Minutes of the meeting are as given below-

> E. A Technical Committee to be constituted under the Chairmanship of EIC-cum- PCEI, to look into the revision of rates. EIC(Electricity) clarified that pending finalization of the rates, price escalation of 6% per year may be allowed.

15. Accordingly, the escalation rate of 6% p.a from FY 2018-19 i.e a total escalation of 42 % till FY 2025-26 has been considered for estimation of capital expenditure for items covered by the CDB. For items, which are not covered by the CDB, the rates discovered by TPSODL through the recent competitive bidding conducted has been considered. The rates so discovered have been escalated suitably to reflect the present market conditions. The expenditure of items which do not have the reference of the Discovered rates since the same are being placed for the first time, budgetary quotes have been used.

16. For few items where the above references are not available, engineering estimates have been made by TPSODL to arrive at the capital expenditure.

D. Proposed Funding of the Capex

17. The Capital Expenditure is proposed to be funded through a Debt to Equity mix in the ratio of 70:30. The Debt raised for this Capital Expenditure would be long term debt and the Equity would be subscribed by Tata Power and Gridco in the ratio of 51% and 49% respectively. Further, Gridco is expected to subscribe to its share of 49% through transfer of assets owned by the Government i.e make contribution in kind and Tata Power would subscribe in the form of cash to the extent of its share of 51%. Accordingly, since cash resources need to be raised in the form of cash to meet the expenditure, the resources need to be raised additionally for compensating the Gridco Equity in Kind. Accordingly, the Debt and Equity required for meeting the capital expenditure (without considering employee cost and IDC that would be capitalized is as follows:

Table 2 : Proposed funding of Capital Expenditure FY 27

Sr No	Particulars	FY 27	Total
1	A. Proposed Capex Plan	329.53	329.53
2	B. Add- GRIDCO capex (in Kind) (i.e. equivalent to GRIDCO share of 49% in 30% Equity) @ 17.23 % of Sr No 1	56.78	56.78
3	Total Capex (A+B)	386.31	386.31
	Funding of the above Capex		
4	70% through Debt	270.42	270.42
5	30% through Equity	115.89	115.89
5a	TPC share @ 51%	59.10	59.10
5b	GRIDCO share @ 49%	56.79	56.79

E. Capital Investment Approved and proposed till FY 2026-27

18. The plan of the Capital Expenditure till 31st March 2027, including the quantum proposed in this petition are as follows:

Table 3 : Capital Expenditure till 31st March 2027

S. No.	Particulars	Value (Rs. in Cr.)
1	Capital Expenditure approved for FY 2021-22	184.65
2	Capital Expenditure approved for FY 2022-23	294.82
3	Capital Expenditure approved for FY 2023-24	407.38
5	Capital Expenditure approved for FY 2024-25	373.24
6	Capital Expenditure approved for FY 2025-26	286.75
7	Capital Expenditure proposed for FY 2026-27	329.53
	Total	**1876.37**

19. We wish to submit that we would be completing the above schemes by the end of FY 2026-27 in a phased manner. We have in section **3.2** Error! Reference source not found. presented the various initiatives undertaken by TPSODL in the previous years

F. Board Approval

20. The Capital Investment Plan of TPSODL for FY 2026-27 was put up for the Board approval. The proposal was discussed and approved by the Board. The Certified True Copy (CTC) of the Resolution on this item is Attached in Annexure-1.

G. Prayers to the Hon'ble Commission

TPSODL prays for the following to the Hon'ble Commission

i. Approve the Capital Investment Plan amounting to Rs. 329.53 Crores for FY 2026-27.
ii. Allow Employee Cost and Interest During Construction based on actuals to be capitalised over and above the amount approved.
iii. Permit Carrying forward of the unspent Capital Expenditure to subsequent years.
iv. Permit making additional submission required in this matter.
v. Grant any other relief as deemed fit and proper in the facts and circumstances of the case.
vi. Pass any other orders as the Hon'ble Commission may think appropriate.

Detailed Project Report (DPR)

Index

1 Need for Capital Expenditure in FY 2026-27 17

1.1. Geographical Information 18

1.2. Network Information 19

1.3. Distribution Network 20

1.4. Key Challenges 20

1.4.1. 33kV Lines 21

1.4.2. 33/11 kV Primary Substations (PSS) 23

1.4.3. 11 kV Feeders 24

1.4.4. AGEING EFFECT ON ELECTRICAL NETWORK 25

1.4.5. Cyclone or Storm effect on Electrical Network 25

1.4.6. Need of River Crossing Tower 25

1.4.7. Distribution Substations (DSS) 25

1.4.8. LT Network 26

1.4.9. Overhead network crossing-Lines interference, NH/Railway crossing 26

1.4.10. Earthing 26

1.4.11. Feeder Meter 26

1.4.12. Civil Infrastructure & office Administration 27

2 Proposed CAPEX Plan for FY 2026-27 28

2.1 Summary of Capital Expenditure 28

3 Progress of Capex approved for FY 2021-22, FY 2022-23, FY 2023-24, FY 2024-25 and FY 2025-26 30

3.1 Capitalization Schedule for FY 2021-22, FY 2022-23, FY 2023-24, FY 2024-25 & FY 2025-26 30

3.2 Major Initiative by TPSODL in the last & Current Financial Year 31

3.2.1 33 KV Network related activities completed (April'24- July-'25) 31

3.2.2 Activity Report for 11kV & LT Networks in FY 2024-25 34

3.2.3 Safety Achievement 36

4 Details of Capital Expenditure Schemes 40

4.1 STATUTORY & SAFETY 40

4.1.1 Safety & Electrical Testing Equipment 40

4.1.2 Network Refurbishment for Safety Enhancement 46

4.1.3 Fencing of DSS, Switchyard development at PSS 46

4.1.4 Intermediate poles for unsafe to safe location 48

4.1.5 Summary of Network Refurbishment for Safety Enhancement 49

4.1.6 Summary of Expenditure under Statutory and Safety 50

4.2 LOSS REDUCTION 51

4.2.1 LT Bare to ABC Conversion and Polycarbonate box 51

4.2.2 Feeder Meter for Energy Audit 53

4.2.3 GIS Implementation 56

4.2.4 Summary of Capital Expenditure for FY 2026-27 under Loss Reduction category: 59

4.3 NETWORK RELIABILITY 60

4.3.1 SCADA- Automation and Security Survillence at PSS 60

Network Reliablity Enhancement 63

4.3.2 PSS Refurbishment 64

4.3.3 33 & 11 KV New Lines for reliable power supply 68

4.3.3.1 33kV New line 68

4.3.3.2 11 kV New line 92

4.3.4 Refurbishment/Upgradation of 33 KV & 11 KV Line 155

4.3.4.1 Conversion of 33 KV /11 KV Bare O/H Conductor to Covered Conductor 243

4.3.4.2 33 KV & 11 KV Line AB Switch 244

4.3.4.3 Four Pole Structure along with AB Switches for N-1 arrangement for feeders 245

4.3.5 Construction of 33 KV and 11 KV Underground Cables 246

4.3.6 Installation of (Auto Recloser & Sectionalizer, RMU and FPI) 247

4.3.6.1 Auto Recloser & Sectionalizer 247
4.3.6.2 Ring Main Unit 247
4.3.6.3 Installation of FPI on 33 KV & 11 Line: - 248

4.3.7 DSS Refurbishment and Installation of LV protection at DSS 249
4.3.7.1 DSS Refurbishment (Replacement of damaged AB Switch, HG Fuse, LA, Earthing, Plinth) 249
4.3.7.2 LV protection at DSS 249

4.3.8 River Crossing 251

4.4 LOAD GROWTH 253

4.4.1 Augmentation of Power Transformer 253

4.4.2 Augmentation / addition of Distribution Transformer/Replacement of OLD aged DTR/Conversion of Single phase to Three phase DTs/Relocation 276

4.4.3 Augmentation and addition of LT ABC line 279

4.4.4 Capital Expenditure towards meeting providing the Service Line Connection 280

4.5 Infrastructure -Technology & Civil 282
4.5.1 Build & Strengthen DC–DR Infrastructure & End-User IT Hardware 283
4.5.2 IT Applications & Software: 284
4.5.3 Cybersecurity Solutions: 284
4.5.4 Restructuring/Refurbishment of Infrastructure at Office and Stores 287
4.5.5 DT Workshop – Civil Infrastructure 289
4.5.6 Rooftop Solar and Rain Water Harvesting 289
4.5.7 Admin Infrastructure 290

Annexure A: Glossary in terms 292

Tables:

Table 1 : Capital Expenditure proposal for FY 2026-27 5
Table 2 : Proposed funding of Capital Expenditure FY 27 7
Table 3 : Capital Expenditure till 31st March 2027 8
Table 4: Details of Assets of TPSODL as on 31st March 25 20
Table 5: Summary of the Capital Expenditure for FY 2026-27 28
Table 6: Summary of the Capital Expenditure for FY 2026-27 30
Table 7: Safety Initiatives/Procurement in FY 2024-25 36
Table 8: Cost Expenditure of Safety Tools & Equipment 42
Table 9 : Cost Expenditure of Electrical testing Equipment 44
Table 10 : Cost Expenditure of DT Workshop Equipment 45
Table 11 Capital Expenditure towards Safety and Electrical Testing Equipment 45
Table 12 Capital Expenditure of Cradle Guard 46
Table 13 Capital Expenditure towards Fencing of DSS and Switchyard Development at PSS 47
Table 14: Capital Cost for providing Intermediary Poles 48
Table 15: Summary of Capital Expenditure towards Network Safety 49
Table 16: Capital Expenidture under Statutory and Safety 50
Table 17 Capital Expenditure conversion of LT Bare ABC 52
Table 18 Road Map for LT Bare to AB Cable 52
Table 19:Capital Expenditure for Polycarbonate Box 53
Table 20 Cost Expenditure of Energy Audit Programme 56
Table 21 Road Map for Energy Audit Programme 56
Table 22 Cost Expenditure for GIS 58
Table 23 Road Map for GIS 58
Table 24 Capital Expenditure under Loss Reduction 59
Table 25 Road Map for SCADA implementation at PSS 60
Table 26 Capital Expenditure of SCADA- automation and Security Survillence 63
Table 27: Capital Expenditure of Bus Coupler and PSS Refurbishment 67
Table 28: Category for 33 KV New Line 68
Table 29: Category for 11 KV New Line 93
Table 30 : Capital Expenditure of new 33 KV and 11 KV lines 155
Table 31 : Category ofupgradation of 33 KV lines 156
Table 32 : Category ofupgradation of 11 KV lines 176
Table 33 Capital Expenditure for Refurbishment/Upgradation of Lines: 243
Table 34 Road Map for 33 KV & 11 KV Lines 243
Table 35 : Capital Investment for coversion to Covered Conductor in FY 2026-27 244

Table 36 : Capital Expenditure for 11 KV and 33 KV AB Switches 245
Table 37:Capital Expenditure for 4-Pole Arrangement for unsafe N-1 connection 245
Table 38: Summary Refurbishment of 33 KV & 11 KV Line 246
Table 39 : Capital Investment for Underground Cable in FY 2026-27 246
Table 40 : Capital Expenditure for ARC, Sectionalisor, RMU and FPI 248
Table 41 : Capital Expenditure towards DSS Refurbishment and LV Protection 250
Table 42 : Capital Expenditure in FY 2026-27 towards River Crossing 251
Table 43 : Capital Expenditure towards Network Reliability 252
Table 44: Proposed Summer FY-30 Loading and projected load at OMP PSS PTRs: 255
Table 45: Cost Expenditire for PTR Augmentation 275
Table 46:Cost Expenditure for Old Aged PTR & Reloaction 275
Table 47 Cost Estimates for Augmentation and Addition of DTRs 277
Table 48 Road Map for DT Augmentation and 1Ph to 3Ph DT conversion 278
Table 49 Cost Estimates for Augmentation and addition of LT Line 278
Table 50 Summary of Cost Estimates for Augmentation and addition of DT with LT Line 279
Table 51 Cost Estimates for Augmentation and addition of LT ABC Line 280
Table 51 Capital Expenditure requirement for Load Growth: 281
Table 53: Capital Expenditure of Build & Strengthen DC–DR Infrastructure & End-User IT Hardware 283
Table 54 :Capital Expenditure of IT Applications & Software 284
Table 55: Capital Expenditure for **Cybersecurity Solutions** 286
Table 56 Cost Estimates for Infrastructure and Technology 286
Table 57 Cost Estimates for Civil and Admin infrastructure 288
Table 58 Cost Estimates for DT Workshop at Jeypore 289
Table 59 Cost Estimates for Rooftop Solar and Rain Water Harvesting 290
Table 60 Cost Estimates for Admin Infrastructure 291
Table 61 Cost Estimates for Infrastructure-Civil & Admin 291
Table 62 Capital Expenditure requirement for Infrastructure-Technology & Civil: . 291

Pictures & Figures

Picture 1 : Cradle Guard 33
Picture 2 : 33kV Sectionalizer 33
Picture 4 : NEW CRP INSTALLATION 34
Picture 5 : RTU Architecture at PSS 61
Picture 6 : Overview of CCTV Surveillance System 62
Picture 7 : 33kv New Link Line for Radial to ring connectivity 69
Picture 8 : 33kV N-1 Arrangement by Interconnection between PSS 69
Picture 9 : 33kv New Link Line for load shifting 70
Picture 10 : 33kv New Link Line for Conversion of Tapping to LILO Arrangement 70
Picture 11 : 11kv New Link Line for N-1 Arrangement by Interconnection 93
Picture 12 : 11kv New Link Line for Feeders considered for Load Bifurcation 94
Picture 13 : 11 KV Line upgradation 177

Figure 1:TPSODL Geographical Boundary 19
Figure 2: Use of Neon Testor and Discharge Rod 38
Figure 3: Collapsable Ladder & FRP 2-Fold Ladder 38
Figure 4: HoTT (Hands on Technical Training) Center at Berhampur 39
Figure 5: ARC Flash Suit & VR Training Kit 39

List of Annexures

Sl. No.	Description
1	Board Approval Certified True Copy
2	Details of TPSODL Circle, Division & Sub-Division
3	List of GSS of OPTCL in TPSODL
4	Safety & Testing Equipment Detailed Estimated BoQ
5	Energy Audit Program
6	Bill of Quantities
7	Infrastructure- Technology
8	PSS Refurbishment
9	Load Flow Study and Cost Benefit Analysis of 33kV/11kV Line and PTR/DTR
10	Details of cost reference of material items considered
11	Location

1 Need for Capital Expenditure in FY 2026-27

1. TP Southern Odisha Distribution Limited (TPSODL) is incorporated as a joint venture of The Tata Power Company (51%) and the Government of Odisha (49%) under the Public-Private Partnership (PPP) model. TPSODL commenced its operations on 1st January,2021 on the basis of the Vesting Order issued dated 28.12.2021 by the Hon'ble Odisha Electricity Regulatory Commission (OERC). TPSODL took over the license to distribute electricity in the southern part of Odisha, which was earlier served by erstwhile Southco Utility, through a competitive bidding process.

2. The business of TPSODL utility is governed by the provisions of license issued by Hon'ble (OERC) for distribution and retail supply of electricity in Southern Odisha. The Hon'ble OERC regulates the working of the entire power sector of Odisha state, including determination of tariff chargeable to end consumers and establishing performance norms. The core business activities of TPSODL are summarized as follows:

   - Operation and Maintenance of distribution network
   - Expansion of distribution network
   - Electricity supply and after sales services
   - Connection of new customers to the distribution network
   - Meter reading, billing, and revenue collection
   - Customer complaint resolution
   - Restoration of power after interruptions
   - General customer care including provision of information on services
   - Customer sensitization on energy efficiency, energy losses and safety

3. As per the Vesting Order as well as the prevalent OERC (Terms and Conditions for determination of Wheeling Tariff and Retail Supply Tariff) Regulations of 2014 and 2022; TPSODL has to submit the annual Capital Investment (or "Capex") proposal for approval of the Hon'ble Commission. The CAPEX proposals for the FY 2021- 22, FY 2022-23, FY 2023-24, FY 2024-25& FY 2025-26 were submitted by TPSODL and same was approved by the Hon'ble commission under Case No 08 of 2021, under Case No 13 of 2022, under Case No. 05 of 2023, under Case No. 82 of 2023 and under Case No. 104 of 2023 for Rs. 184.65Cr, Rs. 294.82Cr, Rs. 338.34Cr, Rs. 69.05Cr, Rs. 373.24Cr and 286.75Cr respectively.

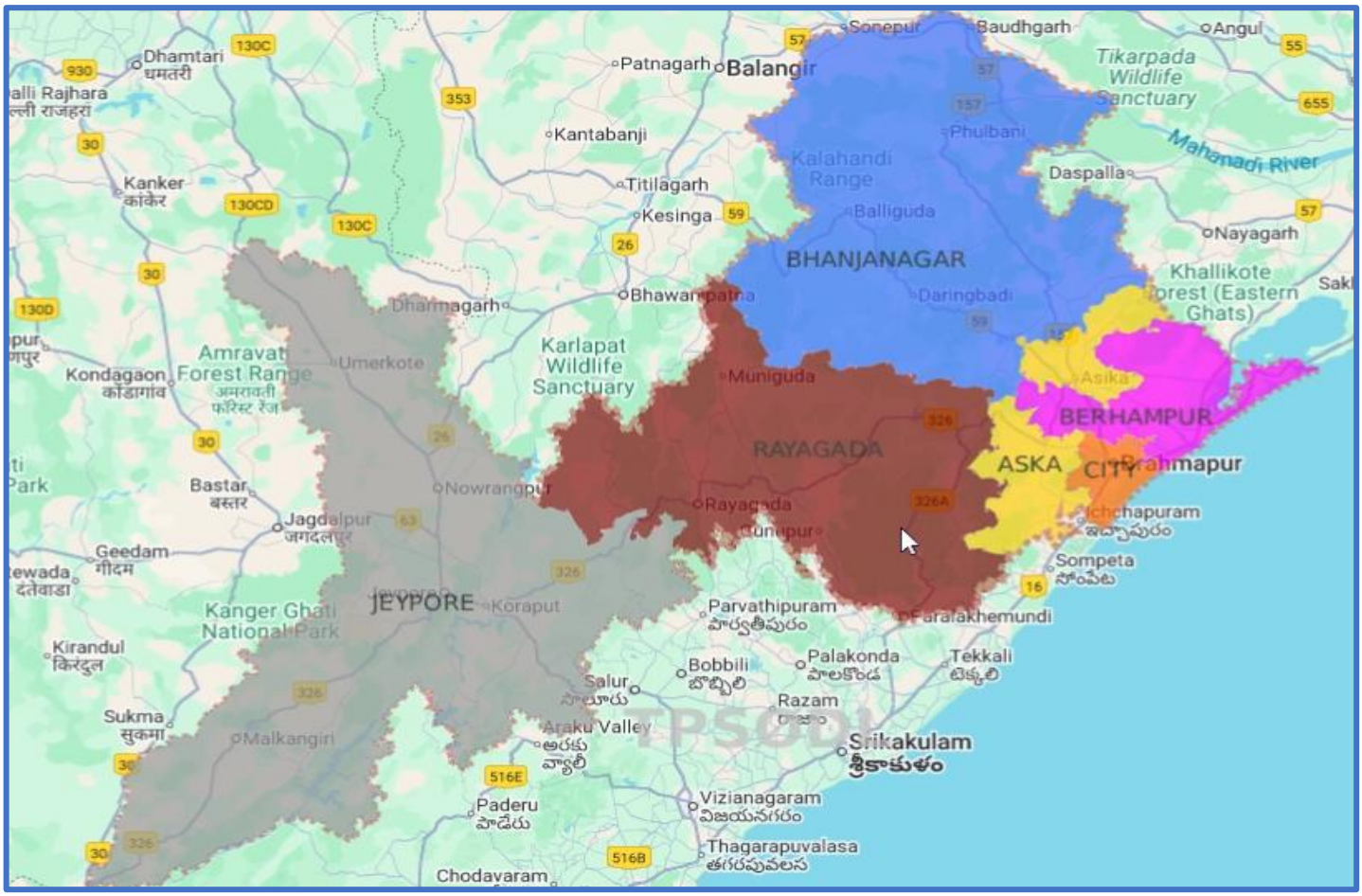
4. We are in this petition submitting the Capex proposals for FY 2026-27 of **Rs.329.53 Crores** for consideration of the Hon'ble Commission in accordance with the OERC (Terms and Conditions for determination of Wheeling Tariff and Retail Supply Tariff) Regulations 2022. The document covers the details of the network assets, the inherent challenges in line with the safety & statutory requirements and the proposed action plan to mitigate the above challenges to achieve the performance parameters as per the stipulations provided by various authorities. The present petition covering the Capex proposal for FY 2026-27 is prepared under following major heads:

   a. Statutory & Safety
   b. Loss Reduction
   c. Reliability
   d. Load Growth
   e. Infrastructure- Technology & Civil

1.1. Geographical Information

5. TPSODL has a wide geographical area of 48,751 Sq KM. spread across 8 districts of Odisha state namely Ganjam, Gajapati, Boudh, Kandhamala, Rayagada, Koraput, Nabarangpur and Malkangiri and serves the consumer base of about 22.57 Lakhs. For operational simplicity the area is divided into 6 Circles viz. City, Berhampur, Aska, Bhanjanagar, Jeypore & Rayagada Circles. In order to have the smooth operation of electrical network and to provide satisfactory services to its consumers, above circles are further sub divided into 19 Divisions and 51 Sub-division. The details of the various Circles, Divisions, and Subdivisions are provided in Annexure 2 Division and Sub-Divisions.

Figure 1:TPSODL Geographical Boundary



6. The Glossary of Terms is attached as **Glossary in terms**

1.2. Network Information

7. TPSODL receives electrical power at 33kV level from 38 nos. of Grid Substations (GSS) out of which 6 nos. GSSs are rated at 220/132/33kV, 6 nos. at 220/33kV and 25 nos. at 132/33kV located in the vicinity of TPSODL operational area. TPSODL distributes the power at 33kV / 11kV / 440V / 230V depending on the demand of the consumers. The existing OPTCL Grid Substation in TPSODL are as provided in Annexure -3.

1.3. Distribution Network

8. The information is summarized in the table below.

Table 4: Details of Assets of TPSODL as on 31st March 25

Sl. No.	ASSET DESCRIPTION	Unit	CITY CIRCLE	BERHAMPUR CIRCLE	ASKA CIRCLE	BHANJANAGAR CIRCLE	RAYAGADA CIRCLE	JEYPORE CIRCLE	TPSODL TOTAL
1	33/11kV Substations (PSS)	No.	22	31	23	46	57	78	**257**
2	Power Transformers 33/11kV	No.	51	74	59	99	116	177	**576**
3	Power Transformation Capacity 33/11kV	MVA	333.6	397	300.7	453.3	559.4	818.8	**2,862.8**
4	33kV Line - O/H	CKM	189.61	403.36	301.37	979.87	946.03	1863.74	**4,683.99**
5	33kV Line - U/G	CKM	45.25	25.12	6.15	1.48	3.12	6.71	**87.84**
6	11kV Line - O/H	CKM	1055.23	2705.17	2336.23	8951.18	8395.59	16322.94	**39,766.34**
7	11kV Line - U/G	CKM	12.09	3.18	0.86	6.79	6.58	5.20	**34.70**
8	11/.4 kV Dist.Transformer	No.	2570	4302	3895	10098	8964	20409	**50,238**
9	11/.4 kV Dist.Transformer Capacity	KVA	367366	336775	264647	471582	466027	933943	**2840,340**
10	11/0.23KV Dist. Transformer	No.	391	674	747	5148	4569	8059	**19,588**
11	11/0.23KV Dist. Transformer Capacity	KVA	6181	10433	11421	68601	64794	120835	**282,265**
12	LT Line – Bare Conductor	CKM	89.92	138.94	272.80	641.03	971.59	553.81	**2,668.10**
13	LT Line – AB Cable	CKM	1662.81	3163.14	1996.79	7829.47	4096.23	13245.76	**31,994.20**

1.4. Key Challenges

9. TPSODL had presented the key Network related Challenges in its earlier CAPEX proposals i.e for FY 2021- 22, FY 2022-23, FY 2023-24, FY 2024-25& FY 2025-26 and the same challenges continue to exist to a large extent. It is submitted that the legacy network handed over to TPSODL was in a poor state, lacked compliance with respect to maintaining safe clearances, especially the ground clearances of the 33 KV & 11 KV network as required by the statutory guidelines. While the long spans of the network, at road crossings, public places and near schools etc. are unsafe for the employees, general public, children and animals; these irregularities also affect the reliable power

supply to customers. We are detailing the individual network segments in the different sections below-

1.4.1. 33kV Lines

10. 33kV feeders are the main source of power supply from Grid Substation to Primary substations (PSS) and some of the distribution transformers (33/0.415 KV) connected on 33 kV lines. We have the following observations on 33 kV feeders.

    a. 33 kV feeders also have long lengths and are radially connected. The long overhead feeders are prone to faults and it is difficult to identify the location of the fault. Many of the feeders pass through the dense forest and attending the faults becomes possible during day time only. These leads to the high network downtime and affect the SAIDI.

    b. At many of the locations these lines are working on damaged, bent and tilted poles which affect the performance and life of the asset as well are unsafe for the general public. Due to the above condition, the capacity of many of the 33 kV feeders has dropped down due to undersized & worn-out bare conductors especially in the main sections of the feeders. Beside this, long span and poorly executed multiple joints are the cause of the high technical losses and conductor snapping causing accidents.

    c. Most of the locations of feeders do not have guard wire beneath conductors. This becomes critical when these feeders pass through the public places viz, markets, schools, hospitals etc., as snapping of the conductor can cause injuries to a larger section of people. Cradle guard below the lines at such place can avoid such accidents.

    d. We observed violation of the ROW of our 33kV & 11kV feeders for maintaining safe clearance as per statutory requirements. We have seen construction of building, houses, shops below 33 kV & 11kV overhead lines at many locations both in urban and rural areas. The horizontal clearances are also observed violated by creating extended balconies. We have started issuing the notice to the concerned building owners to remove the encroachment of the ROW of our lines for safety as well operation & maintenance point of view. The close vertical or horizontal distance from ground or nearby buildings are very unsafe, especially during rainy season.

Any leakage of electricity can cause accidents. This needs a serious resolution mechanism.

e. Poles are not provided at appropriate distance having long spans which lead to cascading failure in case of speedy winds and cyclones. A proper designed span length and type of poles can avoid such failure.

f. Most of the 33kV feeders are overhead type and being affected during inclement weather such as Kalabaisakhi, cyclones, etc. Apart to inclement weather these feeders are also susceptible to tripping due to touching of tree branches, bird faults, etc. These feeders which are highly susceptible to disruptions during adverse weather conditions. Seasonal phenomena such as Kal Baisakhi and monsoon frequently cause tripping across these feeders, leading to widespread outages and operational instability. These recurring issues not only affect the reliability of power supply but also pose challenges for rapid fault restoration. To enhance grid resilience and ensure uninterrupted service, there is a pressing need to transition to underground cabling, particularly in vulnerable zones.

g. Overhead power lines that traverse dense vegetation are particularly prone to transient faults for short-duration electrical disturbances that can lead to momentary outages or stress on equipment. These faults often arise from falling branches during storms or high winds, wildlife interference such as birds or animals contacting conductors, tree growth encroaching on clearance zones, and the accumulation of debris or moisture on insulators that can cause flashovers. The consequences include frequent feeder tripping, reduced equipment lifespan due to repeated electrical stress, increased operational inefficiencies, higher maintenance costs, and elevated safety risks for personnel involved in fault restoration.

h. While Feeder conversion and infrastructure upgrades in certain area, TPSODL is facing significant logistical and social challenges, particularly where lines pass through residential congested areas. Residents often resist the erection of new poles or the upgrading of existing overhead conductors citing concerns over space constraints, safety. This resistance hampers progress and delays essential infrastructure improvements. Together, these issues contribute to prolonged project timelines, increased costs, and compromised reliability of the power distribution network in these vulnerable zones.

i. There was unanticipated growth observed in peak demand during summer of 2025 which caused interruption of power supply to consumers. Overloading conditions in electrical networks during this summer and expecting load growth can lead to a variety of issues, primarily stemming from increased demand for electricity due to higher temperatures and increased use of cooling systems. During survey, it has been observed that conductor of multiple sizes is used in different section which restricts the circuit capacity. This also leads to conductor heating and high losses.

1.4.2. 33/11 kV Primary Substations (PSS)

11. Primary Substations or PSS transform 33 kV voltage to 11kV level. There are one or more 33 kV feeders supplying power to the PSS. The 33kV voltage is stepped down to 11kV through power transformers of various capacities viz. 1.6 MVA, 3.15 MVA, 5 MVA, 8 MVA, 10 MVA& 12.5/16 MVA. At some of the PSS the Power Transformers, breakers, CT, PT are not appropriately maintained and are facing various issues as mentioned below.

i. In PSS, the connection between the outdoor switchyard equipment and busbar are done with the poor jointing methods leading to hotspots which add to the technical losses. The technical losses due to poor jointing can be reduced significantly by using the latest wedge connectors.

ii. Study and analysis show that few of the existing 33/11KV PSS are already overloaded or approaching the overload limit. It is anticipated that some of PTRs in the existing PSS may be overloaded in next 2-3 years and few PTR are more than 30 years old.

iii. Earthing system is most important for safety & protection of men and equipment. It is submitted that earthing system in some of the PSS is in very bad condition and ineffective.

iv. Battery and battery chargers are necessary for all the PSS for backup supply for necessary operation during breakdown. Unavailability of the backup DC supply makes the basic protection system ineffective. Battery capacity were found inadequate in some of the PSS and needs capacity enhancement.

v. Few of the PSS are facing operational issues due to damaged/unviability of the line isolators, AB switches and LAs.

vi. Need replacement of old or damaged conductor in the Busbar, rusted or damaged structure of PSS, insulators in few PSS to avoid the unsafe operations of the PSS.

1.4.3. 11 kV Feeders

12. The following are some of the constraints faced in 11 KV Network

i. 11kV feeders connect a Primary substation (PSS) to the distribution transformers which supplies the electricity to the end customers through LT network. We have identified following observations on the 11 kV feeders.

ii. Most of the feeders are radially connected and have longer length compared to the standard engineering practices. Some of the feeders are more than 100 Ckt. km long. The long overhead feeders are prone to faults. It is always difficult to inspect the feeder after occurrence of a fault leading to high equipment downtime and SAIDI.

iii. At many of the locations these feeders are installed on damaged, bent and tilted poles which is unsafe for the asset as well as the general public. There had been no revision of the conductor sizes since their installation even after the load growth every year. As such many of these feeders are observed with undersized & worn-out bare conductor, having extremely long spans, multiple and poorly executed joints and compromised safety clearances.

iv. These feeders also pass through the crowded public places, especially in urban areas. There have been incidents of injuries and fatality, in past, due to conductor snapping at such places. Most of the above critical locations of feeders do not have guard wire beneath conductors, even in urban areas, to provide safety to the public against injuries and electrocution due to conductor snapping.

v. We observed encroachment on RoW i.e., houses / structures constructed below the overhead feeders at many locations both in urban and rural areas. These situations create violation of the desired safety clearances as per the electricity act and become potential source of accident.

1.4.4. AGEING EFFECT ON ELECTRICAL NETWORK

13. In the current distribution system, most of existing electrical infrastructure is becoming aged due to the delayed replacement of older components, increased equipment loading. This leads to higher losses because of derating, multiple joints etc. and also result into high nos of tripping due to conductor snapping, PTR/DTR failures etc.

1.4.5. Cyclone or Storm effect on Electrical Network

14. Southern Odisha with long coastal belt has been experiencing frequent cyclones/ high speed Wind Storms which severally affects/ damages distribution infrastructure. It has been observed that the impact of cyclones progressively decreases while moving from sea towards land area and in most of the cases, the damage of infrastructure is mostly limited to about 60 km from the coastline. The major impact is in the form of damage of towers / poles of distribution lines, damage of substation equipment & structure, flooding of sub-stations, snapping of conductors etc.

1.4.6. Need of River Crossing Tower

15. Few of 33KV & 11KV Lines are passing over the rivers & lakes through single and double pole structures even for river span higher than 150 mtrs. In many of these places, due to high sag, during high flood situation clearance from river bed reduces leading to forced outages of these lines affecting large number of customers

1.4.7. Distribution Substations (DSS)

16. TPSODL has three types of distribution substations according to voltage levels i.e. 33/0.415 kV, 11/0.415 kV and 11/0.230 kV. The substations are plinth mounted as well as pole mounted.

17. The DSS are provided protection with HT fuses on primary side whereas, still at some of the places, the secondary protection is not provided. At places, Kit Kat fuses are installed for protection on secondary side, but most of the above fuses are by-passed leading to no protection at secondary side of the DTR. In case of the fault in the LT lines, the fault may be arrested at HT fuse of the DTR. These situations can be avoided by providing LT protection on the secondary side of the DTR. In some cases, HT fuse and AB switch are bypassed which is compromising the life of the equipment.

1.4.8. LT Network

18. LT feeders emanate from DTR secondary side and serve the electrical energy to the end customers. There was no effective LT feeder protection system in place on the secondary side of some of the DSS. In place of LT Fuse box/MCCB box; aluminum wire was used as fuses on the secondary side of the distribution substations at these substations. These fuse units are installed at very low height and many of them have free access which is very unsafe. This needs a requirement of the appropriate protection system and fencing of the DSS to eliminate the access of the general public or animal. This is a potential safety threat to general public at large and animals

1.4.9. Overhead network crossing-Lines interference, NH/Railway crossing

19. In the current electrical distribution network, several 33kV &11kV overhead power lines cross each other at various points. This crossing of lines can lead to potential incidents due to electromagnetic induction, which poses significant safety and reliability risks. During cyclone we are facing challenges in such location for power restoration. Induction can cause interference between the lines, potentially leading to electrical faults, increased wear and tear, and even accidents

1.4.10. Earthing

20. Earthing of the electrical installation is very important for safety of the men, animal and equipment. The earth resistances are not effective enough to provide the required protection against faults. The poor earthing can lead to the chances of serious injuries including fatal accidents beside breakdown of the equipment.

1.4.11. Feeder Meter

21. In TPSODL, there are 158 numbers of 33 kV feeders which feed total 257 nos of PSS and nearly 948 numbers of 11 kV feeders emanate from these PSS which feeds total 69826 nos. of DTR. Currently few of the 33KV and 11KV feeders are un-metered, and the consumer-wise mapping to respective feeders for various categories of consumers is not updated / accurate, it is difficult to generate accurate energy audit reports to get specific insights about the distribution network to identify areas of high loses and theft and enable corrective action. A good and effective Energy Audit system would need all the 33KV and 11KV outgoing feeders as well as Distribution Transformers to be metered with relevant metering system. This would allow TPSODL to have a very

comprehensive and effective Energy Audit system which would help TPSODL, as corrective actions can be planned & implemented to ensure that technical and financial losses are minimized.

1.4.12. Civil Infrastructure & office Administration

22. Some of the office buildings, are very old which need strengthening through major civil works such as refurbishments/ restructuring / rebuilding. Infrastructure of the offices need revamping and major civil works are to be addressed for ensuring conducive work environment for Employees and consumers visiting the offices. Substantial investment is required to address the above stated challenges and to safe guard the assets, public & animals from the accident and ensuring statutory compliant network.

23. Besides, TPSODL is also planning to improve the office infrastructure through revamping and other civil interventions. These activities are urgently needed to provide conducive work environment to TPSODL employees and all consumers visiting TPSODL offices. Many of the office buildings are very old and need urgent strengthening to avoid mishap.

2 Proposed CAPEX Plan for FY 2026-27

24. As per the Vesting Order for TPSODL, it is required to incur certain trajectory of Capital Expenditure. Based on the same, TPSODL had proposed the Capital Investment proposals for FY 2021-22, FY 2022-23, FY 2023-24. FY 2024-25 and FY 2025-26 which were subsequently approved by the Hon'ble Commission.
    Further, to meet the additional requirement of the network, providing efficient consumer services and also addressing the challenges mentioned in previous chapter, it has now proposed the capital expenditure for FY 2026-27.

25. As TPSODL has a significant network asset spread across vast geographical area, it requires a huge investment to meet the desired expectation of the various stakeholders. We have gone through the detailed analysis of the loading of the network equipment, customer expectations, Load flow studies for 33 & 11 KV Network with 5 Yrs Load growth, inputs from the divisional teams and identified the priority projects to be considered in CAPEX FY 2026-27.

2.1 Summary of Capital Expenditure

26. As mentioned earlier, TPSODL has proposed the Capital Investment Plan for FY 2026-27 under eight (5) major heads with the objectives of ensuring compliance to the Statutory & safety, reducing AT&C loss, providing reliable power supply, meeting expected load growth, ensuring best customer services to the consumers through extending technology infrastructure and creating good office for staff and its customers. TPSODL proposes Capital Expenditure of **Rs** 329.53 **Crore** for FY 2026-27 with the intention that the proposed projects will contribute in achieving the performance targets mentioned in the vesting order. The breakup of Capital Expenditure under various schemes is provided in the table below:

Table 5: Summary of the Capital Expenditure for FY 2026-27

Sl. No.	Capex Head	Total Cost proposed (Rs. In Cr.)
1	Statutory & Safety	21.3
2	Loss Reduction	19.1
3	Network Reliability	177.2
4	Load Growth	68.5
5	Infrastructure- Technology & Civil	43.4
6	**TOTAL in Rs. Cr.**	**329.53**

27. The above project cost is exclusive of Employee Cost & Interest During Construction (IDC) and therefore these costs capitalized will be over and above the value of proposed capex plan.

28. The Bill of Quantities required for augmentation/addition/modification of network is provided in Annexure 6.

3 Progress of Capex approved for FY 2021-22, FY 2022-23, FY 2023-24, FY 2024-25 and FY 2025-26

29. As mentioned earlier, the Hon'ble Commission had approved capital expenditure for 5 years of operation viz FY 2021-22, FY 2022-23, FY 2023-24, FY 2024-25 and FY 2025-26. This chapter covers the progress of Capital Expenditure for the 5 years above.

3.1 Capitalization Schedule for FY 2021-22, FY 2022-23, FY 2023-24, FY 2024-25 & FY 2025-26

30. The Hon'ble Commission has approved Capital Expenditure for FY 2021-22, FY 2022-23, FY 2023-24, FY 2024-25 &FY 2025-26. TPSODL has executed all the approved projects till FY 2024-25 and further, making its best efforts to execute all approved projects for FY 2025-26.

Table 6: Summary of the Capital Expenditure for FY 2026-27

(a) Capitalisation Report till 31st March 2025 (submitted to OERC on 5th August 2025): -

Capex Year	Vesting Order Commitment in Cr.	OERC Approval in Cr.	Work Done for FY in Cr.	Capitalization in Cr.	Balance to Capitalize in Cr.
			(A)	(B)	(A-B)
FY 21-22	227.00	184.65	184.81	184.56	0.25
FY 22-23	316.00	294.83	298.41	297.17	1.24
FY 23-24	241.00	407.39	383.56	371.83	11.73
FY 24-25	233.00	373.24	373.38	290.00	30.29
FY 25-26	150.00	286.75	** Please refer to (b) Below.*		
Total	1166	1546.84	1187.07	1143.56	43.51

(b) Capitalisation for FY 25-26 (as on 31st July 2025)

Capex Year	Vesting Order Commitment in Cr.	OERC Approval in Cr.	Work Done for FY in Cr.	Capitalization in Cr.	Balance to Capitalize in Cr.
			(A)	(B)	(A-B)
FY 25-26	150.00	286.75	55.82	2.28	53.54

31. We are in this submission filing the proposal for Capital Investment for FY 2026-27 for the approval of the Hon'ble Commission.

3.2 Major Initiative by TPSODL in the last & Current Financial Year

32. After commencement of operation on 1st January 2021, TPSODL have initiated various activities to improve the performance parameters in Reliability, AT&C, Safety, Technology and building or strengthening infrastructure. Some of the major activities completed are mentioned below.

3.2.1 33 KV Network related activities completed (April'24- July-'25)

a. Following activities completed for 33kV Lines: -

(i) Tree trimming – 7974 CKM
(ii) Insulator replacement – 2155 Nos.
(iii) Intermediate pole installation – 186 Nos.

b. Following maintenance activity completed for PTR: -

(i) Faulty PTR replaced by repaired PTR – 15 Nos
(ii) PTR Overhauling: 35 Nos
(iii) Oil Top up – 94 Nos.
(iv) Silica gel replaced – 635 Nos.
(v) Breather replaced - 62 Nos.

c. Following activities for VCBs & CRP completed: -

(i) New 11 KV VCB Installed – 224 Nos
(ii) New 33kV VCB Installed -117 Nos
(iii) Overhauling activity of 33kV and 11kV VCBs completed – 825 Nos
(iv) VCB maintenance and CRP trouble shooting activity – 2751 Nos

d. Following activities completed in PSS: -

(i) LA installed – 614 Nos
(ii) 33KV & 11KV CT installed – 901 Nos
(iii) AB switch Maintenance – 2603 Nos
(iv) New 33kV & 11kV AB Switch Installed – 217 Nos
(v) New Battery charger Installation in PSS – 20 Nos

e. Following Protection related activities completed: -

(i) OC EF Relay Replacement – 123 Nos
(ii) Numerical relay installation – 32 Nos
(iii) Relay coordination done – 641 Nos
(iv) DC Supply Healthiness of PSS – 320 Nos
(v) O/C and E/F Relay Configuration Modification and Testing – 805 Nos
(vi) VCB, CT& PT testing Done – "VCB- 788 Nos & CT- 1390 Nos
(vii) Earth Pit Resistance value testing Done of PSS - 444 Nos
(viii) Transformer Testing Done - 162 Nos
(ix) P2P Testing with GE SCADA along with Automation Team – 54 Nos
(x) SCADA OV's Resolved of PSS's – 207 Nos
(xi) CBM- PD Testing done of transformer using Ultrasound – 53 Nos
(xii) Oil Sample DGA Test Carried out of PTR's – 37 Nos
(xiii) Relay setting modification of Grid OPTCL PSS – 20 Nos
(xiv) DC Battery Set (48V & 24V) installation of PSS – 54 Nos
(xv) New SCADA CRPs taken into Service with Load – 389 Nos
(xvi) BDV Test of PTR Oil Sample – 231 Nos
(xvii) Self-audit of Relay setting coordination – 257 Nos PSS
(xviii) Cross-audit of Relay setting coordination – 175 Nos PSS
(xix) NON ODSSP PSS SCADA integrated – 37 Nos
(xx) ODSSP PSS SCADA integrated – 2 Nos

Few photographs for 33KV Network improvement

Picture 1 : Cradle Guard

Picture 2 : 33kV Sectionalizer

Picture 3 : PTR Installation

Picture 3 : NEW CRP INSTALLATION

3.2.2 Activity Report for 11kV & LT Networks in FY 2024-25

33. **Major Initiatives taken in FY 2024-25:**

- Tree Trimming- 145 CkM
- Bird Guard installed- 2460 Nos.
- Intermediate Pole installed-88 Nos.
- DD Unit Installation in Lines- 15 Nos.
- Pin/ Disc Insulator replacement- 168 Nos.
- Line AB Switch (Replace/ Repair)- 120 Sets
- Jumper (PG Clamp/DD Unit)- 234 Nos.
- DSS AB Switch (Repair)-421 Sets
- DSS HG Fuse (NEW/REPAIR/REPLACE)- 196 Sets
- DSS LA installation req. (NEW/REPLACE)- 809 Nos.
- Installation of LT Protection at DSS (Kit Kat/MCCB)- 524 Nos.
- DD Unit Installation (Private Consumer Tapping point)- 26 Nos.
- Breather Replacement- 435 Kg
- DSS Oil Leakage mitigation- 97 Nos.

34. **Strategic Maintenance:**

- **DTRs improvements:**
    - DTR Augmented for 145 nos. (6.18 MVA Augmented capacity).
    - Distribution Transformers (DTRs) were repaired for 2,692 nos.
    - Installation/Replacement of lightning arresters (LA) in lightning-prone areas to reduce DT failure reduction for 9,649 nos.

- **System Earthing improvements:**
    - The addition of Earthing pits in the HT & LT Network was done for 1,786 nos.

- **Testing & Protection system improvements:**
    - Introduction of LT Protection at DSS - LTDB done for 114 nos. & Kit-Kat Fuse for 5,903 nos.

- **DSS Activities:**
    - The activity of vegetation removal, housekeeping, and removal of unwanted material was done in 13,448 nos. of DSS.
    - DSS Maintenance – 10,245 Nos.
    - New DSS AB switches were installed for 111 nos.
    - Maintenance of DSS AB switches for 6,914 nos.
    - Installation, Replacement, and Repairs of HG/DD Fuses– 3,895 Nos.

- **Overhead Line Activities:**
    - Lines patrolling and tree trimming activity for 11kV line and LT lines done for 19,010 CKM
    - New Line AB switches were installed for 258 nos.
    - Maintenance of AB switches for 3,153 nos.
    - Installation, Replacement, and Repairs of DD Fuses at the T-offs/Cut Point of the 11kV Lines– 1,229 Nos.

- **Safety Initiatives (Attending to Vulnerable Locations):**
    - The installation of HT & LT Intermediate Poles done for 1,703 nos.
    - Replacement of HT & LT Damaged/Broken Poles done for 2,360 nos.

- **Technical/ AT&C Loss Reduction Initiatives:**
    - Replacement of old conductor of 11kV lines – 12 CKMs.
    - Replacement of LT Undersized Cable/Conductor done for 16 CKM
    - Replacement of LT Old Cable/Conductor done for 88 CKM
    - De-hooking Drive done 16,419 nos.
    - Hooking Connections were removed to curb the theft losses done for 35,370 nos.

3.2.3 Safety Achievement

35. TPSODL holds in deep reverence to the values of lives of its employees as well as public at large. In order to achieve the goal to make TPSODL free from accident & injuries and to develop a positive safety culture not only for its employees and employees of Business Associates but also for public at large.

36. TPSODL safety & operation team conducted Hazard Identification and Risk Assessment (HIRA) by Core Committee Members and various Job Safety Analysis (JSA) workshop had been conducted to explore the hierarchy of risk control to reduce the incident rates and as part of risk control measures provision of PPE and safety tools made for all employees and business associates which was not available earlier. Apart from mandatory PPE's i.e., Safety helmet, Electrical safety shoes are enforced to the use of job specific PPEs like electrical safety hand gloves, full body harness with pole grab arrestor, electrical face visor, FR Jacket, Sensor based induction safety helmet, hand protection gloves like rubber & cotton type to ensure protection of the employees with strict guidelines for use by adhering the safe work practices with respect to risk assessment use of PPE matrix.

37. To strengthen the safe work partices and ensure safety and operational excellency the required safety PPE's, Safety Tools & Equipment are deployed at-site as provided in the table below -

Table 7: Safety Initiatives/Procurement in FY 2024-25

Item Description	Remarks
Ladder FRP Collapsible 06 Mtr Length	For safe access during electrical maintenance activities, especially in LT network, ensuring portability and ease of deployment.
Ladder FRP 2-Fold 9 Mtr Lenght	For safe elevation access during pole-mounted equipment maintenance, ensuring electrical insulation and stability.
HoTT (Hand on Technical Training) Center	HoTT (Hand on Technical Training) Center. The HoTT is dedicated to employees' and business associates' safety skill development through advanced classroom mode & hands on training module by TPSDI IET certified training with real-time practical demonstration.
Discharge Rod for 11-33-66 KV	To ensure line discharge and grounding for strengthening the safety zone creation prior to working

Item Description	Remarks
	on electrical lines/equipment by ensuring a minimum of 06 discharge rods at each PSS and 33 kV O&M work.
Industrial Neon Testor 11-33-66 KV	For 33/11 kV PSS and 11 kV Maintenance Team at each section level by considering the budget availability and field requirement.
Arc Flash Suit	For personal protection against arc flash hazards during high-voltage operations at 33/11 kV PSS ensuring a minimum of 01 Arc flash suit at each PSS and 33 kV O&M work.
Emergency siren with hooter alarm	For alerting personnel during emergency situations or drills, enhancing response time and safety awareness.
Portable LT DB Box with RCCB	For safe and controlled power distribution during temporary setups or training modules, with RCCB protection against electrical faults.
Electrical Rescue Stick	For safe rescue of personnel in case of electrical contact incidents, ensuring non-conductive handling and quick response.
PSC Pole Support System	For structural reinforcement of PSC poles during maintenance or installation, ensuring stability and safety.
Battery Operated Public Addressing System	For effective communication during field operations, training, or emergencies, ensuring mobility and clarity.
Press Fit Fuse Suitable up to 33KV	The Press Fit Fuse is a Portable tool for HG fuse replacement from ground level by following press fit type of concept. It enables to avoid direct contact of personal to the electrical equipment and avoiding work at height risk by implementing engineering control and safe work method.
Virtual Reality Training Headset with Training Module with projector	For immersive safety and technical training simulations, enhancing learning outcomes through interactive modules and projector-based group sessions.
Shorting Clamp	For safe short-circuiting of conductors during maintenance, ensuring discharge and grounding to prevent accidental energization.
Safety Innovation Project	Implementation of advanced safety technologies and practices to enhance field safety, including anchorage systems, training modules, and real-time risk mitigation strategies.

38. Highlights of CAPEX Deployment Safety PPE, Tools & Equipment

Figure 2: Use of Neon Testor and Discharge Rod

Figure 3: Collapsable Ladder & FRP 2-Fold Ladder

Figure 4: HoTT (Hands on Technical Training) Center at Berhampur

Figure 5: ARC Flash Suit & VR Training Kit

4 Details of Capital Expenditure Schemes

4.1 STATUTORY & SAFETY

4.1.1 Safety & Electrical Testing Equipment

39. TPSODL continues its unwavering commitment to building a safe and injury-free workplace under the "Mission Zero Harm" initiative. With the goal of safeguarding lives—employees, business associates, and the public alike—TPSODL has proactively undertaken several critical safety measures through its FY2026-27 CAPEX plan. These initiatives are aligned with the organization's strategic safety roadmap and focus on risk mitigation, innovation, and operational excellence.

40. Establishment of HoTT (Hands-on Technical Training) Center, Equipment & Displays: To reinforce technical training and skill development among frontline workers, TPSODL has planned the installation of electrical displays and safety-related infrastructure at the newly constructed Rayagada HoTT building. These state-of-the-art safety displays and training modules will support hands-on training and the demonstration of real-life scenarios. This initiative will ensure continuous, practical learning and development in real-world safety situations.

41. Digital Interconnectivity of HoTT Centers: for enhanced monitoring, knowledge sharing, and real-time coordination, CCTV-based digital interconnectivity between all HoTT centers has been proposed. This is a major step toward centralized safety governance and digital surveillance of training activities. Key benefits include:
    - Live broadcasting of expert-led sessions.
    - Centralized archive of recorded trainings for reference, retraining, and auditing.
    - Creation of a learning network with 100% consistent safety training standards.
    - Resource optimization—one expert session can be accessed across all centers simultaneously.
    - Improved compliance monitoring and transparency in training evaluation.

42. Discharge Rods (11-33-66 KV): Discharge rods are essential safety tools used to eliminate residual electrical charge before maintenance work, ensuring safe operations. 150 new discharge rods are being proposed. These rods help prevent accidental electrical discharges during maintenance, significantly enhancing worker safety. Key benefits include:
    - Near elimination of accidental electrical discharges during maintenance.
    - Improved regulatory compliance.
    - Increased operator confidence and safety assurance.

43. Industrial Neon Testers (NCVD) for High Voltage Detection: Industrial Neon Testers (NCVD) are devices that provide contactless detection of live voltage, making them critical for pre-maintenance safety checks. Under the FY 2026–27 plan, 50 additional Neon Testers are being proposed. These tools are vital for high-voltage detection and ensuring safety during operations on live or potentially energized equipment. Key benefits include:

    - Accurate live-line detection, reducing the risk of incorrect assumptions during field work.
    - Improved operational efficiency and reduced downtime by avoiding unnecessary shutdowns.

44. Deployment of Fire Extinguishers: Electrical facilities are inherently prone to fire hazards, making preparedness essential. To safeguard newly established installations ,200 fire extinguishers will be deployed across TPSODL locations. This initiative ensures operational readiness in the event of fire emergencies. Key benefits include:

    - Enhanced preparedness for emergency fire situations.
    - Compliance with fire safety standards across field offices and substations.
    - Reduced risk of equipment damage and personnel injury during fire incidents.

45. Manual Tree Pruners for Field Safety: Vegetation encroachment on electrical lines is a recurring cause of outages, property damage, and personal injury. With increasing incidents of tree branches interfering with power lines, 150 manual tree pruners are being allocated to various sections for proactive trimming and clearance. This initiative aims to significantly reduce fire and electrical hazards. Key benefits include:

    - Meets section-level requirements for vegetation clearance near power lines.
    - Prevents outages and fire risks caused by tree contact.
    - Ensures reliable power supply during adverse weather conditions.
    - Improves safety for field workers during pruning operations.

46. Safety Innovation Projects: A strong safety culture thrives when innovation is encouraged at every level of the organization. To foster this mindset, TPSODL has earmarked funding for pilot projects aimed at deploying new-age, technology-driven safety solutions. This initiative supports the development and evaluation of advanced tools, systems, and methods to enhance workplace safety. Key objectives include:

- Supporting multiple pilot projects in advanced safety tools, methods, and data systems.
- Evaluating and scaling up successful pilot initiatives.
- Encouraging employee-led safety innovations through an innovation challenge platform.
- Testing emerging technologies on a small scale before wider deployment.
- Positioning TPSODL as a leader in adopting cutting-edge safety practices within the power distribution sector.

47. Highlights of CAPEX Deployment – FY27 Safety Tools & Equipment

- Safety infrastructure strengthened through strategic capital investments.
- Emphasis on both preventive measures and innovative safety solutions.
- Enhanced training ecosystem enabled by upgraded HoTT facilities.
- Field safety tools to ensure operational readiness.
- Deployment of firefighting equipment for new establishments across operational areas.
- Empowerment of field sections with essential tools such as manual tree pruners.
- Safety innovation to support next-generation safety technologies.

Table 8: Cost Expenditure of Safety Tools & Equipment

Sl. No	Description of Projects	Total Estimated Cost in Rs. Cr.
1	**Safety Equipment**	**2.09**

The detailed BoQ for Safety Equipment is provided in Annexure 4

48. Benefits of FY27 Safety Initiatives

- Strengthens workplace safety and operational reliability.
- Reduces injuries and incident rates through improved tools and comprehensive training.
- Encourages hands-on and technology-enabled learning methods.
- Ensures compliance with safety audits and statutory regulations.
- Enhances public safety and continuity of service.
- Promotes innovation in safety via modern technological interventions.
- Reinforces a proactive safety culture across all departments.

- Boosts skill development and real-time monitoring through HoTT facility upgrades and interconnectivity.
- Minimizes equipment failure and field risks using modern tools such as discharge rods, neon testers, and tree pruners.
- Improves preparedness for fire hazards through strategic deployment of fire extinguishers.
- Fosters innovation with dedicated Safety Innovation Projects to explore next-generation safety technologies.

49. TPSODL's FY27 safety CAPEX plan demonstrates its unwavering commitment to maintaining a safe, efficient, and future-ready distribution network. By investing in essential safety tools, upgraded training infrastructure, and innovative solutions, TPSODL is advancing its mission of ZERO HARM and fostering a culture of proactive risk management. Collectively, these initiatives under the FY27-CAPEX plan reinforce TPSODL's core dedication to providing a safe workplace, ensuring reliable service delivery, and protecting public welfare—setting new standards in safety excellence.

Provision of Electrical Testing Equipment

50. 3-Phase Variac (Air-Cooled) – 20 A
    - Provides adjustable 3-phase voltage for testing stabilizers, PTs, and transformers.
    - Ensures safe energization by gradual voltage ramp-up.
    - Improves test accuracy and repeatability under controlled voltage conditions.
    - Multiple units reduce bottlenecks across parallel benches.
51. Portable Automatic Dielectric Frequency Response Analyzer (DFR/FDS)
    - Detects moisture and ageing in oil-paper insulation for transformers and bushings.
    - Enables condition-based maintenance, preventing catastrophic failures.
    - Covers multiple assets: transformers, bushings, CBs, cables, and motors.
    - Automated reporting ensures traceability and trending.
    - Two units allow simultaneous field and factory diagnostics.
52. Relay Test Bench
    - Verifies protection relay performance (pickup, timing, logic) before deployment.

- Supports end-to-end scheme validation, reducing commissioning errors.
- Enhances safety by ensuring correct relay operation.
- Improves productivity with standardized test sequences.

53. Online Moisture Removal System for Transformers
    - Removes moisture without full transformer outage, maintaining service continuity.
    - Improves insulation health and extends transformer life.
    - Reduces risk of breakdown and costly failures.
    - Complements DFR/FDS diagnostics for targeted treatment.

54. HVB10 Bridge Rectifier Kit for Cable Fault Finding
    - Enables accurate pre-location and pinpointing of cable faults.
    - Reduces outage duration by speeding up fault isolation.
    - Handles multiple fault types (open, short, high-resistance).
    - Provides safe, controlled HV output for fault location.

55. FLIR Thermo-Vision Cameras
    - Detects hotspots in electrical equipment for predictive maintenance.
    - Prevents failures and fire hazards by early anomaly detection.
    - 30 units ensure coverage across the sections where thermovision camera not available.
    - Supports documentation for audits and root-cause analysis.

56. 3-Phase 15 kVA Stabilizers
    - Provides regulated supply for test benches and sensitive instruments.
    - Ensures consistent test results by eliminating mains fluctuations.
    - Protects equipment from voltage sags/swells.
    - 14 units allow independent operation of PSS where the frequent voltage related issues are observed.

Table 9 : Cost Expenditure of Electrical testing Equipment

Sl. No	Description of Projects	Total Estimated Cost in Rs. Cr.
2	**Electrical Testing Equipment**	**1.41**

The detailed BoQ for Safety Equipment is provided in Annexure 4

DTR Workshop Equipment

57. Distribution transformer is one of the major and valuable assets in the power distribution utility. In TPSODL around 69826 DTRs are installed over large geographical area. Due to various reasons lots of DTRs are failing in regular intervals. Under a previous CAPEX, one DTR workshop was established and is currently operating at the Berhampur Central Store, serving the TPSODL area. However, it is difficult to cover remote areas such as the Jeypore and Rayagada circles due to the long distance required for transporting Distribution Transformers (DTs). Hence it is taking more times for repairing failed DTRs which leads to unavailability of DTRs to restore power supply, increase in SAIDI & SAIFI and customer dissatisfaction. To address this, a new DTR workshop at Jeypore is needed, along with various tools and equipment, for repairing and reconditioning DTRs. This will increase the DTR repair capacity, leading to improvements in SAIDI, SAIFI, and customer satisfaction, while also mitigating the scarcity of DTRs.

Table 10 : Cost Expenditure of DT Workshop Equipment

Sl. No	Description of Projects	Total Estimated Cost in Rs. Cr.
3	Electrical Testing Equipment- DTR Workshop	1.59

The detailed BoQ for Safety Equipment is provided in Annexure 4

58. TPSODL therefore proposes Capital expenditure for Safety and Electrical Testing Equipment as per the table below

Table 11 Capital Expenditure towards Safety and Electrical Testing Equipment

Sl. No.	Description of Projects	Total Estimated Cost in Rs. Cr.
1	Safety Equipment	2.09
2	Electrical Testing Equipment	1.41
3	Electrical Testing Equipment- DTR Workshop	1.59
	Total	**5.09**

4.1.2 Network Refurbishment for Safety Enhancement

Cradle Guard

59. Risk Analysis and Risk Control is a major process to identify the factors that may affect the operation and consumer safety. At initial stage, vulnerable location had been identified and these locations were prioritized. These locations largely include substations fencing, putting intermediate pole, provision of cradle guard etc.

60. Cradle guards are provided in overhead MV/HV/LV feeders, by which a live conductor, when accidentally gets broken, is prevented to come in contact with public or animals and vehicles. With cradle guards in place, whenever a live conductor breaks, it first touches the cradle guard thus completing the electrical circuits necessary for the operation of the protection relays installed at substations. This in-turn trips the circuit breaker and danger to any living object is averted. At present, most of the network is overhead and there is no provision of guard or cradle wire installed beneath the overhead conductors for most of the feeders. This poses serious safety threat to the general public and possibility of conductor parting cannot be ruled out. In such a scenario, cradle guard will help in avoiding accidents caused by snapping of conductors of overhead MV feeders. TPSODL proposes to put in place the cradle wire/guard wire at public places, road crossings etc. The summary of the cost estimate is as follows:

Table 12 Capital Expenditure of Cradle Guard

Sl. No.	Description of Projects	Unit Cost- (Rs Lakhs)	(No.s)	Total Estimated Cost (in Rs Cr.)
a	Cradle Guard-33 KV	4.32	75	3.24
b	Cradle Guard-11 KV	1.56	75	1.17
1	**Total**		**150**	**4.41**

4.1.3 Fencing of DSS, Switchyard development at PSS

Switchyard development at PSS

61. Switchyards are with electrical structures, however there is no proper separation, no gravel filling and these areas need grading to make it neat. We have completed 31

switchyards till FY25 and planned 16 nos of switchyards in FY26. We further propose to cover 20 numbers of Switchyards for FY27. Remaining 53 switchyards are to be taken up beyond FY27.

Fencing of Distribution substations (DSS)

62. Distribution Substation are located at various scattered locations along the Road, public places, near the commercial areas etc catering the power supply requirement to the consumers. We have executed Fencing of DSS under previous approved CAPEX but still Fencing at many locations is yet to be done. During the survey, it is observed that fencing is either damaged or do not exist for many DSS thus posing a safety threat to stray animals and public at large. Hence it is proposed for Construction of fencing for DSS, wherever required. Remaining will be done in phased manner.

63. In addition, Distribution Substation (DSS) comprises of various equipment which perform specific task to ensure delivery of power supply at appropriate voltage to the end consumers. The main components are 11 kV Switching device, 11 kV Protection, Transformer, LV Protection, Earthing, fencing and O/G LV feeders. The most expensive equipment in the DSS is the Transformer and its life depends upon healthy condition of all other components be it LV Protection, HV Protection, Earthing or fencing. Thus, fencing is one of the most important parts which ensures overall first-hand protection of the transformer. Therefore, installation of fencing to safeguard the DSS equipment and to maintain safety clearances is one of the major needs.

64. The Benefits of DSS fencing would be as follows:

- It will benefit by improving the safety of people, DSS equipment failure will be reduced, hence power cuts will decrease.
- Safety of general public and stray animals.

65. The summary of the cost estimate is as follows:

Table 13 Capital Expenditure towards Fencing of DSS and Switchyard Development at PSS

Sl. No.	Description of Projects	UOM	Qty	Total Estimated Cost (in Rs Cr.)
1	Switchyard Development	No. s	32	5.00

Sl. No.	Description of Projects	UOM	Qty	Total Estimated Cost (in Rs Cr.)
2	**DTR Fencing Total Approx: 73800 mtr (60% with Brick work, 20% chain link and 20% barbed wire)**			
2.1	Brick wall Fencing	RM	44280	1.44
2.2	Chain link fencing	RM	14760	0.45
2.3	Barbed Wire fencing	RM	14760	0.12
2	**Total**			**7.01**

4.1.4 Intermediate poles for unsafe to safe location

Existing Scenario

66. TPSODL licensee area is spanning over a geographical area of 48,781 sq.km, having a vast network of 4,684 Ckt. KMs of 33 KV O/H Network , 39,766 Ckt Kms of 11KV O/H network & 34,662 CKMs of LT O/H networks, approximately. There have been several irregularities in the span length of pre-exisitng networks where the span lengths are beyond 70m at some places.
67. To overcome such scenarios, where the span length is on the higher side, it is of utmost importance to provide intermediate poles in between the spans. The addition of intermediate poles will address the issue of sagging, low ground clearances & accidents caused due to this. To ensure safe and reliable power supply to end consumers, TPSODL proposes addition of intermediate poles in 33kV and 11kV lines in phased manner emphasizing critical areas such as schools, hospitals, markets and other key installations.

68. The details of intermediate poles considered in FY2026-27 proposal are given below:

Table 14: Capital Cost for providing Intermediary Poles

Sl. No.	Description of Projects	UOM	Unit Cost (Rs. in Lakhs)	Qty	Total Estimated Cost (in Rs. Cr.)
1	Intermediate poles for vulnerable location(33kV Line) -13 M WPB	Nos.	0.69	28	0.19
2	Intermediate poles for vulnerable location(33kV Line) -11 M WPB	Nos.	0.61	80	0.49
3	Intermediate poles for vulnerable location(11 kV Line) - 13 M WPB	Nos.	0.65	2	0.01
4	Intermediate poles for vulnerable location(11 kV Line) - 11 M WPB	Nos.	0.57	385	2.18

Sl. No.	Description of Projects	UOM	Unit Cost (Rs. in Lakhs)	Qty	Total Estimated Cost (in Rs. Cr.)
5	Intermediate poles for vulnerable location(11 kV Line) - 9 M WPB	Nos.	0.48	40	0.19
6	Intermediate poles for vulnerable location(11 kV Line) - 10 M PSC	Nos.	0.27	99	0.26
7	Intermediate poles for vulnerable location(11 kV Line) - 9 M PSC	Nos.	0.18	234	0.43
8	Intermediate poles for vulnerable location (LT Line) - 9 M WPB	Nos.	0.45	71	0.32
9	Intermediate poles for vulnerable location (LT Line) - 9 M PSC	Nos.	0.14	330	0.46
10	Intermediate poles for vulnerable location (LT Line) - 8 M PSC	Nos.	0.12	208	0.24
3.	**Total**			**1477.00**	**4.78**

4.1.5 Summary of Network Refurbishment for Safety Enhancement

69. Accordingly, TPSODL proposes Capital expenditure of **Rs 16.2 Cr**. for FY 2026-for Safety Enhancement as below.

Table 15: Summary of Capital Expenditure towards Network Safety

Sl. No.	Activity	Total Estimated Cost (Rs.in Cr.)
1	Cradle guard at major road crossings, Populated area, School area	4.41
2	Fencing of Distribution substations (DSS), Switchyard development at PSS	7.01
3	Intermediate poles for vulnerable location	4.78
Network Refurbishment for Safety (Rs Cr)		**16.2**

The Unit rate for Cradle guard, DSS fencing, Switch yard Development & intermediate pole is provided in Annexure 6 : Unit BoQ Details

4.1.6 Summary of Expenditure under Statutory and Safety

70. Considering the above estimates, the total estimated expenditure under Safety proposed for FY 26-27 is as follows:

Table 16: Capital Expenidture under Statutory and Safety

Sl. No.	Activity	Total Estimated Cost (Rs. in Cr.)
1	Safety & Electrical Testing Equiment	5.09
2	Network Safety	16.20
Total		**21.29**

4.2 LOSS REDUCTION

71. Technical & Non-Technical Losses (commercial) constitute the AT&C losses of the Distribution company. The technical losses are due to energy dissipated in the conductors of distribution line and equipment in Network System. Further, Technical losses are directly dependent on the network characteristics such as lengthy distribution lines, overloading of the Line, inadequate size of conductors, Unequal load distribution on 3 phases of the line, poor workmanship, old conductor having multiple joints.

72. In TPSODL metering of Feeder and DTs has been done in accordance with the notifications/guidelines issued by Bureau of Energy Efficiency, Ministry of Power, Government of India. However, meters are yet to be installed on some of the Feeders & many Distribution Transformers leading to difficulties in Energy Accounting. As a result, it is not possible to determine energy input accurately and hence we are unable to measure AT&C losses at each level as envisaged by the Hon'ble Commission. Energy accounting provides the means to identify areas of leakages, wastage and inefficient energy usage.

73. Under this head, following activities are proposed:
    - LT Bare to LT AB Cable
    - Feeder Meter for Energy Audit and DT Metering
    - GIS Integration

4.2.1 LT Bare to ABC Conversion and Polycarbonate box

LT Bare Line to AB Cable

74. In TPSODL, LT network plays important role of the Power supply distribution system and spread across TPSODL licensed area for power distribution. These bare conductor lines are more subject to electricity theft through direct hooking and thus causing revenue leakage in the system. Hence bare to ABC conversion has been planned in theft prone areas from last few years to reduce thefts. A length of 31 KM is proposed in FY 27. This will also help in preventing transient fault in LT network and improve safety. Remaining quantity will be planned in a phased manner.

Benefits:

75. By executing the proposals as made in this head, 415V network can be strengthened and we would be able to serve our consumers in much better way. Following benefits are envisaged from this investment:
    - Reliable Power supply to the Consumers since bare conductor will get converted into insulated cable.
    - Comparatively safer than the LT Bare conductor and eliminate the element of risk if one comes in close proximity.
    - Simpler installation, as crossbars and insulators are not required.
    - Suitable for congested lanes as well.
    - Electricity theft will be difficult as hooking would not be possible.
    - Less required maintenance and necessary inspections of lines.

76. Total estimated cost for LT Bare to AB Conversion proposed for FY 2026-27 is as given in the table below

Table 17 Capital Expenditure conversion of LT Bare ABC

Sl. No.	Description of Projects	UOM	Unit price (Rs Lakhs)	Quantity	Total Estimated Cost (in Rs. Cr.)
a	LT Bare to ABC Conversion (95 sqmm)	CKM	8.96	2.00	0.18
b	LT Bare to ABC Conversion (50 sqmm)	CKM	6.40	23.51	1.51
c	LT Bare to ABC Conversion (35 sqmm)	CKM	5.56	5.70	0.32
1	**Total**			**31.21**	**2.00**

The Unit rate for conversion from LT Bare to ABC & Polycarbonate box is provided in *Annexure 6*

Table 18 Road Map for LT Bare to AB Cable

Sl. No.	Activity	UOM	Total Scope across System	Planned so far (up to FY'26 DPR)	Balance Requirement	Proposed under FY'27 DPR	Balance
			A	B	C=A-B	D	E=C-D
1	LT Bare to AB Conversion	CKM	2733	296	2437	31	2406

Polycarbonate Box

77. Proposal for Polycarbonate Boxes -To enhance the safety, reliability, and operational efficiency of the LT distribution network, TPSODL proposes the installation of Polycarbonate Distribution Boxes on LT poles across PAN TPSODL area. These boxes will serve as secure enclosures for LT junctions, service connections and meter output terminations, especially in dense consumer clusters. It will help in distribution of service cable from each pole without multiple piercing of LT AB cable and help in minimizing pilferage of energy.

Table 19:Capital Expenditure for Polycarbonate Box

Sl. No.	Description of Projects	UOM	Unit Cost (Rs Lakhs)	Quantity	Total Estimated Cost (Rs. in Cr.)
2	Polycarbonate Box	Nos.	0.064	2326	1.49
2.	**Total**				**1.49**

The Unit rate for conversion from LT Bare to ABC & Polycarbonate box is provided in Annexure 6

4.2.2 Feeder Meter for Energy Audit

78. As per the, Gazette Notification of the Government of India, Bureau of Energy Efficiency, Ministry of Power, Government of India issued for Conduct of Energy Audit in Electricity Distribution Companies under the purview of Energy Conservation Act, 2001, has released the following notifications:

- **Notification Number 18/1/BEE/DISCOM/2021 dated: 06th Oct 2021 (Mentioned in the annexure No- 9.2.7),** which requires TPSODL to install meters on all feeders and provides broad framework for conduct of Annual Energy Audit and Quarterly Periodic Energy Accounting with necessary Pre-requisites and reporting requirements to be met.
- **Notification Number 18/1/BEE/DISCOM/2022 dated: 28th Oct 2022)** which requires TPSODL to install meters on all Distribution transformer 25KVA and above for conduct of Annual Energy Audit and Quarterly Periodic Energy Accounting with necessary Pre-requisites and reporting requirements to be met.

79. We need to also install boundary meters for the accurate energy computation of Division/Sub-division wise Losses so that we can get to the true picture of loss prone area and accordingly take steps to minimize the loss.

80. As per section 5 of above-mentioned notification, one of the pre-requisites is to ensure the installation of functional meters for all consumers, transformers and feeders and verification of accounted energy flow submitted by electricity distribution company at all applicable voltage levels of the distribution network.

81. The notification(**18/1/BEE/DISCOM/2021)** provides us the Trajectory for Meter Installation under first schedule, which states "100% Communicable Feeder Metering integrated with AMI, by 31st December 2022 along-with replacement of existing non-communicable feeder meters "and the notification (18/1/BEE/DISCOM/2022) provides us the Trajectory for Meter Installation under first schedule, which states "All Distribution Transformers 25KVA and above shall be metered with communicable meters by December 2023". As per Section 7 of above-mentioned notification (**18/1/BEE/DISCOM/2021)**, manner to conduct energy audit includes verification of accounted energy flow submitted by TPSODL at all applicable voltage levels of the distribution network.

82. As per these regulations, TPSODL shall conduct an annual energy audit for every financial year and submit the annual energy audit report to the Bureau of Energy Efficiency (BEE) and respective State Designated Agency and also be made available on the website of TPSODL within a period of four months from the expiry of the relevant financial year.

83. TPSODL would need feeder metering and DSS metering to ensure the complete distribution network is metered at all receiving as well as sending end. This would enable TPSODL to generate energy audit reports feeder-wise for all the feeders. These reports will provide detailed information about electricity consumption by different categories of consumers & the transmission and distribution losses in various sub-divisions, divisions and circles.

84. Currently 98% 33kV GSS outgoing feeders are metered, 71% PSS incoming feeders are metered. At 11kV level, 99% of feeders are metered. A large Consumer mapping at feeder level is completed and loss levels are calculated. However, at DTR level, consumer mapping/indexing rectification is under progress, which further is of upmost focus.

85. Further, the consumer-wise mapping to respective feeders for various categories of consumers is not updated / accurate, it is difficult to generate accurate energy audit

reports to get specific insights about the distribution network to identify areas of high loses and theft and enable corrective action (as required).

86. A good and effective Energy Audit system would need all the 33KV and 11KV outgoing feeders as well as Distribution Transformers to be metered with relevant metering system. This would allow TPSODL to have a very comprehensive and effective EA system which would help TPSODL, as corrective actions can be planned & implemented to ensure that technical and financial losses are minimized.

87. Energy accounting would consider all energy inflows at various voltage levels in the distribution network, including renewable energy generation (solar) and open access consumers, as well as energy consumption by the end consumers. Energy audit would help TPSODL to identify areas of high loss and pilferage, and thereafter focused efforts to take corrective action; as well as help to take informed decisions about augmenting the network after insights about overloaded network segments.

Benefits:

a. To help develop comprehensive energy accounting system to quantify and determine actual losses in the power distribution system, segregated across technical and commercial losses.
b. Identify areas of leakage, theft, wastage or inefficient use, thereby further helping to reduce high Transmission and Distribution (T&D) losses.
c. To enable TPSODL to undertake targeted efficiency improvement activities to reduce T&D losses in target areas / customer segments.
d. Identification of overloaded feeders, sections / DTRs of the network for necessary capacity additions in future.
e. It can provide insights for TPSODL to further prioritize energy capital investments and help budget more accurately to achieve maximum results.
f. Energy Audit monitoring system would enable TPSODL to assess correct and accurate distribution loss levels
g. Appropriate corrective actions can be planned & implemented to ensure that technical and financial losses are minimized

Table 20 Cost Expenditure of Energy Audit Programme

Sl No.	Description of Projects	UoM	Qty.	Total Estimated Cost in Rs. Cr.
3	33&11KV Feeder & DT Metering for Energy Audit	Nos.	5600	12.62

The detailed estimated BOQ is provided in Annexure 5: Energy Audit Program

Table 21 Road Map for Energy Audit Programme

Sl. No.	Activity	UOM	Total Scope across System	Planned so far (up to FY'26 DPR)	Balance Requirement	Proposed under FY'27 DPR	Balance	Remarks
			A	B	C=A-B	D	E=C-D	
1	33kV Metering	Nos	833	633	200	200	0	These meters are to be installed for Existing & proposed 33kv feeder, Pss I/c, Pss O/g, Boundary Meter, T-off Meter
2	11kV Metering	Nos	1365	965	400	400	0	These meters are to be installed for Existing & proposed 11kV feeder & Boundary Meter
3	DT Metering	Nos	46820	27398	19422	5000	14422	25kVA & Above

4.2.3 GIS Implementation

88. GIS has been implemented for PAN TPSODL (6 circles) and GIS system is also live for users of PAN TPSODL. GIS system is also integrated with external systems like Energy Audit (UDS), Cyme, ADMS, Suraksha Kavach (SK 2.0) and billing database (FG).

89. To make GIS system more useful to multiple departments and GIS database should be updated as per execution of new Capex works carried out in the field.

90. Benefits:

- New GIS applications which will be developed in FY-27 as per emerging business requirements from multiple departments will increase their productivity on field and within office.
- GIS system will help to serve customer for better resolution of complaints
- GIS system will help O&M team for reliability of network.
- GIS System will help Finance Team for Fixed Asset Register and audit the geo locations of Assets on TPSODL service area.
- GIS System will help NEP team for load analysis, analysis of low voltage and calculation of technical loss through GIS & Cyme Integration.
- GIS system will help PSCC and Automation team to provide visibility of 33 KV network to 11 KV to consumer meter point through GIS & ADMS integration.
- GIS System will enable mapping of all the assets & customers, enables quick services in case of breakdown of network.
- GIS applications will aid in collection, monitoring and management and consequently reduce the commercial losses.

91. The details of schemes and associated estimated cost inclusive tax are tabulated below for FY 27.

Table 22 Cost Expenditure for GIS

Sl. No	Scheme	Scheme Description	Total Estimated Cost (Rs. in Cr.)
a	Application Development	• Development of following new applications for emerging business requirements from multiple departments in GIS system. • Automatic SLD Generator • Auto Digitization in GIS system from Drone images • Scheme Creation through Web	1.00
b	Survey and Digitization for New & Missed Assets		2.00
4.		**Total**	**3.00**

Table 23 Road Map for GIS

Activity	UOM	Total Scope across System	Planned so far (up to FY'26 DPR)	Balance Requirement	Proposed under FY'27 DPR	Balance	Remarks
		A	B	C=A-B	D	E=C-D	
GIS Implementation	No. of Circle	6	6	0	0	0	6 Cicle have been planned but for GIS Mapping of New and Missed Assets for PAN TPSODL and Aplpication developme nt, is proposed in this FY

4.2.4 Summary of Capital Expenditure for FY 2026-27 under Loss Reduction category:

92. The summary of the Expenditure under Loss Reduction Category is as given in the Table below

Table 24 Capital Expenditure under Loss Reduction

Sl. No.	Activity	Total Estimated Cost (Rs. in Cr.)
1	LT Bare to ABC Conversion	2.00
2	Polycarbonate Box	1.49
3	Feeder & DT Metering for Energy Audit	12.62
4	GIS Implementation	3.00
Sub Total- Loss Reduction (2)		**19.11**

4.3 NETWORK RELIABILITY

4.3.1 SCADA- Automation and Security Survillence at PSS

93. SCADA - Automation and Security Surveillance: TPSODL has made significant progress on implementation of SCADA and brought 178 PSS till date on SCADA which enables operators to monitor & control the PSS and distribution network from Power System Control Centre (PSCC).

94. TPSODL plans to bring all 257 PSS on SCADA by the end of FY26, out of which 155 PSS are conventional PSS and 102 are ODSSP PSS.

Table 25 Road Map for SCADA implementation at PSS

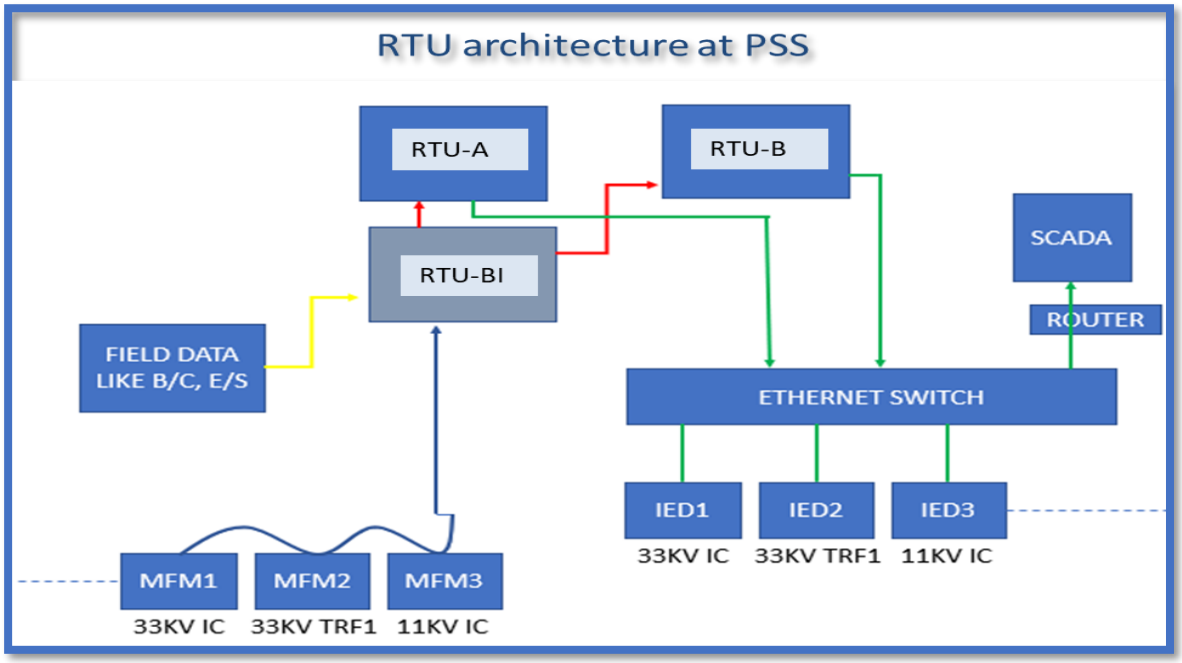
Sl. No.	Activity	UOM	Total Scope across System	Planned so far (up to FY'26 DPR)	Balance Requirement	Proposed under FY'27 DPR	Balance
			A	B	C=A-B	D	E=C-D
1	SCADA implementation at PSS	Nos	257	257	0	-	-

95. TPSODL has also completed ADMS (Advanced Distribution Management System) implementation by integrating GIS (Geographical Information System) using GIS adapter. GIS data of all 6 circles has been integrated with ADMS. Integration of Distribution automation devices such as FRTUs for RMUs, FPIs, Auto-reclosers & Sectionalizers for 33kV as well as 11kV network is in progress which will provide complete network visibility for remote monitoring and control through ADMS.

96. At few of the old ODSSP PSS locations, the existing RTUs and network switches are found to be unstable and going offline intermittently and these are out of warranty as well as declared obsolete by OEM with no further support. To maintain the PSS operations from SCADA it is recommended to replace these faulty/defective RTUs.

97. RTU architecture overview at PSS is provided below: -

Picture 4 : RTU Architecture at PSS

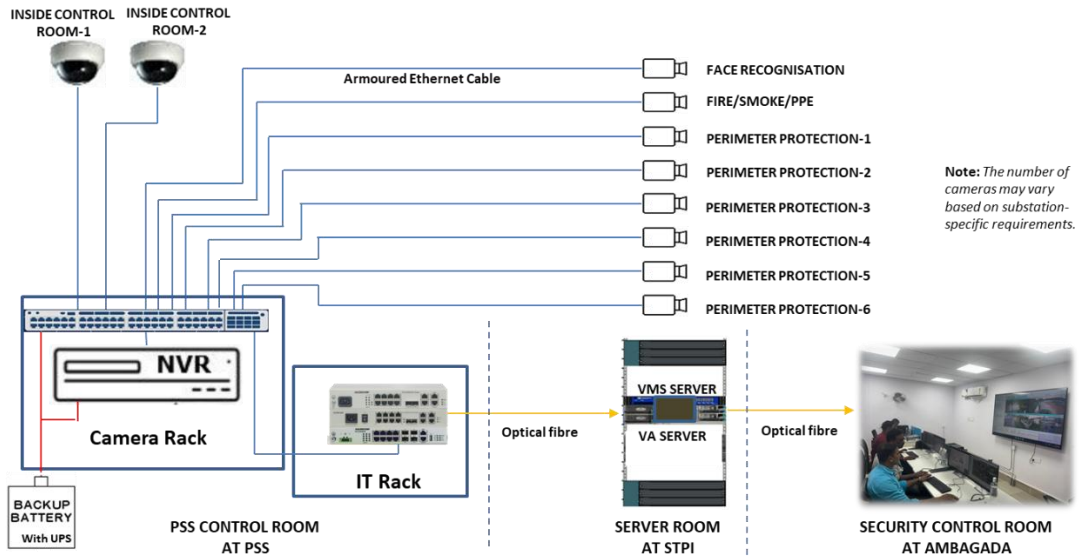


98. Safety, security, remote monitoring of assets, fire hazards and theft of material in automated PSS are very critical which also need to be monitored centrally, which can provide real time insights and proactive measures can be taken to safeguard assets and personnel at PSS through deployment of CCTV surveillance system as an integral part of the Power System automation and control.

99. In view of the above, for the safety and security of the assets & personnel, critical automated PSS were identified for deployment of Security Surveillance System with CCTV cameras. At 20 PSS in City Circle the CCTV cameras have been deployed in FY25 which are being monitored from Security Control Centre at Ambagada office. At 60 PSS the camera deployment and surveillance system implementation will be completed in FY26. It is proposed to consider 40 additional automated PSS for deployment of Security Surveillance System with CCTV cameras. For remaining PSS, CCTV cameras will be deployed in a phased manner.

100. Connectivity Overview of CCTV Surveillance System -

Picture 5 : Overview of CCTV Surveillance System



Benefits:

101. The higher level of automation in the distribution network will ensure quick detection of fault, segregation of faulty equipment and restoration of supply through SCADA. The integrated SCADA & Automation systems will significantly improve operational efficiency, safety, network reliability and reduce down time of network equipment in TPSODL's power distribution system.

102. CCTV implementation at PSS offers a range of security, safety and operational benefits:

- Theft and Vandalism Prevention: Deters unauthorized access, theft, or damage to critical infrastructure, fire or smoke detection etc.
- Real-Time Intrusion Detection: Cameras integrated with sensors and alarms can alert operators to security breaches.
- Worker Safety: Cameras help verify if safety protocols (PPE) are being followed.
- After-Hours Monitoring: Ensures protection during nights, weekends, and holidays without requiring physical presence
- Reduced On-Site Patrols: Lowers the need for manual inspections and security staffing.
- Environmental Monitoring: Identify flooding, vegetation encroachment, or other site conditions that could affect reliability.

103. Accordingly following is being proposed in Capex proposal for FY 2026-27

Table 26 Capital Expenditure of SCADA- automation and Security Survillence

Sl.No.	Project Description	Unit Rate In (Rs. Cr**)	Qty	Total Estimated Cost (Rs in Cr.)
a	Implementation of Security Surveillance System with CCTV cameras at PSS	0.1	40	4
b	Replacement of obsolete equipment like network switches and RTUs at old ODSSP PSS	0.066	30	1.98
c	SCADA network equipment such as storage, network switches and networking cables	0.017	59	1
1	**Total**			**6.98**

** *The Unit rates are inclusive of taxes and are taken from either competitively discovered rates in FY 25/26 and against which orders have been placed or prevailing market rates. We have taken reasonable escalation in the unit rates to accommodate the unknown developments and Cyber security compliances that is affecting the industry currently.*

Network Reliablity Enhancement

104. Most faults that occur on overhead lines are transient faults caused by lightning and tree branches touching the live line conductor. The transient fault caused by lightning results in damage to insulators if lightning arresters are not provided or not working. Transient faults caused by tree branches interfering with line conductor are removed immediately by operation of a protection relay.

105. Regular inspection of feeders followed by tree trimming helps to minimize transient faults and in most cases trial recloser are found to be successful in feeder with higher transient fault. However, each time the feeders are tripped due to transient fault, all customers connected to the feeder experience outage. Utilities at times find it difficult to identify the exact reason of the fault. In a long distribution feeder with many unprotected branches, it becomes difficult to identify the faulty and healthy sections of the feeder. TPSODL has planned few auto reclosers, sectionalizes, and fault passage indicators to improve the reliability of overhead feeders. Apart from installing the above stated equipment, it is also planned to introduce AB switches at 33kV & 11kV long feeders so as to sectionalize at the appropriate location for any planned / unplanned shutdown thereby reducing the no. of affected consumers.

106. As discussed earlier, there areLT feeders emanating from 11/0.415/0.230kV distribution substations don't have protection. As a result, fault in any one LT circuit is likely to affect the supply of all customers connected on the same DTR. To overcome this situation, TPSODL is planning to provide Molded Case Circuit Breakers (MCCB) on LT feeders for control and protection of the feeder.

107. Various initiatives proposed to improve the reliability of power supply in 11kV and downstream network are given below TPSODL intends to implement the following actions in phased manner to improve the reliability of power supply

a. Refurbishment of 33/11kV Primary Substations (Station Transformer & Bus coupler arrangements at PSS, PSS Earthing Enhancement, etc) & Bus Coupler arrangement.
b. Upgradation of 33 KV & 11 KV Line
c. 33 & 11 KV New Lines for reliable power supply
d. Conversion of 33 & 11KV Bare O/H to Covered Conductor
e. UG Cabling work of 33KV & 11KV Line
f. Installation of 33&11KV Autorecloser, Sectionaliser, Communicable, Non-Communicable FPI & RMU.
g. DSS Refurbishment (Replacement of damaged AB Switch, HG Fuse, LA, Earthing, Plinth & DP structure) & Installation of LV protection at DSS.
h. Installation of 4-Pole, NBLS Type Tower & UR+6 Tower for River Crossing

108. In addition, TPSODL has carried out the Load flow Studies considering on five-year load growth. The Network Analysis and actions planned have been based on the five-year load growth. The Load Flow study report is attached in Annexure 9.

4.3.2 PSS Refurbishment

109. The Scope of work for the scheme is divided into 4 categories:

- Revamping/Retrofitting of components in PSS.
- Refurbishment of Earthing System at PSS
- Replacement of Relays at PSS
- Enhancement of Battery Capacity at PSS

110. **Revamping /Retrofitting of Equipments at PSS: -** Primary substation requires replacement of dilapidated 33 kV & 11 KV Bus-bar along with associated conductors, Replacement of obsolete isolating Equipments, Installation of Lighting Arresters, Spike Earthing for PSS Surge Protection, Installation of Switchyard light, Equipment

Earthing, & installation of Under-ground Cables at PSS. We have considered 73 nos. of conventional PSS in FY 2026-27. The remaining conventional PSS will be taken up in a phased manner.

111. **Refurbishmet of Earthing System at PSS: -** The existing Power Substations (PSS) under TPSODL are facing earthing issues, resulting in frequent failures of sensitive electronic equipment such as battery chargers, protection relays, multifunction meters (MFMs), annunciators, SCADA and communication modules. These failures are attributed to the absence of a standard earthing system across the substations.

112. Across TPSODL, 70 nos. PSS, are affected due to unsatisfactory earthing values. In previous CAPEX, improvement works is completed at 4 nos. PSS, with WIP at 1 nos. PSS.

113. For Earthing Improvement, following works are proposed to be carried out in the remaining 65 no.s PSS: -

a. Installation of dedicated earth pits (chemical and conventional).
b. Replacement of corroded conductors
c. Implementation of grid earthing
d. Segregated earthing for power and control systems
e. Proper bonding of all metallic parts and equipment

114. Capital investment is proposed for Earthing improvement at the remaining 65 nos PSS which will improve the following Operational Impact: -

a. Equipment Reliability: Improved performance and reduced failure rate of electronic systems.
b. Safety Compliance: Alignment with CEA and IEEE/IEC standards
c. Cost Efficiency: Reduction in maintenance and replacement costs
d. System Stability: Enhanced protection and automation reliability

115. Replacement of Defective Relays at PSS: The replacement of defective relays at the PSS was undertaken to restore full protective functionality, enhance operational reliability, and reduce the risk of unplanned outages; the process involved identifying faulty units through diagnostic testing, procuring suitable replacements, safely isolating circuits, removing and installing relays, configuring and calibrating the new devices, and conducting post-installation verification, all in adherence to safety protocols and regulatory standards, thereby ensuring improved system protection, extended equipment lifespan, and overall grid stability.

116. **Battery capacity Enhancement at PSS: -**

Temperature Sensitivity of VRLA Batteries

a) Design Life & Degradation

- VRLA batteries are designed for optimal performance around 25 °C; even small deviations from this baseline have large effects on lifespan.
- A widely referenced rule: for every 10 °C increase above ~25 °C, battery life is halved
- E.g., a battery rated for 10 years at 25 °C would deteriorate to ~5 years at 35 °C, and just ~2.5 years at 45 °C.

b) **Chemical & Physical Stress**

- Accelerated chemical reactions at higher temperatures increase self-discharge
- Internal pressure builds up, potentially causing valves to vent gases—leading to irreversible electrolyte deplete.
- Corrosion of the positive plates accelerates, and sulfation/drying increases the battery's internal resistance

c) **Performance Fluctuations**

- At high ambient temps, though internal resistance decreases, the heightened float current and gassing lead to faster degradation.
- Short-term high temps may momentarily boost capacity output—but long-term use drastically reduces overall cycle life.

Requirement of (>6 A) battery capacity enhancement

a. Temperature-Induced Self-Discharge Rise

- As the temperature rises above ~28 °C, **self-discharge escalates significantly**, since chemical side reactions intensify.
- These parallel, temperature-driven currents increase **baseline load**, even without new equipment being added.

b. Float Current & Internal Resistance Spike

- With heat, **floating voltage remains constant**, but battery voltage naturally drops—so current drawn to maintain float charge increases
- Meanwhile, **internal resistance fluctuates**, sometimes increasing with cell stress or degradation—both factors push current demand higher.

c. **Added Load from SCADA & RTUs**

- SCADA commissioning means more RTUs, PTRs, and auxiliary bays—all drawing DC current continuously.
- These additional loads combine with **heat-induced baseline currents**, pushing total up to and beyond 6 A

Bus coupler arrangements at PSS:

117. Bus coupler is a device which is used to couple one bus to the other without any interruption in power supply and without creating hazardous arcs. Presently most of the PSS have individual PTR supplying respective feeders without bus couplers. In case of any PTR failure or long outage, supply is extended to affected 11KV lines from other available PTR by way of temporary jumper arrangement. This is time consuming and also require outage of other PTR in service with unnecessary shutdown to consumers fed from healthy PTR.

118. Bus coupler arrangements at PSS provide additional flexibility, continuity of supply and permits periodic maintenance without total shut-down. In the event of fault/ outage of one PTR, its load can be fed from closing bus coupler without taking outage of another PTR.

Summary of PSS Refurbishment (Electrical) & Bus Coupler

Table 27: Capital Expenditure of Bus Coupler and PSS Refurbishment

Sl. No.	Description of Projects	UOM	Qty		Total Estimated Cost (Rs. in Cr.)
A	**PSS Refurbishment**		73		
i)	Relay & CMR	Nos	78 & 100		1.34
ii)	Battery	No of PSS	91		1.29
iii)	PSS refurbishment works	No of PSS	73		7.31
iv)	Earthing at PSS	No of PSS	65		3.06
	Total (A)				**13**
Sl. No.	**Description of Projects**	**UOM**	**Qty**	**Unit Cost**	**Total Estimated Cost (Rs. in Cr.)**
B	Bus coupler arrangements at PSS	No of PSS	2	0.16	0.31
	Total (B)				**0.31**
2	**Grand Total (A+B)**				**13.31**

Unit BOQ is provided in Annexure 6, location is provided in Annexure 11 and details of PSS refurbishment is provided in Annexure 8.

4.3.3 33 & 11 KV New Lines for reliable power supply

4.3.3.1 33kV New line

119. In TPSODL, 33kV network is the back bone of the power supply system and spreads across vast area of TPSODL and is connected with various 33/11kV PSS from where the power is transformed at 11kV for further distribution. The 33kV network is lengthy and radial in nature at most places.

120. To summarize, we found the following issues that need to be addressed to strengthen the existing network.
- Lengthy and radial connectivity of the network.
- Absence of N-1 redundancy at least to critical installations.
- Circuit capacity restricted due to lower size of conductor in existing line.

121. Due to lack of alternate source, it is not possible for the field teams to transfer the load during shutdown of radial feeder and thus all consumers connected to the affected feeders remain out of service till the field team locate and repair the fault.

122. During considering the proposal for 33kV new line, for providing cyclone resilient infrastructure within 0-60 km of the coastal belt, it is considered 'H-Pole'/WPB pole is considered. 28no. s New Lines have been proposed.

123. National/State Highway/Railway Crossings are also considered in Estimated Cost whereever applicable at locations (Provided in Annexure-6)

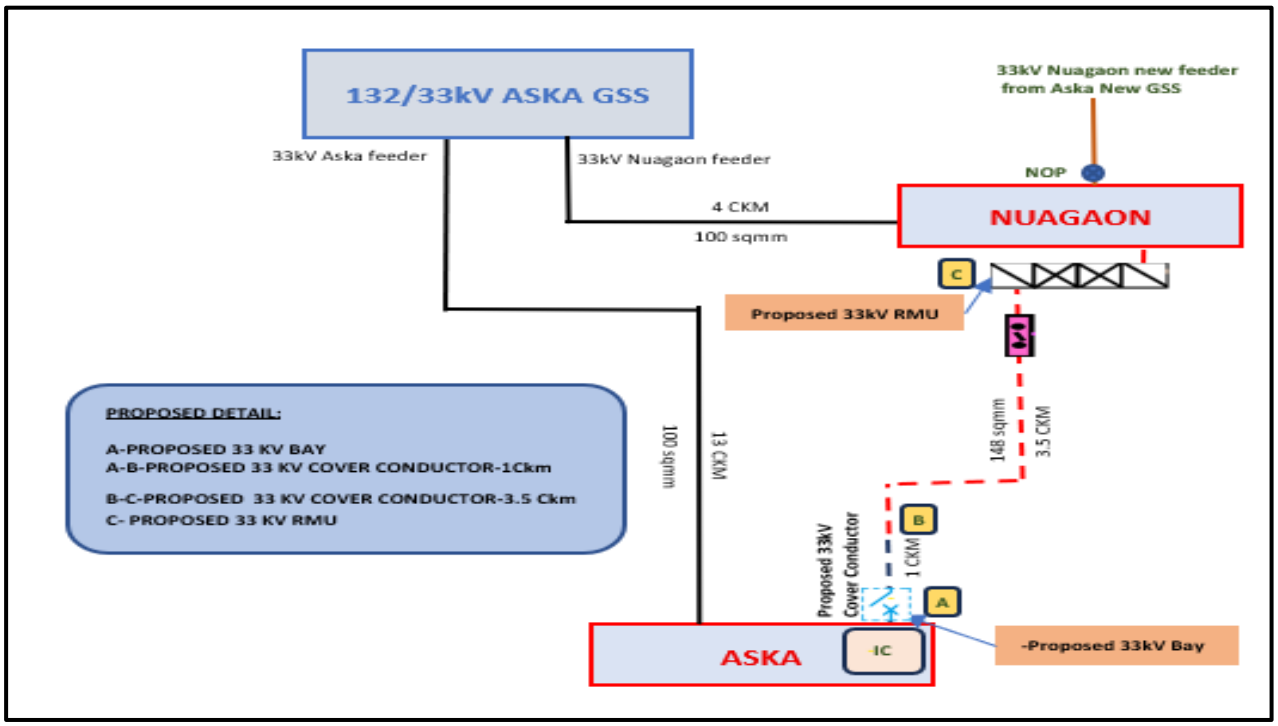
124. Proposal for 33 KV New Line is broadly categorized in below table.

Table 28: Category for 33 KV New Line

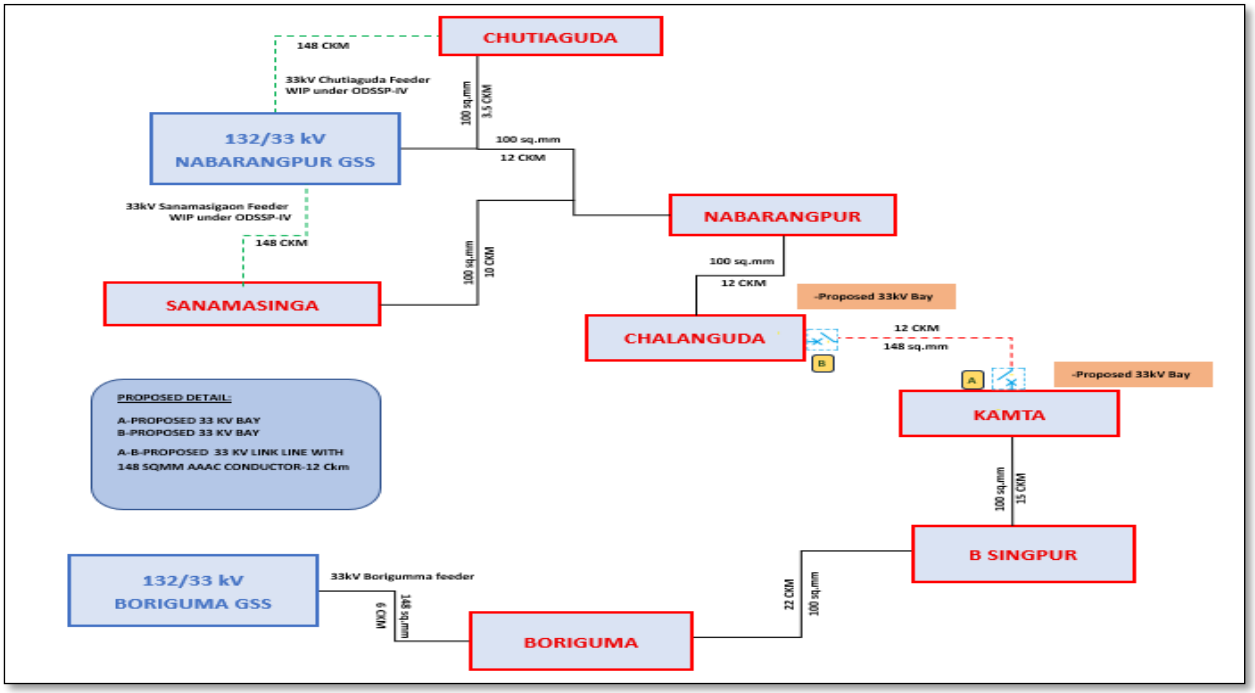
Sr.no	Category of Proposal	Quantity in Nos.
1	Proposal for N-1 Arrangement by Interconnection	4
2	Proposal for load shifting	1
3	Feeders considered for Load Bifurcation	1
4	Mitigation of multiple feeders on Group VCB	5
5	Conversion of Tapping to LILO Arrangement	12
6	Mitigation of over loading	2
7	Conversion of Radial to ring feeder	3
	TOTAL	28

125. Sample SLD for 33 kV New lines category as mentioned above are provided below:

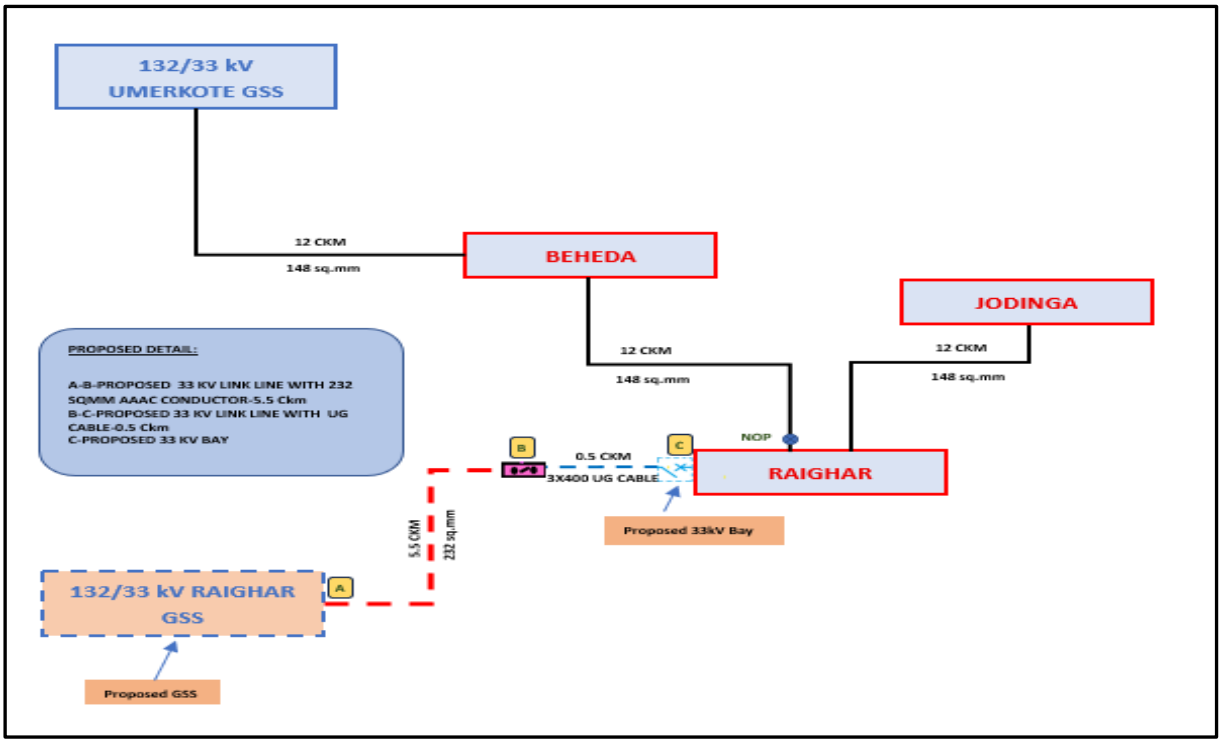
Picture 6 : 33kv New Link Line for Radial to ring connectivity



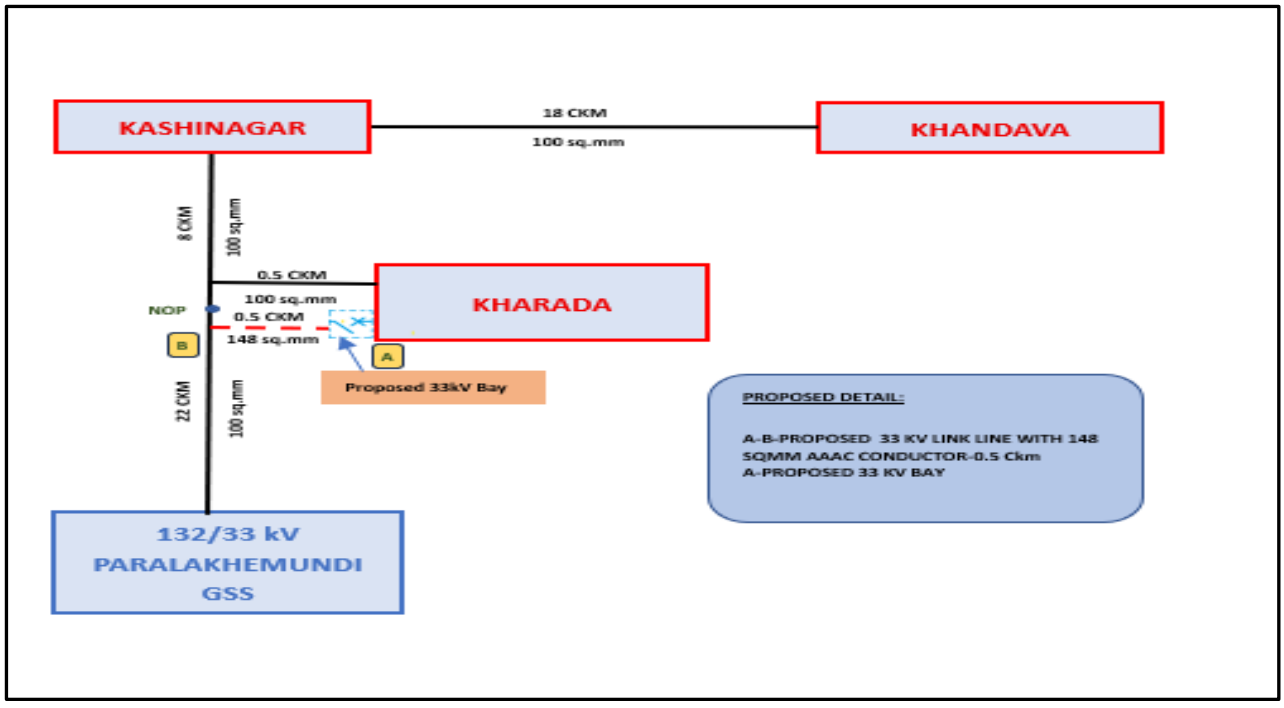
Picture 7 : 33kV N-1 Arrangement by Interconnection between PSS



Picture 8 : 33kv New Link Line for load shifting



Picture 9 : 33kv New Link Line for Conversion of Tapping to LILO Arrangement



126.The following lines have been considered in the CAPEX FY2026- 27

33 kV New link line for Reliability Power Supply-

Sr No	1
Circle-Division	Jeypore-NED
Existing 33 kV Feeder Name	Beheda
Location From	Raighar GSS
Location To	Raighar PSS
Considered Length (CKM)	6
No. of Bay required	01
Project Cost (Cr.)	3.14
Proposed Conductor (Sq.mm)	232
Considered Year	2027
Technical Justification	Presently, Raighar PSS receive 33kV power supply form 33 kV beheda feeder which emnates from Umerkote GSS. This existing feeder has length of approx. 45 Ckm & using 100+148 Sqmm Conductor. This feeder provides power supply to Beheda PSS, Raighar PSS, Jodinga PSS as well as agriculture Consumers. Currently, there is no N-1 source for Raighar PSS during contingency period which results maximum outage during feeder breakdown. To address this reliability issue, additionally a new Grid substation (GSS) is currently under construction at Raighar. Hence, in order to utilize the available bay at upcoming Raighar GSS and to enhance supply reliability, a new 33 kV Linking line(6 ckm) to Raighar PSS is here proposed.

Sr No	2
Circle-Division	Jeypore-KED
Existing 33 kV Feeder Name	Medical
Location From	Podagada PSS Front
Location To	Four Pole of Medical feeder

Considered Length (CKM)	0.25
No. of Bay required	01
Project Cost (Cr.)	0.41
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Podagada PSS, currently receives power from the Podagada GSS through the 33 kV Podagada feeder. The total line length is approximately 3.5 CKM. Presently, there is no N-1 redundancy available for this PSS. The 33 kV SLNMCH Medical feeder, also emanating from Podagada GSS, passes in close proximity to Podagada PSS. However, presently it has a single-breaker arrangement located at the roadside, which poses operational and safety concerns. To ensure N-1 reliability for Podagada PSS and address the unsafe roadside breaker setup, it is proposed to implement a Line-In, Line-Out arrangement on the 33 kV SLNMCH Medical feeder. Expected Benefits: Provides N-1 redundancy to Podagada PSS, improving reliability and operational flexibility, eliminates unsafe roadside breaker configuration, enhancing safety, Enables better load management and fault isolation

Sr No	**3**
Circle-Division	Jeypore-KED
Existing 33 kV Feeder Name	Medical
Location From	MEDICAL FOUR POLE AT SLNMCH MEDICAL
Location To	New four pole back side of division office
Considered Length (CKM)	1
No. of RMU required	01
Project Cost (Cr.)	0.86
Proposed Conductor (Sq.mm)	148
Considered Year	2027

Technical Justification	SLNMCH, located in Koraput, is a 300-bedded facility serving not only the undivided Koraput district but also other backward regions such as Kalahandi, Nuapada, and parts of neighboring Andhra Pradesh and Chhattisgarh. The healthcare demand in this area is poised to increase significantly with: Ongoing construction of a new 650-bedded Teaching Hospital. Establishment of a dedicated Cancer Hospital within the same campus. At present, the hospital is availing N-1 power supply through the following arrangement: Sunabeda GSS via the Koraput 33 KV Feeder, and Podagada GSS via the Medical Feeder, interconnected using line AB switch arrangements at both feeders ends. Proposal: To further improve the reliability and operational efficiency of the power supply, it is proposed to: Install one number of 33 KV RMU near Old Koraput PSS. Construction of 1 Ckm of 33 KV new line connecting this RMU to the existing network. Expected Benefits: Enhanced System Reliability: Provides an additional robust power to the medical complex, nullify dependency on AB Switchs and minimizing supply disruptions. Avoid Multiple tapping of medical load. Reduced Switching Time will provide UninterruptedPower supply.

Sr No	**4**
Circle-Division	Jeypore-KED
Existing 33 kV Feeder Name	OMP
Location From	OMP PSS
Location To	OMP PSS
Considered Length (CKM)	0.02
No. of Bay required	01
Project Cost (Cr.)	0.34
Proposed Conductor (Sq.mm)	232

Considered Year	2027
Technical Justification	The OMP PSS currently receives power supply from the Sunabeda GSS via the OMP 33 kV feeder. An alternative source is also available through tapping from the Koraput 33 kV feeder. However, the absence of a breaker arrangement for this secondary source poses a potential operational and safety risk. To mitigate this unsafe condition and ensure reliable source transfer during contingencies, it is proposed to install one number of 33 kV bay at OMP PSS. This arrangement will enable proper isolation, protection, and controlled switching between the two sources.

Sr No	**5**
Circle-Division	Rayagada- RED
Existing 33 kV Feeder Name	Siliput
Location From	Keutaguda PSS
Location To	Rampur Four Pole
Considered Length (CKM)	4
No. of Bay required	01
Project Cost (Cr.)	1.69
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Presently, Keutaguda PSS receive 33kV power supply form 33 kV Siliput feeder which emnates from Therubali GSS. This existing feeder has length of approx. 60 Ckm & using 100+148 Sqmm Conductor. This feeder provide power supply to Therubali PSS, Keutaguda PSS , Sikarpai PSS, and K Singhpur PSS as well as Industrial Consumers . Currently, Keutaguda PSS is getting power supply through tapping at Rampur Four pole structure and in case of fault period the whole 33KV feeder trips upto Therubali GSS. To address this reliability issue, additionally a new link line from

Rampur four pole structure to Keutaguda PSS is required for LILO arrangement is proposed.

Sr No	6
Circle-Division	Rayagada-PKED
Existing 33 kV Feeder Name	Kasinagar Feeder
Location From	FP Near Kharada PSS
Location To	Kharada PSS
Considered Length (CKM)	0.5
No. of Bay required	01
Project Cost (Cr.)	0.51
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	33kV Kasinagar feeder emanates from Parlakhemundi GSS is feeding power supply to Kharada PSS, Kasinagar PSS, Khandava PSS and 3 nos. Megalift HT consumers such as Kidigaon, Bothava & Khandava. Kharada PSS is getting supply through a tap connection at location around 200 mtrs. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also. A new link line of 0.5Ckm from tap point to Kharada PSS with one no. of bay at Kharada PSS is proposed to convert this tap connection to LILO connection. After implementation of this proposal, reliability power supply will be improved for Kharada PSS.

Sr No	7
Circle-Division	Rayagada-PKED
Existing 33 kV Feeder Name	Paralakhemundi Feeder
Location From	FP Near Chandragiri PSS
Location To	Chandragiri PSS
Considered Length (CKM)	0.5

No. of Bay required	01
Project Cost (Cr.)	0.51
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	33kV Paralakemundi feeder from Mohana GSS is feeding power supply to Chandragiri, Cheligada, R.Udayagiri and Badapada PSS. Chandragiri PSS is getting supply through a tap connection at location around 300 mtrs. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also. A new link line of 0.5 Ckm from tap point to Chandragiri PSS with one no. of bay at Chandragiri PSS is proposed to convert this tap connection to LILO connection. After implantation of this proposal, reliability power supply will be improved for Chandragiri PSS.

Sr No	8
Circle-Division	Rayagada-PKED
Existing 33 kV Feeder Name	Daringbadi Feeder
Location From	FP Near Adava PSS
Location To	Adava PSS
Considered Length (CKM)	0.5
No. of Bay required	01
Project Cost (Cr.)	0.51
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	33kV Daringbadi feeder from Mohana GSS is feeding power supply to Mohona, Adava, Paniganda & Brahmanigaon PSS. Adava PSS is getting supply through a tap connection at location around 500 mtrs. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also. A new link line of 0.5Ckm from tap point to Adava PSS with one no. of bay at Adava PSS is

	proposed to convert this tap connection to LILO connection. After implemenntation of this proposal, reliability power supply will be improved for Adava PSS.

Sr No	9
Circle-Division	Rayagada-PKED
Existing 33 kV Feeder Name	Daringbadi Feeder
Location From	FP Near Paniganda PSS
Location To	Paniganda PSS
Considered Length (CKM)	0.5
No. of Bay required	01
Project Cost (Cr.)	0.51
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	33kV Daringbadi feeder from Mohana GSS is feeding power supply to Mohona, Adava, Paniganda & Brahmanigaon PSS. Paniganda PSS is getting supply through a tap connection at location around 500 mtrs. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also. A new link line of 0.5Ckm from tap point to Paniganda PSS with one no. of bay at Paniganda PSS is proposed to convert this tap connection to LILO connection. After implementation of this proposal, reliability power supply will be improvedfor Paniganda PSS.

Sr No	10
Circle-Division	City-BED-I
Existing 33 kV Feeder Name	Ambapua
Location From	Narendrapur PSS
Location To	Ambapua PSS
Considered Length (CKM)	2.5
No. of Bay/RMU required	01/01

Project Cost (Cr.)	2.96
Proposed Conductor (Sq.mm)	33kV 3Cx400 Under Ground Cable
Considered Year	2027
Technical Justification	Presently, Ambapua PSS receive 33kV power supply form 33kV Ambapua feeder which emanates from the 220/132/33kV Narendrapur GSS. The feeder is radial feeder and feeding power supply to Ambapua PSS, Bidyutpuri PSS, Old Medical PSS respectively and also extend the power supply up to New Medical PSS during exigency. The existing feeder has length of approx. 2.5 Ckm including 232 Sqmm Conductor with a peak load of 310A. Due to the feeder's radial configuration, any fault along the feeder results in power interruptions to Ambapua PSS and associated interconnected PSS. This is due to the unavailability of an N-1 power source which results in a maximum outage during feeder breakdown. Additionally, Narendrapur PSS receive 33kV power supply form 33kV Narendrapur feeder which emanates from the 220/132/33kV Narendrapur GSS. The existing feeder has length of approx. 0.5 Ckm including 148 Sqmm Conductor with a peak load of 90A. A new 33kV link line of approx. 2.5 Ckm is proposed from Narendrapur PSS to Ambapua PSS to convert above feeders from radial to ring network. After this proposals, N-1 arrangement will be available for both PSS.

Sr No	**11**
Circle-Division	City-BED-I
Existing 33 kV Feeder Name	MKCG Express
Location From	Start Point of Railway Crossing
Location To	End Point of Railway Crossing
Considered Length (CKM)	0.3

No. of Bay required	
Project Cost (Cr.)	0.23
Proposed Conductor (Sq.mm)	33kV 3Cx400 Under Ground Cable
Considered Year	2027
Technical Justification	Presently, 33kV MKCG Express feeder emanate from the 220/132/33kV Narendrapur GSS. This existing feeder has length of approx. 13 Ckm & using 232+148 Sqmm Conductor and 33kV UG cable. The feeders supply power to Goodshed PSS, New Medical PSS, Ankuli PSS and it will also feed power supply to Old Medical PSS during exigency. These feeders cater to critical urban loads, including essential services such as the MKCG Medical Hospital, Government offices, Railway station associated areas, educational institutions and commercial markets. The feeder route includes a Railway Crossing. Currently, a single-run 33kV underground (UG) XLPE cable is laid across the railway crossing which carries the entire load of the feeder. In the event of a fault in this UG cable the entire power supply will be interrupted due to the unavailability of a spare UG cable at the railway crossing. To address this issue and enhance supply reliability, a new 33 kV 3Cx400 Sqmm Underground XLPE Cable is proposed for the railway crossing area.

Sr No	**12**
Circle-Division	Berhampur-GNED
Existing 33 kV Feeder Name	Chatrapur
Location From	Chatrapur GSS
Location To	Chatrapur PSS
Considered Length (CKM)	2.5
No. of Bay required	
Project Cost (Cr.)	2.09
Proposed Conductor (Sq.mm)	3Cx400 MM2 UG Cable

Considered Year	2027
Technical Justification	The 33KV Rambha Feeder & Chatrapur 33KV Feeder emenates from Chatrapur GSS running parellel to each other on same tower line from Chatrapur GSS to Chatrapur PSS.During fault/breakdown or any maintanance work between Chatrapur GSS to Chatrapur PSS we are forced to take shutdown of both the feeders resulting in supply interuption toKey adminstrative offices of Govt of Odisha i.e Chatrapur Court,RTO office,Collector Ganjam Office,Ganjam SP office etc.Thus to cater this problem N-1 Supply of 3Cx400 SQMM UG cable is proposed from Chatrapur GSS to Chatrapur PSS for improved reliability to Chatrapur NAC area.

Sr No	**13**
Circle-Division	Berhampur-GNED
Existing 33 kV Feeder Name	Rambha
Location From	Near Humma PSS
Location To	Humma PSS
Considered Length (CKM)	0.02
No. of Bay required	02
Project Cost (Cr.)	0.68
Proposed Conductor (Sq.mm)	232
Considered Year	2027
Technical Justification	33KV Rambha Feeder emanates from Chatrapur GSS.It provides power supply to Humma PSS,Rambha PSS & Sakiri PSS.During exigency it also provides power supply to Chatrapur PSS & Ganjam PSS.Humma PSS is getting supply through tap in arrangement from Humma 4 pole installed near Humma PSS at a distance of approx. 500 Mtrs. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also. 2 nos of

	bay at Humma PSS is proposed to convert this tap connection to LILO connection. After implementation of this proposal, reliability power supply will improve for Humma PSS.

Sr No	14
Circle-Division	Berhampur-HED
Existing 33 kV Feeder Name	Podingi
Location From	Near MJpur
Location To	Near MJpur
Considered Length (CKM)	0.2
No. of Bay required	
Project Cost (Cr.)	0.14
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Presently, MJpur PSS receive 33kV power supply form 33 kV Podingi feeder which emanates from Hinjli GSS . This existing feeder has length of approx. 6 Ckm & using 148 Sqmm Conductor. This feeder provide power supply to Podingi PSS ,MJpur PSS . Currently, there is no N-1 source for MJpur PSS during contingency period which results maximum outage during feeder breakdown. To address this reliability concern, a new 33kV line is currently under construction from Hinjli GSS to Sheragada. From this line, a 0.2 Ckm link line with Four Pole with 2 NOS AB Switch is proposed near MJpur PSS to MJ-Pur PSS provide an alternative source and enhance supply reliability.

Sr No	15
Circle-Division	Bhanjanagar-BNED
Existing 33 kV Feeder Name	Sorada
Location From	Lathipada
Location To	Bibhutia

Considered Length (CKM)	0.4
No. of Bay required	
Project Cost (Cr.)	0.40
Existing Conductor (Sq.mm)	1Cx300 XLPE
Proposed Conductor (Sq.mm)	3Cx300 XLPE
Considered Year	2027
Technical Justification	33kV Soroda feeder from Bhanjanagar GSS is having present peak load of approx. 142.6 A. This feeder supplies power to 4No. PSS and 3No. Megalift & it is extended upto Boroda PSS and also is linked with Dharakote PSS of Aska. The feeder has 2 location where UG cable is used. The UG cable of size 1Cx300 sqmm XLPE is used in the feeder at 2No. Locations for crossing of 2EHV line of 132KV at Lathipada and Bibhutia, the cable was laid appx 25 years back and cable is in deteriorated condition and has no spare cable resulting into impacting reliability in case of cable faulty Analysing above situation, the cable needs to be replaced since, the condition of the cable is in poor condition, So change in the cable is very much needed with spare option for reliable supply during cable fault.

Sr No	**16**
Circle-Division	JEYPORE-JED
Existing 33 kV Feeder Name	Boipariguda
Location From	Palkaput
Location To	Balia PSS
Considered Length (CKM)	1.5
No. of Bay required	1
Project Cost (Cr.)	0.85
Existing Conductor (Sq.mm)	80+100
Proposed Conductor (Sq.mm)	148
Considered Year	2027

Technical Justification	33kV Boipariguda feeder from Jayanagar GSS is having present peak load is approx. 54 A. This feeder supplies power to Balia, Boiparigua, Dashmantpur, Ramagiri, Digapur PSS and Mantri Amba BSF Camp. 33kV conductor size is having 55+80 Sqmm. Balia PSS is getting supply through a tap connection at location around 1.5 Km. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also. A new link line of 1.5 Ckm from tap point to Balia PSS with one no. of bay at Balia PSS is proposed to convert this tap connection to LILO connection. After implantation of this proposal, reliability power supply will improve for Balia PSS and Other connected PSS in this 33 KV Feeder.

Sr No	**17**
Circle-Division	JEYPORE-JED
Existing 33 kV Feeder Name	KUNDRA
Location From	Near kaliagaon location
Location To	Kaliagaon PSS
Considered Length (CKM)	0.1
No. of Bay required	1
Project Cost (Cr.)	0.37
Existing Conductor (Sq.mm)	80+100
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	33kV Kundra feeder from Jayanagar GSS is having present peak load is approx. 82 A. This feeder supplies power to Kaliagaon, Kundra, Bagderi PSS and Jiraguda, Bagderi, Tetulipadar Mega lift Point. 33kV conductor size is having 55+80 Sqmm. Kaliagaon PSS is getting supply through a tap connection at location around 0.1 Km. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also.

	A new link line of 0.1 Ckm from tap point to Kaliagaon PSS with one no. of bay at Kaliagaon PSS is proposed to convert this tap connection to LILO connection. After implementation of this proposal, reliability power supply will improve for Kaliagaon PSS and Other connected PSS in this 33 KV Feeder.

Sr No	18
Circle-Division	JEYPORE-JED
Existing 33 kV Feeder Name	NABARANGAPUR
Location From	Chalanguda PSS
Location To	BANABASI
Considered Length (CKM)	0.5
No. of Bay required	1
Project Cost (Cr.)	0.51
Existing Conductor (Sq.mm)	80+100
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	33kV Nabarangpur feeder from Nabarangpur GSS is having present peak load is approx. 248 A. This feeder supplies power the Nabarangpur PSS, Chutiaguda PSS, Sanamasigaon PSS, Nawrangpur PSS & Chalanguda PSS. 33kV conductor size is having 100 Sqmm. Chalanguda PSS is getting supply through a tap connection at location around 500 mtrs. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also. A new link line of 0.5Ckm from tap point to Chalanguda PSS with one no. of bay at Chalanguda PSS is proposed to convert this tap connection to LILO connection. After implantation of this proposal, reliability power supply will improve for Chalanguda PSS and Other connected PSS in this 33 KV Feeder.

Sr No	19
Circle-Division	JEYPORE-JED

Existing 33 kV Feeder Name	Borigumma
Location From	Kebidi PSS
Location To	Kudiguda
Considered Length (CKM)	8
No. of Bay required	1
Project Cost (Cr.)	3.05
Existing Conductor (Sq.mm)	80+100
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	33kV Borigumma feeder from Jayanagar GSS is having present peak load is approx. 59 A. This feeder supplies power the Randapali PSS, Jamunda PSS, & Kebidi PSS. 33kV conductor size is having 80+100 Sqmm. Kebidi PSS is getting supply through a tap connection at location around 8 Km. If any fault occurs on this extension line, PSS is getting forced shutdown and power interruption experience in other PSS also. A new link line of 8 Ckm from tap point to Kebidi PSS with one no. of bay at Kebidi PSS is proposed to convert this tap connection to LILO connection. After implementation of this proposal, reliability power supply will improve for Kebidi PSS and Other connected PSS in this 33 KV Feeder.

Sr No	**20**
Circle-Division	JEYPORE-JED
Existing 33 kV Feeder Name	Nabarangapur
Location From	Chalanguda PSS
Location To	Kamata
Considered Length (CKM)	12
No. of Bay required	2
Project Cost (Cr.)	4.7
Existing Conductor (Sq.mm)	100
Proposed Conductor (Sq.mm)	148
Considered Year	2027

Technical Justification	33kV Nabarangpur feeder from Nabarangpur GSS is having present peak load is approx. 248 A. This feeder supplies power the Nabarangpur PSS, Chutiaguda PSS, Sanamasigaon PSS, Nabarangpur PSS & Chalanguda PSS. 33kV conductor size is having 100 Sqmm. As Kamta PSS get power supply from Sosahandi GSS through Borigumma PSS but if fault occurs there is no alternate source to get power supply at B Singhpur and Kamta PSS. Therefore, provide N-1 power supply at Kamta PSS as well as B Singhpur PSS a new link line of 12 km with 148 sqmm AAA Conductor from Chalanguda PSS to Kamta PSS with 2 nos of Bay is proposed, which will be able to feed backup power supply to Kamta and B singhpur PSS during emergency condition. This will result in reduction of power interruption and provide quality power supply. This Line is also required to provide Steady Power supply to Moran Mega lift.

Sr No	**21**
Circle-Division	JEYPORE-JED
Existing 33 kV Feeder Name	Boipariguda
Location From	FP Near Boipariguda PSS
Location To	Boipariguda PSS
Considered Length (CKM)	0.8
No. of Bay required	1
Project Cost (Cr.)	0.61
Existing Conductor (Sq.mm)	80+100
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	33kV Boipariguda feeder from Jayanagar GSS is having present peak load is approx. 54 A. This feeder supplies power to Balia, Boiparigua, Dashmantpur, Ramagiri, Digapur PSS and Mantri Amba BSF Camp. 33kV conductor size is having 55+80 Sqmm.

	Ramagiri PSS is getting supply through a tap connection of 33 kV Outgoing Mantriamba feeder at location around 800 mtrs from Boipariguda PSS. If any fault occurs on this extension line, Dashmantpur PSS and Mantriamba BSF Camp are getting forced shutdown. A new link line of 0.8Ckm from tap point to Boipariguda PSS with one no. of bay at Boipariguda PSS is proposed to convert this tap connection to LILO connection. After implementation of this proposal, reliability power supply will improve for Ramagiri PSS and Dashmantapur PSS.

Sr No	**22**
Circle-Division	Berhampur-PSED
Existing 33 kV Feeder Name	33KV Pandia
Location From	Pandia PSS
Location To	Balia (Pratapur PSS)
Considered Length (CKM)	9
No. of Bay/RMU required	01/01
Project Cost (Cr.)	3.91
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Presently, 33 kV Pandia Feeder emanates from 132/33 kV Purushottampur GSS with an existing line length of 7 Ckm, using 100 Sqmm AAAC conductor, and Peak demand is 113 Amp. This feeder supplies power to Pandia PSS and presently there is no N-1 backup arrangement. During contingency or failure of the 33 kV Pandia Feeder, there is complete disruption of power supply to Pandia PSS resulting in consumer dissatisfaction and reliability issues. Therefore, for ensuring uninterrupted power supply and improving system redundancy, a link line of 9 Ckm is proposed from Balia PSS to Pandia PSS to create an N-1 arrangement. This proposed link will enhance the overall reliability of power supply, facilitate load shifting during exigency

	conditions, and improve customer satisfaction in the area.

Sr No	23
Circle-Division	Aska-GSED
Existing 33 kV Feeder Name	Patrapur Feeder
Location From	Pitatali 4P structure
Location To	Pitatali PSS
Considered Length (CKM)	0.8
No. of Bay required	01
Project Cost (Cr.)	0.61
Proposed Conductor (Sq.mm) & type of pole	148sqmm with H-Pole
Considered Year	2027
Technical Justification	33kV Patrapur feeder from Chikiti GSS is feeding power supply to Chikiti and Pitatali PSS & 33 KV Sudhakar PVC upto Jagapur PSS. Pitatali PSS is getting supply through a tap connection at location around 800 mtrs. There is a connectivity with Patrapur Feeder at Chikiti PSS. If any fault occurs on this extension line, PSS is also getting forced shutdown and power interruption experience also. A new link line of 0.8Ckm from Pitatali 4P structure to Pitatali PSS with one no. of bay at Pitatali PSS is proposed to convert this tap connection to LILO connection. After implementation of this proposal, reliability power supply will improve for Pitatali PSS.

Sr No	24
Circle-Division	ASKA- AED 1
Existing 33 kV Feeder Name	NEW NUAGAM FEEDER
Location From	NUAGAM PSS
Location To	ASKA PSS
Considered Length (CKM)	4.5(Bare conductor-3.5&Covered conductor-1ckm)
No. of Bay required	01
No. of RMU required	01
Project Cost (Cr.)	2.39
Proposed Conductor (Sq.mm)	148

Considered Year	2027
Technical Justification	Presently, Aska PSS lacks a proper N-1 supply and relies on a single 33kV incomer from Aska Old GSS, spanning a 7 km line. Aska PSS has five 11 kV feeders supplying major town areas of Aska and commercially well-developed regions in and around Aska. The PSS serves approximately 14,820 consumers. During breakdowns or maintenance, the absence of load-shifting (N-1) supply to Aska PSS results in prolonged interruptions, which also hamper maintenance work and lead to frequent breakdowns. To address this, a new N-1 line is proposed from Nuagam PSS. To provide N-1 redundancy, a new 148 sq.mm line is proposed from the New Nuagam Feeder via Nuagm PSS. Currently, Nuagam PSS has two 33kV incomers: one from the Nuagam line connected to Aska Old GSS and another from the New Nuagam line connected to Aska New GSS (Charimaille). The 33kV New Nuagam line serves as the N-1 backup for Nuagam PSS, while the PSS load is typically carried by the Old Nuagam line. To extend N-1 supply to Aska PSS, the New Nuagam line will be extended to Aska PSS. By installing a 33kV RMU at Nuagam PSS, the line can be effectively controlled. The 33kV New Nuagam line from Aska Charimaille GSS will serve as the N-1 line for both Nuagam and Aska PSS. A 33kV RMU is proposed to control the N-1 supply line to Aska PSS. The new line has the combination on 148sqmm bare conductor of 3.5 CKM from Nuagam PSS to UR+6 tower at Badanadhi, 2 and new 1CKM 148 sqmm covered conductor from taluka road to Aska PSS. At Aska PSS and 1no of one 33kV incomer bay proposed . This will provide the N-1 redundancy supply and improve the reliability of Aska PSS.

Sr No	25
Circle-Division	Jeypore-MED
Existing 33 kV Feeder Name	33KV Malkangiri (Malkangiri GSS)
Location From	Satiguda Pumping Station
Location To	4P Structure near NH
Considered Length (CKM)	4.1
No. of Bay required	01
Project Cost (Cr.)	1.96
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Currently 33KV Malkangiri PSS, Padmagiri PSS & Pandripani PSS are getting power supply from 33KV Malkangiri feeder emanating from Malkangiri GSS. The Peak load of the feeder is 211 Amp and the feeder feeds Padmagiri PSS & Pandripani PSS through Malkangiri PSS. There is another 33KV Satiguda Pumphouse feeder from Malkangiri GSS which peak load is 3 Amp and the length of the feeder is 4.8Km. To avail N-1 power supply to Padmagiri PSS & Pandripani PSS from Malkangiri GSS, it is required to construct 4.1CKM 33KV line from Satiguda Pump house to 4P structure near NH. With this N-1 connectivity, reliability of power supply will increase for 2 nos. of PSS i.e. for Padmagiri PSS & Pandripani PSS.

Sr No	26
Circle-Division	Berhampur-PSED
Existing 33 kV Feeder Name	pandia
Location From	Near Pandia (Purusottampur) PSS
Location To	Pandia (Purusottampur) PSS
Considered Length (CKM)	0.02
No. of Bay required	1
Project Cost (Cr.)	0.34
Proposed Conductor (Sq.mm)	232
Considered Year	2027

Technical Justification	Presently, 33 kV Pandia Feeder emanates from 132/33 kV Purushottampur GSS with an existing line length of 7 Ckm, using 100 Sqmm AAAC conductor, and Peak demand is 113 Amp. This feeder supplies power to Pandia PSS and presently there is no N-1 backup arrangement. During contingency or failure of the 33 kV Pandia Feeder, there is complete disruption of power supply to Pandia PSS resulting in consumer dissatisfaction and reliability issues. Therefore, for ensuring uninterrupted power supply and improving system redundancy, a 33Kv nE bai is proposed at Pandia PSS to create an N-1 arrangement. This proposed link will enhance the overall reliability of power supply, facilitate load shifting during exigency conditions, and improve customer satisfaction in the area.

Sr No	**27**
Circle-Division	Bhanjanagar-BNED
Existing 33 kV Feeder Name	Kanteipalli Feeder
Location From	Near Kanteipalli PSS
Location To	Kanteipalli PSS
Considered Length (CKM)	0.02
No. of Bay required	1
Project Cost (Cr.)	0.34
Proposed Conductor (Sq.mm)	232
Considered Year	2027
Technical Justification	Kanteipalli PSS has source from Kanteipalli GSS, the PSS has 4Nos. feeders having 180A load and 1No. Megalift (Kulangi) ,PSS has no alternative source. Kulangi Megalift is currently tapped from 33KV Kanteipalli and is ready to be handed over to TPSODL after which we can link Kulangi with Banka PSS for N-1 purpose and thus LILO arrangement for the feeder is required from the PSS, hence Bay along with protection equipment for the same will be required.

Sr No	28
Circle-Division	Bhanjanagar-BNED
Existing 33 kV Feeder Name	Soroda Feeder
Location From	Near Soroda PSS
Location To	Soroda PSS
Considered Length (CKM)	0..02
No. of Bay required	1
Project Cost (Cr.)	0.34
Proposed Conductor (Sq.mm)	232
Considered Year	2027
Technical Justification	The Soroda PSS has load of 205A with 4nos feeders which is currently having single source i.e Kanteipalli GSS, thus after the feeder separation and LILO arrangement made for Karadabadi can further be used to bring alternate source from Khariguma of Aska-II, as the line is already available from khariguma to Karadabadi. Thus, bay at Soroda PSS is required for feeder separation purpose of Karadabadi feeder from Megalift line, currently karadabadi line is running on Megalift line.

4.3.3.2 11 kV New line

127. In TPSODL, 11kV feeders are important asset for a distribution utility which are feeding to various 11/0.415kV DSS from where the power is distributed to end consumers. Many 11kV feeders are lengthy and radial in nature.

128. Some of the 11kV feeders are running on Common VCB. To segregate the feeders, we have considered separate VCB.

129. Most of the 11kV Feeers are lengthy. To reduce the length of the 11kv feeders' new link lines are considered for reliability improvement

130. New line is considered for Urban and rural load segregation to improve the reliability of urban feeders.

131. Due to lack of alternate PSS or 11kV feeder/ it is not possible for the field teams /to transfer the load during shutdown of radial feeder and thus all consumers connected to the affected feeders remain out of service till the field team locate and repair the fault. Analyzing the above view, it needs to be planned 11kV new line in phased manner for critical 11KV feeder to provide N-1 arrangement.

132. In all there are 78 new lines have been proposed.

133. National/State Highway/Railway Crossings are also considered in Estimated Cost whereever applicable at locations (Provided in Annexure-6)

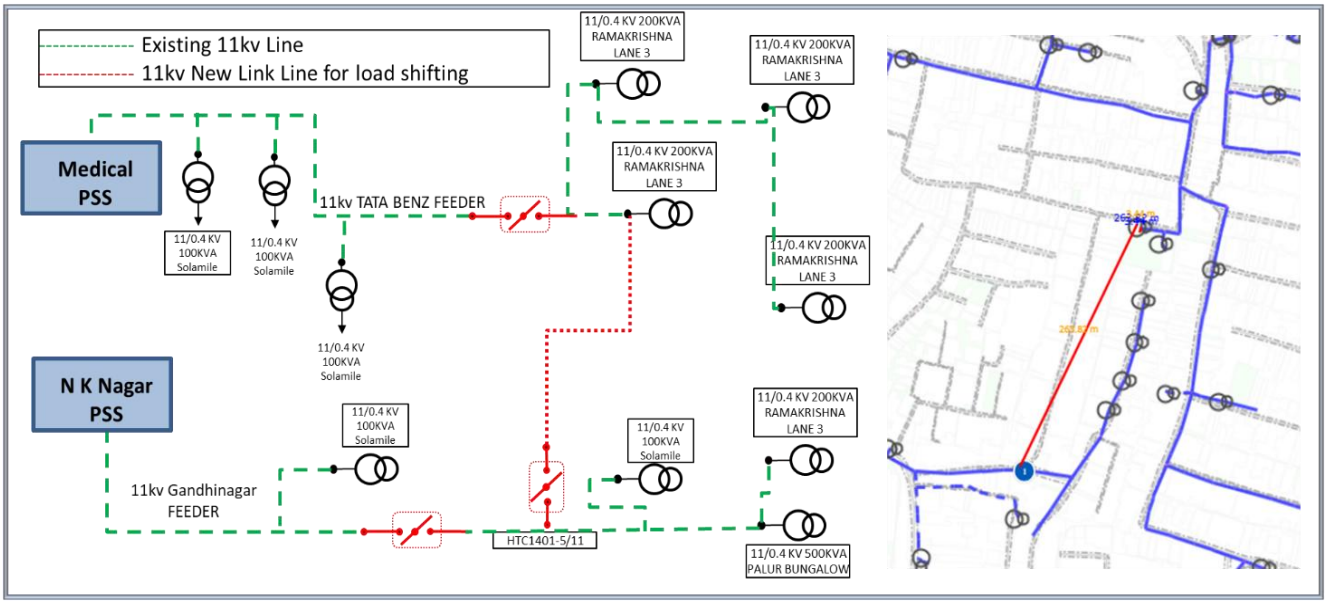
134. Proposal for 11 KV New Line is broadly categorized in below table.

Table 29: Category for 11 KV New Line

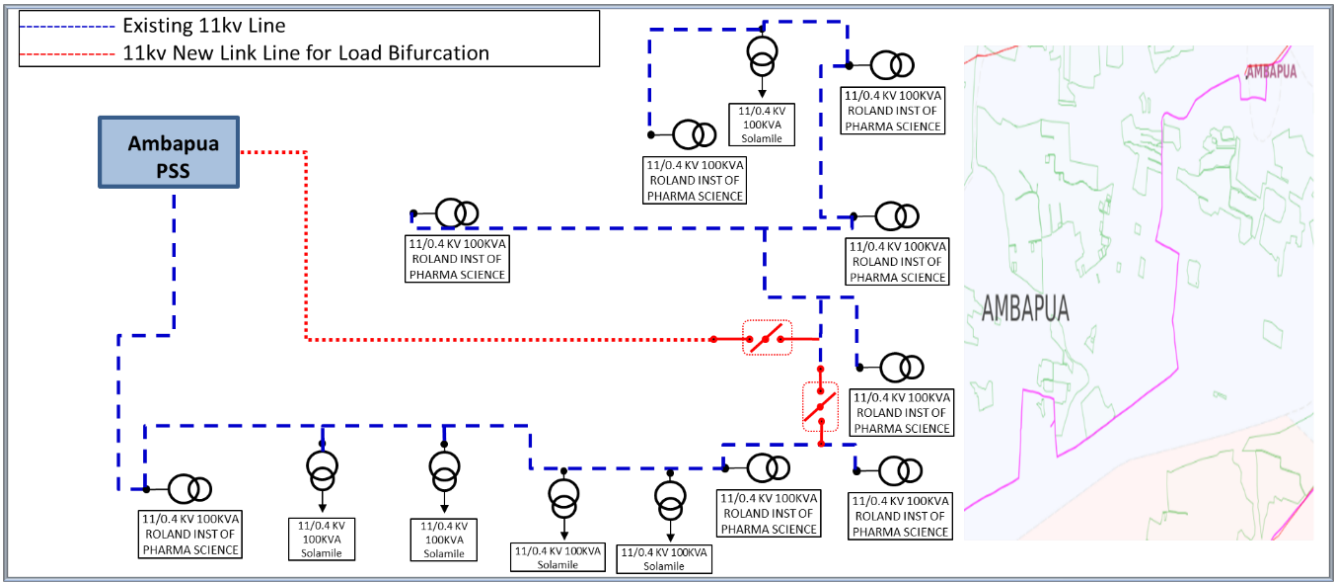
Sr.no	Category of proposal	Nos.
1	Proposal for N-1 Arrangement by Interconnection	16
2	Proposal for load shifting	17
3	Feeders considered for Load Bifurcation (Mitigation for length/Urban-Rural segregation)	34
4	Mitigation of multiple feeders with Group VCB	11
	TOTAL	**78**

135. Sample SLD for various proposals as mentioned in above table is provided below:-

Picture 10 : 11kv New Link Line for N-1 Arrangement by Interconnection



Picture 11 : 11kv New Link Line for Feeders considered for Load Bifurcation



136.The Various lines that have been proposed are as follows:

Sr No	1
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Sidharth Nagar
Location From	Medical PSS
Location To	Ayushman Medic Lane no. 7B
Considered Length (CKM)	0.5
No. of Bay required / RMU	1 Bay & 1 RMU
Project Cost (Cr.)	0.76
Proposed Conductor (Sq.mm)	3Cx400 Sq.mm UG XLPE Cable
Considered Year	2027
Technical Justification	11 kV Sidharth Nagar Feeder (Length-8.6 Ckm, Load- 160 Amps., Consumers-4563) emanates from 33/11 kV Medical PSS. The feeder supplies power to various government offices, schools, colleges, hospitals with other essential establishments, commercial & residential properties etc. The loads which are affected for long duration due to tripping. So, a new line 0.5 Ckm. Including proposed 11 kV bay at Medical

	PSS is proposed for Load Bifurcation. On New line 30 Amps and approx.100 consumers will be diverted from existing Sidharth Nagar Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	2
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Ambapua
Location From	Ambapua PSS
Location To	Paks Royal Venture
Considered Length (CKM)	3
No. of Bay required/ RMU	1 BAY & 2 RMU
Project Cost (Cr.)	2.86
Proposed Conductor (Sq.mm)	3Cx400 Sq.mm UG XLPE Cable
Considered Year	2027
Technical Justification	11 kV Ambapua Feeder (Length-12.2 Ckm, Load-179 Amps., Consumers-4330) emanates from 33/11 kV Ambapua PSS. The feeder supplies power to various government offices, schools, Reserve Police Office with other essential establishments, commercial & residential areas etc. The loads which are affected for long duration due to tripping. So, a new line 3 Ckm. Including proposed 11 kV bay at Ambapua PSS is proposed for Load Bifurcation. On New line 60 Amps and approx.100 consumers will be diverted from existing Ambapua Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	3
Circle-Division	City-BED-III

Existing 11 kV Feeder Name	11KV Kukudakhandi - 11KV Boulajholi (Kukudakhandi PSS
Location From	Bagradevi 100KVA
Location To	Boulajholi Tapping Point
Considered Length (CKM)	0.7
No. of Bay required	-
Project Cost (Cr.)	0.12
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 kV Kukudakhandi Feeder (Length-19 Ckm, Load- 129 Amps., Consumers-2839 nos) emanates from 33/11 kV Kukudakhandi PSS. Due to existing load & future load growth some portion of load divert into 11KV Boulajholi feeder & Vice-Versa (loading of Boulajholi feeder -83 A) eminates from Kukudakhandi PSS. Proper load distribution a new link line is proposed 0.7 Ckm for load divert into 11KV Boulajholi Feeder & Vice -Versa originates from Kukudakhandi PSS) . A new line 10 to 20 A load & 600 consumer diverted into 11KV Boulajholi feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	**4**
Circle-Division	City-BED-III
Existing 11 kV Feeder Name	Lathi (Lathi PSS)- Sansapadar (Mantridi PSS)
Location From	HTC3202-55/9 (Near Resedancy College 25 KVA
Location To	HTC3103-119/12 (Near Chandrapur Gram Panchyat)
Considered Length (CKM)	0.4
No. of Bay required	-
Project Cost (Cr.)	0.07
Proposed Conductor (Sq.mm)	100
Considered Year	2027

Technical Justification	11 kV Lathi Feeder (Length- 22Ckm, Load- 94 Amps., Consumers-3304 no's) emanates from 33/11 kV Lathi PSS. Due to existing load & future load growth some portion of load divert into 11KV Sansapadar Feeder (loading of Sansapadar feeder -90 A) emanates from MantridiPSS. At present no N-1 arrangement for 11KV Lathi feeder by construction New link 0.4 CKM. N-1 arrangement is constructed for load diverted into exigency condition. A new line 10 A load & 300 to 400 consumer diveted into existing feeder This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	**5**
Circle-Division	Berhampur-HED
Existing 11 kV Feeder Name	Pitala
Location From	Podingi PSS
Location To	Narshingha Mandir
Considered Length (CKM)	0.5
No. of Bay required	1
Project Cost (Cr.)	0.3
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 kV Pitala Feeder (Length-28 Ckm, Load- 76 Amps., Consumers-5252) emanates from 33/11 kV Podingi PSS. Owing to the length, there is frequent tripping as well as low voltage at tail end of the feeder. The feeder supplies power to some of the industrial loads which are affected for long duration due to tripping. So, a new line 0.5 Ckm. With 1no. 11 kV bay at Podingi PSS is proposed for Load Bifurcation. On New line 35 Amps and approx.2000 consumers will be diverted from existing Pitala Feeder.

	This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	6
Circle-Division	Bhanjanagar - Phulbani
Existing 11 kV Feeder Name	Dasingbadi
Location From	Daringbadi PSS
Location To	Kanya Ashram
Considered Length (CKM)	3
No. of Bay required	1
Project Cost (Cr.)	0.48
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	At present, the existing 11kV Dasingbadi feeder has a total length of 210 CKM. which is getting supply from Daringbadi PSS. Due to its excessive length, frequent tripping and breakdowns occur, impacting approximately 5,000 consumers. To address this issue proposed new link line for load bifurcation of the Dasingbadi feeder into two sections—one of 80 CKM and the other of 130 CKM—by utilizing the newly proposed bay at the Daringbadi PSS. Implementation of this proposal will help reduce tripping incidents and facilitate easier maintenance. and will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	7
Circle-Division	Bhanjanagar - Phulbani
Existing 11 kV Feeder Name	Dutipada Feeder
Location From	Khajuripada PSS
Location To	Barapaliya samar dega road
Considered Length (CKM)	8
No. of Bay required	
Project Cost (Cr.)	1.45
Proposed Conductor (Sq.mm)	100
Considered Year	2026

Technical Justification	At present, the existing 11kV Dutipada feeder has a total length of 187 CKM. which is getting supply form Khajuripada PSS. Due to its long length, frequent tripping and breakdowns occur, affecting around 4,500 consumers. To address this issue, we propose to Load Bifurcation of Dutipada feeder into two parts (one section of 80 CKM and another of 107 CKM) utilizing the existing spare Bay available at the Khajuripada PSS. Once this proposal is implemented, it will help reduce tripping and make maintenance easier. and will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	**8**
Circle-Division	Bhanjanagar - Phulbani
Existing 11 kV Feeder Name	High School
Location From	Balliguda PSS
Location To	Electric Sahi
Considered Length (CKM)	0.6
No. of Bay required	1
Project Cost (Cr.)	0.32
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	At present, the Balliguda High School feeder is supplied from the Balliguda PSS from PTR-1, carrying a load of 149 Amps. The Balliguda PSS currently has 6 feeders—4 of which are fed from PTR-1 (5 MVA) and the remaining 2 from PTR-2 (5 MVA). Due to the existing high load on PTR-1, due to that we enable to balancing load of both PTR. so, we plan to divert 11KV Balliguda High School half portion of the load to PTR-2 to achieve better load balancing between both transformers. In this context, we propose the construction of a 0.6 CKM line with new Bay arrangement in Balliguda PSS from Balliguda PSS to Electrical Sahi to bifurcate the Balliguda High School feeder. One part will remain connected to PTR-1, and the other part will be supplied from PTR-2.

	This proposed arrangement will enhance network reliability and improve load distribution between both power transformers. and will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders and PTR-1 and PTR-2.

Sr No	9
Circle-Division	Bhanjanagar - Phulbani
Existing 11 kV Feeder Name	Kurtamgarh
Location From	Tumudibandha PSS
Location To	HTN2303-6/2885
Considered Length (CKM)	7
No. of Bay required	1
Project Cost (Cr.)	0.84
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	At present 11KV Kurtamgarh Feeder getting supply from Tumudibandha PSS and consist the total length of the 11kV Kurtamgarh Feeder currently 187 km. Due to long length of feeder it has become the most tripping-prone feeder in the Phulbani Division. This has made it challenging to ensure a stable power supply, particularly for consumers at the tail end. To address this issue and enhance supply reliability, we plan to segragate the existing feeder into two sections through a new bay arrangement. One section will cover 57 km, and the other will span 130 km with 7 km link line will be constructed to Tumudibandha PSS to HTN2303-6/2885 Location. After This proposal, will be establish N-1 connectivity between the feeders, further improving maintenance and reducing the frequency of tripping. And will improve the reliability in the area and customer satisfaction& enhance.

Sr No	10
Circle-Division	Aska- AED-II
Existing 11 kV Feeder Name	K S Nagar Town

Location From	K S Nagar PSS
Location To	Nai Sahi
Considered Length (CKM)	1
No. of Bay required	1
Project Cost (Cr.)	0.63
Proposed Conductor (Sq.mm)	100
Considered Year	2025
Technical Justification	11 kV K S Nagar Town Feeder (Length-14 Ckm, Load- 170 Amps., Consumers-5365) emanates from 33/11 kV K S Nagar PSS. Owing to the length, there is frequent tripping as well as low voltage at tail end of the feeder. The feeder supplies power to some of the industrial loads which are affected for long duration due to tripping. So, a new line 1.2 Ckm. utilizing existing spare 11 kV bay at K S Nagar PSS is proposed for Load Bifurcation. On New line 50 Amps and approx. 320 consumers will be diverted from existing K S Nagar Town Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	**11**
Circle-Division	Aska- AED-II
Existing 11 kV Feeder Name	Buguda Town
Location From	Buguda PSS
Location To	Buguda PSS to Towards Kadapada
Considered Length (CKM)	1.0
No. of Bay required	1
Project Cost (Cr.)	0.38
Proposed Conductor (Sq.mm)	100
Considered Year	2025

Technical Justification	11 kV Buguda Town Feeder (Length-27 Ckm, Load- 188 Amps., Consumers-5783) emanates from 33/11 kV Buguda PSS. Owing to the length, there is frequent tripping as well as low voltage at tail end of the feeder. The feeder supplies power to some of the industrial loads which are affected for long duration due to tripping. So, a new line 1.0 Ckm. utilizing existing spare 11 kV bay at Buguda PSS is proposed for Load Bifurcation. On New line 50 Amps and approx. 400 consumers will be diverted from existing Buguda Town Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	**12**
Circle-Division	Aska- AED-II
Existing 11 kV Feeder Name	Golia
Location From	Inside Buguda PSS
Location To	Inside Buguda PSS
Considered Length (CKM)	0.1
No. of Bay required	1
Project Cost (Cr.)	0.24
Proposed Conductor (Sq.mm)	100
Considered Year	2025
Technical Justification	The 11kV Golia feeder bifurcates after approximately 100 mtr from Buguda PSS, with one branch extending towards Kendubari under Chirikipada Electrical Section and the other towards Badua under Buguda Electrical Section. Currently, both branches are fed through a common VCB at the PSS, resulting in tripping of the entire feeder during faults on either side. To resolve this issue and ensure reliable power

	supply, it is proposed to construct a new 11kV bay along with a 0.1 km 11kV dedicated feeder line. This arrangement will facilitate the segregation of the two branches into independent feeders, enabling fault isolation and uninterrupted supply to unaffected areas, while also reducing the load burden on a single PTR

Sr No	13
Circle-Division	Aska-GSED
Existing 11 kV Feeder Name	Dumula
Location From	Dumula O/G AB switch
Location To	Bomkai Section office
Considered Length (CKM)	1.5
No. of Bay required	-
Project Cost (Cr.)	0.49
Proposed Conductor (Sq.mm)	100+3C X 300 Sq.mm Cable
Considered Year	2027
Technical Justification	Dumula feeder originates from Dekhali PSS having length of approx. 39 CKM & Peak load of feeder is 28Amps. Supplying to 2540 consumers. Existing 11kV feeder running over residential area at Madanmohanpur village near Bomkai section office and there is no scope of erection for intermediate poles to maintain ground clearance resulting very critical unsafe conditions. To avoid low ground clearance, necessary link line required to divert the existing route from PSS to Bomkai section office. This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	14
Circle-Division	Jeypore-NED
Existing 11 kV Feeder Name	Nabarangpur Town No-I

Location From	Nabarangpur PSS
Location To	HIRLI
Considered Length (CKM)	4.2
No. of Bay required	01
Project Cost (Cr.)	0.91
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 kV Nabarangpur Town No-I Feeder (Length-11 Ckm,Load-191 Amps., Consumers-5210) emanates from 33/11 kV Nabarangpur PSS. Owing to the length, there is frequent tripping as well as low voltage at tail end of the feeder. The feeder supplies power to some of the industrial loads which are affected for long duration due to tripping. So, a new line 4.7 Ckm. utilizing existing spare 11 kV bay at Nabarangpur PSS is proposed for Load Bifurcation. On New line 90 Amps and approx. 2600 consumers will be diverted from existing Nabarangpur Town No-I Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	**15**
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Dasmantapur-Girliguma
Location From	Dasmantpur PSS
Location To	CHIKAMBO
Considered Length (CKM)	4
No. of Bay required	1
Project Cost (Cr.)	0.57
Proposed Conductor (Sq.mm)	100
Considered Year	2027

Technical Justification	The 11 kV Girliguma Feeder, emanating from Dasmantapur PSS, presently extends over approximately 135 CKM. Owing to this excessive line length, consumers—particularly those located at the tail end—are experiencing unreliable and poor-quality power supply. To address this issue and ensure reliable, stable, and quality power to all connected consumers, it is proposed to segregate the existing feeder into two parts. The proposed segregation is expected to deliver the following benefits: • Improved voltage profile in tail-end areas • Reduction in technical losses • Enhanced reliability and continuity of power supply • Faster fault detection and rectification, minimizing outage durations This initiative will significantly enhance consumer satisfaction and align the network with operational best practices.

Sr No	16
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Pottangi-Sunki
Location From	Pottangi PSS
Location To	Padalguda & Satrai 63KVA to Tangiri 25 KVA
Considered Length (CKM)	4
No. of Bay required	1
Project Cost (Cr.)	0.57
Proposed Conductor (Sq.mm)	100
Considered Year	2027

Technical Justification	The 11 kV Sunki Feeder, emanating from Pottangi PSS, currently spans approximately 250 CKM. Due to this extensive feeder length, consumers—especially those at the tail end—are facing unreliable power supply. To address these issues and ensure reliable and quality power supply to all connected consumers, it is proposed to segregate the existing feeder. The proposed feeder segregation will offer the following benefits: • Improved voltage profile at tail-end villages • Reduction in technical losses • Enhanced reliability and continuity of supply • Faster fault detection and rectification, reducing downtime This initiative will significantly improve operational efficiency and enhance consumer satisfaction in the affected areas.

Sr No	**17**
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	KUNDULI
Location From	Kunduli PSS
Location To	Hatapada Renga tapping
Considered Length (CKM)	3.5
No. of Bay required	1
Project Cost (Cr.)	0.53
Proposed Conductor (Sq.mm)	100
Considered Year	2027

Technical Justification	The 11 kV Kunduli Feeder, emanating from Kunduli PSS, presently extends over approximately 211 CKM. Owing to this excessive line length, consumers—particularly those located at the tail end—are experiencing unreliable and poor-quality power supply. To address this issue and ensure reliable, stable, and quality power to all connected consumers, it is proposed to segregate the existing feeder. The proposed segregation is expected to deliver the following benefits: • Improved voltage profile in tail-end areas • Reduction in technical losses • Enhanced reliability and continuity of power supply • Faster fault detection and rectification, minimizing outage durations This initiative will significantly enhance consumer satisfaction and align the network with operational best practices.

Sr No	**18**
Circle-Division	Rayagada-PKED
Existing 11 kV Feeder Name	Town-4
Location From	Paralakhemundi New PSS
Location To	Dola Tank
Considered Length (CKM)	2.5
No. of Bay required/ RMU	1 RMU
Project Cost (Cr.)	0.62
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 kV Town-4 Feeder (Length-7.5 Ckm, Load- 250 Amps., Consumers-5500) emanates from 33/11 kV Paralakhemundi New PSS. Owing to the length, there is frequent tripping as well as low voltage at tail end of the feeder. The feeder supplies power to critical government infrastructure such as the District Jail, Banks & Post Office other administrative buildings, and Paralakhemundi's main commercial market which

	are affected for long duration due to tripping. So, a new line 2.5 Ckm from proposed 11kV bay at Paralakhemundi New PSS is proposed for Load Bifurcation. On New line 130 Amps and approx. 2500 consumers will be diverted from existing Town-4 Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	19
Circle-Division	Rayagada-PKED
Existing 11 kV Feeder Name	Chheligada
Location From	Chheligada PSS
Location To	Chheligada Chawka
Considered Length (CKM)	5
No. of Bay required	1
Project Cost (Cr.)	0.91
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 kV Chheligada Feeder (Length-128 Ckm, Load-30 Amps., Consumers-3500) emanates from 33/11 kV Chheligada PSS. Owing to the length, there is frequent tripping as well as low voltage at tail end of the feeder. A significant portion of this feeder passes through dense forest and hilly terrain, which leads to frequent power interruptions and reduced supply reliability. Due to the challenging topography, fault identification and maintenance activities are also time-consuming and operationally difficult. So, a new line 5 Ckm from proposed 11kV bay at Chheligada New PSS is proposed for Load Bifurcation. On New line 15 Amps and approx. 1750 consumers will be diverted from existing Chheligada Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	20
Circle-Division	Rayagada-GED
Existing 11 kV Feeder Name	Padmapur
Location From	Padampur PSS
Location To	Sunarghai Chakk to khambapadar road to masani to indranagar
Considered Length (CKM)	4.2
No. of Bay required	1
Project Cost (Cr.)	0.91
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 kV Padmapur Feeder (Length- 34 Ckm, Load- 115 Amps., Consumers- 3800 emanates from 33/11 kV Padmapur PSS. Total 3800 Nos of Consumer connected on the feeder. Padmapur which gives Power Supply to Hospital, Block office, School, industrial customers within town area and also rural Consumers. Feeder passes through forest area and encounter frequent tripping. This result into shutdown to critical urban customers. Hence to mitigate issue of critical urban load a new line 5 Ckm. with New 11 kV bay at Padmapur PSS is proposed for Load Bifurcation. On New line 53 Amps and approx. 2100 consumers will be diverted from existing Padmapur Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	21
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Raghunathpur
Location From	Santoshi Maa 100kVA DSS
Location To	Prem office 100kVA DSS

Considered Length (CKM)	1
No. of Bay required	-
Project Cost (Cr.)	0.17
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Raghunathpur feeder originates from Narendrapur PSS having length of 16 CKm & Peak load of feeder is 107 Amps. Total 2282 Nos of Consumer connected on the feeder. Raghunathpur feeder which gives Power Supply to Hospital, Block office, School, small industrial customers, commercial and residential consumers along the National Highway area and is currently under development with new residential and commercial establishments coming up. Tripping result into shutdown of critical urban customers. There is another feeder from Bhanjavihar PSS, Mandiapalli feeder (length 6.1CKM, conductor size 55Sq.mm). Peak load of Mandiapalli feeder is 40 AMP. Hence load from Raghunathpur feeder to Mandiapalli will be shifted via new link line of 1 CKM from Santoshi Maa 100kVA DSS to Prem office 100kVA DSS. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	**22**
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Town Hall
Location From	Ramakrishna lane 3
Location To	Hatibandha Street
Considered Length (CKM)	0.4

No. of Bay required	
Project Cost (Cr.)	0.09
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Town Hall feeder originates from Medical PSS having length of 5 CKm & Peak load of feeder is 170 Amps. Total 4943 Nos of Consumer connected on the feeder. Town Hall feeder which gives Power Supply to City Hospital, School, College, Key Market areas, commercial and residential consumers. Tripping result into shutdown to critical urban customers. Hence to mitigate the issue, critical urban load needs to be shifted. There is another feeder from Medical PSS, Tata Benz feeder (length 9.5CKM, conductor size 55,80,100Sq.mm). Peak load of Tata Benz feeder is 220 AMP. Hence load from Tata Benz feeder to Town Hall will be shifted via new link line of 0.4 CKM from Ramakrishna lane 3 to Hatibandha Street. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	**23**
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Ambapua
Location From	Radha Mohan Nager
Location To	Saradaballi
Considered Length (CKM)	0.5
No. of Bay required	
Project Cost (Cr.)	0.08
Proposed Conductor (Sq.mm)	100
Considered Year	2027

Technical Justification	Ambapua feeder originates from Ambapua PSS having length of 12.2 CKm & Peak load of feeder is 179 Amps. Total 4330 Nos of Consumer connected on the feeder. The feeder supplies power to various government offices, schools, Reserve Police Office with other essential establishments, commercial & residential areas etc. Tripping result into shutdown to urban customers. Hence to mitigate issue urban load need to be shifted. There is another feeder from Bidyutpuri PSS, Khodasingi feeder (length 3.6 CKM, conductor size 55,80,100Sq.mm). Peak load of Khodasingi feeder is 200 AMP. Hence load from Khodasingi feeder to Ambapua will be shifted via new link line of 0.5 CKM from Radha Mohan Nager to Saradaballi. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	**24**
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Old Bus Stand
Location From	Lochapada PSS
Location To	Gokarneswar Temple
Considered Length (CKM)	0.6
No. of Bay required	
Project Cost (Cr.)	0.82
Proposed Conductor (Sq.mm)	3Cx400 Sq.mm UG XLPE Cable
Considered Year	2027
Technical Justification	Old Bus Stand feeder originates from Medical PSS having length of 5.6 CKm & Peak load of feeder is 220 Amps. Total 2371 Nos of Consumer connected on the feeder. The feeder supplies power to key

	market areas of Berhampur City including commercial malls, Bus stand, shops, churches, traffic police station, and other establishments. Tripping result into shutdown to urban customers. Hence to mitigate issue urban load need to be shifted. Therefore, New 11kV UG line is proposed from Lochapada PSS to interlink the existing 11kV Old Bus Stand Feeder. Hence load from Old Bus Stand feeder to New proposed Line will be shifted via new link line of 0.6 CKM from Lochapada PSS to Gokarneswar Temple. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	**25**
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Tata Benz
Location From	Ram Nagar-Shiva temple
Location To	Anant Nagar Lane No.-6 250kVA DSS
Considered Length (CKM)	1.2
No. of Bay required	
Project Cost (Cr.)	1.51
Proposed Conductor (Sq.mm)	3Cx400 Sq.mm UG XLPE Cable
Considered Year	2027
Technical Justification	Tata Benz feeder originates from Medical PSS having length of 9.5 CKm & Peak load of feeder is 220 Amps. Total 5205 Nos of Consumer connected on the feeder. Tata Benz feeder which gives Power Supply to Schools, small industrial customers, commercial and residential consumers along with others essential establishments.

	Tripping result into shutdown to urban customers. Hence to mitigate issue urban load need to be shifted. There is another feeder from Goodshed PSS, Lanjipalli feeder (length 5.1CKM, conductor size 55,80,100Sq.mm). Peak load of Lanjipalli feeder is 170 AMP. Hence load from Tata Benz feeder to Lanjipalli will be shifted via new link line of 1.2 CKM from Ram Nagar-Shiva temple to Anant Nagar Lane No.-6 250kVA DSS. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	26
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Chandimandira
Location From	Goodshed PSS
Location To	Chandimandir NH(63kVA)
Considered Length (CKM)	3.3
No. of Bay required	1
Project Cost (Cr.)	2.84
Proposed Conductor (Sq.mm)	3Cx400 Sq.mm UG XLPE Cable
Considered Year	2027
Technical Justification	Chandimandira feeder originates from Ankuli PSS having length of 3 CKm & Peak load of feeder is 130 Amps. Total 3052 Nos of Consumer connected on the feeder. The feeder supplies power to various government offices, small industries, schools, other essential establishments, commercial & residential areas etc. Tripping result into shutdown to urban customers. Hence to mitigate issue urban load need to be

shifted. Therefore, New 11kV UG line is proposed from dedicated bay at Goodshed PSS to interlink the existing 11kV Chandimandira Feeder.

Hence load from Chandimandira feeder to New proposed Line will be shifted via new link line of 3.3 CKM from Goodshed PSS to Chandimandira.

This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	27
Circle-Division	City - BED-III
Existing 11 kV Feeder Name	Sansapadar- Tulu
Location From	PSS
Location To	Near Amit Hospital
Considered Length (CKM)	2.5
No. of Bay required/RMU	1 RMU
Project Cost (Cr.)	0.62
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 kV Sansapadar feeder (Length- 45Ckm, Load-90 Amps., Consumers-5353) emanates from 33/11 kV Mantridi PSS. Feeder fall in both direction & also feeder fall in elephant movement area. Interruption in Sansapadar feeder is high. due to reduction of interruption a new line is to be required for so one side load divert into new 11KV Line & also load cater of 11KV Tulu Feeder (Tulu Feeder originate from Kanisi PSS , existing Tulu feeder length 65 Ckm , interruption as well as length & loading is reduced) with existing both feeder link. Due to construct new line feeder interruption, loading & feeder length will be reduced .

	So, a new line 3 Ckm with 1 nos. RMU is proposed for Load Bifurcation. A New line 30 Amps load and approx.700 to 800 consumers will be diverted from existing Tulu Feeder to sansapadr feeder This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	28
Circle-Division	City - BED-III
Existing 11 kV Feeder Name	Randha-Tulu
Location From	Tulu Road
Location To	Patnayak crusher - Near Balmira Industries
Considered Length (CKM)	1.2
No. of Bay required	-
Project Cost (Cr.)	0.20
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11KV Tulu feeder originates from Kanisi PSS having length of 65CKm & Peak load of feeder is 218 Amps. Total 6999 Nos of Consumer connected on the feeder. Tulu Feeder which gives Power Supply to Rural consumer & industrial customers. Due to long span & old ages conductor encounter frequent tripping. To mitigate the Interruption issues & provide reliable supply to industrial consumer a new link line 1.2 Ckm Proposed for Partial load & divert into 11KV Randha Feeder originate from Kanisi PSS. Feeder length 15.31 Ckm & load of feeder 127 A & total consumer 2551 Nos.). A new line 20 to 30 A load & 400 consumer & small & medium industries load diverted into 11KV Randha feeder

Sr No	29
Circle-Division	City-BED-II
Existing 11 kV Feeder Name	TULSI NAGAR

Location From	CORPORATION ROAD PSS
Location To	SOMNMATH NAGAR
Considered Length (CKM)	1
No. of Bay required/ RMU	1 RMU
Project Cost (Cr.)	0.87
Proposed Conductor (Sq.mm)	UG 3CX400
Considered Year	2027
Technical Justification	11 kV Tulsinagar Feeder (Length-4.16 Ckm, Load-165 Amps., Consumers-4630) emanates from 33/11 kV Lochapada PSS.Owing to the load growth, new line 1 Ckm at Corporation Road PSS is proposed for Load Bifurcation, on New line 50 Amps and approx. 2000 consumers will be diverted from existing Tulsinagar Feeder. This proposal will improve the reliability in the region & enhance customer satisfaction and ensure N-1 arrangement for Tulsi Nagar Feeder.

Sr No	**30**
Circle-Division	Bhanjanagar - Phulbani
Existing 11 kV Feeder Name	Sindrigaon-Musukuli
Location From	DAHALPADI
Location To	DAMIKIA
Considered Length (CKM)	3.7
No. of Bay required	
Project Cost (Cr.)	0.61
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	At present, the 11kV Musikuli feeder has a total length of 8 KM, while the 11kV Sindrigaon feeder is 110 KM long. Both feeders are getting supplied from the Balliguda PSS. Due to the excessive length of the Sindrigaon feeder, 40% of its load will be diverted to the Musikuli feeder. This load diversion will reduce the effective length of the Sindrigaon feeder, thereby minimizing tripping issues and making maintenance activities more manageable. and will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	31
Circle-Division	Bhanjanagar - Phulbani
Existing 11 kV Feeder Name	Katringia and Bisipada
Location From	HTN2102-17/2675
Location To	HTN2102-17/2675
Considered Length (CKM)	3
No. of Bay required	
Project Cost (Cr.)	0.50
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	At present 11KV Katringia Feeder fed from Phulbani PSS and Due to the excessive length of the 11kV Katringia Feeder (currently 182 km), it has become the most tripping-prone feeder in the Phulbani Division, making it difficult to provide a stable power supply to consumers at the tail end. To address this issue and improve supply reliability, approximately 20 km of the load from the tail end is being diverted to the Bisipada Feeder which is currently length is 38Km which is fed from Dahapadar PSS under Phiringia electrical section. after this proposal we enhance the steady supply to the tail end consumers of Katringia feeder. and will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	32
Circle-Division	Aska- AED-I
Existing 11 kV Feeder Name	Nuagam
Location From	Inside the Nugam PSS
Location To	
Considered Length (CKM)	0.5
No. of Bay required	1
Project Cost (Cr.)	0.30
ProposedConductor (Sq.mm)	100
Considered Year	2027

Technical Justification	11KV Nuagam feeder originates from Nuagam PSS having length of approx. 6.1 CKM & Peak load of feeder is 86 amps. Supplying to 2200 consumers. Currently, the feeder is supplied by a 5 MVA power transformer, which also powers another feeder, Bhatanai. Both feeders collectively carry a load of 185 Amps (approximately 3.5 MVA) on the power transformer. Once the Kendupadar PSS (under ODSSP-IV) is completed, approx. Half of the Mukundapur feeder's load, currently supplied by an 8 MVA power transformer at Nuagam PSS, will be diverted to Kendupadar PSS. To manage potential future overloading on the 5MVA power transformer, the plan is to shift the Nuagam feeder to the 8 MVA power transformer that currently supplies the Mukundapur feeder. This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	**33**
Circle-Division	Jeypore-NED
Existing 11 kV Feeder Name	Gumuda
Location From	Singsari
Location To	Olamaguda
Considered Length (CKM)	5.2
No. of Bay required/ RMU	1 RMU
Project Cost (Cr.)	1.07
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Gumuda feeder originates from Dabugam PSS having length of 254 CKm & Peak load of feeder is 129 Amps. Total 15000 Nos of Consumer connected on the feeder Gumuda feeder which gives Power Supply to Block office, School, industrial customers and also rural Consumers.

	Feeder passes through forest area and encounter frequent tripping. This result into shutdown to urban customers. Hence to mitigate issue urban load need to be shifted. There is another feeder from Dhodra feeder (length 93 CKM, conductor size 34Sq.mm). Peak load of Dhodra feeder is 70 AMP. Hence load from Gumuda feeder to Dhodra will be shifted via new link line of 5.5 CKM from Singsari tapping point to Olamaguda. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	**34**
Circle-Division	Jeypore-NED
Existing 11 kV Feeder Name	Gumuda
Location From	Kotagam
Location To	Landuguda (Temera Feeder)
Considered Length (CKM)	3.5
No. of Bay required/ RMU	1 RMU
Project Cost (Cr.)	0.79
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Gumuda feeder originates from Dabugam PSS having length of 254 CKm & Peak load of feeder is 129 Amps. Total 15000 Nos of Consumer connected on the feeder Gumuda feeder which gives Power Supply to Block office, School, industrial customers and also rural Consumers. Feeder passes through forest area and encounter frequent tripping.

	This result into shutdown to urban customers. Hence to mitigate issue urban load need to be shifted. There is another feeder from Temera feeder (length 131 CKM, conductor size 34Sq.mm). Peak load of Temera feeder is 58 AMP. Hence load from Gumuda feeder to Temera will be shifted via new link line of 4 CKM from Kotagam tapping point to Landuguda. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	35
Circle-Division	Berhampur-GNED
Existing 11 kV Feeder Name	Khandadeuli Medical & Khandadeuli
Location From	Biruligada
Location To	Patapur
Considered Length (CKM)	1.3
No. of Bay required	-
Project Cost (Cr.)	0.21
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Khandadeuli feeder originates from Humma PSS having length of 62.47 CKm & Peak load of feeder is 110 Amps. Total 3529 Nos of Consumer connected on the feeder including new developing industry hub at lauput village & rural load which passes through forest area and encounter frequent tripping. This result into shutdown to industrial connections/consumers.Hence to mitigate issue rural load need to be shifted. There is Kahndadeuli Medical feeder from Khandadeuli PSS (length 5.27

	CKM, conductor size 34/55 Sq.mm). Peak load of Dhodra feeder is 63 AMP. Hence load from Khandadeuli feeder will be shifted via new link line of 1.3 CKM from Biruligada to Patapur to Khandadeuli medical feeder which will bifurcate the load between Industrial & rural load. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	36
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Koraput No-2 & Podagada No-2 Feeder
Location From	Near chindi, Chindri
Location To	Manbar
Considered Length (CKM)	3.2
No. of Bay required	
Project Cost (Cr.)	1.04
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Koraput Town, a prominent hill station in Odisha, hosts a critical railway junction connecting the Jeypore–Rayagada and Visakhapatnam corridors. Due to its strategic importance and terrain constraints, the town is encircled by three railway tracks. Presently, the town's power supply is supported by two 33/11 KV PSS located within the Koraput Municipality area. However, due to the absence of adequate 11 KV railway crossings, certain pockets of the town receive power from lengthy rural feeders, resulting in reliability and quality issues. Additionally, the 33/11 KV OMP PSS remains underutilized. To strengthen and improve the reliability of the 11 KV distribution network and ensure optimal utilization of the

existing infrastructure, it is proposed to construct three (3) 11 KV railway crossings at key locations:

a. Near Railway Overbridge:

- Purpose: To interconnect 11 KV Koraput No-1 & No-2 feeders (Old Koraput PSS) with 11 KV OMP Town/Silk Board Feeder (OMP PSS).

b. Near Railway Station:

- Purpose: To connect 11 KV Koraput No-3 feeder (Old Koraput PSS) with the OMP PSS.

c. Near Chindi:

- Purpose: To link 11 KV Koraput No-2 feeder (Old Koraput PSS) with 11 KV Podagada No-2 feeder (OMP PSS).

- Enhanced System Reliability: Reliable and stable power supply to vital public and institutional establishments including SOG, DIG Police HQ, RTO Office, Banks, and Koraput Railway Station.

- Improved Power Quality: Better voltage regulation, reduction in technical losses, and enhanced supply efficiency.

- Support for Urban Development: Meets growing electricity demand from commercial establishments, high-rise apartments, hotels, and educational institutions.

- Optimal Utilization of OMP PSS: Balances load between Old Koraput PSS and OMP PSS, enhancing operational flexibility.

Sr No	**37**
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Koraput No-3 & New Feeder from OMP PSS
Location From	OMP PSS

Location To	Near Railway Station
Considered Length (CKM)	2.4
No. of Bay required	1
Project Cost (Cr.)	1.13
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Koraput Town, a prominent hill station in Odisha, hosts a critical railway junction connecting the Jeypore–Rayagada and Visakhapatnam corridors. Due to its strategic importance and terrain constraints, the town is encircled by three railway tracks. Presently, the town's power supply is supported by two 33/11 KV PSS located within the Koraput Municipality area. However, due to the absence of adequate 11 KV railway crossings, certain pockets of the town receive power from lengthy rural feeders, resulting in reliability and quality issues. Additionally, the 33/11 KV OMP PSS remains underutilized. To strengthen and improve the reliability of the 11 KV distribution network and ensure optimal utilization of the existing infrastructure, it is proposed to construct three (3) 11 KV railway crossings at key locations: a. Near Railway Overbridge: • Purpose: To interconnect 11 KV Koraput No-1 & No-2 feeders (Old Koraput PSS) with 11 KV OMP Town/Silk Board Feeder (OMP PSS). b. Near Railway Station: • Purpose: To connect 11 KV Koraput No-3 feeder (Old Koraput PSS) with the OMP PSS. c. Near Chindi: • Purpose: To link 11 KV Koraput No-2 feeder (Old Koraput PSS) with 11 KV Podagada No-2 feeder (OMP PSS). • Enhanced System Reliability: Reliable and stable power supply to vital public and

	institutional establishments including SOG, DIG Police HQ, Banks, and Koraput Railway Station. • Improved Power Quality: Better voltage regulation, reduction in technical losses, and enhanced supply efficiency. • Support for Urban Development: Meets growing electricity demand from commercial establishments, high-rise apartments, hotels, and educational institutions. • Optimal Utilization of OMP PSS: Balances load between Old Koraput PSS and OMP PSS, enhancing operational flexibility.

Sr No	38
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Laxmipur-Champi-Laxmiput Town
Location From	Laxmipur Railway Station chhak
Location To	Sulachana Nagar
Considered Length (CKM)	1.2
No. of Bay required	-
Project Cost (Cr.)	0.44
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	The residents of Sulochana Nagar area in Laxmipur town are currently receiving power supply from the Champi feeder, which is categorized as a rural feeder. Due to the nature and load of this feeder, the consumers in the area are facing frequent interruptions and unreliable power supply. Based on consumer grievances received and subsequent field verification, recommended the construction of a link line to ensure improved reliability and consistent power supply to Sulochana Nagar. The proposed link line will Provide an alternative and more stable source of power to the area, enhance voltage stability and reduce outages, segregate rural and urban load for better load management, address the long-

	standing issues faced by urban consumers connected to rural feeders.

Sr No	39
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Dasmantapur-Kuntesh-Dasmantput Town
Location From	GoudaBarikanta (10) 25KVA
Location To	Goudabarikanta (01) 25 KVA
Considered Length (CKM)	1.2
No. of Bay required	-
Project Cost (Cr.)	0.20
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	The Civil Judge cum JMFC, Dasmantapur in Dasmantpur town is currently receiving power supply from the Kuntesh feeder, which is categorized as a rural feeder. Due to the nature and load of this feeder, the consumer in the area are facing frequent interruptions and unreliable power supply. Based on consumer grievances received and subsequent field verification, recommended the construction of a link line to ensure improved reliability and consistent power supply. The proposed link line will Provide an alternative and more stable source of power to the area, enhance voltage stability and reduce outages, segregate rural and urban load for better load management, address the long-standing issues faced by urban consumers connected to rural feeders.

Sr No	40
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Koraput No-1, 2 & OMP Town/Silk board Feeder
Location From	Near railway over bridge
Location To	Near railway over bridge
Considered Length (CKM)	0.5
No. of Bay required/ RMU	1 RMU

Project Cost (Cr.)	0.80
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Koraput Town, a prominent hill station in Odisha, hosts a critical railway junction connecting the Jeypore–Rayagada and Visakhapatnam corridors. Due to its strategic importance and terrain constraints, the town is encircled by three railway tracks. Presently, the town's power supply is supported by two 33/11 KV PSS located within the Koraput Municipality area. However, due to the absence of adequate 11 KV railway crossings, certain pockets of the town receive power from lengthy rural feeders, resulting in reliability and quality issues. Additionally, the 33/11 KV OMP PSS remains underutilized. To strengthen and improve the reliability of the 11 KV distribution network and ensure optimal utilization of the existing infrastructure, it is proposed to construct three (3) 11 KV railway crossings at key locations: a. Near Railway Overbridge: • Purpose: To interconnect 11 KV Koraput No-1 & No-2 feeders (Old Koraput PSS) with 11 KV OMP Town/Silk Board Feeder (OMP PSS). b. Near Railway Station: • Purpose: To connect 11 KV Koraput No-3 feeder (Old Koraput PSS) with the OMP PSS. • 3 CKM to emanate from OMP PSS. c. Near Chindi: • Purpose: To link 11 KV Koraput No-2 feeder (Old Koraput PSS) with 11 KV Podagada No-2 feeder (OMP PSS). • Scope: 5 runs of 1C x 185 sq.mm XLPE cable (approx. 300 meters). Overhead line: approx. 3800 meters. Expected Benefits: • Enhanced System Reliability: Reliable and stable power supply to vital public and institutional establishments including SOG, DIG Police HQ, Banks, and Koraput Railway Station.

	• Improved Power Quality: Better voltage regulation, reduction in technical losses, and enhanced supply efficiency. • Support for Urban Development: Meets growing electricity demand from commercial establishments, high-rise apartments, hotels, and educational institutions. • Optimal Utilization of OMP PSS: Balances load between Old Koraput PSS and OMP PSS, enhancing operational flexibility.

Sr No	41
Circle-Division	Berhampur-PSED
Existing 11 kV Feeder Name	Balichai-Kalamba
Location From	Kalamba Mandir Sahi Chawk 16KVa
Location To	Jenapur 2*63KVa Dss
Considered Length (CKM)	1
No. of Bay required	0
Project Cost (Cr.)	0.17
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Jenapur village, under Polasara section, currently receives power from the Balichai feeder of Chirikipada section, causing frequent supply issues and customer dissatisfaction during feeder breakdowns. To ensure reliable and steady supply, a link line is required to shift the transformer load to the nearby Kalamba feeder. This will improve service quality and address consumer grievances during billing and collection.

Sr No	42
Circle-Division	Berhampur-HED
Existing 11 kV Feeder Name	Ankorada
Location From	Jalmara
Location To	Palaspur Bridge
Considered Length (CKM)	0.25
No. of Bay required	
Project Cost (Cr.)	0.04

Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Ankoroda feeder originates from Dighapahandi PSS having length of 30 CKm & Peak load of feeder is 50 Amps. Total 3096 Nos of Consumer connected on the feeder. Ankorada which gives Power Supply to Hospital, School, industrial customers. Also, Feeder passes through forest area and encounter frequent tripping. Hence to mitigate issue load need to be shifted. There is another feeder from Palaspur PSS ,Sahaspur feeder (length 0.5CKM, conductor size 100Sq.mm). no load has yet been assigned to this feeder. Hence load from Ankorada feeder to Sahaspur will be shifted via new link line of 0.25 CKM from Jalamara to Palaspur Bridge. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	**43**
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Karapalli-Narayanpur
Location From	Satyanarayanpur
Location To	Karapalli
Considered Length (CKM)	1
No. of Bay required	-
Project Cost (Cr.)	0.41
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Narayanpur Feeder emanates from Gopalpur PSS. Peak load of the feeder is 55Amps and conductor size in Trunk line 80sq.mm and Branches 34

	sq.mm. Length of the feeder is 10.3 CKM. Karapalli feeder emanates from Bhanjavihar PSS. Peak load of the feeder is 90Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 14.9 CKM. For improving system reliability N-1 arrangement link line 1 CKM is proposed from Satyanarayanpur to Karapalli. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	**44**
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Hillpatana-Lanjipalli-Goodshed
Location From	Goodshed PSS
Location To	Gurukul through FCI
Considered Length (CKM)	1.5
No. of Bay required	-
Project Cost (Cr.)	0.84
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Goodshed Feeder emanates from Goodshed PSS. Peak load of the feeder is 50Amps and conductor size in Trunk line 80sq.mm and Branches 55 & 34 sq.mm. Length of the feeder is 1.8 CKM. Lanjipalli feeder emanates from Goodshed PSS. Peak load of the feeder is 180Amps and conductor size in Trunk line 100sq.mm and Branches 55 & 34 sq.mm. Length of the feeder is 5.1 CKM. For improving system reliability N-1 arrangement link line 1.5 CKM is proposed from Goodshed PSS

	to Gurukul through FCI. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	45
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Nilanchal Nagar-Gajpati Nagar
Location From	Nilanchal Nagar 5th lane extension
Location To	Basudev Nager
Considered Length (CKM)	0.5
No. of Bay required	-
Project Cost (Cr.)	0.11
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Nilanchal Feeder emanates from Bidyutpuri PSS. Peak load of the feeder is 130Amps and conductor size in Trunk line 80 & 100sq.mm and Branches 55 sq.mm. Length of the feeder is 5.3 CKM. Gajapati Nagar feeder emanates from Bidyutpuri PSS. Peak load of the feeder is 100Amps and conductor size in Trunk line 100sq.mm and Branches 55 & 34 sq.mm. Length of the feeder is 3.6 CKM. For improving system reliability N-1 arrangement link line 0.5 CKM is proposed from Nilanchal Nagar 5th lane extension to Basudev Nager. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	46
Circle-Division	Bhanjanagar - Phulbani
Existing 11 kV Feeder Name	Phulbani Bazar and Phulbani Medical
Location From	From Byaghra devi DSS
Location To	Court DSS
Considered Length (CKM)	0.4
No. of Bay required	-
Project Cost (Cr.)	0.07
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	At present under Phulbani PSS total 6nos 11KV feeders. which is supply from 3nos PTR (5MVA). Currently, the 11kV Phulbani Medical Feeder is receiving power from PTR-2, while the 11kV Phulbani Bazar Feeder is supplied by PTR-1. Both feeders are part of the Phulbani PSS. At present, PTR-1 is supplying the 11kV Phulbani Bazar Feeder and the 11kV College Feeder, which is operated under 85% load during the summer. To reducing the load of PTR-1 in summer season, we are planning an N-1 arrangement of 11KV Phulbani Bazar feeder and 11KV Phulbani Medical Feeder, in which the load of Phulbani Bazar Feeder (currently on PTR-1) can be switched to load Phulbani Medical Feeder (currently on PTR-2). This setup will enable emergency load diversion during the summer and help reduce the load on PTR-1. This proposal will improve the reliability in the region & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	47
Circle-Division	Rayagada-GED
Existing 11 kV Feeder Name	Jaltar-Puttasing
Location From	Jaltar Road
Location To	Jaltar
Considered Length (CKM)	0.5
No. of Bay required	-
Project Cost (Cr.)	0.08
Proposed Conductor (Sq.mm)	100

Considered Year	2027
Technical Justification	Jaltar Feeder emanates from Jaltar PSS. Peak load of the feeder is 15 Amps and conductor size in Trunk line 55sq.mm and Branches 34 &55 sq.mm. Length of the feeder is 27 CKM. Puttasing feeder emanates from Jaltar PSS. Peak load of the feeder is 27 Amps and conductor size in Trunk line 55 sq.mm and Branches 34 sq.mm. Length of the feeder is 85 CKM. For improving system reliability N-1 arrangement link line 0.5 CKM is proposed from Jaltar Road to Jaltar. During exigency condition one feeder load can be shifted to another. This proposal will affect less nos. of consumers in case of break-down/outage & enhance customer satisfaction and will also create N-1 connectivity among two feeders.

Sr No	**48**
Circle-Division	Rayagada-GED
Existing 11 kV Feeder Name	Gumuda- Subdrapur
Location From	Irbn campus
Location To	Subdrapur
Considered Length (CKM)	0.5
No. of Bay required	-
Project Cost (Cr.)	0.08
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Gumuda Feeder emanates from Gumuda PSS. Peak load of the feeder is 23 Amps and conductor size in Trunk line 55sq.mm and Branches 34 &55 sq.mm. Length of the feeder is 22 CKM. Subdrapur feeder emanates from Ukkamba PSS. Peak load of the feeder is 24 Amps and conductor size in Trunk

	line 55 sq.mm and Branches 34 sq.mm. Length of the feeder is 20 CKM. For improving system reliability N-1 arrangement link line 0.5 CKM is proposed from Irbn campus to Subdrapur. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	49
Circle-Division	Rayagada-GED
Existing 11 kV Feeder Name	Regada- Court
Location From	College Road
Location To	Near College Road
Considered Length (CKM)	0.5
No. of Bay required	-
Project Cost (Cr.)	0.08
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Regada Feeder emanates from Gunupur PSS. Peak load of the feeder is 106 Amps and conductor size in Trunk line 80 sq.mm and Branches 55 sq.mm. Length of the feeder is 21 CKM. Court feeder emanates from Gunupur PSS. Peak load of the feeder is 145 Amps and conductor size in Trunk line 80 sq.mm and Branches 55 & 34 sq.mm. Length of the feeder is 13 CKM. For improving system reliability N-1 arrangement link line 0.5 CKM is proposed from College Road to Near College Road. During exigency condition one feeder load can be shifted to another.

	This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	50
Circle-Division	Rayagada-GED
Existing 11 kV Feeder Name	Court - Town
Location From	Church road
Location To	Near Church road
Considered Length (CKM)	0.5
No. of Bay required	-
Project Cost (Cr.)	0.08
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Court Feeder emanates from Gunupur PSS. Peak load of the feeder is 145 Amps and conductor size in Trunk line 80 sq.mm and Branches 55 & 34 sq.mm. Length of the feeder is 13 CKM. Town feeder emanates from Gunupur PSS. Peak load of the feeder is 158 Amps and conductor size in Trunk line 80 sq.mm and Branches 55 & 34 sq.mm. Length of the feeder is 12 CKM. For improving system reliability N-1 arrangement link line 0.5 CKM is proposed from Church road to Near Church road. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	51
Circle-Division	Rayagada-GED
Existing 11 kV Feeder Name	Bankili - Tandikona
Location From	Bankili
Location To	Bankili mandir

Considered Length (CKM)	0.5
No. of Bay required	-
Project Cost (Cr.)	0.08
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Bankili Feeder emanates from Minajhola PSS. Peak load of the feeder is 12 Amps and conductor size in Trunk line 34 sq.mm and Branches 34 sq.mm. Length of the feeder is 11 CKM. Tandikona feeder emanates from Minajhola PSS. Peak load of the feeder is 09 Amps and conductor size in Trunk line 34 sq.mm and Branches 34 sq.mm. Length of the feeder is 31 CKM. For improving system reliability N-1 arrangement link line 0.5 CKM is proposed from Bankili to Bankili mandir. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	**52**
Circle-Division	Bhanjanagar-BnEd
Existing 11 kV Feeder Name	Sanakodanda-Baiballi
Location From	Raipalli
Location To	Mahaguda
Considered Length (CKM)	0.8
No. of Bay required	-
Project Cost (Cr.)	0.13
Proposed Conductor (Sq.mm)	100
Considered Year	2026

Technical Justification	Sanakodanda Feeder emanates from Lalsingi PSS. Peak load of the feeder is 33Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 29 CKM. Baiballi feeder emanates from Daha PSS. Peak load of the feeder is 18Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 45 CKM. For improving system reliability N-1 arrangement link line 0.8 CKM is proposed from Raipalli to Mahagauda. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	**53**
Circle-Division	Bhanjanagar-BnEd
Existing 11 kV Feeder Name	Soroda town- Lathipada
Location From	Hadi Sahi
Location To	Sana Soroda
Considered Length (CKM)	0.3
No. of Bay required	-
Project Cost (Cr.)	0.05
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	Soroda Town Feeder emanates from Surada PSS. Peak load of the feeder is 106Amps and conductor size in Trunk line 80sq.mm and Branches 34 sq.mm. Length of the feeder is 9 CKM. Lathipada feeder emanates from Surada PSS. Peak load of the feeder is 70Amps and conductor size in Trunk line 34 sq.mm and Branches 34 sq.mm. Length of the feeder is 64 CKM. For improving system reliability N-1 arrangement link line 0.3 CKM is proposed from Hadi Sahi to Sana Soroda. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders, also the load of village area falling under

	Town but supply from Lathipada will be able to get supply from Town feeder.

Sr No	54
Circle-Division	Jeypore-NED
Existing 11 kV Feeder Name	Umerkote Town
Location From	Adhikariguda PSS
Location To	Gotiguda
Considered Length (CKM)	2
No. of Bay required	1
Project Cost (Cr.)	0.55
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Umerkote Town Feeder emanates from Umerkote PSS. Peak load of the feeder is 128 Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 21 CKM. For improving system reliability N-1 arrangement link line 2 CKM is proposed from Adhikariguda PSS to Gotiguda. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	55
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Dura
Location From	Bahadurpeta
Location To	Dura GP office
Considered Length (CKM)	1
No. of Bay required	-
Project Cost (Cr.)	0.47

Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	Dura feeder originates from Dura PSS having length of approx. 8 CKM & Peak load of feeder is 62 amps. Supplying to 1902 consumers. Existing 11kV feeder running over residential area at Sishu Vidyalaya road and there is no scope of erection for intermediate poles to maintain ground clearance resulting very critical unsafe conditions. To avoid low ground clearance, necessary link line required to divert the existing route from Bahadurpeta - Dura GP office Road. This proposal will improve the reliability in the area & enhance customer satisfaction.

Sr No	**56**
Circle-Division	City-BED-1
Existing 11 kV Feeder Name	Raghunathpur
Location From	Hanuman temple
Location To	NTTF College
Considered Length (CKM)	0.7
No. of Bay required	-
Project Cost (Cr.)	0.12
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Raghunathpur feeder originates from Narendrapur PSS having length of approx. 16 CKM & Peak load of feeder is 107amps. Supplying to 2282 consumers. Existing 11kV feeder running over residential area at Hanuman temple road and there is no scope of erection for intermediate poles to maintain ground clearance resulting very critical unsafe conditions. To avoid low ground clearance, necessary link line required to divert the existing route from Hanuman

	temple - NTTF College Road. This proposal will improve the reliability in the area & enhance customer satisfaction.

Sr No	57
Circle-Division	City-BED-II
Existing 11 kV Feeder Name	City Hospital
Location From	Near Truck Union
Location To	Autonagar 1st Lane
Considered Length (CKM)	1.8
No. of Bay required	-
Project Cost (Cr.)	0.40
Proposed Conductor (Sq.mm)	148
Considered Year	2027
Technical Justification	City Hospital feeder originates from Ambagada PSS having length of approx. 6.12 CKM & Peak load of feeder is 135 amps. Supplying to 4409 consumers. Autonagar feeder emanates From Ambagada PSS. Total length of the feeder is 1.4 Ckm. Supplying to approx. 291 Nos of consumers. Peak load of the feeder is 11 Amps For improving system reliability N-1 arrangement link line 1.8 CKM is proposed from Near Truck Union to Autonagar 1st Lane. During exigency condition one feeder load can be shifted to another. This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders

Sr No	58
Circle-Division	City-BED-III
Existing 11 kV Feeder Name	Sorola
Location From	Ramayapanta liquor shop
Location To	Ramayapatna Village

Considered Length (CKM)	1.
No. of Bay required	-
Project Cost (Cr.)	0.17
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 KV Sorola feeder originate from Jagapur PSS. Total length of feeder 75Ckm, loading of feeder 110 A & consumer 11149 line passing from agriculture land, small pond during interruption maintenance is difficult. So, route diversion of line is required This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	**59**
Circle-Division	City-BED-III
Existing 11 kV Feeder Name	Sorola
Location From	Eligafield
Location To	Badhurpentha
Considered Length (CKM)	1.5
No. of Bay required	-
Project Cost (Cr.)	0.25
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 KV Sorola feeder originate from Jagapur PSS. Total length of feeder 75Ckm, loading of feeder 110 A & consumer 11149 line passing from agriculture land, small pond during interruption maintenance is difficult. So, route diversion of line is required This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	**60**
Circle-Division	City-BED-III
Existing 11 kV Feeder Name	Sorola

Location From	Aurasonepur Chowk
Location To	Kasibiswanthpur high school sonepur
Considered Length (CKM)	0.4
No. of Bay required	-
Project Cost (Cr.)	0.07
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 KV Sorola feeder originate from Jagapur PSS. Total length of feeder 75Ckm, loading of feeder 110 A & consumer 11149 line passing from agriculture land, small pond during interruption maintenance is difficult. So, route diversion of line is required This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	**61**
Circle-Division	Jeypore-NED
Existing 11 kV Feeder Name	Dongra
Location From	Near PSS
Location To	Tandaguda School
Considered Length (CKM)	2
No. of Bay required	
Project Cost (Cr.)	0.33
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Dongra feeder originates from Tandaguda PSS having length of 62 Ckm & Peak load of feeder is 35 Amps. Total 3472 Nos of Consumer connected on the feeder Dongra feeder which gives Power Supply to Block office, School, industrial customers and also rural Consumers. Feeder passes through forest area and encounter frequent tripping. This result into shutdown to urban customers. Hence to mitigate issue urban load need to be shifted. There is another feeder from Papadahandi Link feeder (length 4 CKM, conductor size 100 Sq.mm). Peak load of Papadahandi Link feeder is 10 AMP.

	Hence load from Dongra feeder to Papadahandi Link will be shifted via new link line of 2 CKM from Near Tandaguda tapping point to Tandaguada School . This proposal will improve the reliability in the area & enhance customer satisfaction and will also create N-1 arrangement among two feeders.

Sr No	62
Circle-Division	City-BED-III
Existing 11 kV Feeder Name	Surula (Jagapur PSS) - Bhairabi (Mantridi PSS)
Location From	HTC3103-812/196 (Near N sai Satish 250 KVA DTR consumer owned
Location To	HTC3102-198/1 (SANA EKSINGH CHAKA ODRP)
Considered Length (CKM)	1
No. of Bay required	-
Project Cost (Cr.)	0.17
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	11 kV Surula Feeder (Length-75 Ckm, Load- 110 Amps., Consumers-11149 nos) emanates from 33/11 kV PSS. Owing to the length, there is frequent tripping as well as voltage issues & load balancing issues at tail end of the feeder. For improve voltage issues & proper load distribution a new link line is proposed 1 Ckm for load divert into 11KV Bhairabi Feeder originates from Mantridi PSS). A new line 20 to 30 A load & 1733 nos. consumer will be diveted into 11KV Bhairabi feeder from 11KV Surula feeder This proposal will improve the reliability in the region & enhance customer satisfaction.

Sr No	63
Circle-Division	Bhanjanagar-BnEd
Existing 11 kV Feeder Name	Gangapur (Bhanjanagar)
Location From	Sanapathara
Location To	Jagannath Rice mill

Considered Length (CKM)	0.5
No. of Bay required	-
Project Cost (Cr.)	0.18
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	Gangapur (Bhanjanagar) Feeder emanates from Bhejiput PSS. Peak load of the feeder is 58Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 15 CKM. The feeder is providing supply to 2429 customer at present. The part mentioned above for diversion is currently passing though the paddy field and is away from the approach road and it's very prone to boar hunting and due to which frequent interruption occurs leading to consumer dissatisfaction, also the part is not approachable for quick maintenance purpose. This proposal will improve the reliability in the area & enhance customer satisfaction and will also be approachable for quick maintenance.

Sr No	**64**
Circle-Division	Jeypore- JED
Existing 11 kV Feeder Name	Khadapa
Location From	Salpa School to
Location To	Salpa RWSS
Considered Length (CKM)	1.5
No. of Bay required	-
Project Cost (Cr.)	0.25
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Khadapa feeder originates from Kaliagaon PSS having length of approx. 38 CKM & Peak loads of feeder is 20 amps. Supplying to 1704 consumers. Existing 11kV feeder running over densely forested area from Salpa School to Salpa RWSS. At the time of Kalbaisakhi due to high wind speed,

	branches of trees are touching the live conductor causes tripping of the feeder. Many times, broken branches of trees fall on the conductor due to which conductor snapping occurs. To avoid this issue, necessary link line required to divert the existing route from Salpa School to Salpa RWSS. This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	65
Circle-Division	Jeypore- JED
Existing 11 kV Feeder Name	Khadapa
Location From	Badajeuna
Location To	Badajeuna Village
Considered Length (CKM)	0.8
No. of Bay required	-
Project Cost (Cr.)	0.13
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Khadapa feeder originates from Kaliagaon PSS having length of approx. 80 CKM & Peak loads of feeder is 20 amps. Supplying to 1704 consumers. Existing 11kV feeder running through a cultivated Land from Badajeuna to Badajeuna Village where water flow in pressure all the time. PSC pole had been damaged in slight wind. For New Pole erection, it is quite unsafe, resulting very critical unsafe conditions. To avoid this issue, necessary link line required to divert the existing route from Badajeuna to Badajeuna Village. This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	66
Circle-Division	Jeypore- JED
Existing 11 kV Feeder Name	Jeypore No 2
Location From	VD College
Location To	Main Road
Considered Length (CKM)	0.25
No. of Bay required	-
Project Cost (Cr.)	0.04
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Jeypore No 2 feeder originates from OCC PSS having length of approx. 6.5 CKM & Peak load of feeder is 102 amps. Supplying to 3300 consumers. Existing 11kV feeder running over Municipality Pond near Main Road. So there is no scope of erection for intermediate poles to maintain ground clearance resulting very critical unsafe conditions. To avoid low ground clearance, necessary link line required to divert the existing route from VD College to Main Road. This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	67
Circle-Division	Jeypore- JED
Existing 11 kV Feeder Name	Jeypore Town
Location From	PSS
Location To	LIC Office
Considered Length (CKM)	0.1
No. of Bay required	-
Project Cost (Cr.)	0.02
Proposed Conductor (Sq.mm)	100
Considered Year	2027

Technical Justification	Jeypore town feeder originates from New Bus Stand PSS having length of approx. 9.5 CKM & Peak load of feeder is 128 amps. Supplying to 1200 consumers. Existing 11kV feeder running over Jeypore Main Road. In Jeypore Main Road there are 3 nos of Road crossing, which is not safe due to Busy road. To avoid 2 no's road crossing necessary link line required to divert the existing route from PSS to LIC Office. This proposal will improve Safety and the reliability in the area & enhance customer satisfaction

Sr No	**68**
Circle-Division	Rayagada-PKED
Existing 11 kV Feeder Name	Rayagada
Location From	Rayagada S/S
Location To	Hatapada
Considered Length (CKM)	0.25
No. of Bay required	-
Project Cost (Cr.)	0.04
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Rayagada feeder originates from Rayagada PSS having length of approx. 38 CKM & Peak load of feeder is 25 amps. Supplying to 3000 consumers. Existing 11kV feeder running over residential area at Hatapada and there is no scope of erection for intermidiate poles to maintain ground clearance resulting very critical unsafe conditions. To avoid low ground clearance, necessary link line required to divert the existing route from Hatapada. This proposal will improve the reliability in the area & enhance customer satisfaction.

Sr No	69
Circle-Division	Berhampur-PSED
Existing 11 kV Feeder Name	Sunathar
Location From	Hotabandha
Location To	Sunathara bhandilingaraj boiler
Considered Length (CKM)	2
No. of Bay required	0
Project Cost (Cr.)	0.33
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	The 11kV line passes through paddy fields with muddy water, making fault detection and rectification difficult and time-consuming, especially during the monsoon. This leads to prolonged outages and affects supply reliability. Strengthening or rerouting the line is necessary to ensure easier maintenance access and faster fault restoration.

Sr No	70
Circle-Division	Berhampur-PSED
Existing 11 kV Feeder Name	Bhatakumarada
Location From	Bhatakumarada
Location To	Badasahi DP
Considered Length (CKM)	1.5
No. of Bay required	0
Project Cost (Cr.)	0.25
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	The 11kV line passing directly above consumer houses poses a serious safety hazard, violating electrical clearance norms and increasing the risk of electric shock or fire during faults. Rerouting or raising the line is essential to ensure public safety and compliance with statutory regulations.

Sr No	71
Circle-Division	Rayagada- RED
Existing 11 kV Feeder Name	JK Pur
Location From	Jyoti Card Board to
Location To	Cotton Spinning
Considered Length (CKM)	0.6
No. of Bay required	-
Project Cost (Cr.)	0.10
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	JK Pur feeder originates from Amlabhata PSS having length of approx. 27 CKM & Peak load of feeder is 175amps. Supplying to 7200 consumers. Existing 11kV feeder running over residential area at Jyoti Card Board and there is no scope of erection for intermidiate poles to maintain ground clearance resulting very critical unsafe conditions. To avoid low ground clearance, necessary link line required to divert the existing route from Jyoti Card Board to Cotton Spinning. This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	72
Circle-Division	Rayagada- RED
Existing 11 kV Feeder Name	JK Pur
Location From	Amlabhata Chowk
Location To	Airtel AB Switch
Considered Length (CKM)	0.3
No. of Bay required	-
Project Cost (Cr.)	0.30
Proposed Conductor (Sq.mm)	100+3CX300Sqmm XLPE Cable
Considered Year	2027

Technical Justification	JK Pur feeder originates from Amlabhata PSS having length of approx. 27 CKM & Peak load of feeder is 175amps. Supplying to 7200 consumers. Existing 11kV feeder running over residential area at Amlabhata Chowk and there is no scope of erection for intermidiate poles to maintain ground clearance resulting very critical unsafe conditions. To avoid low ground clearance, necessary link line required to divert the existing route from Amlabhata Chowk to Airtel AB Switch. This proposal will improve the reliability in the area & enhance customer satisfaction

Sr No	**73**
Circle-Division	Rayagada- RED
Existing 11 kV Feeder Name	JK Pur
Location From	Penta Road Tapping
Location To	Village AB Switch
Considered Length (CKM)	0.3
No. of Bay required	-
Project Cost (Cr.)	0.30
Proposed Conductor (Sq.mm)	100+3CX300Sqmm XLPE Cable
Considered Year	2027
Technical Justification	JK Pur feeder originates from Amlabhata PSS having length of approx. 27 CKM & Peak load of feeder is 175amps. Supplying to 7200 consumers. Existing 11kV feeder running over residential area at Penta Road Tapping and there is no scope of erection for intermidiate poles to maintain ground clearance resulting very critical unsafe conditions. To avoid low ground clearance, necessary link line required to divert the existing route from Penta Road Tapping to Village AB Switch. This proposal

	will improve the reliability in the area & enhance customer satisfaction

Sr No	74
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Dasmantapur-Lulla
Location From	Dasmantapur PSS
Location To	Pedisil
Considered Length (CKM)	3
No. of Bay required	1
Project Cost (Cr.)	0.48
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	The 11 kV Lulla Feeder, emanating from Dasmantapur PSS, presently extends over approximately 125 CKM. Owing to this excessive line length, consumers—particularly those located at the tail end—are experiencing unreliable and poor-quality power supply. To address this issue and ensure reliable, stable, and quality power to all connected consumers, it is proposed to segregate the existing feeder. The proposed segregation is expected to deliver the following benefits: • Improved voltage profile in tail-end areas • Reduction in technical losses • Enhanced reliability and continuity of power supply • Faster fault detection and rectification, minimizing outage durations This initiative will significantly enhance consumer satisfaction and align the network with operational best practices.

Sr No	75
Circle-Division	Jeypore-KED
Existing 11 kV Feeder Name	Narayanptna-Balipeta
Location From	Narayanpatna PSS

Location To	Palaput
Considered Length (CKM)	2
No. of Bay required	1
Project Cost (Cr.)	0.40
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	The 11 kV Balipeta Feeder, emanating from Narayanpatna PSS, presently extends over approximately 145 CKM. Owing to this excessive line length, consumers—particularly those located at the tail end—are experiencing unreliable and poor-quality power supply. To address this issue and ensure reliable, stable, and quality power to all connected consumers, it is proposed to segregate the existing feeder. The proposed segregation is expected to deliver the following benefits: • Improved voltage profile in tail-end areas • Reduction in technical losses • Enhanced reliability and continuity of power supply • Faster fault detection and rectification, minimizing outage durations This initiative will significantly enhance consumer satisfaction and align the network with operational best practices.

Sr No	**76**
Circle-Division	Bhanjanagar-BnEd
Existing 11 kV Feeder Name	Gangapur (Bhanjanagar)
Location From	Dhudhua Kali Temple
Location To	Dhudhua Bypass
Considered Length (CKM)	1
No. of Bay required	-
Project Cost (Cr.)	0.17
Proposed Conductor (Sq.mm)	100
Considered Year	2026

Technical Justification	Gangapur (Bhanjanagar) Feeder emanates from Bhejiput PSS. Peak load of the feeder is 58Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 15 CKM. The feeder is providing supply to 2429 customer at present. The part mentioned above for diversion is currently passing though the paddy field and is away from the approach road and it's very prone to boar hunting and due to which frequent interruption occurs leading to consumer dissatisfaction, also the part is not approachable for quick maintenance purpose. This proposal will improve the reliability in the area & enhance customer satisfaction and will also be approachable for quick maintenance.

Sr No	**77**
Circle-Division	Bhanjnagar - Phulbani
Existing 11 kV Feeder Name	College Feeder
Location From	From Adiwasi Hostel
Location To	Garbage Unit
Considered Length (CKM)	0.3
No. of Bay required	
Project Cost (Cr.)	0.05
Proposed Conductor (Sq.mm)	100
Considered Year	2026
Technical Justification	Currently, the 11kV College Feeder is fed from Phulbani PSS. This feeder supplies electricity to the PHD water pump of Phulbani Municipality, which provides water to Phulbani town. However, the existing 11kV line passes through a forested area, resulting in frequent supply interruptions and affecting the steady operation of the PHD water pump. To address this issue and ensure reliable power supply to the PHD pump, we are planning a route diversion for this portion of the line which is from ANWESHA HOSTEL TO GARBAGE UNIT 0.3 Ckm.

Sr No	78
Circle-Division	Berhampur-PSED
Existing 11 kV Feeder Name	Balichai
Location From	1)Gopalbandha 2) Kumhari
Location To	1)Block 2) RMU
Considered Length (CKM)	1.5
No. of Bay required	
Project Cost (Cr.)	0.25
Proposed Conductor (Sq.mm)	100
Considered Year	2027
Technical Justification	Jenapur village, under Polasara section, currently receives power from the Balichai feeder of Chirikipada section, causing frequent supply issues and customer dissatisfaction during feeder breakdowns. To ensure reliable and steady supply, a link line is required to shift the transformer load to the nearby Kalamba feeder. This will improve service quality and address consumer grievances during billing and collection.

137. The Cost of construction of new 33 KV and 11 KV Lines is as follows:

Table 30 : Capital Expenditure of new 33 KV and 11 KV lines

Sl. No.	Description of Projects	UOM	Unit Cost- (Rs. in Lakhs)	Quantity	Total Estimated Cost (Rs. in Cr.)
a	New 33 KV Link Line 232 Sqmm 'H'- Pole	Ckm	43.29	5.50	2.38
b	New 33 KV Link Line 148 Sqmm 'H'- Pole	Ckm	33.85	46.40	15.71
c	New 33 KV Link Line 232 Sqmm Covered conductor WPB	Ckm	50.86	0.00	0.00
d	New 33 KV Link Line 148 Sqmm Covered conductor WPB	Ckm	26.30	2.25	0.59
e	New 33 KV Link Line using UG 3CX 400 Sqmm	Km	83.87	6.30	5.28
f	11 KV New Lines for reliable power supply 100 Sqmm WPB	Ckm	16.51	73.35	12.11
g	11 KV New Lines for reliable power supply 148 Sqmm WPB	Ckm	22.01	5.20	1.14
h	11 KV New Lines for reliable power supply 100 Sqmm 9mtr PSC	Ckm	8.81	39.50	3.48
i	11 KV New Line with UG 3Cx400sqmm	Km	65.60	9.60	6.30
j	33kV NH Crossing	Nos.	30.68	1.00	0.31
k	11kV NH Crossing	Nos.	24.67	13.00	3.21
l	33kV Railway Crossing	Nos.	57.14	1.00	0.57
m	11kV Railway Crossing	Nos.	51.13	5.00	2.56
n	New 33 KV Bay at PSS WPB	Nos.	34.50	19.00	6.55
o	New 11 KV Bay at PSS WPB	Nos	21.89	33.00	7.22
p	33kV RMU	Nos	52.48	5.00	2.62
q	11kV RMU	Nos	21.10	12.00	2.53
r	33kV 4-pole Structure for N-1	Nos	7.39	5.00	0.37
3	**Total**				**72.94**

Unit BOQ is provided in Annexure 6 , location is provided in Annexure 11& Load Flow Study and Cost Benefit Analysis of 33kV/11kV Line in Annexure-9

4.3.4 Refurbishment/Upgradation of 33 KV & 11 KV Line

138. The 33kV or 11kV feeders are important assets for a distribution utility which connects various substations and provide power to end consumers.

139. During survey, it has been observed that conductor of multiple sizes is used in different section which restricts the circuit capacity. This also leads to conductor heating and

high losses. Hence it is required to increase the conductor size for such lines to meet loading as well as load growth for next 5-10 years.

140. 33kV and 11kV lines considered for Conductor Upgradation based on Under size Conductor &Under Voltage due to Line losses. Input also taken into consideration from load flow studies carried out for 33kV and 11kV Lines.

141. Load flow (LF) is one of the most important parts to study and analyze the power system operation. The purpose of Load Flow is to understand how power distribution network behaves while power flows around the electrical network. Carrying out a load flow study assists the engineer in Designing & Operation team whether the network is Operating Efficiently or not and what mitigation plan can help in mitigating the network inadequacies. The load flow study in TPSODL was carried out (with help of CYME Dist. Software) to understand how power flows around the electrical network and what are the deficiencies which need to be attended to ensure reliable and Quality power supply to the consumers. We have also considered the inputs from field teams for section of the lines which are having under size conductor and same has been considered based on cost benefit analysis.

142. We have identified total 126 lines (23 nos of 33kV and 103 nos of 11kV) for conductor upgradation. Some other issues such as tilted poles, damage insulators are observed in identified lines and strengthening measures are also planned for these lines.

143. National/State Highway/Railway Crossings are also considered in Estimated Cost whereever applicable at locations (Provided in Annexure-6)

144. Proposal for upgradation of 33 KV Line is broadly categorized in below table.

Table 31 : Category ofupgradation of 33 KV lines

Sr.no	Category of Proposal	Nos.
1	Proposal for overload mitigation	8
2	Proposal for refurbishment of Old aged Network	9
3	Proposal for enhancing N-1 capacity	6
	TOTAL	23

145. Based on the same, the 33 KV Lines and 11 KV lines proposed to be upgraded is as given in tables below

33 KV Conductor Upgradation

Sr No	1
Circle-Division	Berhampur-HED
33 kV Feeder Name	Hinjli
Considered Length (CKM)	5
Peak Load (Amp.)	95
Existing Conductor (Sq.mm)	80+100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.79
Location From-To	Purusattompur GSS to Gangadhani (Tapping Point Gandala PSS)
Considered Year	2027
Technical Justification	Presently, 33 kV Hinjili feeder emanate from 132/33 kV Purusattompur GSS with an existing line length of 30 Ckm, using 80+100 Sqmm AAAC conductor & Peak demand in FY 24-25 is 95 Amp. This feeder supplies power supply to Gandla PSS.Ambagaon PSS and also act as N-1 backup source for Hinjli PSS. During Failure of 33 kV Hinjli Feeder (From HInjli GSS), Hinjli PSS avail power supply from 33kV Hinjli Feeder (Purusattompur GSS). During contingency Period, Total anticipated load on this feeder exceeds 15 MW. Hence, the feeder may not cater the load which results snapping of conductor & Power supply interruption. So, conductor refurbishment required from Purusattompur GSS to Gangadhani (Tapping point of Gandala PSS). Hence, Conductor Upgradation of 5 Ckm required from Purusattompur GSS to Gandadhani is proposed here for improving reliability.

Sr No	2

Circle-Division	Berhampur-HED
33 kV Feeder Name	Hinjli
Considered Length (CKM)	2.3
Peak Load (Amp.)	140
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	232
Project Cost (Cr.)	0.47
Location From-To	Hinjli GSS to Hinjli PSS
Considered Year	2027
Technical Justification	Presently, 33 kV Hinjili feeder emanate from 132/33 kV Hinjli GSS with an existing line length of 2.3 Ckm, using 100 Sqmm AAAC conductor & Peak demand in FY 24-25 is 140 Amp. This feeder supplies power supply to Hinjli PSS, and also act as N-1 backup source for Berhampur -Hinjli 33kV Feeder (Kukdakahandi PSS + Nimakhandi PSS) & S. Ambagaon PSS & Gandala PSS. During exigency Kukudakhandi PSS, Nimakhandi PSS, Gandala PSS avail power supply from 33kV Hinjli Feeder (Hinjli GSS). During contingency Period, Total anticipated load on this feeder exceeds 18 MW. Hence, the feeder may not cater the load which results snapping of conductor & Power supply interruption. So, conductor Upgradation required from Hinjli GSS to Hinjli PSS. Hence, Cond. Upgradation of 2.3 Ckm required from Hinjli GSS to Hinjli PSS is proposed here for improving reliability.

Sr No	**3**
Circle-Division	City-BED-III
33 kV Feeder Name	Chikiti Feeder (Berhampur GSS)
Considered Length (CKM)	11.5
Peak Load (Amp.)	255
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	1.81

Location From-To	Lathi tapping (Haridakhandi road) -Golonthra dandakali temple (FP) including tullu road FP to kanisi pss
Considered Year	2027
Technical Justification	Presently ,33 kV Chikiti feeder emanate from 132/33 kV Berhampur GSS with an existing line length of 33 Ckm, using 100 Sqmm AAAC conductor as per proposed location & Peak demand in is 255 Amp. This feeder supplies power supply to Lathi PSS, Mantridi PSS & Jagapur PSS and 33KV Industrial consumer IOCL (Contract demand -3.5 MVA) & other industrial consumer also act as N-1 backup source for Kanisi PSS. During Failure of 33 kV Kanisi Feeder, Kanisi PSS avail power supply from 33kV Chikiti Feeder. During contingency Period, Total anticipated load on this feeder 16 MW. . Load growth projections in Chikti feeder indicate an annual increase of approximately 3 MW on the feeders, with an expected additional 2 MW rise in the upcoming year. Presently, 33KV Consumert IOCL is receiving a 1 MVA supply from the Chikiti feeder through a tapping arrangement, although the sanctioned demand is 3.5 MVA. Should IOCL's load increase to the sanctioned level Hence, the feeder may not cater the load which results snapping of conductor & Power supply interruption. So conductor refurbishment required from lathi tapping (Haridakhandi road) -Golonthra dandakali temple (FP) including tullu road FP to kanisi PSS. . hence, cond. upgradation of 12 ckm required from lathi tapping (Haridakhandi road) -Golonthra dandakali temple (FP) including tullu road FP to kanisi PSS is proposed here for improving reliability.

Sr No	**4**

Circle-Division	Bhanjanagar-BOED
Existing 33 kV Feeder Name	Baghiapada
Considered Length (CKM)	16
Peak Load (Amp.)	210
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	2.52
Location From-To	Janapank PSS to Baunsuni PSS
Considered Year	2027
Technical Justification	33kV Boudh feeder from Boudh GSS is having present peak load is approx. 210 A. This feeder supplies power to Boudh & Janapank PSS and Hilung Megalift & it is extended upto Baunsuni PSS. 33kV conductor size is having 55 sqmm and also the conductor is derated due to age & multiple joints. This section is also providing N-1 connectivity from Janapank PSS to Baunsuni PSS (33kV Manmunda feeder). Baunsuni PSS is having peak load of 88 A. Boudh GSS to Boudh PSS & Boudh PSS to Janapank PSS line sections already considered for conductor upgradation under earlier CAPEX Scheme. Analysing above situation, Boudh feeder from Janapank PSS to Baunsuni PSS is planned to be strengthened by upgrading to 148 sq.mm, which will be able to feed backup power supply to Bausuni PSS during emergency condition. During upgradation it is also planned to strengthen the section of the line by providing intermediate poles & stay set. This will result in reduction of power interruption and provide quality power supply.

Sr No	**5**
Circle-Division	Jeypre-NED
33 kV Feeder Name	Jharigam
Considered Length (CKM)	8.5
Peak Load (Amp.)	139
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148

Project Cost (Cr.)	1.34
Location From-To	Umerkote GSS to Mendhabeda
Considered Year	2027
Technical Justification	Presently ,33 kV Jharigam feeder emanate from 132/33 kV Umerkote GSS with an existing line length of 56 Ckm, using 100 Sqmm AAAC conductor & Peak demand in FY 24-25 is 139 Amp . This feeder supplies power supply to Jharigam PSS, Chandahnadi PSS and also act as N-1 backup source for Umerkote PSS . During Failure of 33 kV Umerkote Feeder, Umerkote PSS avail power supply from 33kV Jharigam Feeder. During contingency Period, Total anticipated load on this feeder exceeds 15 MW. Hence, the feeder may not cater the load which results snapping of conductor & Power supply interruption. So, conductor refurbishment required from Umerkote GSS to Umerkote PSS via Mendabeda. Hence, Conductor Upgradation of 12 Ckm required from umerkote GSS to Umerkote PSS via Mendhabeda is proposed here for improving reliability.

Sr No	**6**
Circle-Division	Jeypre-NED
33 kV Feeder Name	Kodinga
Considered Length (CKM)	9.8
Peak Load (Amp.)	118
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	1.54
Location From-To	Kosagumuda PSS to Kodinga PSS
Considered Year	2027
Technical Justification	Presently, Kosagumuda PSS receives power supply from Dabugam GSS via kodinga PSS through a dedicated 33 kV feeder with an approximate total length of Line 49 Ckm. The existing line is mixed of 148 sq.mm conductor over

	22 Ckm and 100 sq.mm conductor over 27 Ckm with peak load recorded 203 A. In line with ongoing industrial development, a total load of approx. 2.5 MW has been added in Fy 25-26 & also after considering agricultural load, Village Electrification with the future load growth, total forecasted load demand is expected to increase to approximately 15 MW. upon view of this anticipated load growth, the existing conductor unable to cater the future load growth. Therefore, it is proposed to upgrade to 148 sq.mm conductor from kodinga to kosagumuda ensure enhanced power transfer capacity, Improved voltage profile, system reliability & adequate support for future industrial expansion without overloading the system.
Sr No	**7**
Circle-Division	PED
33 kV Feeder Name	Phulbani
Considered Length (CKM)	3.8
Peak Load (Amp.)	130
Existing Conductor (Sq.mm)	55 & 80
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.60
Location From-To	Phulbani GSS to Phulbani PSS
Considered Year	2027
Technical Justification	The Phulbani feeder originates from the Phulbani GSS and supplies power to the Phulbani PSS, catering to critical infrastructure such as government offices, schools, medical facilities, and high-value consumers. Currently, the feeder draws a load of 130 Amps through existing 80 sqmm and 55 sqmm AAAC conductors over an approximate length of 5.4 CKM. The conductor has experienced frequent snapping due to ageing and the presence of numerous joints.

	Under CAPEX 2024–25, 1.4 CKM of the total line length has already been upgraded. The remaining 4.0 CKM requires strengthening by upgrading to 148 sqmm AAAC conductor. Additionally, the line section will be reinforced by installing intermediate poles and stay sets, which will enhance mechanical stability and result in reduced power interruptions and improved supply reliability.

Sr No	**8**
Circle-Division	Bhanjanagar-BNED
33 kV Feeder Name	KB Pur
Considered Length (CKM)	5.7
Peak Load (Amp.)	73.33
Existing Conductor (Sq.mm)	55, 80, 100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.90
Location From-To	Gobara Ab Swich to KB Pur PSS
Considered Year	2027
Technical Justification	33kV KB Pur feeder from Bhanjanagar GSS is having present peak load is approx. 73 A. This feeder supplies power to KB Pur PSS and also is linked with Balisira PSS of Aska. 33kV conductor size is having 55,80 sqmm. Feeder length from GSS to Gobara AB Switch has already been upgraded to 100sqmm under Capex-25. The aeging of the conductor is more than 30 years and thus conductor snapping in the feeder is more, In order to provide reliable power supply

	conductor upgradation is needed on priority basis for this remaining length. Analysing above situation, feeder's upgradation work in the remaining length will be helpful to shorten the interruption due to conductor snapping and parting issues. This will improve the power supply to the consumers in the feeder, and also will be able bare the load when linked to Balisira PSS.

Sr No	9
Circle-Division	Bhanjanagar-BNED
33 kV Feeder Name	Sorada
Considered Length (CKM)	0.3
Peak Load (Amp.)	142.66
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	232
Project Cost (Cr.)	0.06
Location From-To	Bhanjanagar GSS to Mareipatta
Considered Year	2027
Technical Justification	33kV Soroda feeder from Bhanjanagar GSS is having present peak load of approx. 142.6 A. This feeder supplies power to 4No. PSS and 3No. Megalift & it is extended upto Boroda PSS and also is linked with Dharakote PSS of Aska. 33kV conductor size is having 100, 232 sqmm. The feeder has 100sqmm conuctor at the starting of the feeder which is appx 0.3Km, since the feeder load is increasing rapidly, and serving 4 PSS, 3 Megalift the conductor size at the starting needs to be upgradaed in order to bare the load. Analysing above situation, feeder's upgradation work is required on higher priority so as to prevent any further damage and bare the increasing load, the PSS at present has consumer base of 20062 Nos. Thus, to provide reliable power supply

	refurbishment work of the feeder is very much needed.

Sr No	10
Circle-Division	Rayagada- RED
33 kV Feeder Name	Rayagada-1 (Autonagar)
Considered Length (CKM)	7.5
Peak Load (Amp.)	246
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	232
Project Cost (Cr.)	1.55
Location From-To	Rayagada GSS to Autonagar PSS
Considered Year	2027
Technical Justification	Presently ,33 kV Rayagada-1 feeder emanate from 132/33 kV Rayagada GSS with an existing line length of 8 Ckm, using 100 Sqmm AAAC conductor & Peak demand in FY 24-25 is 246 Amp . This feeder supplies power supply to Autonagar PSS and also act as N-1 backup source for Gunupur Feeder. During Failure of 33 kV Gunupur Feeder, Raniguda, Pitamahal, Jhimidipeta PSS avail power supply from 33kV Rayagada-1 Feeder. During contingency Period, Total anticipated load on this feeder exceeds 16 MW. Hence, the feeder may not cater the load which results in snapping of conductor & Power supply interruption. So, conductor refurbishment required from Rayagada GSS to Autonagar PSS. Hence, Conductor Upgradation of 8 Ckm required from Rayagada GSS to Autonagar PSS is proposed here for improving reliability.

Sr No	11
Circle-Division	Rayagada-PKED
33 kV Feeder Name	Paralakhemundi New Feeder
Considered Length (CKM)	5
Peak Load (Amp.)	166

Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.79
Location From-To	Paralakhemundi GSS to Paralakhemundi New PSS
Considered Year	2027
Technical Justification	Presently ,33 kV Paralakhemundi New feeder emanate from 132/33 kV Paralakhemundi GSS with an existing line length of 4.6 Ckm, using 100 Sqmm AAAC conductor & Peak demand in FY 24-25 is 166 Amp. This feeder supplies power supply to Paralakhemundi New PSS. Due to old aged conductor and degradation, conductor snapping is experienced many times. So, conductor refurbishment required from Paralakhemundi GSS to Paralakhemundi New PSS. Hence, Cond. Upgradation of 4.6 Ckm required from Paralakhemundi GSS to Paralakhemundi New PSS is proposed here for improving reliability.

Sr No	**12**
Circle-Division	City-BED-I
33 kV Feeder Name	Ambapua-Medical
Considered Length (CKM)	5.6
Peak Load (Amp.)	296
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	232
Project Cost (Cr.)	1.20
Location From-To	Ambapua PSS to Medical PSS
Considered Year	2027
Technical Justification	Presently, 33kV Ambapua and 33kV Medical feeders emanate from the 220/132/33kV Narendrapur GSS with an existing length of 11 Ckm using 232+100 Sqmm conductor with a peak load of 320A on the 33kV Ambapua feeder and 310A on the 33kV Medical feeder. The feeders supply power to Ambapua PSS, Bidyutpuri PSS

	and Medical PSS and also act as N-1 backup source for New Medical PSS. These feeders cater to critical urban loads, including essential services such as the MKCG Medical Hospital, Government offices, educational institutions and commercial markets. A 5 Ckm section of the existing 100 sqmm conductor has already been upgraded to 232 Sqmm from Narendrapur GSS under Capex FY-25. However, the remaining 6 Ckm double circuit section still uses a 100 Sqmm conductor, during contingency period the total anticipated load on this feeder exceeds 15MW, which results snapping of conductor & Power supply interruption. Hence, Conductor Upgradation is proposed from Ambapua PSS to Medical PSS via Bidyutpuri PSS to enhanced power transfer capacity, Improved voltage profile, system reliability & adequate support for future load expansion without overloading the system.

Sr No	**13**
Circle-Division	Berhampur-GNED
33 kV Feeder Name	Khallikote
Considered Length (CKM)	16
Peak Load (Amp.)	190
Existing Conductor (Sq.mm)	80/100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	2.52
Location From-To	Balugaon GSS to Khallikote PSS
Considered Year	2027
Technical Justification	33kV Khallikote feeder emanates from Balugaon GSS and having present peak load A. It provides power supply to Khallikote PSS, Beguniapada PSS & Sumandala PSS & also acts as N-1 supply to Sakiri PSS & Rambha PSS carrying a peak load of 200A.To cater spike in load due to proposed

	industrial proposals on this feeder,condcutor upgradation rom Balugaon GSS to Khallikote PSS from 80 SQMM to 148SQMM is proposed.This feeder is also situated near to coast line and has worn out/damaged conductor due to saline effect,in the need of urgent replacement.

Sr No	14
Circle-Division	Berhampur-GNED
33 kV Feeder Name	TISCO
Considered Length (CKM)	10
Peak Load (Amp.)	140
Existing Conductor (Sq.mm)	80/100/148
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	1.57
Location From-To	Ramchandrapur PSS to University PSS
Considered Year	2027
Technical Justification	33KV TISCO Feeder emenates from Chatrapur GSS & provides power supply to Ramchandrapur PSS & Tata SEZ carrying a peak load of 160A.It also acts as an N-1 Supply forUniversity PSS.Due to recent spike in upcomning industrial load at Tata SEZ of 10MVA in pipeline.Thus conductor upgradation from Ramchandrapur PSS to University PSS from 100SQMM to 148SQMM is proposed.This feeder is also situated near to coast line and has worn out/damaged conductor due to saline effect,in the need of urgent replacement.

Sr No	15
Circle-Division	Jeypre-KED
33 kV Feeder Name	Koraput
Considered Length (CKM)	16
Peak Load (Amp.)	215
Existing Conductor (Sq.mm)	55/80
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	2.52

Location From-To	Sunabeda PSS to Kanheiput AB Switch
Considered Year	2027
Technical Justification	Presently, Koraput PSS receives power supply from Sunabeda GSS via Sunabeda PSS through a dedicated 33 kV feeder with an approximate total length of Line 22 Ckm. The existing line is of 55/80 sq.mm conductor with peak load recorded 215 A. Koraput Town, serving as the district headquarters of Koraput District, houses key government establishments including the Collectorate, District Court, District Medical facilities, and various administrative offices within the Koraput Municipality area. With a population of approximately 65,000, uninterrupted and quality power supply is essential for both administrative and public services. The existing 33 kV Koraput Feeder: Is one of the oldest feeders in the region, uses undersized 55/80 sq. mm conductor, Crosses the Kolab water reservoir at multiple points, increasing vulnerability, has a peak load of 215 A, which is close to its capacity limit. To further enhance the reliability and ensure sustained power quality for Koraput Town, it is proposed to upgrade the section of the 33 kV Feeder from Sunabeda PSS to Kanheiput AB Switch.

Sr No	**16**
Circle-Division	Jeypre-KED
33 kV Feeder Name	Toshali
Considered Length (CKM)	8
Peak Load (Amp.)	50
Existing Conductor (Sq.mm)	80
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	1.26
Location From-To	Pottangi GSS to Tosali Cement Industry
Considered Year	2027

Technical Justification	Presently Tosali 33KV Feeder is emanating from Pottangi GSS, Feeds Power supply to 3 nos Industrial consumer, Existing feeder is very old aged with 80 sqmm conductor. Present load is 5MW. Hence Network refurbishment is proposed.

Sr No	**17**
Circle-Division	Aska-AED-II
33 kV Feeder Name	Budhamba
Considered Length (CKM)	9
Peak Load (Amp.)	270
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	1.42
Location From-To	K S Nagar Section Point to Budhamba PSS
Considered Year	2027
Technical Justification	The 33kV Budhamba feeder, currently using a 100sqmm AAA Conductor with 260amp load, originates from the Aska Old Grid. This feeder dedicatedly supplies power to the Budhamba PSS and forms an N-1 network arrangement with the Polosara, Chirikipada, Hatiota, Kodala PSS and sometime Beguniapada PSS. Considering its strategic importance and future load growth, especially in serving commercial consumers and critical medical/hospital facilities, it is proposed to upgrade the conductor size from 100 sqmm to 148 sqmm to ensure reliable and enhanced power delivery.

Sr No	**18**
Circle-Division	Rayagada-GED
33 kV Feeder Name	Bikrampur Feeder (Gunupur GSS)
Considered Length (CKM)	1.5
Peak Load (Amp.)	24.5
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	148

Project Cost (Cr.)	0.24
Location From-To	After Bansadhara River crossing DP to Bikrampur PSS
Considered Year	2027
Technical Justification	3kV Bikrampur feeder emanates from Gunupur GSS feeding power supply to Bikrampur PSS. Its Peak Load is 24.5amp and N-1 Arrangement between Two GSS (Akusing & Gunupur GSS). 33kV line length from Gunupur GSS to Bikrampur PSS is approx. 6 Ckm. Out of total 6 Ckm, 4.5Ckm line is already strengthened through earlier CAPEX proposals. Balance 1.5Ckm line is very old with conductor size of 55 sqmm. The survey of the site reveals that many poles are damaged besides stays sets, and V cross arms are also in broken condition. Due to poor condition of the 33 KV line, frequent interruptions are taking place. This remaining 1.5 Ckm line need to strengthen by upgrading to 148 sqmm to improve reliability. During upgradation it is also planned to strengthen the section of the line by providing intermediate poles & stay set. This will result in reduction of power interruption and provide quality power supply.

Sr No	**19**
Circle-Division	Rayagada-GED
33 kV Feeder Name	Gumuda Feeder (Akhusing GSS)
Considered Length (CKM)	1
Peak Load (Amp.)	55.5
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.16
Location From-To	Labaguda to Bangi Canal
Considered Year	2027

Technical Justification	The 33kV Gumuda feeder originates from the Ankusing Grid (GSS) and supplies power to areas including Gumuda, Ramanaguda, Minajhola, and Kailashpur PSS. An N-1 arrangement exists between two 33kV lines, namely Padmapur and Gumuda. The 33kV line length from Gumuda PSS to Ramanaguda PSS is approximately 14 Ckm, with a peak load of 55 Amps. A site survey reveals that many poles are damaged, and stay sets and V cross arms are also found to be broken. Due to the poor condition of the 33kV line, frequent power interruptions are occurring. To address this issue, it is proposed to strengthen a 1 Ckm section of the line by upgrading the conductor to 148 sqmm to enhance reliability. As part of this upgradation, it is also planned to reinforce the line by installing intermediate poles and stay sets. This will help reduce power interruptions and ensure a more reliable and quality power supply.

Sr No	**20**
Circle-Division	Berhampur-PSED
Existing 33 kV Feeder Name	33KV Khalikote Feeder
Considered Length (CKM)	1
Peak Load (Amp.)	117
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.16
Location From-To	33/11kV Beguniapada PSS to Pushtapur AB Switch
Considered Year	2027
Technical Justification	Presently, 33 kV line from Beguniapada PSS to Pushtapur AB Switch is constructed using an aged and undersized 55 sqmm conductor, with an approximate line length of [insert line length if known]. This feeder supplies power to

	Beguniapada PSS, Sumandala PSS, and caters to the growing load demand in the area. The peak load demand on this feeder has increased significantly, and the existing 55 sqmm conductor is inadequate to carry the combined load, leading to overloading issues. The thermal stress on the conductor during peak demand conditions often results in frequent snapping, excessive line losses, and power supply interruptions. Further, the aging nature of the conductor adds to the mechanical weakness of the line, especially during adverse weather conditions or switching operations. This compromises the reliability and stability of the power supply to the associated substations. Hence, to prevent overloading, minimize line losses, and ensure reliable power delivery, conductor refurbishment from Beguniapada PSS to Pushtapur AB Switch is proposed. The upgradation from 55 sqmm to 148 sqmm AAAC conductor is technically necessary to enhance the current carrying capacity and overall performance of the feeder. Accordingly, conductor upgradation of the said line section is proposed to improve the reliability, reduce interruptions, and meet the growing power demand of Beguniapada and Sumandala PSS.

Sr No	21
Circle-Division	ASKA-AED 1
33 kV Feeder Name	ASKA FEEDER (IPDS Line)
Considered Length (CKM)	2.2
Peak Load (Amp.)	155
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.35
Location From-To	Aska UR+6 tower to Taluka Road
Considered Year	2027

Technical Justification	Presently, Aska PSS relies on a single 33 kV source from Aska Old GSS. Aska PSS has five 11 kV feeders supplying major town areas of Aska and commercially well-developed regions in and around Aska. The PSS serves approximately 14,820 consumers. During breakdowns or maintenance, the absence of load-shifting (N-1) supply to Aska PSS results in prolonged interruptions, which also hamper maintenance work and lead to frequent breakdowns. To address this, a new N-1 line is proposed from Nuagam PSS. The proposed 2.2 ckm Aska IPDS upgradation is an integral part of this N-1 line. It must need to augumented the line so that the proposed N-1 line from Nuagam PSS to Aska PSS can be completed. This will provide N-1 supply to Aska PSS, improving supply reliability and customer satisfaction.

Sr No	**22**
Circle-Division	ASKA- AED 1
33 kV Feeder Name	Sorada Feeder
Considered Length (CKM)	4.5
Peak Load (Amp.)	262
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.71
Location From-To	Aska Bus stand 4P structure to Dharakote PSS
Considered Year	2027
Technical Justification	Presently, the 33 kV Dharakote line, originating from Aska Grid Substation (GSS), spans a total distance of 24 km. The peak operating current for the Sorda feeder from Aska GSS exceeds 269 A. Due to the varying load requirements between Aska GSS and Dharakote, the conductor size currently consists of a mix of 100 sqmm and 80 sqmm. Considering future load growth, it is

	proposed to upgrade the conductor to 148 sqmm to accommodate the anticipated load. The 33 kV Dharakote feeder supplies power to Dharakote PSS, Balisira PSS, Khariguma PSS, and Jahada PSS. It also supports two Megalift connections at Haripur and Patapur, as well as the Janhibili PHD water supply. The feeder serves a consumer base of 31,056 customers. The existing conductor is old, with multiple joints, leading to poor reliability. The degraded condition of the conductor in the trunk section poses challenges in maintaining a stable power supply. To address load growth over the next 3 to 5 years, it is proposed to upgrade at least 5 km of the incoming 33 kV line from the Aska 4P structure to Dharakote PSS with a 148 sqmm conductor. This upgrade will enhance reliability, reduce line losses, and support future load demands.

Sr No	23
Circle-Division	ASKA- AED 1
33 kV Feeder Name	KB Pur Feeder
Considered Length (CKM)	3.9
Peak Load (Amp.)	262
Existing Conductor (Sq.mm)	80
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.61
Location From-To	KB Pur MBS Cola to Balisira PSS
Considered Year	2027
Technical Justification	Currently, Balisira Primary Substation (PSS) is served by a single 33 kV line from Aska Old GSS by Sorda 33 kV line, tapped at the Aska 4P structure. Balisira PSS supplies three 11 kV feeders and serves 9,595 consumers. Important to note that, The Sorda 33 kV line also supplies four other 33/11 kV PSS, including Balisira PSS, leading to prolonged interruptions during breakdowns and

	maintenance. To address this, an N-1 link line from KB Pur (Bhanjanagar Division) to Balisira PSS was proposed under CAPEX-23. The KB Pur to MBC Cola section of the line has been completed by the Bhanjanagar Division, but the remaining line under Aska division pending. Due to right-of-way (ROW) issues. The ROW issues have now been resolved, and a proposal for upgrading 4 circuit kilometers (CKM) of conductor along with intermediate (IM) poles has been made. As half of the KB Pur to Balisira PSS line has been augmented, this line is critical for providing N-1 connectivity to Balisira PSS in the Aska Division.

11kV Line Upgradtion

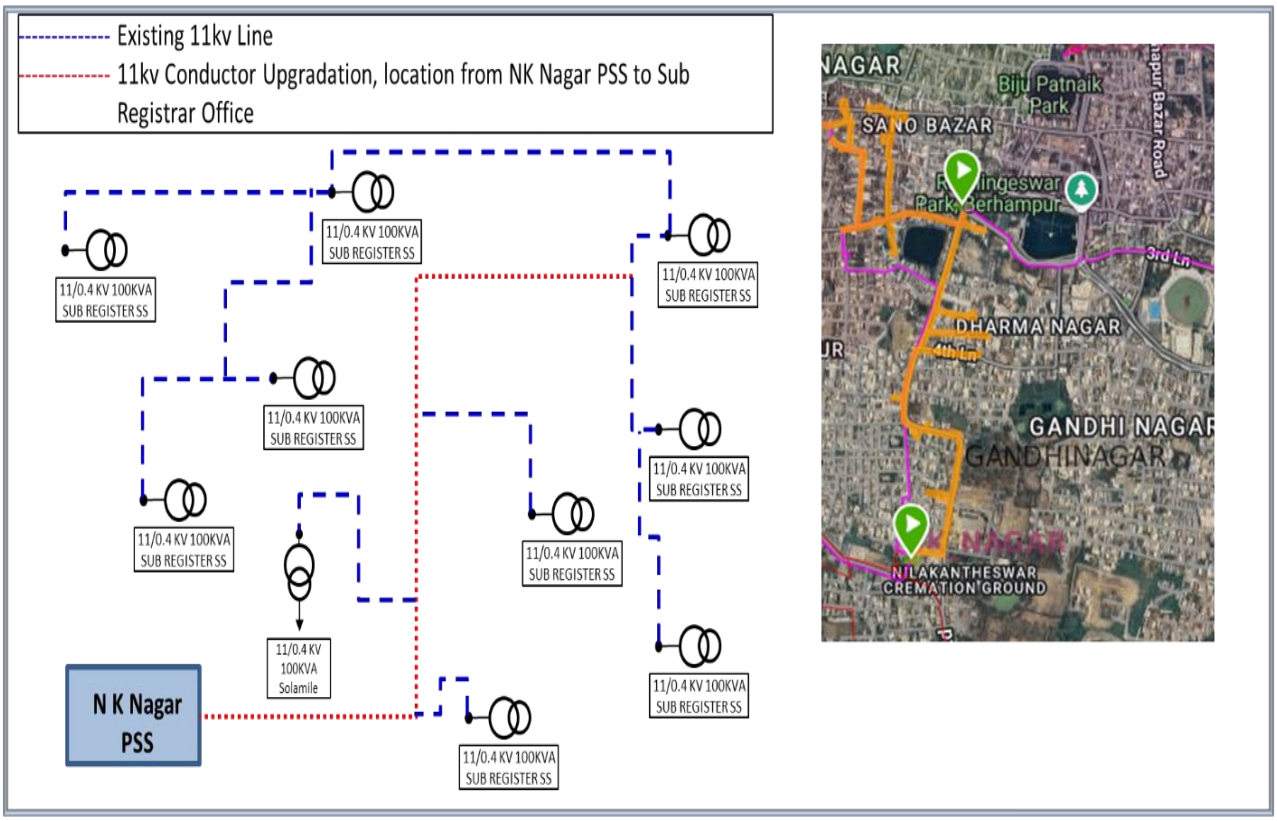
146.Proposal for upgradation of 11 KV Line is broadly categorized in below table.

Table 32 : Category ofupgradation of 11 KV lines

Sr.no	Category of Proposal	Nos.
1	Proposal for overload mitigation	63
2	Proposal for refurbishment of Old aged Network	40
	TOTAL	103

147. Sample SLD for 11KV Line upgradation as mentioned in above table is given below: -

Picture 12 : 11 KV Line upgradation



Sr No	1
Circle-Division	Aska-AED-1
11 kV Feeder Name	Mukundapur
Considered Length (CKM)	2
Peak Load (Amp.)	202
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.14
Location From-To	1) Dhobapalli AB switch to Village
Considered Year	2027

Technical Justification	Mukundapur feeder emanates from Nuagam PSS. Total length of the feeder is 49.5 Ckm. Supplying to approx. 6400 nos. of consumers. Peak load of the feeder is 202 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 80 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**2**
Circle-Division	Aska-AED-I
11 kV Feeder Name	Nimina
Considered Length (CKM)	2
Peak Load (Amp.)	88
Existing Conductor (Sq.mm)	34 & 55
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.49
Location From-To	1) Balisira PSS to Kendupadar
Considered Year	2027
Technical Justification	Nimina feeder emanates from Balisira PSS. Total length of the feeder is 39.9 Ckm. Supplying to approx. 4596 nos. of consumers. Peak load of the feeder is 88 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 & 55 sq.mm size to 80 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**3**
Circle-Division	Aska-AED-I
11 kV Feeder Name	College square
Considered Length (CKM)	0.2
Peak Load (Amp.)	162

Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.27
Location From-To	1) Choudury nagar Square to DSS
Considered Year	2027
Technical Justification	College square feeder emanates from Nuagam PSS. Total length of the feeder is 29 Ckm. Supplying to approx. 5214 Nos of consumers. Peak load of the feeder is 162 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Choudury Nagar square to DSS. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (34 Sqmm to 80 Sqmm) is planned under identified section.

Sr No	**4**
Circle-Division	Aska-AED-II
11 kV Feeder Name	Bolosara
Considered Length (CKM)	0.5
Peak Load (Amp.)	96
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.04
Location From-To	Hindal Near HTA2201-17/24
Considered Year	2027
Technical Justification	Bolosara feeder emanates from K S Nagar PSS. Total length of the feeder is 16 Ckm. Supplying to approx. 2865 nos. of consumers. Peak load of the feeder is 96 Amps. Hence to meet current load and considering the future load growth and enhance operational flexibility, ensure safety refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In

addition to conductor upgradation line strengthening is also planned.

Sr No	5
Circle-Division	Aska-AED-II
11 kV Feeder Name	Golia
Considered Length (CKM)	1.4
Peak Load (Amp.)	72
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.11
Location From-To	Buguda PSS-Banjar
Considered Year	2027
Technical Justification	The 11kv Golia feeder emanates from Buguda PSS. Total length of the feeder is 48 Ckm. Supplying to approx. 3598 nos. of consumers. Peak load of the feeder is 72 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Buguda PSS to Banjar. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section.

Sr No	6
Circle-Division	Aska-AED-II
11 kV Feeder Name	Gudiali
Considered Length (CKM)	0.6
Peak Load (Amp.)	96
Existing Conductor (Sq.mm)	34

Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.05
Location From-To	1) K S Nagar PSS to Harijan Street Trunk Line
Considered Year	2027
Technical Justification	Gudiali feeder emanates from K S Nagar PSS. Total length of the feeder is 34 Ckm. Supplying to approx. 4180 nos. of consumers. Peak load of the feeder is 96 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	7
Circle-Division	Aska-AED-II
11 kV Feeder Name	Budhamba
Considered Length (CKM)	0.8
Peak Load (Amp.)	37
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.06
Location From-To	1) Deogam CP to Crusher & Village
Considered Year	2027
Technical Justification	Budhamba feeder emanates from Budhamba PSS. Total length of the feeder is 7 Ckm. Supplying to approx. 1590 nos. of consumers. Peak load of the feeder is 37 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Deogam CP to Crusher & Village. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 80 sq.mm is proposed under identified section.

Sr No	8
Circle-Division	Aska-AED-II
11 kV Feeder Name	Pangidi
Considered Length (CKM)	1.2
Peak Load (Amp.)	86
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.34
Location From-To	1) Pangidi AB Switch to Sakuntala Vihar
Considered Year	2027

Technical Justification	Pangidi feeder emanates from Buguda PSS. Total length of the feeder is 26 Ckm. Supplying to approx. 3165 nos. of consumers. Peak load of the feeder is 86 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**9**
Circle-Division	Aska-AED-II
11 kV Feeder Name	A. Kardabadi
Considered Length (CKM)	0.4
Peak Load (Amp.)	51
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.03
Location From-To	1) Kharida Village to DSS End Point
Considered Year	2027
Technical Justification	A. Kardabadi feeder emanates from Balipadar PSS. Total length of the feeder is 25 Ckm. Supplying to approx. 4358 Nos of consumers. Peak load of the feeder is 51 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Kharida Village to DSS End Point. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (34 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	10
Circle-Division	Aska-AED-II
11 kV Feeder Name	Athagada Patna
Considered Length (CKM)	0.3
Peak Load (Amp.)	33
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.02
Location From-To	1) Main Road to SBI Near Pond
Considered Year	2027
Technical Justification	The 11kv Athagada Patna feeder emanates from Budhamba PSS. Total length of the feeder is 18 Ckm. Supplying to approx. 1314 nos. of consumers. Peak load of the feeder is 33 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Buguda PSS to Banjar. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 80 sq.mm is proposed under identified section.

Sr No	11
Circle-Division	Aska-AED-II
11 kV Feeder Name	Athagada Patna
Considered Length (CKM)	0.5
Peak Load (Amp.)	33
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.03
Location From-To	Pathrapalli CP Near HTA2202-13/22
Considered Year	2027
Technical Justification	Athagada Patna feeder emanates from Budhamba PSS. Total length of the feeder is 8

	Ckm. Supplying to approx. 1314 nos. of consumers. Peak load of the feeder is 33 Amps. Hence to meet current load and considering the future load growth and enhance operational flexibility, ensure safety refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 80 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	12
Circle-Division	Aska-Digapahandi (GSED)
11 kV Feeder Name	Krushnanagar
Considered Length (CKM)	2.4
Peak Load (Amp.)	47
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.17
Location From-To	Krushnanagar to Erendra
Considered Year	2027
Technical Justification	Krushnanagar feeder emanates From Pitatali PSS. Total length of the feeder is 23 Ckm. Supplying to approx. 1282 Nos of consumers. Peak load of the feeder is 47 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Krushnanagar to Erendra. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (34 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	13
Circle-Division	Aska-Digapahandi (GSED)
11 kV Feeder Name	Jakara

Considered Length (CKM)	2.4
Peak Load (Amp.)	62
Existing Conductor (Sq.mm)	35
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.17
Location From-To	1. karapada tapping to hatiadi 2. Hatiadi to Nua Bandhapalli
Considered Year	2027
Technical Justification	Jakara feeder emanates From Dekhali PSS. Total length of the feeder is 26 Ckm. Supplying to approx. 1800 Nos of consumers. Peak load of the feeder is 15 Amps. It is observed that part of section is of 35 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section karapada tapping to hatiadi, Nua Bandhapalli. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (35 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	**14**
Circle-Division	City-BED-1
11 kV Feeder Name	Haripur
Considered Length (CKM)	3.4
Peak Load (Amp.)	100
Existing Conductor (Sq.mm)	80
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.42
Location From-To	1) Agraham to Hariapalli 2) S Paikapada to B paikapada
Considered Year	2027
Technical Justification	Haripur feeder emanates from Gopalpur PSS. Total length of the feeder is 26.4 Ckm. Supplying to approx. 2937 nos. of consumers. Peak load of the feeder is 100 Amps. Hence to meet current load and considering the future load growth,

	refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	15
Circle-Division	City-BED-1
11 kV Feeder Name	Ambapua
Considered Length (CKM)	1
Peak Load (Amp.)	178
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.12
Location From-To	1) Sradhaballi 2nd lane 315kVA to samrat vidya mandir
Considered Year	2027
Technical Justification	Ambapua feeder emanates from Ambapua PSS. Total length of the feeder is 12.5 Ckm. Supplying to approx. 4330 nos. of consumers. Peak load of the feeder is 178 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	16
Circle-Division	City-BED 1
11 kV Feeder Name	Karapalli
Considered Length (CKM)	1.9
Peak Load (Amp.)	95
Existing Conductor (Sq.mm)	55/80
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.24

Location From-To	1. Bhanjavihar PSS-Gopalpur Road
Considered Year	2027
Technical Justification	Tata Colony feeder emanates From Bhanjavihar PSS. Total length of the feeder is 14.9 Ckm. Supplying to approx. 3751 Nos of consumers. Peak load of the feeder is 89 Amps. It is observed that part of section is of 55 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Bhanjavihar PSS to Gopalpur road. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (55 Sqmm Size To 100 Sqmm) is planned under identified section.

Sr No	**17**
Circle-Division	City-BED-1
11 kV Feeder Name	Nigam Nagar
Considered Length (CKM)	1.5
Peak Load (Amp.)	111
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.19
Location From-To	1) Over bridge to Nigam Nagar 4t Lane
Considered Year	2027
Technical Justification	Nigam Nagar feeder emanates from Ankuli PSS. Total length of the feeder is 2.6 Ckm. Supplying to approx. 2261 nos. of consumers. Peak load of the feeder is 111 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	18
Circle-Division	City-BED 1
11 kV Feeder Name	Goodshed
Considered Length (CKM)	2
Peak Load (Amp.)	50
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.29
Location From-To	1. Goodshed PSS to Over bridge
Considered Year	2027
Technical Justification	Goodshed feeder emanates From Goodshed PSS. Total length of the feeder is 1.8 Ckm. Supplying to approx. 1196 Nos of consumers. Peak load of the feeder is 50 Amps. It is observed that part of section is of 34 & 55 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section of Station road. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Furthermore, this feeder will provide N-1 supply to 11kV HIG feeder (168A) emanates from NK Nagar PSS and and 11kV Lanjipalli feeder (190A) emanates from Goodshed PSS during exigency condition. Hence network refurbishment and upgradation (34 & 55 Sqmm Size To 148 Sqmm) is planned under identified section.

Sr No	19
Circle-Division	City-BED-1
11 kV Feeder Name	Hilpatna
Considered Length (CKM)	3.1
Peak Load (Amp.)	155
Existing Conductor (Sq.mm)	34, 55 & 80
UpgradedConductor (Sq.mm)	148
Project Cost (Cr.)	0.46
Location From-To	1) Goodshed PSS to Railway crossing

Considered Year	2027
Technical Justification	Hilpatna feeder emanates from Goodshed PSS. Total length of the feeder is 5.1 Ckm. Supplying to approx. 3107 nos. of consumers. Peak load of the feeder is 155 Amps. Furthermore, this feeder will provide N-1 supply to 11kV Gosaninuagaon feeder (204A) emanates from NK Nagar PSS during exigency condition. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34, 55 & 80 sq.mm size to 148 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**20**
Circle-Division	City-BED-1
11 kV Feeder Name	Lanjipalli
Considered Length (CKM)	1.6
Peak Load (Amp.)	170
Existing Conductor (Sq.mm)	55 & 80
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.24
Location From-To	1) Goodshed PSS to Shiv temple
Considered Year	2027
Technical Justification	Lanjipalli feeder emanates from Goodshed PSS. Total length of the feeder is 5.1 Ckm. Supplying to approx. 4610 nos. of consumers. Peak load of the feeder is 180 Amps. Furthermore, this feeder will provide N-1 supply to 11kV Chandimandira feeder (130A) emanates from Ankuli PSS and 11kV Hilpatna feeder (155A) emanates from Goodshed PSS during exigency condition. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor

	size of 55 & 80 sq.mm size to 148 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	21
Circle-Division	City-BED-1
11 kV Feeder Name	Tata Benz
Considered Length (CKM)	2.4
Peak Load (Amp.)	220
Existing Conductor (Sq.mm)	55, 80 & 100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.60
Location From-To	1) PSS to New Busstand 2) Natabar nagar - KC Public School
Considered Year	2027
Technical Justification	Tata Benz feeder emanates from Medical PSS. Total length of the feeder is 9.5 Ckm. Supplying to approx. 5205 nos. of consumers. Peak load of the feeder is 220 Amps. Furthermore, this feeder will provide N-1 supply to 11kV Courtpeta feeder (240A) emanates from Medical PSS and 11kV Townhall feeder (200A) emanates from Medical PSS during exigency condition. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55, 80 & 100sq.mm size to 148 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	22
Circle-Division	City-BED-1
11 kV Feeder Name	Old Bus Stand
Considered Length (CKM)	2.4
Peak Load (Amp.)	200

Existing Conductor (Sq.mm)	34, 55, 80 & 100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.60
Location From-To	Medical PSS - Abhiram Matha and Berhampur Stadium
Considered Year	2027
Technical Justification	Old Busstand feeder emanates from Medical PSS. Total length of the feeder is 5.6 Ckm. Supplying to approx. 2371 nos. of consumers. Peak load of the feeder is 200 Amps. Furthermore, this feeder will provide N-1 supply to 11kV Tata Benz feeder (220A) emanates from Medical PSS and 11kV Townhall feeder (200A) emanates from Medical PSS during exigency condition. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34, 55, 80 & 100sq.mm size to 148 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**23**
Circle-Division	City-BED-1
11 kV Feeder Name	Town Hall
Considered Length (CKM)	2.4
Peak Load (Amp.)	200
Existing Conductor (Sq.mm)	34, 55, 80 & 100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.6
Location From-To	1) Medical PSS to Gate Bazar chowk. 2) Vishal chowk to Kargil petrol Pump. 3) Canal St to Swarnamayee Nagar
Considered Year	2027

Technical Justification	Town Hall feeder emanates from Medical PSS. Total length of the feeder is 5 Ckm. Supplying to approx. 4943 nos. of consumers. Peak load of the feeder is 200 Amps. Furthermore, this feeder will provide N-1 supply to 11kV Old Bus Stand feeder (200A) emanates from Medical PSS and 11kV Tata Benz feeder (220A) emanates from Medical PSS during exigency condition. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34, 55, 80 & 100sq.mm size to 148 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**24**
Circle-Division	City-BED-1
11 kV Feeder Name	Kamapalli
Considered Length (CKM)	1.2
Peak Load (Amp.)	150
Existing Conductor (Sq.mm)	55, 80 & 100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.18
Location From-To	Medical PSS - Bhabanagar Pond
Considered Year	2027
Technical Justification	Kamapalli feeder emanates from Medical PSS. Total length of the feeder is 4.3 Ckm. Supplying to approx. 3257 nos. of consumers. Peak load of the feeder is 150 Amps. Furthermore, this feeder will provide N-1 supply to 11kV Courtpeta feeder (240A) emanates from Medical PSS and 11kV Ayodhya Nagar feeder (120A) emanates from Bidyutpuri PSS during exigency condition. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55, 80 & 100sq.mm size to 148 sq.mm is proposed under identified section. In addition to

	conductor upgradation line strengthening is also planned.

Sr No	25
Circle-Division	City-BED-1
11 kV Feeder Name	Courtpeta
Considered Length (CKM)	2
Peak Load (Amp.)	240
Existing Conductor (Sq.mm)	55, 80 & 100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	1.53
Location From-To	1) Medical PSS to auditorium junction 2) Kamapalli chowk to pantaloons
Considered Year	2027
Technical Justification	Courtpeta feeder emanates from Medical PSS. Total length of the feeder is 7.8 Ckm. Supplying to approx. 4333 nos. of consumers. Peak load of the feeder is 240 Amps. Furthermore, this feeder will provide N-1 supply to 11kV Tata Benz feeder (220A) emanates from Medical PSS and 11kV Ayodhya Nagar feeder (120A) emanates from Bidyutpuri PSS during exigency condition. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55, 80 & 100sq.mm size to 148 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	26
Circle-Division	City-BED-2
11 kV Feeder Name	Gandhinagar II
Considered Length (CKM)	1.2
Peak Load (Amp.)	311
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148

Project Cost (Cr.)	0.18
Location From-To	NK NAGAR PSS TO PANCHANAN NAGAR 4 POLE
Considered Year	2027
Technical Justification	Gandhinagar II stand feeder emanates from NK Nagar PSS. Total length of the feeder is 6.23 Ckm. Supplying to approx. 6533 nos. of consumers. Peak load of the feeder is 311 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of conductor size of 100 sq.mm size to 148 sq.mm is proposed. In addition to conductor upgradation line strengthening is also planned.

Sr No	**27**
Circle-Division	City-BED-2
11 kV Feeder Name	OLD BERHAMPUR
Considered Length (CKM)	1.5
Peak Load (Amp.)	305
Existing Conductor (Sq.mm)	35
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.19
Location From-To	JASODA NAGAR TO GOURANGA VIHAR
Considered Year	2027
Technical Justification	Old Berhampur feeder emanates from Ambagada PSS. Total length of the feeder is 8.10 Ckm. Supplying to approx. 8781 nos. of consumers. Peak load of the feeder is 305 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of conductor size of 35 sq.mm size to 100 sq.mm is proposed. In addition to conductor upgradation line strengthening is also planned.

Sr No	**28**
Circle-Division	City-BED-2

11 kV Feeder Name	Housing Board
Considered Length (CKM)	0.7
Peak Load (Amp.)	231
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.1
Location From-To	NK NAGAR PSS TO PRUSTY COLONY
Considered Year	2027
Technical Justification	Housing Board feeder emanates from NK Nagar PSS. Total length of the feeder is 4.048 Ckm. Supplying to approx. 6657 nos. of consumers. Peak load of the feeder is 231 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of conductor size of 100 sq.mm size to 148 sq.mm is proposed. In addition to conductor upgradation line strengthening is also planned.

Sr No	**29**
Circle-Division	City-BED-2
11 kV Feeder Name	Gandhinagar I
Considered Length (CKM)	1.5
Peak Load (Amp.)	152
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.22
Location From-To	NK NAGAR PSS TO SUB-REGISTRAR OFFICE
Considered Year	2027
Technical Justification	Gandhinagar, I stand feeder emanates from NK Nagar PSS. Total length of the feeder is 2.9 Ckm. Supplying to approx. 3285 nos. of consumers. Peak load of the feeder is 152 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of conductor size of 100 sq.mm size to 148 sq.mm is proposed. In addition to conductor upgradation line strengthening is also planned.

Sr No	30
Circle-Division	City-BED-2
11 kV Feeder Name	ASKA ROAD
Considered Length (CKM)	1.9
Peak Load (Amp.)	143
Existing Conductor (Sq.mm)	80 SQMM + 35 SQMM
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.28
Location From-To	1.AMBAGADA PSS to 1ST GATE CHHAKA TO DIGAPAHANDI DSS + 2. 1ST GATE CHHAKA TO BSNL TOWER
Considered Year	2027
Technical Justification	Aska Road Feeder emanates from Ambagada PSS. Total length of the feeder is 7Ckm. Supplying to approx. 5173 nos. of consumers. Peak load of the feeder is 143 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of conductor size of 80sqmm + 35sqmm to 100 sq.mm is proposed. In addition to conductor upgradation line strengthening is also planned.

Sr No	31
Circle-Division	City-BED-2
11 kV Feeder Name	CITY HOSPITAL
Considered Length (CKM)	0.6
Peak Load (Amp.)	136
Existing Conductor (Sq.mm)	35
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.07
Location From-To	1. HARSHA VIHAR 3RD LANE TO SANJIVANI VIHAR
Considered Year	2027

Technical Justification	City Hospital Feeder emanates from Ambagada PSS. Total length of the feeder is 6.1Ckm. Supplying to approx. 4409 nos. of consumers. Peak load of the feeder is 136 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of conductor size 35sqmm to 100 sq.mm is proposed. In addition to conductor upgradation line strengthening is also planned.

Sr No	**32**
Circle-Division	City-BED-2
11 kV Feeder Name	CITY HOSPITAL
Considered Length (CKM)	0.5
Peak Load (Amp.)	136
Existing Conductor (Sq.mm)	35
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.06
Location From-To	1. GAYATRI VIHAR CHHAKA TO CITY BAR
Considered Year	2027
Technical Justification	City Hospital Feeder emanates from Ambagada PSS. Total length of the feeder is 6.1Ckm. Supplying to approx. 4409 nos. of consumers. Peak load of the feeder is 136 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of conductor size 35sqmm to 100 sq.mm is proposed. In addition to conductor upgradation line strengthening is also planned.

Sr No	**33**
Circle-Division	City-BED-II
11 kV Feeder Name	Autonagar
Considered Length (CKM)	1.9
Peak Load (Amp.)	11
Existing Conductor (Sq.mm)	35
Upgraded Conductor (Sq.mm)	100

Project Cost (Cr.)	0.24
Location From-To	1. AMBAGADA PSS TO BHARAT PETROL PUMP
Considered Year	2027
Technical Justification	Autonagar feeder emanates From Ambagada PSS. Total length of the feeder is 1.4 Ckm. Supplying to approx. 291 Nos of consumers. Peak load of the feeder is 11 Amps. It is observed that part of section is of 35 Sq.mm conductor and there is frequent conductor snapping due to ageing. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (35 Sqmm Size To 100 Sqmm) is planned under identified section.

Sr No	**34**
Circle-Division	City- BED-III
11 kV Feeder Name	Tulu
Considered Length (CKM)	3.4
Peak Load (Amp.)	218.44
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.42
Location From-To	Tulu village - Markandi
Considered Year	2027
Technical Justification	Tulu feeder emanates from Kanisi PSS. Total length of the feeder is 65Ckm. Supplying to approx.6999 nos. of consumers. Peak load of the feeder is 218.44 Amps. There are large nos. of conductor joints observed which Causes frequent conductor snapping. Hence to meet current load and considering the future load growth and to avoid frequent conductor snapping due to overload and ageing of conductor, upgradation of only trunk & Branch section with conductor size of

	55& 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	35
Circle-Division	City- BED-III
11 kV Feeder Name	11KV Lochapada
Considered Length (CKM)	2
Peak Load (Amp.)	210
Existing Conductor (Sq.mm)	100
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.29
Location From-To	PSS- Hanuman Temple
Considered Year	2027
Technical Justification	Lochapada feeder emanates from Nimakhandi PSS. Total length of the feeder is 13 Ckm. Supplying to approx. 7055 nos. of consumers. Peak load of the feeder is 210 Amps. Hence to meet current load and considering the future load growth from existing 100 sqmm conductor to size to 148 sq.mm is proposed under identified section. During exigency condition 11KV Lochapada & Some portion of 11KV Nimakhandi feeder load cater. so, required to upgrade conductor from 100 sqmm to 148 sqmm in identify section. Hence to meet current load and considering the future load growth and to avoid frequent conductor snapping due to overload , upgradation of only trunk with conductor size of 100 sq.mm size to 148 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	36
Circle-Division	City- BED-III
11 kV Feeder Name	Nimakhandi
Considered Length (CKM)	2.4

Peak Load (Amp.)	181
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.30
Location From-To	Shrikhetra vihar area
Considered Year	2027
Technical Justification	Nimakhandi feeder emanates from Nimakhandi PSS.Total length of the feeder is 22.82 Ckm. Supplying to approx. 2940 nos. of consumers. Peak load of the feeder is 181 Amps.There are large nos. of conductor joints observed which Causes frequent conductor snapping. Hence to meet current load and considering the future load growth and to avoid frequent conductor snapping due to overload and ageing of conductor, upgradation of conductor size 55&34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**37**
Circle-Division	City- BED-III
11 kV Feeder Name	Kukudakhandi
Considered Length (CKM)	2.4
Peak Load (Amp.)	129
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.30
Location From-To	PSS to NH Tapping Pole 2-Budhighera temple - Thakurni Temple to Jaganath Temple
Considered Year	2027
Technical Justification	Kukudakhandi feeder emanates from Kukudakhandi PSS. Total length of the feeder is 19Ckm. Supplying to approx.2839 nos. of consumers. Peak load of the feeder is 129 Amps. There are large nos. of conductor joints observed

	which Causes frequent conductor snapping. Hence to meet current load and considering the future load growth and to avoid frequent conductor snapping due to overload and ageing of conductor, upgradation of only trunk & Branch section with conductor size of 55& 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	38
Circle-Division	City- BED-III
11 kV Feeder Name	Sorola
Considered Length (CKM)	3.4
Peak Load (Amp.)	110
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.42
Location From-To	PSS-BADI CHAKARWSS
Considered Year	2027
Technical Justification	Sorola feeder emanates from Jagapur PSS. Total length of the feeder is 75Ckm. Supplying to approx. 11149 Nos of consumers. Peak load of the feeder is 110 Amps. It is observed that part of section is of 55 & 34 Sq.mm. Due to future load growth consider existing conductor due not cater the load. existing 11KV Sorola feeder in summer fault count 179 Nos. Due to load growth & interruption network refurbishment and upgradation (55 & 34 Sqmm Size To 100 Sqmm) is planned under identified section.

Sr No	39
Circle-Division	City- BED-III
11 kV Feeder Name	Sorola
Considered Length (CKM)	1
Peak Load (Amp.)	110

Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.12
Location From-To	Sorola Village
Considered Year	2027
Technical Justification	Sorola feeder emanates from Jagapur PSS. Total length of the feeder is 75Ckm. Supplying to approx. 11149 Nos of consumers. Peak load of the feeder is 110 Amps. It is observed that part of section is of55 & 34 Sq.mm conductor and there is. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators & Interruption count in summer 179 Nos. & to Cater load growth etc. Hence network refurbishment and upgradation (55 & 34 Sqmm Size To 100 Sqmm) is planned under identified section.

Sr No	**40**
Circle-Division	City- BED-III
11 kV Feeder Name	Sorola
Considered Length (CKM)	1
Peak Load (Amp.)	110
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.12
Location From-To	Kumarbandha - Ramyapatana liquor shop
Considered Year	2027
Technical Justification	Sorola feeder emanates from Jagapur PSS. Total length of the feeder is 75Ckm. Supplying to approx. 11149 Nos of consumers. Peak load of the feeder is 110 Amps. It is observed that part of section is of55 & 34 Sq.mm conductor and there is. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators, conductor snapping due to old ages & Interruption count in this summer 179 Nos. & also

	cater load growth etc. Hence network refurbishment and upgradation (34 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	41
Circle-Division	City- BED-III
11 kV Feeder Name	Lathi
Considered Length (CKM)	3.4
Peak Load (Amp.)	93.64
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.42
Location From-To	Mahonara- Bagalhati Kumarpur- Badakusumi
Considered Year	2027
Technical Justification	Lathi feeder emanates from Lathi PSS. Total length of the feeder is 22Ckm. Supplying to approx.3304 Nos of consumers. Peak load of the feeder is 93.64 Amps. Hence to meet current load and considering the future load growth and to avoid frequent conductor snapping due to overload and ageing of conductor, upgradation of only trunk & Branch section with conductor size of 55& 34 sq.mm size to 80 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned. Joint between section. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (55 & 34 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	42
Circle-Division	City- BED-III
11 kV Feeder Name	Nimakhandi
Considered Length (CKM)	3.4

Peak Load (Amp.)	181
Existing Conductor (Sq.mm)	100 & 55
Upgraded Conductor (Sq.mm)	148
Project Cost (Cr.)	0.5
Location From-To	PSS- Water supply 25KVA
Considered Year	2027
Technical Justification	11KV Nimakhandi Feder originate from Nimakhandi PSS. Loading of feeder 181 A. Hence to meet current load and considering the future load growth and to avoid frequent conductor snapping due to overload and upgradation of only trunk with conductor size of 100 & 55sq.mm size to 148 sq.mm is proposed under identified section. Existing 11KV Nimakhandi Feeder N-1 arrangement with Lochapada feeder, Ankushpur Feeder, Guranthi feeder due to future load growth & during exigency condition load divert into 11KV Nimakhandi. So, refurbishment of 11KV Nimakhandi feeder is required

Sr No	**43**
Circle-Division	City- BED-III
11 kV Feeder Name	Sorola
Considered Length (CKM)	2.5
Peak Load (Amp.)	110
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.19
Location From-To	Sanaeksingh Hanuman Temple - Para Pentha ODRP
Considered Year	2027
Technical Justification	Sorola feeder emanates from Jagapur PSS. Total length of the feeder is 75Ckm. Supplying to approx. 11149 Nos of consumers. Peak load of the feeder is 110 Amps. It is observed that part of section is of 55 & 34 Sq.mm conductor and there is. There are also issues observed such as tilted pole,

	low clearance due to high span, damaged insulators, conductor snapping due to old ages & Interruption count in this summer 179 Nos. & also cater load growth etc. Hence network refurbishment and upgradation (34 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	44
Circle-Division	City- BED-III
11 kV Feeder Name	Randha
Considered Length (CKM)	2.4
Peak Load (Amp.)	127
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.29
Location From-To	PSS- Near OBSC Berhampur Odisha Tulu Road Near OM BBS College of Nursing- Tail end
Considered Year	2027
Technical Justification	Randha feeder emanates from Kanisi PSS. Total length of the feeder is 15.5 Ckm. Supplying to approx.2551 nos. of consumers. Peak load of the feeder is 127 Amps. There are large nos. of conductor joints observed which Causes frequent conductor snapping. Hence to meet current load and considering the future load growth and to avoid frequent conductor snapping due to overload and ageing of conductor, upgradation of only trunk & Branch section with conductor size of 55& 34 sq.mm size to 80 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned

Sr No	45
Circle-Division	City BED-III
11 kV Feeder Name	Bhairabi
Considered Length (CKM)	2.5
Peak Load (Amp.)	52

Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.31
Location From-To	PSS- feeder tail end near Biswanathpur Road
Considered Year	2027
Technical Justification	11KV Bhairabi feeder originate from Mantridi PSS. Existing load of feeder 52 A. Existing length of feeder 18 Ckm, existing consumer in feeder 1501 Nos. It is observed that part of section is of 55 & 34Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (55 & 34 sqmm To 100 Sqmm) is planned under identified section.

Sr No	**46**
Circle-Division	City BED-III
11 kV Feeder Name	NIST
Considered Length (CKM)	3.4
Peak Load (Amp.)	52.53
Existing Conductor (Sq.mm)	55 & 34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.42
Location From-To	PSS to Tapping of NIST & Golanthara Feeder
Considered Year	2027
Technical Justification	11KV NIST feeder originate from Mantridi PSS. Existing load of feeder 52.53A. Existing length of feeder 16 Ckm, existing consumer in feeder 1120 Nos. It is observed that part of section is of 55 & 34Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network

	refurbishment and upgradation (55 & 34 sqmm to 100 Sqmm) is planned under identified section.

Sr No	47
Circle-Division	Bhanjanagar-BnEd
11 kV Feeder Name	Bhanjanagar Town
Considered Length (CKM)	0.6
Peak Load (Amp.)	192.26
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.32
Location From-To	HATIBANDO CUT POINT TO LINE AB SWITCH
Considered Year	2027
Technical Justification	Bhanjanagar Town Feeder emanates from Bhejiput PSS. Peak load of the feeder is 192 Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 9.4 CKM. The feeder is providing supply to 5525 customers at present with critical consumers such as Hospital, court, police station, block office, schools, colleges and other important consumers.
	The feeder load is continuously increasing and to cater the future load growth conductor upgradation and strengthening of the feeder is very much needed.
	This proposal will improve the reliability in the area & enhance customer satisfaction; it will also be able to cater the future load growth.

Sr No	48
Circle-Division	Bhanjanagar-BnEd
11 kV Feeder Name	Bhanjanagar Town
Considered Length (CKM)	0.4
Peak Load (Amp.)	192.26
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.54
Location From-To	SUB COLLECTOR OFFICE TO UB HIGH SCHOOL
Considered Year	2027

Technical Justification	Bhanjanagar Town Feeder emanates from Bhejiput PSS. Peak load of the feeder is 192 Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 9.4 CKM. The feeder is providing supply to 5525 consmers at present with critical consumers such as Hospital, court, police station, block office, schools, colleges and other important consumers. The feeder load is continuously increasing and to cater the future load growth conductor upgradation and strengthening of the feeder is very much needed. This proposal will improve the reliability in the area & enhance customer satisfaction; it will also be able to cater the future load growth.

Sr No	**49**
Circle-Division	Bhanjanagar-BnEd
11 kV Feeder Name	Bhanjanagar Town
Considered Length (CKM)	0.6
Peak Load (Amp.)	192.26
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.32
Location From-To	BODOTUTA SHAI TO TPWN 500 KVA S/S
Considered Year	2027
Technical Justification	Bhanjanagar Town Feeder emanates from Bhejiput PSS. Peak load of the feeder is 192 Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 9.4 CKM. The feeder is providing supply to 5525 consumers at present with critical consumers such as Hospital, court, police station, block office, schools, colleges and other important consumers. The feeder load is continuously increasing and to cater the future load growth conductor upgradation and strengthening of the feeder is very much needed. This proposal will improve the reliability in the area & enhance customer satisfaction, it will also be able to cater the future load growth.

Sr No	50
Circle-Division	Bhanjanagar-BnEd
11 kV Feeder Name	Bhanjanagar Town
Considered Length (CKM)	0.6
Peak Load (Amp.)	192.26
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.07
Location From-To	Girls HS sq -Town hall back side
Considered Year	2027
Technical Justification	Bhanjanagar Town Feeder emanates from Bhejiput PSS. Peak load of the feeder is 192 Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 9.4 CKM. The feeder is providing supply to 5525 consumers at present with critical consumers such as Hospital, court, police station, block office, schools, colleges and other important consumers. The feeder load is continuously increasing and to cater the future load growth conductor upgradation and strengthening of the feeder is very much needed. Also, at this part the sagging point also needs to be eliminated with intermediate pole as the part falls on the main road. This proposal will improve the reliability in the area & enhance customer satisfaction; it will also be able to cater the future load growth.

Sr No	51
Circle-Division	Bhanjanagar-BnEd
Existing 11 kV Feeder Name	Gamundi
Considered Length (CKM)	1.5
Peak Load (Amp.)	134.66
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.36
Location From-To	BLOCK OFFICE SQURE TO NIYARA PETROL PUMP
Considered Year	2027

Technical Justification	Gamundi Feeder emanates from Bhejiput PSS. Peak load of the feeder is 135 Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 9.5 CKM. The feeder is providing supply to 4399 customers at present with Key consumers with higher revenue such as New court, Bus Stand, RMC, Jail, Panchayat office and other prominent consumers. The feeder load is continuously increasing as there are continuous plotting going on which is adding new consumers and various market places getting developed and to cater the upcoming load growth conductor upgradation and strengthening of the feeder is very much needed. This proposal will improve the reliability in the area & enhance customer satisfaction; it will also be able to cater the future load growth.

Sr No	**52**
Circle-Division	Bhanjanagar-BnEd
11 kV Feeder Name	Bhanjanagar College
Considered Length (CKM)	1.5
Peak Load (Amp.)	129.6
Existing Conductor (Sq.mm)	35
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.36
Location From-To	CHEDABHUMI ROAD TO SIV MANDIR
Considered Year	2027
Technical Justification	Bhanjanagar College Feeder emanates from Bhejiput PSS. Peak load of the feeder is 130 Amps and conductor size in Trunk line 34sq.mm and Branches 34 sq.mm. Length of the feeder is 11 CKM. The feeder is providing supply to 4654 customers at present with key consumers such as Girls high school, RTO office, School etc The conductor aeging in the feeder is of more than 25 years and is unable to bear the fault current and also the load on the feeder is increasing due to which there is snapping of the conductor occuring frequently which interrupts the power supply.

Sr No	53
Circle-Division	Bhanjanagar-BnEd
11 kV Feeder Name	SORODA TOWN
Considered Length (CKM)	1
Peak Load (Amp.)	105.86
Existing Conductor (Sq.mm)	80
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.37
Location From-To	Surada PSS TO GANICHAKA
Considered Year	2027
Technical Justification	SorodaTown Feeder emanates from Surada PSS. Peak load of the feeder is 106 Amps and conductor size in Trunk line 80sq.mm and Branches 55 sq.mm. Length of the feeder is 9CKM. The feeder is providing supply to 4672 customers at present with critical consumers such as Hospital, court, police station, NAC office, schools, colleges and other important consumers. This part of the feeder is in damage condition and is just starting of the PSS, also the feeder load is continuously increasing, thus to cater the future load growth conductor upgradation and strengthening of the feeder is very much needed. This proposal will improve the reliability in the area & enhance customer satisfaction, it will also be able to cater the future load growth.

Sr No	54
Circle-Division	Bhanjanagar-BnEd
11 kV Feeder Name	Gangapur(Bhanjanagar)
Considered Length (CKM)	1
Peak Load (Amp.)	57.067
Existing Conductor (Sq.mm)	35
Upgraded Conductor (Sq.mm)	80

Project Cost (Cr.)	0.32
Location From-To	Dhudhua Ricemill- 4pole defence colony
Considered Year	2027
Technical Justification	Gangapur (Bhanjanagar) Feeder emanates from Bhejiput PSS. Peak load of the feeder is 58 Amps and conductor size in Trunk line 55sq.mm and Branches 34 sq.mm. Length of the feeder is 15 CKM. The feeder is providing supply to 2429 customer at present. The conductor ageing in the feeder is of more than 25 years and is unable to bear the fault current and also the load on the feeder is increasing due to which there is snapping of the conductor occurring frequently which interrupts the power supply. This proposal will improve the reliability in the area & enhance customer satisfaction, it will also be able to cater the future load growth.

Sr No	**55**
Circle-Division	Bhanjanagar - BoED
11 kV Feeder Name	Biranarsinghpur (BNPur)
Considered Length (CKM)	2
Peak Load (Amp.)	41
Existing Conductor (Sq.mm)	34+55
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.14
Location From-To	1. Nuapada-Barajhuli
Considered Year	2027
Technical Justification	Biranarsinghpur feeder emanates From Rabhikata PSS. Total length of the feeder is 47.5 Ckm. Supplying to approx. 2426 Nos of consumers. Peak load of the feeder is 41 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Nuapada to Barajhuli. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (34 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	56
Circle-Division	BoED-Boudh
11 kV Feeder Name	Baghiapada
Considered Length (CKM)	2.4
Peak Load (Amp.)	53
Existing Conductor (Sq.mm)	34+55
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.17
Location From-To	1. Kanakpur-Katamsingh
Considered Year	2027
Technical Justification	Baghiapada feeder emanates From Baghiapada PSS. Total length of the feeder is 140.9 Ckm. Supplying to approx. 3148 Nos of consumers. Peak load of the feeder is 53 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Kanakpur to Katamsingh. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (34 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	57
Circle-Division	Berhampur-GNED
11 kV Feeder Name	Kanheipur
Considered Length (CKM)	2.4
Peak Load (Amp.)	200
Existing Conductor (Sq.mm)	34/55/80
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.19
Location From-To	1) Khojapalli to Malakhojapalli
Considered Year	2027

Technical Justification	Kanheipur feeder emanates from Kanheipur PSS.Total length of the feeder is 69.24 Ckm. Supplying to approx. 7529 nos. of consumers. Peak load of the feeder is 200 Amps.There is frequent conductor snapping due to ageing and multiple joint between mentioned section. Hence to strengthen the feeder & meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34/55 sq.mm size to 100 sq.mm is proposed under identified section.

Sr No	**58**
Circle-Division	Berhampur-GNED
11 kV Feeder Name	Badamadhapur
Considered Length (CKM)	2.4
Peak Load (Amp.)	127
Existing Conductor (Sq.mm)	34/55
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.29
Location From-To	1. Badamadhapur Village to Hansapur
Considered Year	2027
Technical Justification	Badamadhapur feeder emanates from Baulagaon PSS.Total length of the feeder is 25.49 Ckm. Supplying to approx. 4041 nos. of consumers. Peak load of the feeder is 127 Amps.This feeder also acts as N-1 arrangement for Chatarpur Rural Feeder. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34/55 sq.mm size to 80 sq.mm is proposed from Badamadhapur Village to Hansapur.

Sr No	**59**
Circle-Division	Berhampur-GNED
11 kV Feeder Name	Khallikote Town

Considered Length (CKM)	2.4
Peak Load (Amp.)	127
Existing Conductor (Sq.mm)	34/55
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.29
Location From-To	1) Khallikote PSS to Nirmaljhar/Matia Sahi
Considered Year	2027
Technical Justification	Khallikote Town feeder emanates from Khallikote PSS. Total length of the feeder is 7.15 Ckm. Supplying to approx. 2946 nos. of consumers. Peak load of the feeder is 110 Amps.The feeder provides power supply to NAC Khallikote area having govt. administrative offices, Medical, PHD points. Hence to strengthen the feeder & meet current load/improve reliability and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34/55 sq.mm size to 80 sq.mm is proposed under identified section.

Sr No	**60**
Circle-Division	Berhampur-GNED
11 kV Feeder Name	Khandadeuli
Considered Length (CKM)	4.4
Peak Load (Amp.)	110
Existing Conductor (Sq.mm)	34/55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	1.3
Location From-To	1) Humma PSS to Lauput
Considered Year	2027
Technical Justification	Khandadeuli feeder emanates From Humma PSS. Total length of the feeder is 62.47 Ckm. Supplying to approx. 3529 Nos of consumers. Peak load of the feeder is 110 Amps. It is observed that part of section is of 34/55 Sq.mm conductor and there is frequent conductor snapping due to ageing, multiple joints & saline effect. There is also spike in load due to development of industry at lauput village.Hence network refurbishment and

	upgradation(34/55 SQMM Size To 100 SQMM) is planned under identified section.

Sr No	61
Circle-Division	Berhampur-GNED
11 kV Feeder Name	Shyamsundarpur
Considered Length (CKM)	2
Peak Load (Amp.)	124
Existing Conductor (Sq.mm)	34/55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.16
Location From-To	1)Khallikote PSS to Balukeshwarpur
Considered Year	2027
Technical Justification	Shyamsundarpur feeder emanates from Khallikote PSS. Total length of the feeder is 15 Ckm. Supplying to approx. 3936 nos. of consumers. Peak load of the feeder is 124 Amps. Hence to meet current load and considering the future load growth and to avoid frequent conductor snapping due to overload and ageing of conductor upgradation of only part of trunk section with conductor size of 34/55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	62
Circle-Division	Berhampur-GNED
11 kV Feeder Name	Palur
Considered Length (CKM)	9.4
Peak Load (Amp.)	70
Existing Conductor (Sq.mm)	34/55
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.66
Location From-To	1)Humma Panchayat to Arunpur
Considered Year	2027
Technical Justification	Palur feeder emanates from Humma PSS. Total length of the feeder is 42.72 Ckm. Supplying to approx. 3456 nos. of consumers. Peak load of the

	feeder is 70 Amps.It is observed that section of feeder is with 34/55 Sq.mm conductor and there is frequent conductor snapping due to ageing/saline effect and multiple joint between section Humma Panchayat Office to Arunpur. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (34/55 sqmm. Size To 100 Sqmm) is planned under identified section.

Sr No	63
Circle-Division	Berhampur-HED
11 kV Feeder Name	Badakhandi
Considered Length (CKM)	1
Peak Load (Amp.)	86
Existing Conductor (Sq.mm)	55+34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.08
Location From-To	1. Badakhandi Dss to Rangunipalli Dss
Considered Year	2027
Technical Justification	Badakhandi feeder emanates From Hinjli PSS. Total length of the feeder is 44 Ckm. Supplying to approx. 4646 Nos of consumers. Peak load of the feeder is 86 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Badakhandi DSS to Rangunipalli.There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (55 Sqmm Size To 100 Sqmm) is planned under identified section.

Sr No	64
Circle-Division	Berhampur-HED
11 kV Feeder Name	Padmanvpur
Considered Length (CKM)	1.6
Peak Load (Amp.)	76
Existing Conductor (Sq.mm)	55+34

Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.12
Location From-To	1) Sheragada Block to Jagannathpur
Considered Year	2027
Technical Justification	Padmanvpur feeder emanates from Sheragada PSS. Total length of the feeder is 45 Ckm. Supplying to approx. 4198 nos. of consumers. Peak load of the feeder is 76 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**65**
Circle-Division	Jeypore-JED
11 kV Feeder Name	Jeypore Town
Considered Length (CKM)	2
Peak Load (Amp.)	128
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.2
Location From-To	1) New Bus Stand PSS to VD College
Considered Year	2027
Technical Justification	Jeypore Town feeder emanates from New Bus Stand PSS. Total length of the feeder is 9.5 Ckm. Supplying to approx. 1200 nos. of consumers. Peak load of the feeder is 128Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**66**

Circle-Division	Jeypore-MED
11 kV Feeder Name	Malkangiri Town
Considered Length (CKM)	2
Peak Load (Amp.)	175
Existing Conductor (Sq.mm)	50
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.16
Location From-To	1) Safety Yards to Mallikeswar
Considered Year	2027
Technical Justification	Malkangiri Town feeder emanates from Malkangiri PSS.Total length of the feeder is 12.7 Ckm. Supplying to approx. 3718 nos. of consumers. Peak load of the feeder is 175 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 50 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**67**
Circle-Division	Jeypore-MED
11 kV Feeder Name	DNK
Considered Length (CKM)	2.4
Peak Load (Amp.)	155
Existing Conductor (Sq.mm)	50
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.30
Location From-To	1. PSS TO MAHINSIPADA
Considered Year	2027
Technical Justification	DNK feeder emanates From Malkangiri PSS.Total length of the feeder is 11.44 Ckm. Supplying to approx. 4465 Nos of consumers. Peak load of the feeder is 155 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 50 sq.mm size to 100

	sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	68
Circle-Division	Jeypore-MED
11 kV Feeder Name	MV-07
Considered Length (CKM)	2
Peak Load (Amp.)	140
Existing Conductor (Sq.mm)	50
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.16
Location From-To	1) MV-7 TO CHIDIPALLY AND MV13
Considered Year	2027
Technical Justification	MV-07 feeder emanates from Malkangiri PSS. Total length of the feeder is 120 Ckm. Supplying to approx. 4568 nos. of consumers. Peak load of the feeder is 140 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 50 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	69
Circle-Division	Jeypore-MED
11 kV Feeder Name	Challanguda
Considered Length (CKM)	2
Peak Load (Amp.)	74
Existing Conductor (Sq.mm)	50
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.16
Location From-To	PSS TO CHALLANGUDA
Considered Year	2027
Technical Justification	Challanguda feeder emanates From Malkangiri PSS. Total length of the feeder is 91.47 Ckm.

	Supplying to approx. 2157 Nos of consumers. Peak load of the feeder is 74 Amps. It is observed that part of section is of 55 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section PSS to Challanguda. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (55 Sqmm Size To 100 Sqmm) is planned under identified section.

Sr No	**70**
Circle-Division	Jeypore-MED
11 kV Feeder Name	Old Korkonda
Considered Length (CKM)	2
Peak Load (Amp.)	23
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.40
Location From-To	PSS TO MV-37
Considered Year	2027
Technical Justification	Old Korkonda feeder emanates From Balimela PSS. Total length of the feeder is 38.1 Ckm. Supplying to approx. 1667 Nos of consumers. Peak load of the feeder is 23 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section PSS to MV-37. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (34 Sqmm Size To 100 Sqmm) is planned under identified section.

Sr No	**71**
Circle-Division	Jeypore-NED
11 kV Feeder Name	Turudhi

Considered Length (CKM)	2.5
Peak Load (Amp.)	220
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.19
Location From-To	Jalengapara to Turudhi
Considered Year	2027
Technical Justification	Turdhi feeder emanates from Jodinga PSS. Total length of the feeder is 118 Ckm. Supplying to approx. 4720 nos. of consumers. Peak load of the feeder is 220 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**72**
Circle-Division	Jeypore-NED
11 kV Feeder Name	Chatabeda
Considered Length (CKM)	1.9
Peak Load (Amp.)	181
Existing Conductor (Sq.mm)	100+34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.15
Location From-To	Bharsundi - Chatabeda
Considered Year	2027
Technical Justification	Chhatabeda feeder emanates from Raighar PSS.Total length of the feeder is 145 Ckm. Supplying to approx. 4362 nos. of consumers. Peak load of the feeder is 181 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified

section. In addition to conductor upgradation line strengthening is also planned.

Sr No	73
Circle-Division	Jeypore-NED
11 kV Feeder Name	Gumuda
Considered Length (CKM)	5
Peak Load (Amp.)	129
Existing Conductor (Sq.mm)	100+34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.39
Location From-To	PSS to Junapani
Considered Year	2027
Technical Justification	Gumuda feeder emanates from Dabugam PSS. Total length of the feeder is 254 Ckm. Supplying to approx. 15000 nos. of consumers. Peak load of the feeder is 129 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	74
Circle-Division	Jeypre-NED
11 kV Feeder Name	Umerkote Town
Considered Length (CKM)	2
Peak Load (Amp.)	128
Existing Conductor (Sq.mm)	100+34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.25
Location From-To	Gotiguda – Umerkote PSS
Considered Year	2027

Technical Justification	Umerkote Town feeder emanates from Umerkote PSS. Total length of the feeder is 21 Ckm. Supplying to approx. 6175 nos. of consumers. Peak load of the feeder is 128 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**75**
Circle-Division	Jeypre-NED
11 kV Feeder Name	Hatabharandi
Considered Length (CKM)	2
Peak Load (Amp.)	100
Existing Conductor (Sq.mm)	100+34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.14
Location From-To	Hatabharandi to Marigam
Considered Year	2027
Technical Justification	Hatabharandi feeder emanates from Jodinga PSS. Total length of the feeder is 100 Ckm. Supplying to approx. 5500 nos. of consumers. Peak load of the feeder is 120 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**76**
Circle-Division	Jeypre-NED
11 kV Feeder Name	Parchipara
Considered Length (CKM)	5
Peak Load (Amp.)	95

Existing Conductor (Sq.mm)	100+34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.39
Location From-To	Jodinga - Jadapara
Considered Year	2027
Technical Justification	Pachipara feeder emanates from Jodinga PSS. Total length of the feeder is 78 Ckm. Supplying to approx. 3120 nos. of consumers. Peak load of the feeder is 95 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**77**
Circle-Division	Jeypre-NED
11 kV Feeder Name	Beheda
Considered Length (CKM)	5
Peak Load (Amp.)	90
Existing Conductor (Sq.mm)	100+34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.39
Location From-To	Near PSS – Near khurshi
Considered Year	2027
Technical Justification	Beheda feeder emanates from Beheda PSS. Total length of the feeder is 125 Ckm. Supplying to approx. 4448 nos. of consumers. Peak load of the feeder is 90 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	78
Circle-Division	Jeypre-NED
11 kV Feeder Name	Burja
Considered Length (CKM)	5
Peak Load (Amp.)	82
Existing Conductor (Sq.mm)	100+34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.39
Location From-To	Maulibhata- Near Burja
Considered Year	2027
Technical Justification	Burja feeder emanates from Beheda PSS. Total length of the feeder is 74 Ckm. Supplying to approx. 4224. nos. of consumers. Peak load of the feeder is 82 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	79
Circle-Division	Rayagada-GED
11 kV Feeder Name	Gunupur Town Feeder
Considered Length (CKM)	2
Peak Load (Amp.)	158
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.25
Location From-To	Karanjanal to Ringroad line Ab switch
Considered Year	2027
Technical Justification	Gunupur Town feeder emanates from Gunupur PSS. Total length of the feeder is 12 Ckm. Supplying to approx. 5865 nos. of consumers. Peak load of the feeder is 158 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only

	part of section with conductor size of 55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	80
Circle-Division	Rayagada-GED
11 kV Feeder Name	Gunupur Town Feeder
Considered Length (CKM)	1
Peak Load (Amp.)	158
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.12
Location From-To	Ghandi nagar line AB switch to Town FCC
Considered Year	2027
Technical Justification	Gunupur Town feeder emanates from Gunupur PSS. Total length of the feeder is 12 Ckm. Supplying to approx. 5865 nos. of consumers. Peak load of the feeder is 158 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	81
Circle-Division	Rayagada-GED
11 kV Feeder Name	Gunupur Town Feeder
Considered Length (CKM)	1
Peak Load (Amp.)	158
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.12
Location From-To	Church Road to Hanuman Mandir
Considered Year	2027

Technical Justification	Gunupur Town feeder emanates from Gunupur PSS. Total length of the feeder is 12 Ckm. Supplying to approx. 5865 nos. of consumers. Peak load of the feeder is 158 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**82**
Circle-Division	Rayagada-GED
11 kV Feeder Name	Gunupur Court Feeder
Considered Length (CKM)	1.1
Peak Load (Amp.)	145
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.14
Location From-To	Pakwaan chowk to Vatenary Street
Considered Year	2027
Technical Justification	Gunupur Court feeder emanates from Gunupur PSS. Total length of the feeder is 14 Ckm. Supplying to approx. 3865 nos. of consumers. Peak load of the feeder is 145 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**83**
Circle-Division	Rayagada-GED
11 kV Feeder Name	Gunupur Court Feeder
Considered Length (CKM)	1
Peak Load (Amp.)	145

Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.12
Location From-To	Rameshwar to Rameshwar
Considered Year	2027
Technical Justification	Gunupur Court feeder emanates from Gunupur PSS. Total length of the feeder is 14 Ckm. Supplying to approx. 3865 nos. of consumers. Peak load of the feeder is 145 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	**84**
Circle-Division	Rayagada-GED
11 kV Feeder Name	Gunupur Court Feeder
Considered Length (CKM)	2.1
Peak Load (Amp.)	145
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.26
Location From-To	Girls high school chowk to Oil Mill Babatara from road
Considered Year	2027
Technical Justification	Gunupur Court feeder emanates from Gunupur PSS. Total length of the feeder is 14 Ckm. Supplying to approx. 3865 nos. of consumers. Peak load of the feeder is 145 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	85
Circle-Division	Rayagada-GED
11 kV Feeder Name	Padmapur Feeder
Considered Length (CKM)	2
Peak Load (Amp.)	115
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.16
Location From-To	No-1 to Four Pole to Medicial to jagmunda to Indra Nagar
Considered Year	2027
Technical Justification	Padmapur feeder emanates from Padmapur PSS. Total length of the feeder is 34 Ckm. Supplying to approx. 3500 nos. of consumers. Peak load of the feeder is 115 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	86
Circle-Division	Rayagada-GED
11 kV Feeder Name	Padmapur Feeder
Considered Length (CKM)	2
Peak Load (Amp.)	115
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.16
Location From-To	Jatali chakk to Jatali pat
Considered Year	2027

Technical Justification	Padmapur feeder emanates from Padmapur PSS. Total length of the feeder is 34 Ckm. Supplying to approx. 3500 nos. of consumers. Peak load of the feeder is 115 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	87
Circle-Division	Rayagada-GED
11 kV Feeder Name	Regada Feeder
Considered Length (CKM)	1.5
Peak Load (Amp.)	106
Existing Conductor (Sq.mm)	34&55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.19
Location From-To	Bits college to Ompera
Considered Year	2027
Technical Justification	Regada feeder emanates from Gunupur PSS. Total length of the feeder is 22 Ckm. Supplying to approx. 3687 nos. of consumers. Peak load of the feeder is 106 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34&55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	88
Circle-Division	Rayagada-PKED
11 kV Feeder Name	Town-4
Considered Length (CKM)	2
Peak Load (Amp.)	250
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.16
Location From-To	1) 4 Pole Structure to Sanjay Gandhi Colony
Considered Year	2027
Technical Justification	Town-4 feeder emanates from Paralakhemundi New PSS. Total length of the feeder is 7.5 Ckm. Supplying to approx. 5500 nos. of consumers. Peak load of the feeder is 250 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only

	part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	89
Circle-Division	Rayagada-PKED
11 kV Feeder Name	Pitapani
Considered Length (CKM)	2.4
Peak Load (Amp.)	30
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.41
Location From-To	Mohana PSS – Chandiput Chawk
Considered Year	2027
Technical Justification	Pitapani feeder emanates from Mohana PSS. Total length of the feeder is 88.53 Ckm. Supplying to approx. 2500 Nos of consumers. Peak load of the feeder is 30 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Mohana PSS – Chandiput Chawk. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (55 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	90
Circle-Division	Rayagada-PKED
11 kV Feeder Name	Antaraba
Considered Length (CKM)	2.4
Peak Load (Amp.)	70
Existing Conductor (Sq.mm)	25
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.17

Location From-To	Dengama – Jharanapur
Considered Year	2027
Technical Justification	Antaraba feeder emanates from Chandragiri PSS. Total length of the feeder is 201 Ckm. Supplying to approx. 5300 Nos of consumers. Peak load of the feeder is 70 Amps. It is observed that part of section is of 25 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Dengama – Jharanapur. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (25 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	**91**
Circle-Division	Rayagada-RED
11 kV Feeder Name	Town-3
Considered Length (CKM)	2
Peak Load (Amp.)	430
Existing Conductor (Sq.mm)	80
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.25
Location From-To	1) Autonagar PSS to Gandhi Nagar 6Pole Structure
Considered Year	2027
Technical Justification	Town-3 feeder emanates from Autonagar PSS. Total length of the feeder is 18 Ckm. Supplying to approx. 9705 no. of consumers. Peak load of the feeder is 430 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 80 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	92
Circle-Division	Rayagada-RED
11 kV Feeder Name	JK Pur
Considered Length (CKM)	2
Peak Load (Amp.)	175
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.16
Location From-To	1) PSS to Covid Health Centre
Considered Year	2027
Technical Justification	JK Pur feeder emanates from Amlabhata PSS. Total length of the feeder is 27 Ckm. Supplying to approx. 7200 nos. of consumers. Peak load of the feeder is 175Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	93
Circle-Division	Rayagada-RED
11 kV Feeder Name	Seriguda Town-2
Considered Length (CKM)	2
Peak Load (Amp.)	162
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.25
Location From-To	1) PSS to Anjani Penta
Considered Year	2027
Technical Justification	Seriguda Town-2 feeder emanates from Seriguda PSS. Total length of the feeder is 10 Ckm. Supplying to approx. 5664 nos. of consumers. Peak load of the feeder is 162Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only

	part of section with conductor size of 55 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	94
Circle-Division	Rayagada-RED
11 kV Feeder Name	Dakuluguda-1
Considered Length (CKM)	2
Peak Load (Amp.)	50
Existing Conductor (Sq.mm)	25
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.14
Location From-To	1. Jugapadar to Kachapaju 2. Sahada to Kuntabadi
Considered Year	2027
Technical Justification	Dakuluguda-1 feeder emanates From Bissam Cuttack PSS. Total length of the feeder is 126 Ckm. Supplying to approx. 4461 Nos of consumers. Peak load of the feeder is 50 Amps. It is observed that part of section is of 25 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Jugapadar to Kachapaju and Sahada to Kuntabadi. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (25 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	95
Circle-Division	Rayagada-RED
11 kV Feeder Name	Town-4
Considered Length (CKM)	0.4
Peak Load (Amp.)	250
Existing Conductor (Sq.mm)	34

Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.05
Location From-To	1. Autostand to DFO 4th Lane
Considered Year	2027
Technical Justification	Town-4 feeder emanates From Autonagar PSS. Total length of the feeder is 10 Ckm. Supplying to approx. 4800 Nos of consumers. Peak load of the feeder is 250 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Autostand to DFO 4th Lane. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network refurbishment and upgradation (34 Sqmm Size To 80 Sqmm) is planned under identified section.

Sr No	**96**
Circle-Division	City-BED 1
11 kV Feeder Name	Golabandha
Considered Length (CKM)	1.9
Peak Load (Amp.)	95
Existing Conductor (Sq.mm)	55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.24
Location From-To	1. Bhanjavihar PSS-Karapalli Chowk
Considered Year	2027
Technical Justification	Golabandha feeder emanates From Bhanjavihar PSS. Total length of the feeder is 18.8 Ckm. Supplying to approx. 3633 Nos of consumers. Peak load of the feeder is 95 Amps. It is observed that part of section is of 55 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Bhanjavihar PSS to Karapalli Chowk. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators etc. Hence network

	refurbishment and upgradation (55 Sqmm Size To 100 Sqmm) is planned under identified section.

Sr No	97
Circle-Division	City-BED-1
11 kV Feeder Name	Nigam Nagar
Considered Length (CKM)	1.5
Peak Load (Amp.)	111
Existing Conductor (Sq.mm)	34/55
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	0.19
Location From-To	1) Over bridge to Nigam Nagar 4t Lane
Considered Year	2027
Technical Justification	Nigam Nagar feeder emanates from Ankuli PSS. Total length of the feeder is 2.6 Ckm. Supplying to approx. 2261 nos. of consumers. Peak load of the feeder is 111 Amps. Hence to meet current load and considering the future load growth, refurbishment and upgradation of only part of section with conductor size of 34 sq.mm size to 100 sq.mm is proposed under identified section. In addition to conductor upgradation line strengthening is also planned.

Sr No	98
Circle-Division	Berhampur-PSED
11 kV Feeder Name	Bhutasarsing
Considered Length (CKM)	0.5
Peak Load (Amp.)	51
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.03
Location From-To	1) Badakharida Chowk to Sasan
Considered Year	2027
Technical Justification	11kv Bhutasarsingfeeder emanates from Pandia PSS. Total length of the feeder is 61 Ckm. Supplying to approx. 7055 nos. of consumers. Peak load of the feeder is 125 Amps.Hence to meet current load and considering the future load growth from existing 34 sqmm conductor to size to 100 sq.mm is proposed under identified section.

Sr No	99
Circle-Division	Berhampur-PSED
11 kV Feeder Name	Old Angaragaon
Considered Length (CKM)	2.4
Peak Load (Amp.)	80
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	0.17
Location From-To	Beguniapada Pss To P.Nuagaon
Considered Year	2027
Technical Justification	Old Angaragaon feeder emanates from Beguniapada PSS. Total length of the feeder is 34 Ckm. Peak load of the feeder is 80 Amps. It is observed that part of section is of 34 Sq.mm conductor and there is frequent conductor snapping due to ageing and multiple joint between section Beguniapada Pss To P.Nuagaon. There are also issues observed such as tilted pole, low clearance due to high span, damaged insulators

	etc. Hence network refurbishment and upgradation (34 Sqmm Size To 80 Sqmm) is planned under identified section to cater the existing and Future load growth.

Sr No	100
Circle-Division	Berhampur-PSED
11 kV Feeder Name	Belagaon
Considered Length (CKM)	0.4
Peak Load (Amp.)	92
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	
Location From-To	Chandipur Mill Chawk To Budha Tota
Considered Year	2027
Technical Justification	11kv Belagoan feeder emanates from Polasara PSS. Total length of the feeder is 15 Ckm. Supplying to approx. 2905 nos. of consumers. Peak load of the feeder is 92 Amps. Hence, to meet current load and considering the future load growth from existing 34 sqmm conductor to size to 80 sq.mm is proposed under identified section.

Sr No	101
Circle-Division	Berhampur-PSED
11 kV Feeder Name	Old gudiali
Considered Length (CKM)	0.5
Peak Load (Amp.)	40
Existing Conductor (Sq.mm)	34
Upgraded Conductor (Sq.mm)	100
Project Cost (Cr.)	
Location From-To	Pss to kholikote road
Considered Year	2027
Technical Justification	The existing 11kV feeder is equipped with an undersized and old-age conductor, which not only has deteriorated mechanical strength but also contributes to high technical losses, voltage drops,

	and risk of conductor snapping under load. Upgrading to a 100 sqmm conductor will increase the current-carrying capacity, improve voltage regulation, and significantly reduce technical losses.

Sr No	102
Circle-Division	Berhampur-PSED
11 kV Feeder Name	Bhutasarsing
Considered Length (CKM)	0.5
Peak Load (Amp.)	125
Existing Conductor (Sq.mm)	35
Upgraded Conductor (Sq.mm)	80
Project Cost (Cr.)	
Location From-To	Arakhpur chakk to panchayat office
Considered Year	2027
Technical Justification	Bhutasarsingfeeder emanates from Pandia PSS. Total length of the feeder is 61 Ckm. Supplying to approx. 6840 nos. of consumers. Peak load of the feeder is 125 Amps. Hence, to meet current load and considering the future load growth from existing 34 sqmm conductor to size to 80 sq.mm is proposed under identified section.

148. The Summary of the expenditure for FY 2026-27 proposed for Upgradation of the Lines is as given in the table below

Table 33 Capital Expenditure for Refurbishment/Upgradation of Lines:

Sl. No.	Description of Projects	UOM	Unit Cost- (Rs. in Lakhs)	Quantity (Ckt Km)	Total Estimated Cost (Rs. in Cr.)
1	Upgradation of 33 KV Line 232 Sqmm WPB 13 mtr	Ckm	20.71	15.89	3.29
2	Upgradation of 33 KV Line 148 Sqmm WPB 13 mtr	Ckm	15.73	138.4	21.77
4	Upgradation of 11 KV Line 148 Sqmm WPB 11 mtr	Ckm	14.70	27.8	4.09
5	Upgradation of 11 KV Line 100 Sqmm WPB 11 mtr	Ckm	12.38	61.1	7.56
6	Upgradation of 11 KV Line 100 Sqmm PSC 9 mtr	Ckm	7.77	56.6	4.40
7	Upgradation of 11 KV Line 80 Sqmm WPB 11 mtr	Ckm	12.29	14.2	1.74
8	Upgradation of 11 KV Line 80 Sqmm PSC 9 mtr	Ckm	6.98	35.3	2.46
10	33kV NH/SH Crossing	Nos	30.68	1	0.31
11	11kV NH/SH Crossing	Nos	24.67	22	5.43
13	11kV Railway Crossing	Nos	51.13	1	0.51
4	**Total**				**51.57**

Unit BOQ is provided in Annexure 6 , location is provided in Annexure 11& Load Flow Study and Cost Benefit Analysis of 33kV/11kV Line in Annexure-9

Table 34 Road Map for 33 KV & 11 KV Lines

Sl. No.	Activity	UOM	Total Scope across System	Planned so far (up to FY'26 DPR)	Balance Requirement	Proposed under FY'27 DPR	Balance
			A	B	C=A-B	D	E=C-D
1	33kV New Line	CKm	820	122	698	60	638
2	11kV New Line	CKm	1346	243	1103	128	975
3	33kV Line Refurbishment	CKm	968	395	573	154	418

4.3.4.1 Conversion of 33 KV /11 KV Bare O/H Conductor to Covered Conductor

149. Few lines have been identified where there is a requirement of conversion of O/H bare conductor to Covered Conductor to improve reliability of power distribution lines. It will improve reliability & enhance safety.

Benefits with Covered Conductors: -

- Protects the aluminium conductor from corrosion.
- Reducing transient and enhance the reliability.

Table 35 : Capital Investment for coversion to Covered Conductor in FY 2026-27

Sl. No.	Description of Projects	UOM	Unit Cost- (Rs. in Lakhs)	Quantity (Ckt Km)	Total Estimated Cost (Rs. in Cr)
a	Conversion of 33 KV Bare O/H to Covered Conductor 148 Sqmm on 13mtr WPB	Ckm	20.71	1.36	0.28
b	Conversion of 33 KV Bare O/H to Covered Conductor 148 Sqmm on 11mtr WPB	Ckm	19.87	3.05	0.61
c	Conversion of 33 KV Bare O/H to Covered Conductor 100 Sqmm on 13mtr WPB	Ckm	18.20	0.8	0.15
d	Conversion of 33 KV Bare O/H to Covered Conductor 100 Sqmm on 11mtr WPB	Ckm	17.19	0.78	0.13
e	Conversion of 11 KV Bare O/H to Covered Conductor 100 Sqmm on 11mtr WPB	Ckm	15.02	2.04	0.31
f	Conversion of 11 KV Bare O/H to Covered Conductor 100 Sqmm on 9mtr WPB	Ckm	13.98	3	0.42
g	Conversion of 11 KV Bare O/H to Covered Conductor 100 Sqmm on 09mtr PSC	Ckm	10.40	18.47	1.92
h	11 mtr. WPB 4-Pole Arrangement for unsafe N-1 connection	Nos.	5.01	10	0.50
2	**Total**				**3.81**

Unit BOQ is provided in Annexure 6, location is provided in Annexure 11

4.3.4.2 33 KV & 11 KV Line AB Switch

150. AB switch is an essential element of any overhead power line, used to connect or disconnect the power system when tripped, for maintenance, to isolate the faulty section, and to restore the supply to healthy section to improve reliability.

Benefits:

- The major advantage of installing AB switches in 33kV and 11kV feeders is that field engineers would have flexibility to isolate the section locally instead of switching off entire feeder.
- In case of any tripping, maintenance engineer can isolate the faulty section and restore the supply of remaining consumers thereby improving the reliability.

151. It is proposed to install 11 and 33kV AB Switches as per following details. Remaining quantity will be planned in phased manner.

Table 36 : Capital Expenditure for 11 KV and 33 KV AB Switches

Sl. No.	Description of Projects	UOM	Unit Cost- (Rs. in Lakhs)	Quantity	Total Estimated Cost (Rs. in Cr.)
a	Installation of 33 KV Line AB Switch	Nos	3.06	70	2.15
b	Installation of 11 KV Line AB Switch	Nos	2.62	152	3.98
c	Installation of 33 KV Line Isolator	Nos	3.85	11	0.42
3	**Total**				**6.55**

Unit BOQ is provided in Annexure 6, location is provided in Annexure 11

4.3.4.3 Four Pole Structure along with AB Switches for N-1 arrangement for feeders

152. At present there are many 11kV feeders which can be interlinked with one another to enable N-1 arrangement through temporary arrangement by connecting Jumper in case of interruption occurs in any one of the feeders. Thereby the interrupted feeder can be back fed by another feeder to maintain reliability and restore the power supply to affected area fully or partially. But it takes long time as the field staff use to connect the jumpering to both the feeders by taking shutdown and safety zone creation for both the feeders. As a result, the consumers of both feeders are affected for long time. Besides taking long time it is also unsafe for operation.

153. Hence, we have proposed Four pole arrangement with AB switches to connect both the feeders to enable N-1 arrangement. This arrangement will enable efficient and safe operation and also help in quick restoration of supply by providing N-1 arrangement.

154. The details of four pole structures considered in FY 2026-27 proposal are given below:

Table 37:Capital Expenditure for 4-Pole Arrangement for unsafe N-1 connection

Sl. No.	Description of Projects	UOM	Unit Cost- (Rs. in Lakhs)	Quantity	Total Estimated Cost (in Rs Cr.)
1	11 mtr. WPB 4-Pole Arrangement for unsafe N-1 connection	Nos.	5.01	10	0.50
4	**Total**			**10**	**0.50**

Unit BOQ is provided in Annexure 6 , location is provided in Annexure 11

Table 38: Summary Refurbishment of 33 KV & 11 KV Line

Sl. No.	Activites	Total Estimated Cost (Rs. in Cr.)
1	Refurbishment/Upgradation of 33kV & 11kV Lines	51.567
2	Conversion of 33 KV /11 KV Bare O/H Conductor to Covered Conductor	3.81
3	Line AB Switch/Isolator	6.55
4	Table 4-Pole Arrangement for unsafe N-1 connection	0.50
4.	**Total**	**62.43**

4.3.5 Construction of 33 KV and 11 KV Underground Cables

155. Implementing Underground Networks at Overhead network crossing-Lines interference: In the current electrical distribution network, several 33kV &11kV overhead power lines cross each other at various points. This crossing of lines can lead to potential incidents due to electromagnetic induction, which poses significant safety and reliability risks. Induction can cause interference between the lines, potentially leading to electrical faults, increased wear and tear, and even accidents. To mitigate these risks and enhance the safety and reliability of the power supply, it is proposed to replace the overhead crossing points with an underground cable system.

156. By implementing this solution, TPSODL aim to enhance the safety, reliability, and overall performance of the electrical distribution network at very few locations. This proactive measure will not only address current issues but also provide long-term benefits for the power infrastructure.

157. The proposed investment in the scheme is as follows:

Table 39 : Capital Investment for Underground Cable in FY 2026-27

Sl. No.	Description of Projects	UOM	Unit Cost (Rs Lakhs)	Proposed Qty	Total Estimated Cost (Rs.in Cr.)
a	33 KV UG 3X 400 Sqmm	CKm	83.87	2	1.68
b	11 KV UG 3X 400 Sqmm	CKm	65.60	1.9	1.25
5	**Total**			**3.9**	**2.92**

Unit BOQ is provided in Annexure 6

4.3.6 Installation of (Auto Recloser & Sectionalizer, RMU and FPI)

4.3.6.1 Auto Recloser & Sectionalizer

158. Auto-reclosures are very efficient in minimizing outages from transient faults on overhead feeders. When installed along with Sectionalizers, they can isolate the faulty sections of the feeder while re- energizing the rest of the feeders. In case of very lengthy circuits, the sectionalizers can also be connected in series.

159. TPSODL currently has a large number of very long overhead feeders. Moreover, it is observed that multiple 11kV feeders are controlled through single 11kV breaker or AB switch in some primary substation. Fault in any 11kV feeder or maintenance activity in 11kV breaker at primary substation affects the supply of consumers connected on all 11kV feeders controlled from that breaker. In order to improve reliability of power supply at such substations, installation of auto-recloser, sectionalizers and Ring Main Units (RMU) is being proposed in phase manner.

Auto-Recloser and Sectionalizer Benefits

- Continuity of power supply for the consumers resulting in less complaints from citizens.
- Reduce the time of power supply disconnection in cases of transient faults.
- Reduce the unsold energy due to faults.
- Reduce the cost of manpower operating in managing disconnected lines.
- Maximum utilization of the network components.
- Event Log and Remote control.

4.3.6.2 Ring Main Unit

160. TPSODL is also planning to install RMUs to improve reliability.

RMU- Benefits:

- The major advantage of Ring Main Units is the safety they provide to the operators. Like the operation of switching devices with interlocking system requires less knowledge and effort.
- Working with IEDs allows remote operation. SCADA implementation is easy with smart Ring main units.
- The space occupied by RMUs is less as they are Gas Insulated Switchgear.
- The time taken for installation and commissioning of RMUs is very less. RMUs require less maintenance.

4.3.6.3 Installation of FPI on 33 KV & 11 Line: -

161. Fault Passage Indicator (FPIs): Installation of overhead Fault Passage Indicators (O/H FPIs) is proposed for faster identification and restoration of faults on long 33 KV and 11kV feeders with multiple sections., FPIs are proposed for installation on 33 KV and 11 KV Line

FPI - Benefits

- Easy fault identification.
- Easy to install, even on live network.
- Detects both short circuit and low current earth faults.
- Indicates both permanent and transient faults.
- Highly visible red flash light.
- Reduction in supply restoration time by 1-2 hrs.

Reduction in unserved Energy Enhancing customer satisfaction

Summary of Capital Expenditure

162. The total Capital Expenditure on the above protection and isolation equipment is as follows:

Table 40 : Capital Expenditure for ARC, Sectionalisor, RMU and FPI

Sl. No.	Description of Projects	Unit Cost- (Rs in Lakhs)	Quantity (No/Set)	Total Estimated Cost (Rs. Cr.)
1	AutoRecloser 33 KV	18.89	1	0.19
2	Sectionalizer 33 KV	19.52	2	0.39
3	AutoRecloser 11 KV	14.41	3	0.43
4	Sectionalizer 11 KV	14.92	6	0.90
A	**Total - Auto Reclosure and Sectionaliser**		**12**	**1.91**
5	33 KV RMU 4 Way	52.48	2	1.05
6	11 KV RMU 4 Way	21.10	4	0.84
B	**Total - RMU**		**6**	**1.89**
7	33 KV FPI Communicable	2.00	20	0.40
8	11 KV FPI Communicable	1.86	50	0.93
9	33 KV FPI Non-Communicable	0.46	100	0.46
10	11 KV FPI Non-Communicable	0.46	400	1.85
11	FPI Compact	4.65	10	0.47
C	**Total FPI**		**570**	**4.10**
6.	**Grand Total**		**588**	**7.90**

Unit BOQ is provided in Annexure 6, location is provided in Annexure 11

4.3.7 DSS Refurbishment and Installation of LV protection at DSS

4.3.7.1 DSS Refurbishment (Replacement of damaged AB Switch, HG Fuse, LA, Earthing, Plinth)

163. Distribution Substation (DSS) comprises of various equipment which perform specific task to ensure delivery of power supply at appropriate voltage to the end consumers. Main components are 11 kV Switching device, 11 kV Protection, Distribution Transformer, LV Protection, Earthing, fencing and O/G LV feeders. The most expensive equipment in the DSS is Distribution Transformer and its life depends upon healthy condition of all other components be it LV Protection, HV Protection, Earthing or fencing. The age of Distribution Transformer can be enhanced by ensuring healthiness of all other components.

164. In our preliminary surveys, it is observed that many of the existing DSS are in shabby condition with damaged or ill-maintained HT & LT protection equipment. Many connections at pole mounted or plinth mounted substations are in very bad condition which not only cause high technical loss but also give rise to undue interruptions.

165. Refurbishment/Life Enhancement of DSS helps in addressing the above-mentioned issues. It will improve the reliability of power system and will also ensure safety. TPSODL proposes following activities under Refurbishment of Distribution Substation:

- Replacement / provision of AB switch, HG Fuse units, LA, DP Structure as per the requirement in DSS.
- Provision of new / additional earthing in all DSS as per site requirement.
- Carry out civil works like DSS Plinth as per site requirement.

4.3.7.2 LV protection at DSS

166. Analysis of distribution transformer's failure data for the last few years suggest that effective HV & LV protection might have reduced the transformer failure. For example, if there is no effective protection on LV side, during fault on the load side, the fault current will pass through the transformer for a longer duration till the fault is isolated by upstream network. Since the magnitude of the fault current is high, it is likely to produce mechanical and thermal stresses in the transformer causing pre-mature failure of the transformer.

167. During survey it was observed that still there are no LT protection at some DTR secondary side so any fault occurred during in LT shifts to 11kV System and tripping 11kV feeder. The Tripping on 11kV feeders impacts reliability indices SAIFI and SAIDI and all connected consumers are also affected due to shut down.

168. In order to reduce the effect of LT fault on 11kV System, it is recommended to install LTDB with MCCB on these Distribution Substations.

Benefits

- Refurbishment of DSS helps in improving the overall efficiency and safety by removing all old joints with new one, crimping of Lugs through Crimping tool, new earthing of the substation, replacement of faulty AB switches and corn out jumpers.
- Reliable power supply to consumers
- Ease of operation to the field teams
- Enhance Customer delight.
- Safety to workforce and improve operation efficiency
- Safety of the Equipment in DSS and reduces its failure rate.
- Effective LT protection will help in localizing the fault on LT networks and avoid fuse burning on HT side of the DTR

169. It is proposed to undertake DSS refurbishment and LT protection measures as per below details.

Table 41 : Capital Expenditure towards DSS Refurbishment and LV Protection

Sl. No.	Description of Projects	Unit Cost- (Rs. in Lakhs)	Quantity (No/Set)	Total Estimated Cost (Rs. in Cr.)
A	**DSS Refurbishment (AB Switch, HG Fuse, LA, Earthing, Plinth, DP)**			
1	DSS Refurbishment - AB Switch 200A	0.32	287	0.93
2	DSS Refurbishment - HG Fuse 200A	0.22	286	0.64
3	DSS Refurbishment - LA	0.09	774	0.66
4	DSS Refurbishment - Earthing	0.11	200	0.22
5	DSS Refurbishment - Plinth (250kVA to 500kVA)	0.33	51	0.17
6	DSS Refurbishment with Pole & Structure Only 11 mtr WPB		92	0.00
	Total		**1690**	**2.62**
B	**LV Protection at DSS**			
7	Installation of LV protection at DSS-MCCB for 25 KVA	0.54	100	0.54
8	Installation of LV protection at DSS-MCCB for 63 KVA	0.61	100	0.61
9	Installation of LV protection at DSS-MCCB for 100 KVA	0.77	100	0.77

Sl. No.	Description of Projects	Unit Cost- (Rs. in Lakhs)	Quantity (No/Set)	Total Estimated Cost (Rs. in Cr.)
10	Installation of LV protection at DSS-MCCB for 250 KVA	1.43	105	1.50
11	Installation of LV protection at DSS-MCCB for 315 KVA	1.92	32	0.61
12	Installation of LV protection at DSS-MCCB for 500 KVA	2.79	46	1.28
13	Installation of LV protection at DSS-LT ACB 400 AMps for 630 KVA	4.71	2	0.09
	Total		**485**	**5.40**
7	**Grand Total (A+B) Rs. in Cr.**			**8.02**

Unit BOQ is provided in Annexure 6 , location is provided in Annexure 11

4.3.8 River Crossing

170. TPSODL area being prone to frequent natural disasters viz. cyclone, flooding, etc. and Major of the distribution license area of TPSODL falls near the coastal belt. During survey, it was observed that some of the 33 & 11kV lines are crossing river through poles/ DP/ Old tower with more sag which is below permissible level.

171. Due to higher span length, the conductor requires more sag for stringing. This creates less ground clearances and sometimes flood water touches the conductor during flood situation. During some scenarios, feeder needs to be isolated resulting into forced shutdown for long duration to consumers.

172. Hence there is need to maintain and strengthen these feeders to improve the reliability and safety. We have proposed upgradation of river crossing infrastructure as below:

- Narrow Based Lattice Structure Tower
- River Crossing to be done by Four Pole
- River Crossing to be done by UR+6 Tower

Table 42 : Capital Expenditure in FY 2026-27 towards River Crossing

Sl. No.	Description of Projects	Unit Cost- (Rs in Lakhs)	Quantity (Set)	Total Estimated Cost (Rs Cr.)
a	Narrow Based Lattice Structure Tower	45.25	2	0.90
b	Four Pole	10.70	2	0.21
c	UR+6 Type Tower	160.91	1	1.61
8	**Total**		**5**	**2.73**

Unit BOQ is provided in Annexure 6, location is provided in Annexure 11

Summary of CAPEX requirement for Network Reliability

Based on the above, the Capital Expenditure proposed for Network Reliability is as follows:

Table 43 : Capital Expenditure towards Network Reliability

Sl. No.	Activities	Total Estimated Cost (Rs. in Cr.)
1	SCADA- automation and Security Survillence at PSS	6.98
2	PSS Refurbishment	13.31
3	33 kV & 11 kV New Network Infrastructure	72.94
4	Refurbishment of 33 KV & 11 KV Line	62.43
5	33 KV & 11 KV UG Cable	2.92
6	33 KV & 11 KV (Auto Recloser & Sectionalizer, RMU and FPI)	7.9
7	DSS Refurbishment and LV protection	8.02
8	River Crossing Infrastructure	2.73
	Sub Total Network Reliability (3)	**177.24**

4.4 LOAD GROWTH

4.4.1 Augmentation of Power Transformer

Transformer Load Assessment and Augmentation Plan

To prevent potential overloading, TPSODL has conducted a comprehensive evaluation of power transformer load levels. The analysis revealed that few transformers are operating beyond their rated capacity. In order to accommodate projected peak demand—factoring in current usage and anticipated growth along with maintaing firm Capacity over the next five years—augmentation of select overloaded transformers has been deemed necessary.

2. Detailed Study and Strategic Load Management

A thorough investigation into transformer loading was carried out using data collected from all 33/11 kV substations. The loading trends of each Power Transformer (PTR) were examined, and future demand projections were incorporated. Transformers experiencing peak loads exceeding 80% of their capacity were flagged for mitigation planning. In certain substations, transformer loading is uneven—where one unit is heavily burdened while another remains underutilized. In such scenarios, load redistribution is proposed to balance the system more efficiently.

Where redistribution is not feasible due to lack of spare capacity, transformer augmentation is planned. Additionally, new Transformers have also will planned to be installed at 2 Nos PSS. Transformers that are replaced will undergo testing and minor refurbishment before being redeployed to other substations to address overloads or replace aging units. A total of 5 such PTRs are scheduled for reuse during FY 2027. An estimated budget of ₹0.98 crore (₹19.56 lakh per unit) has been allocated for relocation, civil works, and installation. This approach is expected to optimize costs while enhancing service reliability for consumers.

Sr No. 1: Power Transformer overloading mitigation at 33/11 KV OMP Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 1.6MVA Power Transformer (PTR-1) to 8 MVA at OMP 33/11kV Substation in KED division of Jeypore Circle to mitigate overloading condition.

Existing Scenario:

- OMP PSS has 2 Nos. of PTR of (1 No. of 1.6 MVA & 1 No. of 3.15 MVA).

- 1.6 MVA PTR-1, is feeding 1 No. 11 KV OMP-Silk Board feeder with loading of 1.45 MVA & loaded at 90% (119% considering 5 years load growth)
- 3.15 MVA PTR-2, is feeding 11 KV Podagada feeder with loading of 1.9 MVA & loaded at 60.48% (79.72% considering 5 years load growth).
- The present firm capacity of OMP PSS is 209.52%.
- Moreover, this is the only PSS apart from Koraput Old (2X5 MVA + 1X8 MVA) which supplies power to Koraput Municipality and nearby area.
- Existing Summer FY 25 Loading and projected load at OMP PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	OMP	PTR-1	1.6	1.45	90%	≥90%	1.91	119%	>100%
2		PTR-2	3.15	1.90	60%	60%-70%	2.51	80%	70%-80%

Proposed Scenario:

To mitigate Overloading of PTR-1 the following has been proposed: -

- Augmentation of PTR-1 from 1.6 MVA to 8 MVA.
- After Augmentation PTR-1 is feeding, 4 Nos 11 kV Feeders with a combined loading of 4.67 MVA (considering 5 years load growth) (11 KV Mega Lift(proposed) -1 MVA, 11 KV OMP Silk Board 1.45 MVA, 11 kV Koraput No II (proposed to divert load of Koraput Old PSS)- 0.57 MVA & 11 kV Koraput No III (proposed to divert load of Koraput Old PSS) -0.57 MVA.
- Additionally, PSS switchyard refurbishment work is planned to mitigate water logging issue.
- After above Proposal the Loading of PTR-1 & PTR-2 comes to 58% & 80% (considering 5 years load growth) respectively.

Table 44: Proposed Summer FY-30 Loading and projected load at OMP PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth		
				Peak Load	% Loading	%Loading Range
1	OMP	PTR-1	8	4.67	58%	50%-60%
2		PTR-2	3.15	2.51	80%	70%-80%

Name of the Division:	KED
Name of the Sub-Division	Koraput
Name of the Section:	Koraput No - I
Name of the Work:	Mitigation of 33/11kV PTR Overloading
Scope:	Augmentation of 01 No. Power Transformers of PTR-1 from 1.6 MVA to 8 MVA
Names of Schemes: -	TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE	
Description	**Amount**
Augmentation of 01 No. Power Transformers of PTR-1 from 1.6 MVA to 8 MVA	1.79
Mitigation of Water Logging in Switchyard Area	0.8
Total Amount (Rs in Cr.)	**2.59**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.
- Safe manpower operation at switchyard.

Sr No. 2: Power Transformer overloading mitigation at 33/11 KV ADHIKARIGUDA Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 5 MVA Power Transformer (PTR-1) to 8 MVA at ADHIKARIGUDA 33/11kV Substation in NED division of Jeypore Circle to mitigate overloading condition.

Existing Scenario:

- ADHIKARIGUDA PSS has 2 Nos. of PTR of (5 MVA each).
- **5 MVA PTR- 1**, is feeding 1 No. **11kV Pujariguda** feeder with loading of **3.62 MVA** & loaded at **72**% (111% considering 5 years load growth)
- **5 MVA PTR - 2**, is feeding **11 kV Silati** feeder with loading of **2.57 MVA** & loaded at **51**% (79% considering 5 years load growth)
- The present firm capacity of Adhikariguda PSS is 123.84%.

Existing Summer FY 25 Loading and projected load at ADHIKARIGUDA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Adhikariguda	PTR-1	5	3.62	72%	40%-50%	5.55	111%	>100%
2		PTR-2	5	2.57	51%	40%-50%	3.95	79%	70%-80%

Proposed Scenario:

To mitigate Overloading of PTR-1 the following has been proposed: -

- Augmentation of PTR-1 from 5 MVA to 8 MVA.
- After Augmentation loading of PTR-1 is 5.55 MVA (considering 5 years load growth).
- After above Proposal the Loading of PTR-1 & PTR-2 comes to 69% & 79% (considering 5 years load growth) respectively.
- The firm Capacity of Adhikariguda PSS will become 78.93%, (considering 5 years load growth).

Proposed Summer FY-30 Loading and projected load at ADHIKARIGUDA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	Adhikariguda	PTR-1	8	5.55	69%	60%-70%
2		PTR-2	5	3.95	79%	70%-80%

Name of the Division:	NED
Name of the Sub-Division:	Umerkote
Name of the Section:	Umerkote
Name of the Work:	Mitigation of 33/11kV PTR Overloading

Scope: -	Augmentation of 01 No. Power Transformers of PTR-1 from 5 MVA to 8 MVA
Names of Schemes: -	TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Augmentation of 01 no. Power Transformers of PTR-1 from 5 MVA to 8 MVA	1.79
	Total Amount (In Cr)	**1.79**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

Sr No. 3: Power Transformer overloading mitigation at 33/11 KV JODINGA Substation

Proposal:

New 1 No. 33/11kV, 8 MVA Power Transformer (PTR-3) to be proposed in NED division of Jeypore Circle to mitigate overloading condition.

Existing Scenario:

- JODINGA PSS has 2 Nos. of PTR of (5 MVA each).
- 5 MVA PTR- 1, is feeding 1 no. 11 KV Parchipara, Kaudola & Hata Bharandi feeder with loading of 4.76 MVA & loaded at 95% (146% considering 5 years load growth)
- 5 MVA PTR - 2, is feeding 11 KV Turudi feeder with loading of 4.57 MVA & loaded at 91% (140% considering 5 years load growth)
- The present firm capacity of Jodinga PSS is 186.71%.

Existing Summer FY 25 Loading and projected load at JODINGA

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Jodinga	PTR-1	5	4.76	95%	40%-50%	7.31	146%	>100%
2		PTR-2	5	4.57	91%	40%-50%	7.02	140%	>100%

PSS PTRs

Proposed Scenario:

To mitigate Overloading of PTR-1 & PTR-2 the following has been proposed: -

- New 8 MVA PTR-3 to be proposed.
- New 33 KV & 11 KV Outdoor Switchyard with VCB, CT, PT & CRP.
- After above Proposal PTR-3 is feeding 2 Nos. 11 kV Feeders (11KV Hata bharandi feeder -2 MVA diverted from PTR-1 to PTR-3 & 11KV Turudi feeder -2 MVA diverted from PTR-2 to PTR-3) with a combined loading of 5.85 MVA (considering 5 years load growth).
- After above Proposal the Loading of PTR-1, PTR-2 & PTR-3 comes to 88%, 82% & 73% respectively.
- The firm Capacity of Jodinga PSS will become 43.86%, (considering 5 years load growth).

Proposed Summer'30 Loading and projected load at JODINGA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	Jodinga	PTR-1	5	4.39	88%	≥ 80%
2		PTR-2	5	4.09	82%	≥ 80%
3		PTR-3	8	5.85	73%	70%-80%

BoQ for PTR Overloading mitigation:

Name of the Division:	NED
Name of the Sub-Division:	Umerkote
Name of the Section:	Raighar
Name of the Work:	Mitigation of 33/11kV PTR Overloading
Scope:	New 8 MVA PTR
Names of Schemes:	TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	New 8 MVA PTR to be Proposed	2.94
	Total Amount (In Cr)	**2.94**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.

- To ensure reliable power supply to the consumers.

Sr No. 4: Power Transformer overloading mitigation at 33/11 KV MV-79 Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 3.15 MVA Power Transformer (PTR-1) to 5 MVA at MV-79 33/11kV Substation in MED division of Jeypore Circle to mitigate overloading condition.

Existing Scenario:

- MV-79 PSS has 2 Nos. of PTR of (1 No. of 3.15 MVA & 1 No. of 5 MVA).
- 3.15 MVA PTR- 1, is feeding 2 Nos. 11KV feeders with a Combined loading of 2.36 MVA (1 No. 11KV Town (MV-79) feeder & 1 No. 11KV MV – 96 feeders) & loaded at 75% (113% considering 5 years load growth)
- 5 MVA PTR - 2, is feeding 2 nos. 11KV feeders with a Combined loading of 1.68 MVA (1 No. 11 KV MV - 83 feeder & 1 nos 11 KV Motu feeder) with loading of 1.68 MVA & loaded at 34% (51% considering 5 years load growth)
- The present firm capacity of MV-79 PSS is 128.22%.

Existing Summer FY 25 Loading and projected load at MV-79 PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	MV-79	PTR-1	3.15	2.36	75%	70%-80%	3.57	113%	>100%
2		PTR-2	5	1.68	34%	30%-40%	2.53	51%	50%-60%

Proposed Scenario:

To mitigate Overloading of PTR-1 the following has been proposed: -

- Augmentation of PTR-1 from 3.15 MVA to 5 MVA.
- After above Proposal the Loading of PTR & PTR-2 comes to 71% & 51% respectively.
- The firm Capacity of MV-79 PSS will become 71.31%, (considering 5 years load growth).

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	MV-79	PTR-1	5	3.57	71%	70%-80%
2		PTR-2	5	2.53	51%	50%-60%

Proposed Summer'30 Loading and projected load at MV-79 PSS PTRs:

Name of the Division:	MED
Name of the Sub-Division:	Malkangiri
Name of the Section:	Kalimela
Name of the Work:	Mitigation of 33/11kV PTR Overloading
Scope:	Augmentation of 01 No. Power Transformers of PTR-1 from 3.15 MVA to 5 MVA
Names of Schemes:	TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Augmentation of 01 No. Power Transformers of PTR-1 from 3.15 MVA to 5 MVA	1.15
	Total Amount (In Cr)	**1.15**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

Sr No. 5: Power Transformer overloading mitigation at 33/11 KV PAIKAJAMUNA Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 5 MVA Power Transformer (PTR-1) to 8 MVA at PAIKAJAMUNA 33/11kV Substation in AED-II division of Aska Circle to mitigate overloading condition.

Existing Scenario:

- PAIKAJAMUNA PSS has 2 Nos. of PTR of (5 MVA each).
- 5 MVA PTR- 1, is feeding 2 Nos. 11KV feeders with a combined load of 4.29 MVA (11KV kaniari feeder & 11KV Paikajamuna feeder) & loaded at 86% (98% considering 5 years load growth)
- 5 MVA PTR-2, is feeding 11 kV Barida feeder with loading of 3.45 MVA & loaded at 69% (79% considering 5 years load growth)
- The present firm capacity of Paikajamuna PSS is 154.70%.

Existing Summer'25 Loading and projected load at PAIKAJAMUNA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Paikajamuna	PTR-1	5	4.29	86%	>80%	4.90	98%	≥90%
2		PTR-2	5	3.45	69%	60%-70%	3.94	79%	70%-80%

Proposed Scenario:

To mitigate Overloading of PTR-1 the following has been proposed: -

- Augmentation of PTR-1 from 5 MVA to 8 MVA.
- After above Proposal the Loading of PTR-1 & PTR-2 comes to 61% (considering 5 years load growth) & 79% (considering 5 years load growth) respectively.

Proposed Summer'30 Loading and projected load at PAIKAJAMUNA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	Paikajamuna	PTR-1	8	4.90	61%	60%-70%
2		PTR-2	5	3.94	79%	70%-80%

Name of the Division:	AED-II
Name of the Sub-Division:	K. S. Nagar
Name of the Section:	Budhamba

Name of the Work:	Mitigation of 33/11kV PTR Overloading	
Scope:	Augmentation of 01 No. of Power Transformer of PTR-1 from 5 MVA to 8 MVA	
Names of Schemes: -	TPSODL CAPEX FY 2026-27	
ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Augmentation of 01 No. Power Transformers of PTR-1 from 5 MVA to 8 MVA	1.79
	Total Amount (In Cr)	**1.79**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

Sr No. 6: Power Transformer overloading mitigation at 33/11 KV BUGUDA Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 5 MVA Power Transformer (PTR-1) to 8 MVA at BUGUDA 33/11kV Substation in AED-II division of Aska Circle to mitigate overloading condition.

Existing Scenario:

- BUGUDA PSS has 4 Nos. of PTR of (3 Nos. 5 MVA & 1 No. 3.15 MVA).
- 5 MVA PTR- 1, is feeding 3 Nos. 11KV feeders with a combined load of 4.5 MVA (11KV Motabadi feeder, 11KV Karchuli feeeder & 11KV Manitara feeder) & loaded at 90% (103% considering 5 years load growth).
- 5 MVA PTR - 2, is feeding 11 kV Buguda feeder with loading of 3.58 MVA & loaded at 72% (82% considering 5 years load growth).
- 3.15 MVA PTR - 3, is feeding 11 kV Golia feeder with loading of 1.37 MVA & loaded at 44% (50% considering 5 years load growth).
- 5 MVA PTR - 4, is feeding 11 kV Pangidi feeder with loading of 1.14 MVA & loaded at 23% (26% considering 5 years load growth).
- The present firm capacity of Buguda PSS is 84.31%.

Existing Summer'25 Loading and projected load at BUGUDA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Buguda	PTR-1	5	4.50	90%	70%-80%	5.14	103%	≥100%
2		PTR-2	5	3.58	72%	70%-80%	4.09	82%	≥80%
3		PTR-3	3.15	1.37	44%	70%-80%	1.57	50%	50%-60%
4		PTR-4	5	1.14	23%	70%-80%	1.31	26%	20%-30%

Proposed Scenario:

To mitigate Overloading of PTR-1 the following has been proposed: -

- Augmentation of PTR-1 from 5 MVA to 8 MVA.
- After Augmentation loading of 8 MVA, PTR-1 is 4.09 MVA (considering 5 years load growth). 11KV Motabadi feeder (0.34 MVA) load is proposed to be divert from PTR-1 to Sankuli PSS.
- Loading of 5 MVA, PTR-2 is 3.26 MVA (considering 5 years load growth). 11KV Motabadi feeder (0.57 MVA) load is Proposed to be divert from PTR-1 to PTR-2.
- Loading of 5 MVA, PTR-3 (PTR-3 from 3.15 MVA to 5 MVA augmentation under CAPEX FY-25) is 3.66 MVA (considering 5 years load growth). 11KV Golia-1 feeder (0.69 MVA) load & Buguda Town feeder (1.14 MVA) load from PTR-2, is proposed to be divert to PTR-3.
- Loading of 5 MVA, PTR-4 is 1.65 MVA (considering 5 years load growth). 11KV Golia-2 feeder (0.69 MVA) load is to be diverted to PTR-4 & 11KV Pangidi feeder (0.38 MVA) load is to be diverted from PTR-4 to sankuli PSS.
- After above Proposal the Loading of PTR-1, PTR-2, PTR-3 & PTR-4 comes to 51%, 65%, 73% & 33% (considering 5 years load growth).
- The firm Capacity of Buguda PSS will become 84.45%.

Proposed Summer FY 30 Loading and projected load at BUGUDA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	Buguda	PTR-1	8	4.09	51%	50%-60%
2		PTR-2	5	3.26	65%	60%-70%
3		PTR-3	5	3.66	73%	70%-80%
4		PTR-4	5	1.65	33%	50%-60%

Name of the Division:	AED-II
Name of the Sub-Division:	Buguda
Name of the Section:	Buguda
Name of the Work:	Mitigation of 33/11kV PTR Overloading
Scope:	Augmentation of 01nos. Power Transformers of PTR-1 from 5 MVA to 8 MVA
Names of Schemes:	TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Augmentation of 01 No. Power Transformers of PTR-1 from 5 MVA to 8 MVA	1.79
	Total Amount (In Cr)	**1.79**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

Sr No. 7: Power Transformer overloading mitigation at 33/11 KV PHULBANI Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 5 MVA Power Transformer (PTR-2) to 8 MVA at PHULBANI 33/11kV Substation in PED division of Bhanjanagar Circle to mitigate overloading condition.

Existing Scenario:

- PHULBANI PSS has 3 Nos. of PTR of (5 MVA each).
- 5 MVA PTR- 1, is feeding 2 Nos. 11KV feeders with combined loading of 4.34 MVA (11KV College feeder & 11KV Bazar feeder) & loaded at 87% (127% considering 5 years load growth)
- 5 MVA PTR- 2, is feeding 2 Nos. 11KV feeders with combined loading of 3.18 MVA (11KV Medical feeder & 11KV Phulbani Sahi feeder) & loaded at 64% (93% considering 5 years load growth)

- 5 MVA PTR - 3, is feeding 2 Nos. 11KV feeders with combined loading of 2.4 MVA (11KV No. 3 feeder & 11KV Katringia feeder) & loaded at 48% (70% considering 5 years load growth)
- The present firm capacity of Phulbani PSS is 112.41%.

Existing Summer FY 25 Loading and projected load at PHULBANI PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Phulbani	PTR-1	5	4.34	87%	80%-90%	6.34	127%	>100%
2		PTR-2	5	3.18	64%	60%-70%	4.65	93%	80%-100%
3		PTR-3	5	2.40	48%	40%-50%	3.51	70%	70%-80%

Proposed Scenario:

To mitigate Overloading of PTR-1 the following has been proposed: -

- Augmentation of PTR-1 from 5 MVA to 8 MVA.
- After Augmentation loading of PTR-1 is 6.34 MVA (considering 5 years load growth).
- After above Proposal the Loading of PTR-1, PTR-2 & PTR-3 comes to 79%, 93% & 70% (considering 5 years load growth) respectively.

Proposed Summer FY-30 Loading and projected load at PHULBANI PSS

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth @7.87%) Summer' 30		
				Peak Load	% Loading	%Loading Range
1	Phulbani	PTR-1	8	6.34	79%	70%-80%
2		PTR-2	5	4.65	93%	≥90%
3		PTR-3	5	3.51	71%	70%-80%

Name of the Division: -	PED
Name of the Sub-Division: -	Phulbani
Name of the Section: -	Phulbani
Name of the Work: -	Mitigation of 33/11kV PTR Overloading
Scope: -	Augmentation of 01 No. Power Transformer of PTR-1 from 5 MVA to 8 MVA
Names of Schemes: -	TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Augmentation of 01 No. Power Transformer of PTR-1 from 5 MVA to 8 MVA	1.79
	Total Amount (In Cr)	**1.79**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

Sr No. 08: Power Transformer overloading mitigation at 33/11 KV BHANJANAGAR Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 3.15 MVA Power Transformer (PTR-3) to 8 MVA at BHANJANAGAR 33/11kV Substation in BNED division of Bhanjanagar Circle to mitigate overloading condition.

Existing Scenario:

- BHANJANAGAR PSS has 3 Nos. of PTR of (1 No. 8 MVA, 1 No. 5 MVA, 1 No. 3.15 MVA).
- 8 MVA PTR- 1, is feeding 2 Nos. 11KV feeders with combined loading of 6.23 MVA (11KV Bhanjanagar Town feeder & 11KV Gamundi feeder) & loaded at 78% (98% considering 5 years load growth)
- 5 MVA PTR - 2, is feeding 2 Nos. 11KV feeders with combined loading of 3.56 MVA (11KV Bhanjanagar College feeder & 11KV Gangapur feeder) & loaded at 71% (90% considering 5 years load growth)
- 3.15 MVA PTR - 3, is feeding 1 nos. 11KV Kulada feeder with loading of 1.64 MVA & loaded at 52% (66% considering 5 years load growth)
- The present firm capacity of Bhanjanagar PSS is 140.19%.

Existing Summer'25 Loading and projected load at 33/11 KV BHANJANAGAR PSS:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Bhanjanagar	PTR-1	8	6.23	78%	70%-80%	7.86	98%	≥90%
2		PTR-2	5	3.56	71%	70%-80%	4.49	90%	≥90%
3		PTR-3	3.15	1.64	52%	50%-60%	2.07	66%	60%-70%

Proposed Scenario:

To mitigate Overloading of PTR-2 the following has been proposed: -

- Augmentation of PTR-2 from 5 MVA to 8 MVA.
- 3.15 MVA PTR-3 will be replaced by 5 MVA PTR-2.
- After Augmentation loading of PTR-2 is 4.97 MVA (considering 5 years load growth). 11KV Bhanjanagar Town feeder (0.4 MVA) to be diverted to PTR-2. Similarly Loading of PTR-3 is 3.75 MVA (considering 5 years load growth). 11KV Gamundi feeder (0.7 MVA) to be diverted to PTR-3.
- After above Proposal the Loading of PTR-1, PTR-2 & PTR-3 comes to 82%, 62% & 75% (considering 5 years load growth) respectively.
- The firm Capacity of Bhanjanagar PSS will become 50.31%, (considering 5 years load growth).

Proposed Summer'30 Loading and projected load at BHANJANAGAR PSS

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	Bhanjanagar	PTR-1	8	6.54	82%	80%-90%
2		PTR-2	8	4.97	62%	60%-70%
3		PTR-3	5	3.75	75%	70%-80%

Name of the Division: -	BNED
Name of the Sub-Division: -	Bhanjanagar - I
Name of the Section: -	Bhejiput
Name of the Work: -	Mitigation of 33/11kV PTR Overloading
Scope: - Names of Schemes: -	Augmentation of 01 No. Power Transformer of PTR-3 from 3.15 MVA to 8 MVA TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Augmentation of 01 No. Power Transformer of PTR-3 from 3.15 MVA to 8 MVA	1.79
	Total Amount (In Cr)	**1.79**

Benefits:

- To mitigate overloading condition on power transformers.

- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

Sr No. 09: Power Transformer overloading mitigation at 33/11 KV LALSING Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 1.6 MVA Power Transformer (PTR-2) to 5 MVA at LALSING 33/11kV Substation in BNED division of Bhanjanagar Circle to mitigate overloading condition.

Existing Scenario:

- LALSING PSS has 2 Nos. of PTR of (1 No. 5 MVA & 1 No. 1.6 MVA).
- 5 MVA PTR- 1, is feeding 1 No. 11KV Durgaprasad/Mujaguda feeder with loading of 1.24 & loaded at 25% (31% considering 5 years load growth)
- 1.6 MVA PTR - 2, is feeding 1 No. 11KV Sanakodanda feeder with loading of 1.22 MVA & loaded at 76% (96% considering 5 years load growth)
- The present firm capacity of Lalsing PSS is 153.61%.

Existing Summer'25 Loading and projected load at LALSING PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Lalsing	PTR-1	5	1.24	25%	20%-30%	1.56	31%	30%-40%
2		PTR-2	1.6	1.22	76%	70%-80%	1.54	96%	>90%

Proposed Scenario:

To mitigate Overloading of PTR-2 the following has been proposed: -

- Augmentation of PTR-2 from 1.6 MVA to 5 MVA.
- After Augmentation loading of PTR-2 is 1.54 MVA (considering 5 years load growth).
- After above Proposal the Loading of PTR-1 & PTR-2 comes to 31% & 31% (considering 5 years load growth) respectively.

- The firm Capacity of Lalsing PSS also improves to 31.27%,(considering 5 years load growth).

Proposed Summer FY'30 Loading and projected load at LALSING PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	Lalsing	PTR-1	5	1.56	31%	30%-40%
2		PTR-2	5	1.54	31%	30%-40%

Name of the Division: -	BNED
Name of the Sub-Division: -	Bhanjanagar - II
Name of the Section: -	ESO-II
Name of the Work: -	Mitigation of 33/11kV PTR Overloading
Scope: -	Augmentation of 01 No. Power Transformer of PTR-2 from 1.6 MVA to 5 MVA
Names of Schemes: -	TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Augmentation of 01 No. Power Transformer of PTR-2 from 1.6 MVA to 5 MVA	1.15
	Total Amount (In Cr)	**1.15**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

Sr No. 10: Power Transformer overloading mitigation at 33/11 KV BAUNSUNI Substation

Proposal:

Augmentation of existing 1 No. 33/11kV, 3.15 MVA Power Transformer (PTR-2) to 8 MVA at BAUNSUNI 33/11kV Substation in BOED division of Bhanjanagar Circle to mitigate overloading condition.

Existing Scenario:

- BAUNSUNI PSS has 2 Nos. of PTR of (1 No. 5 MVA & 1 No. 3.15 MVA).
- 5 MVA PTR- 1, is feeding 4 Nos. 11KV feeders with combined loading of 5.35 (11 KV Baunsuni feeder, 11 KV Bahira feeder, 11 KV Dahiya-1 feeder & 11 KV Dahiya-2 feeder) & loaded at 107% (163% considering 5 years load growth)
- 3.15 MVA PTR - 2, is feeding 1 No. 11 KV Gundulia feeder with loading of 1.41 MVA & loaded at 45% (68% considering 5 years load growth)
- The present firm capacity of Baunsuni PSS is 214.71%.

Existing Summer'25 Loading and projected load at BAUNSUNI PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Baunsuni	PTR-1	5	5.35	107%	>100%	8.16	163%	≥100%
2		PTR-2	3.15	1.41	45%	40%-50%	2.15	68%	60%-70%

Proposed Scenario:

To mitigate Overloading of PTR-1 the following has been proposed: -

- Augmentation of PTR-2 from 3.15 MVA to 8 MVA.
- After above Proposal 8 MVA PTR-2 is feeding 2 Nos 11 kV Feeders with combined loading of 5.17 MVA (11 KV Baunsuni feeder diverted from PTR-1 to PTR-2 & 11 KV Dahiya-1 feeder diverted from PTR-1 to PTR-2) & loaded at 65% (considering 5 years load growth).
- After above Proposal 5 MVA PTR-1 is feeding 2 Nos. 11 kV Feeders with combined loading of 2.99 MVA (11 KV Bahira feeder & 11 KV Dahiya-2 feeder) & loaded at 60% (considering 5 years load growth).
- The firm Capacity of Baunsuni PSS will become 59.82%, (considering 5 years load growth).

Proposed Summer FY-30 Loading and projected load at BAUNSUNI PSS

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	Baunsuni	PTR-1	5	2.99	60%	60%-70%
2		PTR-2	8	5.17	65%	60%-70%

Name of the Division: -	BOED	
Name of the Sub-Division: -	Manmunda	
Name of the Section: -	Baunsuni	
Name of the Work: -	Mitigation of 33/11kV PTR Overloading	
Scope: -	Augmentation of 01 No. Power Transformers of PTR-2 from 3.15 MVA to 8 MVA	
Names of Schemes: -	TPSODL CAPEX FY 2026-27	
ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Augmentation of 01 No. Power Transformers of PTR-2 from 3.15 MVA to 8 MVA	1.79
	Total Amount (In Cr)	**1.79**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

11.0 Power Transformer overloading mitigation at 33/11 KV PKED NEW Substation

Proposal:

New 1 No. 33/11kV, 8 MVA Power Transformer (PTR-3) to be proposed in PKED division of Rayagada Circle to mitigate overloading condition.

Existing Scenario:

- Paralakhemundi New PSS has 2 Nos. of PTR of (8 MVA each).
- 8 MVA PTR- 1, is feeding 4 Nos. 11KV feeders with combined loading of 6.19 MVA (11 KV PHD feeder, 11KV Medical feeder, 11KV Kerandi feeder& 11KV JITM feeder) & loaded at 77% (101% considering 5 years load growth)
- 8 MVA PTR - 2, is feeding 1 No. 11KV Town-4 feeder with loading of 4.82 MVA & loaded at 60% (79% considering 5 years load growth)
- The present firm capacity of PKED NEW PSS is 137.65%.

Existing Summer'25 Loading and projected load at PKED NEW PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Paralakhemundi New	PTR-1	8	6.19	77%	70%-80%	8.10	101%	>100%
2		PTR-2	8	4.82	60%	60%-70%	6.31	79%	70%-80%

Proposed Scenario:

To mitigate Overloading of PTR-1 the following has been proposed: -

- New 8 MVA PTR-3 to be proposed.
- After above Proposal New 8 MVA PTR-3 is feeding 11KV Town-4 feeder (2.5 MVA) diverted from 8 MVA PTR-2 to new 8 MVA PTR-3 and 11KV PHD feeder (0.4 MVA) diverted from 8 MVA PTR-1 to new 8 MVA PTR-3 & loaded at 47% (considering 5 years load growth).
- After above Proposal the Loading of PTR-1, PTR-2 & PTR-3 comes to 95%, 38% & 47% (considering 5 years load growth) respectively.
- The firm Capacity of PKED NEW also improves to 47.53%,(considering 5 years load growth).

Proposed Summer'30 Loading and projected load at PKED NEW PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	Paralakhemundi New	PTR-1	8	7.61	95%	>90%
2		PTR-2	8	3.07	38%	30%-40%
3		PTR-3	8	3.74	47%	40%-50%

Name of the Division: -	PKED
Name of the Sub-Division: -	Paralakhemundi
Name of the Section: -	Pkd Rural
Name of the Work: -	Mitigation of 33/11kV PTR Overloading
Scope: - Names of Schemes: -	New 8 MVA 1 No. Power Transformer TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	New 8 MVA 1 No. Power Transformer	2.92
	Total Amount (In Cr)	**2.92**

Benefits:

- To mitigate overloading condition on power transformers.
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

12.0 Sick Power Transformer replacement at 33/11 KV ASKA Substation

Proposal:

Replacement of existing 1 No. Sick 33/11kV, 8 MVA Power Transformer (PTR-3) 8 MVA at ASKA 33/11kV Substation in AED-I division of Aska Circle to mitigate unreliability due to performance degradation

Existing Scenario:

- ASKA PSS has 3 Nos. of PTR of (8 MVA Each).
- This PSS supplies Energy to NAC Area along with prominent Government Organizations around ASKA.
- 8 MVA PTR- 1, is feeding 11KV Gangapur feeder with load of 2.5 MVA & loaded at 30% (44% considering 5 years load growth).
- 8 MVA PTR- 2, is feeding 3 Nos. 11KV feeders with a combined load of 4.05 MVA (11KV Jokabandha feeder, 11KV Medical feeder & 11KV Sheragada feeder) & loaded at 51% (70% considering 5 years load growth).
- 8 MVA PTR - 3, is feeding 11 kV Aska Bus Stand feeder with loading of 3.05 MVA & loaded at 38% (53% considering 5 years load growth).
- The % Loading wrt. firm capacity of ASKA PSS is 59.88%.
- PTR 3 with manufacturing year of 2002 is Oil deteriorated -high moisture (35 ppm), IFT low (20 mN/m), Acidity (0.08 mg KOH/g)

Existing Summer'25 Loading and projected load at ASKA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	AS IS (Summer'25)			Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range	Peak Load	% Loading	%Loading Range
1	Aska	PTR-1	8	2.48	31%	30%-40%	3.42	43%	40%-50%
2		PTR-2	8	4.05	51%	50%-60%	5.59	70%	70%-80%
3		PTR-3	8	3.05	38%	30%-40%	4.21	53%	50%-60%

Proposed Scenario:

To improve reliability at ASKA PSS, the following has been proposed: -

- Replacement of PTR-3 with 8 MVA.

Proposed Summer'30 Loading and projected load at ASKA PSS PTRs:

Sl No.	Name of 33/11kV PSS	PTR No.	PTR Rating (MVA)	Projected Load (5yrs. Load Growth)		
				Peak Load	% Loading	%Loading Range
1	ASKA	PTR-1	8	3.42	43%	40%-50%
2		PTR-2	8	5.59	70%	70%-80%
3		PTR-3	8	4.21	53%	50%-60%

Name of the Division: -	AED-I
Name of the Sub-Division: -	Aska
Name of the Section: -	Aska
Name of the Work: -	Reliability enhancement of 33/11kV PTR
Scope: -	Replacement of 01 No. sick Power Transformers of PTR-3, 8 MVA
Names of Schemes: -	TPSODL CAPEX FY 2026-27

ABSTRACT OF ESTIMATE		
Sl. No.	**Description**	**Amount**
1	Replacement of 01 No. Power Transformers of PTR-3 to 8 MVA	1.79
	Total Amount (In Cr)	**1.79**

Benefits:

- To improve reliability & firm capacity of PSS
- To cater future load growth of the consumer.
- To ensure reliable power supply to the consumers.

Table 45: Cost Expenditire for PTR Augmentation

Sl. No	Circle	Division	PSS	Existing Rating (in MVA)	Proped Rating (in MVA)	Total Estimated Cost (Rs.in Cr.)
1	Jeypur	KED	OMP	1.6	8	2.59
2	Jeypur	NED	Adhikariguda	5	8	1.79
3	Jeypur	NED	Jodinga		8 (new)	2.94
4	Jeypur	MED	MV-79	3.15	5	1.15
5	Aska	AED-2	Paikajamuna	5	8	1.79
6	Aska	AED-2	Buguda	5	8	1.79
7	Bhanjanagar	PED	Phulbani	5	8	1.79
8	Bhanjanagar	BNED	Bhanjanagar	3.15	8	1.79
9	Bhanjanagar	BNED	Lalsingh	1.6	5	1.15
10	Bhanjanagar	BOED	Baunsuni	3.15	8	1.79
11	Raygada	PKED	PKED NEW	8	8 (new)	2.92
Total Cost A (Rs. In Cr.)						**21.45**

Table 46:Cost Expenditure for Old Aged PTR & Reloaction

Sr No	Circle	Division	PSS	Existing Rating (in MVA)	Proped Rating (in MVA)	Total Estimated Cost (in Rs. Cr.)
12	Aska	AED-1	Aska	8	8	1.79
B.	**Total Cost B (Rs. In Cr.)**					1.79
13	**Relocation of 5 No. s PTR**					0.98
C,	**Total Cost C (Rs. In Cr.)**					0.98
Grand Total (A+B+C) (Rs. In Cr.)						**24.22**

Cost Benefit Analysis is provided in Annexure 9 and Detailed unit BOQ is provided in Annexure 6

4.4.2 Augmentation / addition of Distribution Transformer/Replacement of OLD aged DTR/Conversion of Single phase to Three phase DTs/Relocation

173. To cater the increasing load demand, especially with the introduction of various schemes, DTR augmentation is required to avoid overloading of transformer which can lead to transformer failure and power interruptions. Also, to ensure reliable power supply to our consumers, Distribution Transformers need to be kept at optimum loading to avoid any mechanical stress on the transformers due to overloading.

174. As per standard practice, DTR need to be loaded up to 80% and any DTR above 80% loading needs to be considered for mitigation. To avoid these overloading issues where the load growth is high, it is required to augment the capacity of the Distribution transformers. It will provide benefit to consumers by providing reliable power supply due to reduction in forced Outages.

175. In this proposal, TPSODL intends to carry out Distribution Transformer's augmentation for those DTRs which are identified as overloaded at various locations. Additionally, the reuse of freed Distribution Transformers (DTRs) from augmented units is being considered to mitigate overloading at other locations, thereby enhancing the utilization of existing assets.

176. In TPSODL we have many DTs and network which are of Single phase. We have initiated to convert single phase DTs to 3 phase DTs in phased manner. In this FY 27 capex we have considered the overloaded Single-phase DTs for conversion to 3 phase DTs with higher rating.

177. Moreover, many of the DTs are old aged. Few of the old aged DTs are considered for replacement to prevent sudden failure and power interruptions.

Benefit

- The proposal will help in Mitigation of overloading DTRs. Thus, it will lead into lower interruption and good quality power hence leading to satisfaction of our consumers.
- Improve Voltage Profile at consumer end.
- Reduction of technical loss

- Improve the operational efficiency
- Existing DTR freed after Augmentation will be reused at other location of DSS for mitigation of lower rating if overloaded DTR after necessary testing & minor life-enhancement measures as per requirement. This will help in Multiple swapping and Cost optimization.

178. Based on the above, the Capital Expenditure on augmentation/addition of Distribution Transformer proposed in FY 2026-27 is presented in the table below

Table 47 Cost Estimates for Augmentation and Addition of DTRs

S.no	Activity	UOM	Unit Cost In Rs.	Total Quantity	Total Estimated Cost (in Rs Cr.)
1	Augmentation of 25 KVA	Nos.	5,17,781.34	3	0.16
2	Augmentation of 63 KVA	Nos.	4,16,792.33	8	0.33
3	Augmentation of 100 KVA	Nos.	5,02,247.51	15	0.75
4	Augmentation of 250 KVA	Nos.	12,53,459.01	26	3.26
5	Augmentation of 500 KVA	Nos.	22,64,805.07	17	3.85
	Sub Total(A)			**69**	**8.35**
1	Addition of New DTR-25 KVA	Nos.	5,17,781.34	19	0.98
2	Addition of New DTR-63 KVA	Nos.	6,25,959.44	19	1.19
3	Addition of New DTR-100 KVA	Nos.	7,11,048.89	26	1.85
4	Addition of New DTR-250 KVA	Nos.	14,48,363.96	13	1.88
5	Addition of New DTR-500 KVA	Nos.	24,57,753.75	6	1.47
	Sub Total(B)			**83**	**7.38**
1	11 kV 1Ph to 3Ph Conversion	CKM	4,36,734.43	16.59	0.72
2	11kV New line Ext. For New DTR	CKM	16,50,997.20	16.99	2.81
3	Replacement of old Aged Sick DTs	Nos.		41	1.00
4	Relocation and reuse of released DTR	Nos.		73	1.54
	Sub Total(C)				**6.07**
1.	**Grand Total(A+B+C)**				**21.80**

Cost Benefit Analysis is provided in Annexure 9 and Detailed unit BOQ is provided in Annexure 6 and Detailed location is provided in Annexure 11.

Table 48 Road Map for DT Augmentation and 1Ph to 3Ph DT conversion

Sl. No.	Activity	UOM	Total Scope across System	Planned so far (up to FY'26 DPR)	Balance Requirement	Proposed under FY'27 DPR	Balance	Remarks
			A	B	C=A-B	D	E=C-D	
1	1-Ph to 3-Ph Conversion (DT's)	Nos	19215	101	19114	53	19061	Those DTRs which are critically overloaded are considered for augementation as well as conversion to 3Ph
2	3-Ph DTR - New & Augmentation	Nos	1530	826	704	225	479	Proposals are considered including reuse of released DT

Augmentation and addition of LT ABC line

179. The LT AB cable has been proposed for augmentation to address addition of LT feeders due to DTR augmentation or new addition. The augmentation of DTR requires augmentation of associated LT AB cable to cater the additional load to be served to consumers seamlessly and additionaly new LT Line is required for installation of new DT.

180. Based on the above, the Capital Expenditure on augmentation/addition of LT Line proposed in FY 2026-27 is presented in the table below

Table 49 Cost Estimates for Augmentation and addition of LT Line

S.no	Activity	Unit Cost In Rs.	Total Quantity	Total Estimated Cost in Rs. Cr.
1	Augumentation of LT ABC line with 35 sqmm	5,56,022.59	5.72	0.43
2	Augumentation of LT ABC line with 50 sqmm	6,40,174.52	18.85	1.72
3	Augumentation of LT ABC line with 95 sqmm	8,95,510.13	18.08	1.90
4	Augumentation of LT ABC line with 150 sqmm	14,32,940.46	1.00	0.14

S.no	Activity	Unit Cost In Rs.	Total Quantity	Total Estimated Cost in Rs. Cr.
5	Addition of new LT ABC line with 35 sqmm	8,61,220.41	3.79	0.40
6	Addition of new LT ABC line with 50 sqmm	9,47,842.35	9.10	2.13
7	Addition of new LT ABC line with 95 sqmm	12,06,282.72	16.68	3.61
8	Addition of new LT ABC line with 150 sqmm	17,43,713.06	0.14	0.14
	Total		**73.36**	**10.48**

Detailed unit BOQ is provided in Annexure 6 and Detailed location is provided in Annexure 11.

181. The total Capital Expenditure on Augmentation/Addition of DT along with associated HT/LT lines is as follows:

Table 50 Summary of Cost Estimates for Augmentation and addition of DT with LT Line

Sl. No.	Activities	Total Estimated Cost (Rs. Cr.)
a.	Augmentation and Addition of DTRs	21.8
b.	Augmentation and addition of LT ABC line	10.48
2.	**TOTAL**	**32.28**

4.4.3 Augmentation and addition of LT ABC line

182. The existing LT network in various areas under TPSODL haves become significantly aged, deteriorated, and in many cases, damaged. As a result, it is currently unable to adequately cater to the existing load demands, leading to poor voltage profiles, high technical losses, and frequent consumer complaints.

183. Furthermore, with the ongoing urban expansion and the development of new residential and commercial areas, there is a projected increase in future load. To ensure reliable and quality power supply, it is imperative to extend the LT network from existing Distribution Substations (DSS) into these newly developed and developing regions.

184. This proposal focuses specifically on two key components:

- **LT Augmentation** - The LT Line which is overloaded due to undersized capacity is proposed for Augmentation
- **New LT Extension** from existing DSS

185. It is important to highlight that this proposal is **independent and distinct** from the LT works already proposed under the New Distribution Transformer and DT Augmentation schemes.

186. By implementing this LT network augmentation and extension, TPSODL aims to:

- Ensure Quality supply at consumer ends.
- Enhance reliability of power supply.
- Reduce technical losses.
- Prepare the network for anticipated future load growth.
- This infrastructure strengthening initiative is necessary for maintaining operational efficiency, consumer satisfaction, and regulatory compliance.

Table 51 Cost Estimates for Augmentation and addition of LT ABC Line

Sl. No.	Activity	Unit Cost (Rs Lakhs)	Quantity (Kms)	Total Estimated Cost (in Rs Cr.)
1	Augmentation of LT ABC line (16 to 35 sqmm)	5.51	4.83	0.27
2	Addition of LT ABC (35 sqmm)	8.69		0.00
3	Augmentation of LT ABC line (35 to 50 sqmm)	6.34	17.5	1.11
4	Addition of LT ABC (50 sqmm)	9.52		0.00
5	Augmentation of LT ABC line (50 to 95 sqmm)	8.88	7.04	0.63
6	Addition of LT ABC (95 sqmm)	12.06		0.00
3	**TOTAL**		**29.37**	**2.00**

Detailed unit BOQ is provided in Annexure 6 and Detailed location is provided in Annexure 11.

4.4.4 Capital Expenditure towards meeting providing the Service Line Connection

187. It is also observed that while extending supply to the single-phase consumers i.e less than 5 KW, the expenditure incurred by TPSODL is much higher than the amount paid by the consumer for extension of supply (Service Line charges). The amount proposed under this header (Rs. 10 Crores) would also cover the differential amount i.e amount incurred less amount recovered under this situation

188. An amount of Rs **68.49** Crores is proposed under this Load Growth head .

Table 52 Capital Expenditure requirement for Load Growth:

Sr No	Activities	Total Estimated Cost (in Rs Cr.)
1	New/Augmentation of PTR	24.22
2	Augmentation / addition of Distribution Transformer along with associated lines	32.28
3	Augmentation and addition of LT ABC line	2
4	Differential CAPEX to recover New Connections	10
	Load Growth (4)	**68.49**

4.5 Infrastructure -Technology & Civil

Background:

189. Over the past four financial years (FY2021–22 to FY2024–25), TPSODL has made notable progress in fortifying its IT infrastructure, expanding the end-user ecosystem, enhancing cybersecurity posture, and deploying critical business applications. These initiatives have enabled seamless business operations, supported digital transformation, and improved service reliability.

190. Key achievements include:

- Establishment of Tier-III Data center to host the IT & OT Applications.
- Successfully implemented the ISMS framework and achieved ISO 27001:2022 certification.
- Implementation of secure and scalable compute and storage infrastructure at the Data Center (DC) and Disaster Recovery (DR) sites to support GIS, SCADA, ADMS, 5 lakh AMI infrastructures (HES/MDM/SPM), and bespoke applications including billing and collection systems and website.
- Deployment of 2,400+ end-user computing devices (laptops, desktops, tablets) and 274 Multifunction device printers across corporate and field offices, enabling field-force digitization and process automation.
- Establishment of MPLS/OFC/VSAT-based connectivity at 170+ IT Enterprise Offices and 210 + OT PSS locations, ensuring uninterrupted access to mission-critical applications like SCADA, ADMS, SAP, GIS, CIS, AMI, and billing systems.
- Adoption of essential software licenses across end-user devices and DC–DR infrastructure to ensure productivity, security, and IT compliance.
- Introduction of foundational cybersecurity frameworks—including Antivirus, Patch Management, SIEM, Firewalls, DDoS protection, WAF, and ATP—and alignment with early-stage CERT-In, MeitY guidelines, ISO 27001 Standard and IT Act compliance.

These advancements have significantly improved operational efficiency, internal controls, customer responsiveness, and compliance readiness.

191. The Technology related CAPEX for FY 26–27 is proposed under the following key schemes, continuing from the prior approved CAPEX heads:

4.5.1 Build & Strengthen DC–DR Infrastructure & End-User IT Hardware

192. To meet the increasing demands of digital operations and ensure future readiness, the following IT infrastructure and hardware requirements have been proposed:

- AMI (HES & MDM) DC and DR Infrastructure needs augmentation to support the data processing and storage of 1 lakh smart meters.
- IPDS Data Centre infra to be Augmented for additional support 3.5 lacs consumers.
- MFD Printers are required in 10 IT offices for smooth document handling, printing, and scanning needs.
- Laptops and Desktops are needed for new users, replacements of aging assets.
- Network Equipment like routers and switches are required for IT offices and OT PSS locations to enhance connectivity.
- UPS with Battery are proposed to provide backup power and safeguard network equipment (routers and switches) from sudden outages.
- Office LAN Point Setup is essential to provide wired network access at newly created workstations/office expansions/Office shifting cases.
- Wi-Fi Access Points & Other IT Equipment are required to extend wireless coverage and support flexible work environments at TPSODL offices.

193. Benefits of the Investment:

- Augmented compute and storage capabilities at DC & DR to support expansion of AMI infrastructure for 1 lakh TPSODL consumers and 3.5 lacs consumer's CIS system
- Provisioning of laptops, desktops, and printers to support seamless workflows, mobility, and digital field operations.
- Deployment of routers, switches, Wi-Fi, UPS systems, and LAN points to ensure uninterrupted connectivity and power for critical IT and OT operations.

Table 53: Capital Expenditure of Build & Strengthen DC–DR Infrastructure & End-User IT Hardware

Sl. No.	Scheme	Description	Total Estimated Cost (in Rs Cr.)
a.	Build & Strengthen DC–DR Infrastructure & End-User IT Hardware	Procurement of end-user devices, network equipment, augmentation of AMI, and MBC infra augmentation.	7.53

Detailed cost estimate is provided in Annexure 7: Infrastructure and Technology

4.5.2 IT Applications & Software:

194. To support the scaling of smart infrastructure and enable seamless office operations, the following software solutions and associated services are required:

- AMI License Augmentation for 1 Lakh Meters is required to support expanded Advanced Metering Infrastructure, including database, OS, VM, and Head-End System (HES) licenses for additional meter data processing and system performance.
- CIS (Consumer Information system) Solutions is proposed to automate and streamline the billing, collection, and customer account management processes.
- Office Automation Tools (e.g., MS Office, Nitro Pro, Canva, AutoCAD) needed to equip teams with essential productivity, documentation, and design tools for day-to-day operations across TPSODL departments.

195. Benefits of the Investment:

- Licensing for AMI (DB, OS, VM, HES) to support 1 lakh additional meters, ensuring smooth integration and reliable system performance.
- Augmentation/Upgrade of CIS (MBC) solutions to streamline billing and collection workflows, reduce revenue leakage, and improve customer lifecycle management.
- Deployment of MS Office, AutoCAD, Canva, and other automation tools to improve documentation, design, and reporting capabilities on end user systems.

Table 54 :Capital Expenditure of IT Applications & Software

Sl. No.	Scheme	Description	Total Estimated Cost (in Rs Cr.)
b.	IT Applications & Software	Digital enablement of end-user devices will be undertaken in accordance with IT compliance standards, along with the planned augmentation of licenses for AMI and MBC applications.	4.85

Detailed cost estimate is provided in Annexure 7: Infrastructure and Technology

4.5.3 Cybersecurity Solutions:

Cybersecurity Enhancement Proposal:

196. To strengthen the organization's cybersecurity posture and ensure compliance with ISO/IEC 27001, CERT-In guidelines, and mandates from the Ministry of Power, Ministry of Electronics and Information Technology (MeitY), and other relevant

government agencies, we propose the implementation of a comprehensive suite of advanced cybersecurity solutions and data protection controls.

Proposed Cybersecurity Initiatives:

197. The following measures are recommended to enhance cyber resilience, ensure regulatory compliance, and mitigate operational risks across both IT and OT environments:

- Deployment of Network Intrusion Prevention System (NIPS) and Network Detection and Response (NDR) for real-time threat monitoring and mitigation.
- Expansion of Patch Management and Antivirus Coverage to ensure all endpoints and servers are protected against known vulnerabilities and malware.
- Establishment of a Unified Security Operations Center (SOC) to integrate existing SIEM systems and provide centralized visibility, threat intelligence, and coordinated incident response.

198. **Implementation of Secure Access Technologies:**

- Zero Trust Network Access (ZTNA) for granular, application-level access control.
- Virtual Private Network (VPN) for encrypted remote access.

199. **Data Protection and Access Controls:**

- Data Loss Prevention (DLP) to prevent unauthorized data exfiltration.
- URL Filtering to block access to malicious or non-compliant web content.
- Role-Based Access Controls (RBAC) to enforce least-privilege access.
- These initiatives are designed to align with the Digital Personal Data Protection (DPDP) Act, 2023, which mandates lawful, transparent, and secure processing of personal data

200. **Risk Assessment and Mitigation Priorities**

We have identified the following high-priority cybersecurity risks and corresponding mitigation strategies:

Risk Priority	Risk Description	Mitigation Strategy
1	Non-compliance with the DPDP Act may lead to legal penalties and reputational damage.	Implement DLP, access controls, and consent-based data processing mechanisms.
1	Lack of integration between existing SIEM and the upcoming Unified SOC for TP Odisha Discoms.	Integrate SIEM with SOC for centralized threat detection and response.

1	Traditional VPNs lack granular access control.	Deploy ZTNA for secure, application-specific access.
1	Absence of patch management exposes systems to known vulnerabilities.	Enforce automated patch management across all assets.
1	Unprotected endpoints and servers are vulnerable to malware and ransomware.	Deploy enterprise-grade antivirus and endpoint protection.
2	Lack of NDR/NIPS increases risk of undetected lateral movement and advanced threats.	Deploy NDR/NIPS for proactive

201. **Benefits of the Investment:**

- Strengthened Cyber Resilience: Advanced security solutions (NIPS/NDR, Unified SOC) to proactively detect, respond, and mitigate threats across IT and OT networks.
- DPDP Act 2023 Readiness: Deployment of VPN, ZTNA, DLP, URL Filtering, and Access Controls ensures secure data handling, remote access, and alignment with national data protection regulations.
- Centralized Threat Visibility: Unified SOC facilitates real-time security monitoring and faster incident response, reducing business risk and downtime.
- Regulatory & Standards Compliance: Ensures adherence to ISO 27001:2022, MeitY, CERT-In, and IT Act guidelines, minimizing legal and reputational risks

Table 55: Capital Expenditure for Cybersecurity Solutions

Sl. No.	Scheme	Description	Total Estimated Cost (in Rs Cr.)
c.	Cybersecurity Solutions	Deployment of security solutions and DPDP Act compliance	9.46

Detailed cost estimate is provided in Annexure 7: Infrastructure and Technology

202. Detailed summary of the investments uner Technology Infrastructure Head are given in the below mentioned table:

Table 56 Cost Estimates for Infrastructure and Technology

Sl. No.	Scheme	Description	Total Estimated Cost (in Rs Cr.)
a	Build & Strengthen DC–DR Infrastructure & End-User IT Hardware	Procurement of end-user devices, network equipment, augmentation of AMI, and MBC infra-augmentation .	7.53

Sl. No.	Scheme	Description	Total Estimated Cost (in Rs Cr.)
b	IT Applications & Software	Digital enablement of end-user devices will be undertaken in accordance with IT compliance standards, along with the planned augmentation of licenses for AMI and MBC applications.	4.85
c	Cybersecurity Solutions	Deployment of security solutions and DPDP Act compliance	9.46
1.		**Total Estimated Cost**	**21.84**

Infrastructure-Civil & Admin

4.5.4 Restructuring/Refurbishment of Infrastructure at Office and Stores

203. TPSODL have 245 numbers of established offices (O&M and other supportive functions such as EMR, vigilance) across 48751 Sq. Km area of TPSODL. Some of them are owned and others are on rented property. The condition of some existing establishments is either totally dilapidated requiring replacement by new structure or the offices are so bad that they need to be reinstated with major refurbishment /restructuring works increasing life of the structure. This bad condition of the structures is due to aging (approximately 40 to 50 years).

204. These offices require immediate attention to bring them to basic prevailing standards of any office to be occupied. This work is taken up since FY22 and is being done judiciously in phased manner spread over more than one year. Total offices attended till FY25 i.e. over 4 years are 181 in numbers. Targeted office in FY26 is 1 under approved budget making a total to 182. Now in FY 27 we propose to cover total 12 offices (1 division office & 11 SDO/Section offices) as a part of TPSODL continuing endeavor towards providing safe, hygienic & reasonably good working environment with appropriate ventilation to staff. There would be about 34 offices balance to be addressed due to land availability and legal issues. A separate proposal to the same will be putup for due consideration subsequent years.

205. TPSODL is planning to improve the office infrastructure through revamping and other civil interventions. These activities are urgently needed to provide conducive work environment to TPSODL employees and all consumer visiting TPSODL offices for one or the other work.

206. TPSODL has a large area sprad under control as explained earlier and Jeypore Circle covers the maimum i.e. about 2/3 rd of area. This necessitates having a zonal office at Jeypore that would facilitate to accommodate key Corporate buiseness functions e.g. Finance, Commercial, Operation and safety for having better control in alignment with corporate at Berhampur. It is proposed develop a new establishment for this purpose.

207. Further TPSODL has 4 zonal stores across various circle and 1 main store at Berhampur, were required major maintainance which has been taken up and rectified since FY22 in a phased manner till current FY.

208. Since FY22 several works such as partial road works, partial boundary wall, refurbishment of existing sheds at Main store, DT workshop at Main store open shed at Main store and partial road works at Jeypore, Bhanjanagar, Phulbani, etc., were take up addressing issues to some extent. However, considering increasing material storage & its handling with growing Government projects requirement across the overall spread and overall system sufficiency improvement works, following civil activities are required to be taken up may be in phased manner.

209. It is targeted to cover following activities in the year FY2026-27.

- Concrete approach roads to avoid repetitive maintenance & to overcome uneven surfaces leading to safety hazards to heavy vehicles – 500 Running Meter.
- Sewage System and Rain water disposal system – 500 Running Meter each at Berhampur and Jeypore Store.
- Washrooms at store to maintain proper hygiene for employees – 4nos (1nos. each at Berhampur, Jeypore, Bhanjanagar and Raygada).
- E-Waste and Hazaradous material dump yard as per Environmental policy which includes Boundary wall, Platform for Transformer Storage to avoid oil leakage into the ground, drainage – 1no. at Jeypore store.
- Firm & rigid concrete platforms for storing critical material like MU, CT, PT etc. – 1000 m2 at Berhampur Store.

Table 57 Cost Estimates for Civil and Admin infrastructure

S.No.	Description of Project	Total Estimated Cost (in Rs Cr.)
a	TPSODL Office restructuring/rebuilding	9.60
b	Zonal office Jeypore	2.00
c	Store	4
(a, b, c)	**Total**	**15.6**

Detailed cost estimate is provided in Annexure 6: Unit BoQ Details

4.5.5 DT Workshop – Civil Infrastructure

210. To enhance the operational efficiency, maintenance standards, and capacity enhancement of distribution transformers within the TPSODL network, it is imperative to organize a dedicated Distribution Transformer Workshop at Jeypore. This initiative aims to upgrade technical expertise, improve transformer performance, and ensure reliable power distribution across the region.

211. **Objective:** Operation, and maintenance of distribution transformers.

The estimated additional CAPEX budget will facilitate the procurement of necessary resources, ensuring the workshop's effectiveness and sustainability.

Table 58 Cost Estimates for DT Workshop at Jeypore

S.No.	Description of Project	Quantity	Total Estimated Cost (in Rs Cr.)
d	DT Work Shop at Jeypore	1	2.26

Detailed unit BOQ is provided in Annexure 6

4.5.6 Rooftop Solar and Rain Water Harvesting

212. In line with company's commitment on reducing carbon footprints, provision of Roof Top Solar plants for auxiliary consumption of the power of the offices are considered.

213. Based on earlier two-year Budget approval for FY25 & FY26 the Grid Connected Roof Top solar capacity 396.4 Kw was installed during FY25 and 283.5 kw is currently under installation. As a continual endeavor towards reduction of carbon footprint we propose to install about 490 kw capacity of roof top solar power plants in FY27 on our establishments.

214. An amount of Rs 2.00 Crore has been proposed for installation of Roof Top Solar at offices spread across 6 circles optimizing the mix of Green Power with Grid supplied power in FY 2027.

215. A rainwater harvesting system has been proposed to be installed at the primary power substation to promote sustainable water use. Rainwater collected from rooftops is to be filtered and stored for non-potable applications like cleaning and landscaping. Excess water is directed to recharge earthing pits to help replenish groundwater.

Table 59 Cost Estimates for Rooftop Solar and Rain Water Harvesting

S.No.	Description of Project	Quantity	Total Estimated Cost (in Rs Cr.)
e	Roof Top Solar and Water harvesting		2.5

4.5.7 Admin Infrastructure

216. Provision of various essential requirements at Circle/Division/Sub-Division/Section & other Offices: It is essential to make availability of the potable water for the staff to meet the one of the major requirements of basic amenities. Water Coolers, Dispensers and water purifiers /Ros are to be provided at each of the office locations. Some of the locations, at present, do not have the adequate water facility, hence there is immense need of making appropriate arrangements to make availability of potable water facility at some TPSODL offices.

217. Some of the locations, at present, do not have backup power (Inverter) facility. It is proposed to provide emergency power backup supply systems like inverters & batteries. In order to maintain the minimum light backup during absence of main source of power. Mini Load of lights, Fans, PC, Laptop require power backup. It helps us to smoothen our official Work for our key offices.

218. Some of the ceiling fans & wall fans within the office's premises are old and not working properly. Locally repaired most of the times but could not run properly. Also, new coming offices requires fans to maintain ventilation within office So, it is proposed to cater this facility by purchasing new fans which helps employees to work in good working environment.

219. Cushion fibre chairs are proposed to facilitate different offices across TPSODL so that employees can sit and work comfortably. Also this chairs can be the substitute of damaged chairs which cannot be repaired.

220. It is proposed to provide office furniture accessories Like, Iron Almirah, steel dustbins and files cabinets for our key offices.

Table 60 Cost Estimates for Admin Infrastructure

S.No.	Description	Total Estimated Cost (in Rs Cr.)
1	Water Purifier – Cooler	0.28
2	Invertors & Batteries	0.24
3	Office Furniture & Portable Water arrangement	0.68
f	**Total**	**1.20**

221. Detailed summary of the investments under Infrastructure-Civil & Admin are given in the below mentioned table:

Table 61 Cost Estimates for Infrastructure-Civil & Admin

Sr. no.	Description of Project	Total Estimated Cost (in Rs Cr.)
a	TPSODL offices Restructuring (Division, SDO, Section)	9.60
b	Zonal office Jeypore	2.00
c	Store	4.00
d	DT Workshop at Jeypore	2.26
e	Roof Top Solar & Water Harvesting at offoices & PSS	2.50
f	Ready to Use Admin Asset	1.20
2	**TOTAL**	**21.56**

222. Capital Expenditure requirement for Infrastructure-Technology & Civil is provided below: -

Table 62 Capital Expenditure requirement for Infrastructure-Technology & Civil:

Sr No	Activities	Total Estimated Cost (in Rs Cr.)
1	Infrastructure- Technology	21.84
2	Infrastructure- Civil & Admin	21.56
	Infrastructure-Technology & Civil (5)	**43.40**

Annexure A: Glossary in terms

Glossary		Glossary	
AB SWITCH	Air Breaker Switch	MBC	Metering Billing and Collection
AC	Alternating Current	MCC	Master Control Centre
ADMS	Advanced Distribution Management System	MCCB	Moulded Case Circuit breaker
AMC	Annual Maintenance Contract	MMG	Meter Management Group
AMI	Automatic Meter Infrastructure	MRT	Meter Reading & Testing
APS	Area Power System	MS	Microsoft
AT&C	Aggregate Technical and Commercial	MU	Million Unit
BA	Business Associate	MV	Medium Voltage
BCC	Backup Control Centre	MVA	Mega Volt Ampere
BO	Business Output	MW	Mega Watt
BW	Business Warehouse	O&M	Operation & Maintenance
CAPEX	Capital Expenditure	ODSSP	Odisha Distribution System Strengthening Project
CC	Control Centre	OERC	Odisha Electricity Regulatory Commission
Ckt.KM	Circuit Kilo meters	OFC	Optic Fibre Cable
CRP	Control Relay Panels	O/H	Over head
CRC	Customer Relationship Centre	OPEX	Operational Expenditure
CT	Current Transformer	OPGW	Optical Ground Wire
CWIP	Current Work In Progress	OPTCL	Odisha Power Transmission Corporation Limited
DC	Direct Current	OS	Operating System
DMS	Distribution Management System	OT	Operational Technology
DOS	Distribution operation system	PSCC	Power System Control Centre
DPR	Detailed Project Report	PT	Potential Transformer
DSS	Distribution Sub-Station	PTR	Power Transformer
DTR	Distribution Transformer	ROW	Right of Way
EHT	Extra High Tension	RMU	Ring Main Unit
FCC	Fuse Call Centre	SAIDI	System Average Interruption Duration Index
FPI	Fault Passage Indicator	SAIFI	System Average Interruption Frequency Index
FY	Financial Year	SAP	System Application and Products
GIS	Geographical Information System	SCADA	Supervisory Control and Data Acquisition
GoI	Government of India	SD	Sales and Distribution
GOO	Government of Odisha	SDO	Sub Divisional Officer
GRIDCO	Grid Corporation of Odisha	SITC	Supply Installation Testing and Commissioning
GSS	Grid Sub Station	SLDC	State Load Dispatch Centre
HMC	Hub Maintenance Crew	STS	Sub Transmission System
HT	High Tension	T&D	Transmission and Distribution
IEC	International Electro technical Commission	TPCODL	TP Central Odisha Distribution Limited
IPDS	Integrated Power development scheme	TPNODL	TP Northern Odisha Distribution Limited
IT	Information Technology	TPSODL	TP Southern Odisha Distribution Limited
KM	Kilo meter	TPWODL	TP Western Odisha Distribution Limited
KV	Kilo Volt	U/G	Under Ground
KVA	Kilo Volt Ampere	UPS	Uninterrupted Power Supply
LT	Low Tension	PSS	Primary Sub Station
LTCT	Low Tension Current Transformer	LTDB	Low Tension Distribution Box
V	Voltage	LILO	Loop In Loop Out
ABC	Air Bunched Cable	MFD	Multi Function Devise
ARC	Auto Reclosure	MPLS	Multi Protocol Level Switching
CBM	Condition Based Maintenance	PPE	Personal Protective Equipment
CIS	Customer Information System	PPP	Public Private Partnership
CTC	Certified True Copy	PSC	Pre Stressed Concrete
Cr	Crores	RTU	Remote Terminal Unit
DD	Drop Down	SPM	Smart Prepaid Module
DGA	Dissolved Gas Analyser	TPC	Tata Power Company
DR	Disaster Recovery	VCB	Vaccum Circuit Breaker
FR	Fire Resistant	VSAT	Very Small Aperture Terminal
FRP	Fibre Reinforced Plastic	WPB	Wide Parallel Beam
FRTU	Field Remote Terminal Unit	XLPE	Cross Linked Poly Ethylene
HG	Horn Gap	EIC	Engineer -in-chief (Electricity)
HOTT	Hands On Technical Training	JE	Junior Engineer
IDC	Interest During Construction	HIRA	Hazard Identification and Risk Assessment
CDB	Cost Data Book	NH	National Highways
BOQ	Bill of Quantity		
BDV	Breakdown Voltage Test		
LA	Lightning Arresters		

ANNEXURE-1

(Board Approval Certified True Copy)

Certified True Copy of the Resolution passed at the
Board Meeting held on 23rd July 2025

"RESOLVED that Capital Expenditure (Capex) of the Company for FY27, be and is hereby approved, as under subject to the approval of Odisha Electricity Regulatory Commission (OERC):

(₹ in crore)

Sl. No.	Capex Head	Capex Budget for FY27	% Contribution
1.	Statutory and Safety	21.29	6
2.	Loss Reduction	19.11	6
3.	Network Reliability	177.24	54
4.	Load Growth	68.49	21
5.	Infrastructure- Technology	43.40	13
Total		**329.53**	**100**

Note: The proposed CAPEX cost is exclusive of Employee Cost and GRIDCO equity contribution in kind.

FURTHER RESOLVED that the Chief Executive Officer and Chief Financial Officer of the Company be and are hereby severally authorized to take all necessary steps in this regard."

Certified True Copy
For **TP Southern Odisha Distribution Limited**

Jeevanjyoti Nayak
(Company Secretary)
ACS No. 39658
TP Southern Odisha Distribution Limited
Kamapalli Square, Courtpeta
Berhampur, Ganjam, Odisha-760004

ANNEXURE-2

(Details of TPSODL Circle,Division & Sub-Division)

Circle Name	Division Name		Sub-Division Name	SDO CODE
1 CITY CIRCLE	1	BED-I Berhampur	Medical Sub- Division Berhampur	3411
			Industrial Sub- Division Berhampur	3414
			Gopalpur Sub- Division Berhampur	3412
	2	BED-II Berhampur	SSD No-l	3421
			SSD No-III	3422
	3	BED-III Berhampur	SSD No-IV	3432
			Kanisi S/D	3431
2 BERHAMPUR CIRCLE	4	GNED Chatrapur	Chatrapur S/D	2111
			Rambha S/D	2112
	5	PSED Purusottampur	Khallikote S/D	2113
			Kodala S/D	2143
			Purushottampur S/D	2141
			Polasara S/D	2142
	6	HED Hinjilicut	Sheragada S/D	2152
			Hinjilicut S/D	2151
3 ASKA CIRCLE	7	AED-I Aska	Aska S/D	3511
			Nuagam S/D	3513
	8	AED-II K S NAGAR	K S NAGAR	3522
			BUGUDA	3523
	9	GSED Digapahandi	Digapahandi S/D	3531
			Chikiti S/D	3532
4 BHANJANAGAR CIRCLE	10	BNED Bhanjanagar	No 1 Bhanjanagar Sub-Division	2911
			No 2 Bhanjanagar S/D	2915
			Sorada S/D	2912
			Bellaguntha S/D	2913
	11	PED Phulbani	Phulbani S/D	2921
			Balliguda S/D	2922
			G Udayagiri S/D	2923
	12	BOED Boudh	BOUDH S/D	2931
			MANMUNDA S/D	2932
5 RAYAGADA CIRCLE	13	RED Rayagada	Rayagada S/D	3111
			Therubali S/D	3112
			Bissam Cuttack S/D	3113
	14	PKED Paralakhemundi	Paralakhemundi S/D	3121
			Kasinagar S/D	3122
			Upalada S/D	3124
			R Udayagiri S/D	3125
			Mohana S/D	3123
	15	GED Gunupur	Gunupur S/D	3131
			Gumuda S/D	3132
6 JEYPORE CIRCLE	16	JED Jeypore	JESD-1 JEYPORE	7111
			JESD-2 JEYPORE	7114
			SDO BORIGUMMA	7115
	17	KED Koraput	Koraput S / D	7141
			Sunabeda S/D	7142
			Laxmipur S/D	7143
	18	MED Malkangiri	Malkangiri S / D	7131
			Balimela S/D	7132
	19	NED Nabarangpur	Nabarangpur S/D	7121
			Umarkote S / D	7123
			Papadahandi S/D	7124

ANNEXURE-3

(List of GSS of OPTCL in TPSODL)

List of Grid substation of OPTCL in TPSODL

Sl. No.	Name of Grid Sub Station	District	Installed Capacity (MVA)	Year of Commissioning
A.220/132/33KV GSS				
1	Aska New	Ganjam	2x160 MVA, 220/132 kV 1x40 + 1x20 MVA, 132/33 kV	2019
2	Bhanjanagar	Ganjam	2x160 MVA, 220/132 kV 2x40 + 1x20 MVA, 132/33 kV	1984
3	Gunupur	Rayagada	2x160 MVA, 220/132 kV 2x20 MVA, 132/33 kV	2021 (132 kV) 2022 (220 kV)
4	Jayanagar	Koraput	2x160 MVA, 220/132 kV 3x20+1x12.5 MVA, 132/33 kV	1980
5	Narendrapur	Ganjam	2x160 +1x100MVA, 220/132 kV 3x40+1x20 MVA, 132/33 kV	1999
6	Therubali	Rayagada	2x100+1x160 MVA, 220/132 KV 2x12.5 MVA, 132/33 kV	1974
B.220/33KV GSS				
7	Balimela	Malkangiri	1x40 +1x20 MVA, 220/33 kV	2007
8	Govindpalli	Malkangiri	2x20 MVA, 220/33 kV	2020
9	Kalimela	Malkangiri	2x20 MVA, 220/33 kV	2022
10	Kasipur	Rayagada	1x20 MVA, 220/33 kV	2019
11	Malkangiri	Malkangiri	2x40 MVA, 220/33 kV	2017
12	Laxmipur	Koraput	2x20MVA, 220/33kV	2013
C.132/33KV GSS				
13	Akhusingh	Rayagada	2x12.5 MVA, 132/33 kV	2001
14	Aska	Ganjam	3x40 MVA, 132/33 kV	1975
15	Balugaon	Khurda	1x40+1x20+1x12.5 MVA, 132/33 kV	1991
16	Berhampur	Ganjam	3x40 MVA, 132/33 kV	1964
17	Boriguma	Koraput	2x20 MVA, 132/33 kV	2023
18	Boudh	Boudh	2x20 MVA, 132/33 kV	2015
19	Chhatrapur	Ganjam	3x20 MVA, 132/33 kV	1982

20	Chikiti	Ganjam	1x40+1x20 MVA, 132/33 kV	2019
21	Dabugaon	Nabarangpur	2x12.5+1x20 MVA, 132/33 kV	2015
22	Digapahandi	Ganjam	2x20+1x12.5 MVA, 132/33 kV	2004
23	G. Udaygiri	Kandhamala	2x20 MVA, 132/33 kV	2021
24	Ganjam	Ganjam	1x12.5 + 1x20 MVA, 132/33 kV	1967
25	Hinjili	Ganjam	2x20 MVA, 132/33 kV	2022
26	Muniguda	Rayagada	1x12.5 + 1x20 MVA, 132/33 kV	2017
27	Mohana	Gajapati	2x12.5 MVA, 132/33 kV	1973
28	Nabarangpur	Nabarangpur	2x20 MVA, 132/33 kV	2021
29	Paralakhemundi	Gajapati	3x12.5 MVA, 132/33 kV	2001
30	Patangi	Koraput	1x20 + 1x12.5 MVA, 132/33 kV	2019
31	Phulbani	Kandhamala	2x40+1x12.5 MVA, 132/33 kV	1986
32	Podagada	Koraput	1x12.5 + 1x20 MVA, 132/33 kV	2018
33	Purusottampur	Ganjam	2x12.5+1X20 MVA, 132/33 kV	2013
34	Rayagada	Rayagada	1x20+2x12.5 MVA, 132/33 kV	1962
35	Sonepur	Sonepur	2x40+1x20 MVA, 132/33 kV	2001
36	Sunabeda	Koraput	1x20+2x12.5 MVA, 132/33 kV	1964
37	Tentulikhunti	Nabarangpur	2x20+1x12.5 MVA, 132/33 kV	1986
38	Umerkote	Nabarangpur	2x20+1x40 MVA, 132/33 kV	2015

ANNEXURE-4

(Safety & Testing Equipments Detailed Estimated BoQ)

1.Safety Equipment

Sl No	Description	Unit	Qty	Unit rate (Rs)	Total Estimated Cost (in Rs Cr)
1	HoTT (Hand on Technical Training) Center Equipments & Displays	Set	1	6000000	0.6
2	Digital Interconnectivity of all HoTT centers	Set	4	1000000	0.4
3	Discharge Rod for 11-33-66 KV	Nos	150	18000	0.27
4	Industrial Neon Testor 11-33-66 KV (NCVD)	Nos	50	28000	0.14
5	Fire Extinguishers	Nos	200	2500	0.05
6	Manual Tree Prunners	Nos	150	22000	0.33
7	Safety Innovation Project	Nos	10	300000	0.3
Grand Total					**2.09**

2. Electrical Testing Equipment

Sr No	Description	Unit	Qty	Unit Rate (in Rs.)	Total Estimated Cost (Rs in Cr)
1	3-phase variac air cooled-20Amps	Nos	14	12142.9	0.017
2	Portable automatic Dielectric frequency response analyser with software, accessories	Nos	2	3245000	0.649
3	Relay Test bench	Nos	1	1000000	0.1
4	Online Moisture Removal System for transformers	Nos	1	1000000	0.1
5	HVB10 bridge rectifier kit for cables fault finding	Nos	1	2500000	0.25
6	FLIR thermo vision camera	Nos	30	60000	0.18
7	3phase 15 KVA Stabilizers	Nos	14	81428.6	0.114
Total					**1.41**

3. Electrical Testing Equipment- DTR Work Shop at Jeypore

Sr No	Description	Unit	Qty	Unit Rate (in Rs.)	Total Estimated Cost (in Rs Cr.)
1	Transformer Test Bench	Nos	1	5180000	0.518
2	D.G. EOT 2 Ton	Nos	1	1650000	0.165
3	Air Drying Oven 15KW	Nos	1	3200000	0.32
4	Transformer Coil Winding Machine (LV)	Nos	1	610000	0.061
5	Transformer Coil Winding Machine (HV)	Nos	1	450000	0.045
6	LV Winding Paper Wrapping Machine	Nos	1	280000	0.028
7	HV Winding Paper Wrapping Machine	Nos	1	170000	0.017
8	Shearing Machine 52" Hand Operated	Nos	1	90000	0.009
9	Oil Filtration Machine 1600LPH	Nos	1	1100000	0.11
10	2 KL Storage Tank	Nos	1	330000	0.033
11	Air Compressor 3 HP	Nos	1	280000	0.028
12	Welding Machine 3 ph, Welding Room Size	Nos	1	130000	0.013
13	Hand Pallet Truck 2 Ton (Height 3") - 2 NOS	Nos	2	20000	0.004
14	MEGGER	Nos	1	170000	0.017
15	DC Resistance Meter	Nos	1	10000	0.001
16	Various type of Tools & Tackles	LS	1	-	0.038
17	Electrification of the TRW, along with 3 PH & 1 PH Wiring with PDB Installation	LS	1	-	0.18
	Total				**1.59**

ANNEXURE-5

(Energy Audit Program)

S. No.	Description	Unit	Qty	Unit cost (In Rs.)	Total Estimated Cost (in Rs.Cr)
	DTR Metering				
1	Three Phase DT (3 phase 4 wire LTCT Mtr)	Nos	5000	6122.6	3.06
2	Box TP F/LTCT Smart Meter 400/5A W/CMP CT	Nos	125	16390	0.2
3	Box TP F/LTCT Smart Meter 200/5A W/CMP CT	Nos	50	10448.9	0.05
4	Box TP F/LTCT Smart Meter 100/5A W/CMP CT	Nos	4825	9020	4.35
5	Meter Seal	Nos	50000	5.91	0.03
6	Service Cost (Meter + Box)	Nos	5000	3429.32	1.71
7	Cable Installation Cost	Per Loc.	750	1842.99	0.14
8	Cable Supply 50 sq mm	Mtr.	7237.5	378.41	0.27
9	Cable Supply 95 Sqmm	Mtr.	75	648.25	0
10	Cable Supply 150 Sqmm	Mtr.	75	1044.99	0.01
11	Cable Supply 300 Sqmm	Mtr.	75	1856.18	0.01
	Total Cost (A)				**9.85**

S. No.	Description	Unit	Qty	Unit cost (In Rs.)	Total Estimated Cost (in Rs.Cr)
	33KV level				
1	Meters with Meter Box	Nos	200	19382.68	0.3
2	GSS Panel	Nos	20	64900	0.13
3	Control Cable	Mtr.	1600	354.5	0.06
4	Installation of meter with meter box and cable	Set	200	1641.38	0.03
5	Installation of meter panel at GSS + Cable	Nos	20	15000	0.03
	11KV Meter				
1	Meters with Meter Box	Nos	400	12177.6	0.49
2	Installation of meter with meter box and cable	Nos	400	1641.38	0.07
3	Metering Unit	Nos	84	77974.4	0.65
4	Installation of MU	Nos	84	7701.86	0.06
5	DP structure	Set	35	162027.5	0.57
	Accessories				
1	Control Cable	Mtr.	4320	354.5	0.15
2	Steel Structure for MU	Set	49	40,506.87	0.2
3	Installation cost of Steel Structure	Set	49	5,000.00	0.02
4	Seals	Nos	6000	6.79	0.004
	Total Cost (B)				**2.77**
	GRAND TOTAL (A+B)				**12.62**

ANNEXURE-6

(Bill of Quantities)

A. Civil Bill of Quantities

DETAILED MEASUREMENT SHEET- Jeypore Zonal Office

Job details: Jeypore Zonal Office G Floor and F Floor						**Job Location: - Jeypore**			
Item No.	**Particulars**	**Unit**	**No.**	**Length**	**Breadth**	**Depth**	**Qty.**	**Rate**	**Amount**
1.001	Earth work in excavation in all kinds of soil as defined in IS :1200 by mechanical means (Hydraulic excavator) / manual means including removing vegetation, dressing of sides and ramming of bottoms including shoringand strutting where ever necessary, dewatering (both for sub-soil water& rain water) , wherever required by means of suitable capacity of pump & pipe lines during excavation, concreting & also keeping the earth drytill the construction is over including Backfilling with available earth etc. complete and disposal of surplus excavated Earth to the designated place by Local Statutory Body as per direction of Engineer-in-charge andlift upto 1.5m, disposed Earth to be levelled and neatly dressed.Disposal lead upto 100 metre.								
	Foundation F-1	M3	2.00	2.65	2.65	1.50	21.07		
	Foundation F-2	M3	6.00	2.90	2.90	1.50	75.69		
	Foundation F-3	M3	1.00	2.85	2.85	1.50	12.18		
	Foundation F-4	M3	1.00	3.15	6.03	1.50	28.47		
	Foundation F-6	M3	2.00	3.35	3.35	1.50	33.67		
	Foundation F-7	M3	1.00	3.25	5.35	1.50	26.08		
	Foundation F-8	M3	1.00	2.65	4.75	1.50	18.88		
	Foundation F-9	M3	1.00	3.10	3.10	1.50	14.42		
	For Backfilling above NGL from Grid 4-9	M3	1.00	20.73	6.25	0.28	35.72		
			1.00	20.04	6.60	0.28	36.47		
					Total		**302.65**	**238.80**	**72,271.63**
1.002	Same as above Item ,but lift from 1.51mt to 3.0mt								
	Foundation F-1	M3	1.00	2.65	2.65	0.96	6.73		
	Foundation F-1	M3	1.00	2.65	2.65	1.24	8.70		

	Foundation F-2	M3	3.00	2.90	2.90	0.91	23.03		
	Foundation F-2	M3	3.00	2.90	2.90	1.16	29.32		
	Foundation F-3	M3	1.00	2.85	2.85	0.71	5.75		
	Foundation F-4	M3	1.00	3.15	6.03	0.96	18.28		
	Foundation F-6	M3	2.00	3.35	3.35	1.04	23.30		
	Foundation F-7	M3	1.00	3.25	5.35	1.13	19.72		
	Foundation F-8	M3	1.00	2.65	4.75	1.13	14.19		
	Foundation F-9	M3	1.00	3.10	3.10	1.10	10.57		
					Total		**159.59**	**298.50**	**47,636.72**
1.046	Providing and laying of fine sand	M3							
	For sand filling above NGL from Grid 4-9		1.00	20.73	6.25	0.27	35.33		
			1.00	20.04	6.60	0.27	36.07		
							71.41	**1,194.00**	**85,258.12**
1.004	P & L PCC M15 (1:2:4) grade 1:2:4 (1 cement : 2 Coarse aggregate : 4 graded stone aggregate 20 mm and below)								
	Foundation F-1	M3	2.00	2.65	2.65	0.08	1.05		
	Foundation F-2	M3	6.00	2.90	2.90	0.08	3.78		
	Foundation F-3	M3	1.00	2.85	2.85	0.08	0.61		
	Foundation F-4	M3	1.00	3.15	6.03	0.08	1.42		
	Foundation F-6	M3	2.00	3.35	3.35	0.08	1.68		
	Foundation F-7	M3	1.00	3.25	5.35	0.08	1.30		
	Foundation F-8	M3	1.00	2.65	4.75	0.08	0.94		
	Foundation F-9	M3	1.00	3.10	3.10	0.08	0.72		
	PB Along grid A	M3	1.00	18.38	0.45	0.08	0.62		
	PB Along grid B	M3	1.00	3.65	0.45	0.08	0.12		
	PB Along grid C	M3	1.00	3.57	0.38	0.08	0.10		
			1.00	3.48	0.38	0.08	0.10		
			1.00	3.09	0.45	0.08	0.10		
	PB Along grid D	M3	1.00	18.26	0.45	0.08	0.62		
	PB Along grid E	M3	1.00	18.38	0.45	0.08	0.62		
	PB between grid D&E	M3	1.00	3.09	0.38	0.08	0.09		

	PB between grid A&B	M3	1.00	1.67	0.38	0.08	0.05		
	PB along grid 9	M3	1.00	12.14	0.45	0.08	0.41		
	PB along grid 8	M3	1.00	12.14	0.45	0.08	0.41		
	PB along grid 7	M3	1.00	12.69	0.45	0.08	0.43		
	PB along grid 6	M3	1.00	12.69	0.45	0.08	0.43		
	PB along grid 5	M3	1.00	12.24	0.45	0.08	0.41		
	PB between grid 4&5	M3	1.00	6.07	0.38	0.08	0.17		
	PB between grid 7&8	M3	1.00	4.85	0.38	0.08	0.14		
	PB between grid 8&9	M3	1.00	1.82	0.38	0.08	0.05		
	Grade slab								
	Toilet front entrance		1.00	5.54	6.27	0.08	2.61		
	Toilet front area		1.00	1.58	5.60	0.08	0.66		
	Gents toilet		1.00	4.78	2.78	0.08	1.00		
	Ladies toilet front		1.00	2.65	0.82	0.08	0.16		
	Ladies toilet		1.00	2.65	3.62	0.08	0.72		
	Canteen		1.00	6.61	8.53	0.08	4.23		
			1.00	3.83	1.50	0.08	0.43		
	Serving area		1.00	4.80	1.70	0.08	0.61		
	Pantry		1.00	2.80	1.65	0.08	0.35		
	Wash area		1.00	1.80	1.65	0.08	0.22		
	Staircase bottom		1.00	3.23	4.80	0.08	1.16		
	1st floor entry		1.00	8.06	3.22	0.08	1.95		
	Conforence room		1.00	6.29	12.55	0.08	5.92		
	DPC		1.00	20.00	0.23	0.05	0.23		
			1.00	12.24	0.23	0.05	0.14		
			2.00	12.69	0.23	0.05	0.29		
			2.00	12.14	0.23	0.05	0.28		
			1.00	6.60	0.23	0.05	0.08		
			2.00	5.36	0.23	0.05	0.12		
			2.00	3.04	0.23	0.05	0.07		
			1.00	3.45	0.23	0.05	0.04		
			1.00	2.00	0.23	0.05	0.02		

			1.00	1.73	0.23	0.05	0.02		
			1.00	4.85	0.23	0.05	0.06		
			2.00	20.10	0.23	0.05	0.46		
					Total		**38.23**	**6,181.19**	**2,36,282.17**
1.0 560	Providing and laying 225 or 300 mm thick dry rubble soling with approved quality stones including filling gaps with small chips ramming with hand rammer etc. complete.								
	Foundation F-1	M3	2.00	2.65	2.65	0.23	3.23		
	Foundation F-2	M3	6.00	2.90	2.90	0.23	11.61		
	Foundation F-3	M3	1.00	2.85	2.85	0.23	1.87		
	Foundation F-4	M3	1.00	3.15	6.03	0.23	4.37		
	Foundation F-6	M3	2.00	3.35	3.35	0.23	5.16		
	Foundation F-7	M3	1.00	3.25	5.35	0.23	4.00		
	Foundation F-8	M3	1.00	2.65	4.75	0.23	2.90		
	Foundation F-9	M3	1.00	3.10	3.10	0.23	2.21		
	Grade slab						-		
	Toilet front entrance		1.00	5.54	6.27	0.23	7.99		
	Toilet front area		1.00	1.58	5.60	0.23	2.04		
	Gents toilet		1.00	4.78	2.78	0.23	3.06		
	Ladies toilet front		1.00	2.65	0.82	0.23	0.50		
	Ladies toilet		1.00	2.65	3.62	0.23	2.21		
	Canteen		1.00	6.61	8.53	0.23	12.97		
			1.00	3.83	1.50	0.23	1.32		
	Serving area		1.00	4.80	1.70	0.23	1.88		
	Pantry		1.00	2.80	1.65	0.23	1.06		
	Wash area		1.00	1.80	1.65	0.23	0.68		
	Staircase bottom		1.00	3.23	4.80	0.23	3.57		
	1st floor entry		1.00	8.06	3.22	0.23	5.97		
	Conforence room		1.00	6.29	12.55	0.23	18.16		
	Plinth protection		1.00	60.50	0.52	0.15	4.72		
					Total		**101.45**	**1,990.00**	**2,01,875.55**
1.0 05	P&L RCC M25 in foundation and plinth Same as abive item but with concrete of grade M- 25								

	Foundation F-1	M3	2.00	2.50	2.50	0.40	5.00		
	Foundation F-2	M3	6.00	2.75	2.75	0.45	20.42		
	Foundation F-3	M3	1.00	2.70	2.70	0.45	3.28		
	Foundation F-4	M3	1.00	3.00	5.88	0.50	8.81		
	Foundation F-6	M3	2.00	3.20	3.20	0.50	10.24		
	Foundation F-7	M3	1.00	3.10	5.20	0.45	7.25		
	Foundation F-8	M3	1.00	2.50	4.60	0.40	4.60		
	Foundation F-9	M3	1.00	2.95	2.95	0.45	3.92		
	Stool Column C1	M3	2.00	0.45	0.35	1.40	0.44	Up to Plinth Beam TOC	
	Stool Column C2	M3	6.00	0.45	0.35	1.35	1.28	Up to Plinth Beam TOC	
	Stool Column C3	M3	1.00	0.45	0.45	1.35	0.27	Up to Plinth Beam TOC	
	Stool Column C4	M3	1.00	0.45	0.45	1.30	0.26	Up to Plinth Beam TOC	
	Stool Column C6	M3	2.00	0.45	0.45	1.30	0.53	Up to Plinth Beam TOC	
	Stool Column C7	M3	1.00	0.45	0.45	1.30	0.26	Up to Plinth Beam TOC	
	Stool Column C8	M3	2.00	0.50	0.30	1.40	0.42	Up to Plinth Beam TOC	
	Stool Column C9	M3	1.00	0.45	0.45	1.35	0.27	Up to Plinth Beam TOC	
	Stool Column C10	M3	2.00	0.50	0.30	1.40	0.42	Up to Plinth Beam TOC	
	PB Along grid A	M3	1.00	18.38	0.30	0.50	2.76		
	PB Along grid B	M3	1.00	3.65	0.30	0.50	0.55		
	PB Along grid C	M3	1.00	3.57	0.23	0.50	0.41		

			1.00	3.48	0.23	0.50	0.40		
			1.00	3.09	0.30	0.50	0.46		
	PB Along grid D	M3	1.00	18.26	0.30	0.50	2.74		
	PB Along grid E	M3	1.00	18.38	0.30	0.50	2.76		
	PB between grid D&E	M3	1.00	3.09	0.23	0.50	0.36		
	PB between grid A&B	M3	1.00	1.67	0.23	0.50	0.19		
	PB along grid 9	M3	1.00	12.14	0.30	0.50	1.82		
	PB along grid 8	M3	1.00	12.14	0.30	0.50	1.82		
	PB along grid 7	M3	1.00	12.69	0.30	0.50	1.90		
	PB along grid 6	M3	1.00	12.69	0.30	0.50	1.90		
	PB along grid 5	M3	1.00	12.24	0.30	0.50	1.84		
	PB between grid 4&5	M3	1.00	6.07	0.23	0.50	0.70		
	PB between grid 7&8	M3	1.00	4.85	0.23	0.50	0.56		
	PB between grid 8&9	M3	1.00	1.82	0.23	0.50	0.21		
	Retaining wall	M3	2.00	18.38	0.23	1.00	8.46		
		M3	1.00	12.14	0.23	1.00	2.79		
	Column from Plinth beam top to slab top								
	Column C1	M3	2.00	0.45	0.35	5.50	1.73		
	Column C2	M3	6.00	0.45	0.35	5.50	5.20		
	Column C3	M3	1.00	0.45	0.45	5.50	1.11		
	Column C4	M3	1.00	0.45	0.45	5.50	1.11		
	Column C6	M3	2.00	0.45	0.45	5.50	2.23		
	Column C7	M3	1.00	0.45	0.45	5.50	1.11		
	Column C8	M3	2.00	0.50	0.30	5.50	1.65		
	Column C9	M3	1.00	0.45	0.45	5.50	1.11		
	Column C10	M3	2.00	0.50	0.30	5.50	1.65		
	Grade slab	M3							
	Toilet front entrance		1.00	5.54	6.27	0.13	4.34		
			2.00	5.54	0.23	0.15	0.37		
			2.00	5.67	0.23	0.15	0.38		
	Toilet front area		1.00	1.58	5.60	0.13	1.11		
			2.00	1.58	0.23	0.15	0.11		

			2.00	5.00	0.23	0.15	0.34		
	Gents toilet		1.00	4.78	2.78	0.13	1.66		
			2.00	4.78	0.23	0.15	0.32		
			2.00	2.18	0.23	0.15	0.15		
	Ladies toilet front		1.00	2.65	0.82	0.13	0.27		
			2.00	2.65	0.23	0.15	0.18		
			2.00	0.22	0.23	0.15	0.01		
	Ladies toilet		1.00	2.65	3.62	0.13	1.20		
			2.00	2.65	0.23	0.15	0.18		
			2.00	3.02	0.23	0.15	0.20		
	Canteen		1.00	6.61	8.53	0.13	7.05		
			1.00	3.83	1.50	0.13	0.72		
			1.00	37.88	0.23	0.15	1.28		
	Serving area		1.00	4.80	1.70	0.13	1.02		
			2.00	4.80	0.23	0.15	0.32		
			2.00	1.10	0.23	0.15	0.07		
	Pantry		1.00	2.80	1.65	0.13	0.58		
			2.00	2.80	0.23	0.15	0.19		
			2.00	1.05	0.23	0.15	0.07		
	Wash area		1.00	1.80	1.65	0.13	0.37		
			2.00	1.80	0.23	0.15	0.12		
			2.00	1.05	0.23	0.15	0.07		
	Staircase bottom		1.00	3.23	4.80	0.13	1.94		
			2.00	3.23	0.23	0.15	0.22		
			2.00	4.20	0.23	0.15	0.28		
	1st floor entry		1.00	8.06	3.22	0.13	3.24		
			2.00	8.06	0.23	0.15	0.54		
			2.00	2.62	0.23	0.15	0.18		
	Conforence room		1.00	6.29	12.55	0.13	9.87		
			2.00	6.29	0.23	0.15	0.42		
			2.00	11.95	0.23	0.15	0.81		
	Band lintel		2.00	3.45	0.23	0.05	0.08		

			2.00	3.85	0.23	0.05	0.09		
			2.00	4.39	0.23	0.05	0.10		
			2.00	5.36	0.23	0.05	0.12		
			1.00	3.04	0.23	0.05	0.03		
			1.00	4.60	0.23	0.05	0.05		
			1.00	1.94	0.23	0.05	0.02		
			1.00	0.58	0.23	0.05	0.01		
			1.00	11.46	0.23	0.05	0.13		
			2.00	5.16	0.12	0.05	0.06		
			2.00	5.22	0.12	0.05	0.06		
			2.00	5.05	0.12	0.05	0.06		
			1.00	7.17	0.12	0.05	0.04		
			2.00	3.90	0.12	0.05	0.05		
			2.00	1.71	0.12	0.05	0.02		
	Lintel beam		4.00	2.20	0.23	0.30	0.61		
			1.00	4.39	0.23	0.30	0.30		
			1.00	5.36	0.23	0.30	0.37		
			1.00	3.45	0.23	0.30	0.24		
	Canopy		1.00	6.26	1.50	0.16	1.53		
			1.00	3.74	1.50	0.16	0.91		
			1.00	4.15	1.50	0.16	1.02		
	Chhaja		4.00	2.20	0.60	0.09	0.46		
			1.00	4.39	0.60	0.09	0.23		
			1.00	5.36	0.60	0.09	0.28		
	Landing beam MLB1		1.00	3.04	0.30	0.40	0.36		
	Landing slab		1.00	3.28	1.50	0.18	0.86		
	Stair case slab		2.00	4.20	1.50	0.18	2.21		
	Steps		26.00	1.50	0.04	0.50	0.80		
	Staircase beam		1.00	3.04	0.30	0.50	0.46		
	Along grid 4&5		1.00	3.65	0.30	0.35	0.38		
			1.00	2.43	0.30	0.35	0.25		
			1.00	6.17	0.40	0.35	0.86		

	Along grid 6&7		2.00	12.69	0.30	0.35	2.66		
	Along grid 8&9		2.00	12.14	0.30	0.38	2.73		
	FB38 between grid 4&5		1.00	4.10	0.23	0.35	0.33		
	FB49		1.00	1.82	0.23	0.38	0.16		
	FB24 along A, FB20 along B, FB14 along D,FB10 bet D&E		4.00	5.36	0.30	0.38	2.41		
	FB4 along E		1.00	5.36	0.30	0.78	1.25		
	FB15,FB16,FB17,FB5,FB6,FB7		2.00	11.50	0.30	0.35	2.41		
	FB25,FB26		1.00	8.24	0.30	0.35	0.87		
	FB27 along 1		1.00	3.45	0.30	0.78	0.80		
	FB8 along E		1.00	3.04	0.30	0.78	0.71		
	FB28,FB19,FB18		3.00	3.04	0.30	0.38	1.03		
	FB9		1.00	3.04	0.23	0.38	0.26		
	Slab		1.00	5.51	14.34	0.13	9.88		
			1.00	13.00	14.34	0.15	27.95		
			1.00	3.74	14.34	0.13	6.70		
	Deduction for staircase area		-1.00	3.04	4.80	0.13	-1.82		
	Deduction for column		-4.00	0.35	0.45	0.13	-0.08		
			-4.00	0.35	0.45	0.15	-0.09		
			-6.00	0.45	0.45	0.15	-0.18		
			-4.00	0.50	0.30	0.13	-0.08		
	Deduction for opening		-1.00	0.52	1.82	0.13	-0.12		
	Serving counter slab		1.00	4.00	0.75	0.10	0.30		
	Cooking platform slab		1.00	2.98	0.60	0.10	0.18		
	Washing area slab		1.00	1.80	0.60	0.10	0.11		
	Column from G Floor Slab to 1st Floor slab top								
	Column C1	M3	4.000	0.450	0.350	4.200	2.646		
	Column C2	M3	10.000	0.450	0.350	4.200	6.615		
	Column C3	M3	2.000	0.450	0.450	4.200	1.701		
	Column C4	M3	2.000	0.450	0.450	4.200	1.701		
	Column C5	M3	1.000	0.450	0.450	4.200	0.851		
	Column C6	M3	4.000	0.450	0.450	4.200	3.402		
	Column C7	M3	2.000	0.450	0.450	4.200	1.701		

	Column C8	M3	2.000	0.500	0.300	4.200	1.260		
	Column C9	M3	2.000	0.450	0.450	4.200	1.701		
	Column C10	M3	2.000	0.500	0.300	4.200	1.260		
	Staircase bottom		1.000	3.230	4.800	0.125	1.938		
			2.000	3.230	0.225	0.150	0.218		
			2.000	4.200	0.225	0.150	0.284		
	1st floor entry		1.000	8.060	3.220	0.125	3.244		
			2.000	8.060	0.225	0.150	0.544		
			2.000	2.620	0.225	0.150	0.177		
	Band lintel		2.000	111.620	0.230	0.050	2.567		
			2.000	16.826	0.120	0.050	0.202		
	Lintel beam		4.000	2.200	0.230	0.300	0.607		
			1.000	4.394	0.230	0.300	0.303		
			1.000	5.361	0.230	0.300	0.370		
			1.000	3.452	0.230	0.300	0.238		
	Canopy		2.000	6.261	1.500	0.163	3.062		
			2.000	3.738	1.500	0.163	1.828		
			2.000	4.152	1.500	0.163	2.030		
	Chhaja		8.000	2.200	0.600	0.088	0.924		
			2.000	4.394	0.600	0.088	0.461		
			2.000	5.361	0.600	0.088	0.566		
	Landing beam MLB1		1.000	3.038	0.300	0.400	0.365		
	Landing slab		1.000	3.278	1.500	0.175	0.860		
	Stair case slab		2.000	4.200	1.500	0.175	2.205		
	Steps		26.000	1.500	0.041	0.500	0.804		
	Staircase beam		1.000	3.038	0.300	0.500	0.456		
	Roof Beam		1.000	230.610	0.300	0.350	24.214		
	Slab		1.000	35.350	14.640	0.150	77.629		
	Deduction for staircase area		-1.000	3.038	4.800	0.125	-1.823		
	Deduction for column		-4.000	0.350	0.450	0.125	-0.079		
			-4.000	0.350	0.450	0.150	-0.095		
			-6.000	0.450	0.450	0.150	-0.182		

			-4.000	0.500	0.300	0.125	-0.075		
	Deduction for opening		-1.000	0.519	1.820	0.125	-0.118		
	For Stair Case Area Beam		1.000	27.635	0.300	0.350	2.902		
	For Stair Case Area Slab		1.000	6.945	3.400	0.150	3.542		
					Total		**381.86**	**7,741.10**	**29,56,016.45**
1.006	Prov, binding and placing HYSD Bars		Ton				**42.03**		
					Total		**42.03**	**98,505.00**	**41,39,869.64**
1.091	Shuttering in foundation & Plinth								
	Foundation F-1	M2	2.00	10.00		0.40	8.00		
	Foundation F-2	M2	6.00	11.00		0.45	29.70		
	Foundation F-3	M2	1.00	10.80		0.45	4.86		
	Foundation F-4	M2	1.00	17.75		0.50	8.88		
	Foundation F-6	M2	2.00	12.80		0.50	12.80		
	Foundation F-7	M2	1.00	16.60		0.45	7.47		
	Foundation F-8	M2	1.00	14.20		0.40	5.68		
	Foundation F-9	M2	1.00	11.80		0.45	5.31		
	PB along Grid E	M2	1.00	38.74		0.50	19.37		
	PB along Grid D	M2	1.00	37.24		0.50	18.62		
	PB along Grid C	M2	2.00	3.57		0.50	3.57		
		M2	1.00	6.77		0.50	3.39		
		M2	2.00	3.14		0.50	3.14		
	PB along Grid B	M2	2.00	3.42		0.50	3.42		
	PB along Grid A	M2	1.00	38.51		0.50	19.25		
	PB between A & B	M2	2.00	1.70		0.50	1.70		
	PB between D & E	M2	2.00	2.86		0.50	2.86		
	PB along Grid 5		1.00	25.15		0.50	12.58		
	PB along Grid 6		2.00	12.84		0.50	12.84		
	PB along Grid 7		1.00	25.45		0.50	12.73		
	PB along Grid 8		1.00	24.69		0.50	12.35		
	PB along Grid 9		1.00	26.35		0.50	13.18		
	PB between grid 4&5		2.00	6.07		0.50	6.07		

	PB between grid 7&8		1.00	9.36		0.50	4.68		
	PB between grid 8&9		2.00	1.82		0.50	1.82		
	Retaining wall		4.00	18.38		1.00	73.53		
			2.00	12.14		1.00	24.28		
							332.04	**250.00**	**83,010.25**
1.093	Shutt. of vertical member upto grnd flr	M2							
	Stool Column C1	M2	2.00	1.60		0.90	2.88		
	Stool Column C2	M2	6.00	1.60		0.85	8.16		
	Stool Column C3	M2	1.00	1.80		0.85	1.53		
	Stool Column C4	M2	1.00	1.80		0.80	1.44		
	Stool Column C6	M2	2.00	1.80		0.80	2.88		
	Stool Column C7	M2	1.00	1.80		0.80	1.44		
	Stool Column C8	M2	2.00	1.60		0.90	2.88		
	Stool Column C9	M2	1.00	1.80		0.85	1.53		
	Stool Column C10	M2	2.00	1.60		0.90	2.88		
	Column from Plinth beam top to slab top								
	Column C1		2.00	1.60		5.50	17.60		
	Column C2		6.00	1.60		5.50	52.80		
	Column C3		1.00	1.80		5.50	9.90		
	Column C4		1.00	1.80		5.50	9.90		
	Column C6		2.00	1.80		5.50	19.80		
	Column C7		1.00	1.80		5.50	9.90		
	Column C8		2.00	1.60		5.50	17.60		
	Column C9		1.00	1.80		5.50	9.90		
	Column C10		2.00	1.60		5.50	17.60		
	Column from Plinth beam top to slab top								
	Column C1		-	1.600		4.200	-		
	Column C2		-	1.600		4.200	-		
	Column C3		6.000	1.800		4.200	45.360		
	Column C4		1.000	1.800		4.200	7.560		
	Column C5		-	1.800		4.200	-		

	Column C6		-	1.800		4.200	-		
	Column C7		5.000	1.800		4.200	37.800		
	Column C8		2.000	1.600		4.200	13.440		
	Column C9		-	1.800		4.200	-		
	Column C10		-	1.600		4.200	-		
							294.78	**300.00**	**88,434.00**
1.095	Shutt. of slab and beam upto grnd. flr s	M2							
	Band lintel		4.00	3.45		0.05	0.69		
			4.00	3.85		0.05	0.77		
			4.00	4.39		0.05	0.88		
			2.00	5.36		0.05	0.54		
			2.00	3.04		0.05	0.30		
			2.00	4.60		0.05	0.46		
			2.00	1.94		0.05	0.19		
			2.00	0.58		0.05	0.06		
			2.00	11.46		0.05	1.15		
			4.00	5.16		0.05	1.03		
			4.00	5.22		0.05	1.04		
			4.00	5.05		0.05	1.01		
			2.00	7.17		0.05	0.72		
			4.00	3.90		0.05	0.78		
			4.00	1.71		0.05	0.34		
	Chhaja		4.00	2.20		0.60	5.28		
			4.00	1.20		0.10	0.48		
			4.00	2.20		0.08	0.66		
			1.00	4.39		0.60	2.64		
			1.00	1.20		0.10	0.12		
			1.00	4.39		0.08	0.33		
			1.00	5.36		0.60	3.22		
			1.00	1.20		0.10	0.12		
			1.00	5.36		0.08	0.40		

	Lintel beam		8.00	2.20		0.30	5.28		
			2.00	4.39		0.30	2.64		
			2.00	5.36		0.30	3.22		
			2.00	3.45		0.30	2.07		
	Canopy		1.00	6.26		1.50	9.39		
			1.00	3.00		0.20	0.60		
			1.00	6.26		0.13	0.78		
			1.00	3.74		1.50	5.61		
			1.00	3.00		0.20	0.60		
			1.00	3.74		0.13	0.47		
			1.00	4.15		1.50	6.23		
			1.00	3.00		0.20	0.60		
			1.00	4.15		0.13	0.52		
	Landing beam		2.00	3.04		0.40	2.43		
	Landing slab		1.00	3.28		1.50	4.92		
			2.00	1.50		0.18	0.53		
	Stair case slab		2.00	4.20		1.50	12.60		
			4.00	4.20		0.18	2.94		
	Steps		26.00	1.50		0.15	5.85		
			4.00	4.20		0.15	2.52		
	Slab		1.00	5.51		14.34	79.03		
			1.00	13.30		14.34	190.66		
			1.00	3.74		14.34	53.60		
	Deduction for staircase area		-1.00	3.04		4.80	-14.58		
	Slab beam								
			1.00	6.17		0.10	0.62		
	Along grid 4		2.00	3.65		0.38	2.73		
			2.00	2.43		0.38	1.82		
			2.00	6.17		0.38	4.63		
	Along grid 5		2.00	3.65		0.35	2.55		
			2.00	2.43		0.35	1.70		
			2.00	6.17		0.35	4.32		

	Along grid 6&7		4.00	12.69		0.35	17.77		
	Along grid 8&9		4.00	12.14		0.38	18.21		
	FB38 between grid 4&5		2.00	4.10		0.35	2.87		
	FB24 along A, FB20 along B, FB14 along D,FB10 bet D&E		8.00	5.36		0.38	16.08		
	FB4 along E		2.00	5.36		0.78	8.31		
	FB15,FB16,FB17,FB5,FB6,FB7		4.00	11.50		0.35	16.09		
	FB25,FB26		2.00	8.24		0.35	5.77		
	FB27 along 1		2.00	3.45		0.78	5.35		
	FB8 along E		2.00	3.04		0.78	4.71		
	FB28,FB19,FB18		6.00	3.04		0.38	6.84		
	FB9		2.00	3.04		0.38	2.28		
	FB49		2.00	1.82		0.38	1.37		
	Deduction for beam bottom		-1.00	11.70		0.23	-2.69		
			-1.00	17.06		0.23	-3.92		
	Deduction for column		-8.00	0.35		0.45	-1.26		
			-6.00	0.45		0.45	-1.22		
			-4.00	0.30		0.50	-0.60		
	Deduction for opening		-1.00	0.52		1.82	-0.94		
	Shuttering for opening side		2.00	0.52		0.13	0.13		
			2.00	1.82		0.13	0.46		
	Serving counter		1.00	0.75		4.00	3.00		
	Cooking platform		1.00	0.60		2.98	1.79		
	Washing area		1.00	0.60		1.80	1.08		
	Band lintel		2.000	10.722		0.050	1.072		
			2.000	6.076		0.050	0.608		
	Chhaja		4.000	2.200		0.600	5.280		
			4.000	1.200		0.100	0.480		
			4.000	2.200		0.075	0.660		
			1.000	4.394		0.600	2.636		
			1.000	1.200		0.100	0.120		
			1.000	4.394		0.075	0.330		
			1.000	5.361		0.600	3.217		

			1.000	1.200		0.100	0.120		
			1.000	5.361		0.075	0.402		
	Lintel beam		8.000	2.200		0.300	5.280		
			2.000	4.394		0.300	2.636		
			2.000	5.361		0.300	3.217		
			2.000	3.452		0.300	2.071		
	Canopy		1.000	6.261		1.500	9.392		
			1.000	3.000		0.200	0.600		
			1.000	6.261		0.125	0.783		
			1.000	3.738		1.500	5.607		
			1.000	3.000		0.200	0.600		
			1.000	3.738		0.125	0.467		
			1.000	4.152		1.500	6.228		
			1.000	3.000		0.200	0.600		
			1.000	4.152		0.125	0.519		
	Landing beam		2.000	3.038		0.400	2.430		
	Landing slab		1.000	3.278		1.500	4.917		
			2.000	1.500		0.175	0.525		
	Stair case slab		2.000	4.200		1.500	12.600		
			4.000	4.200		0.175	2.940		
	Steps		26.000	1.500		0.150	5.850		
			4.000	4.200		0.150	2.520		
	Deduction for staircase area		-1.000	3.038		4.800	-14.582		
	For Beam		2.000	-		0.350	-		
	For Slab		1.000	34.750		14.340	498.315		
	Deduction for beam bottom		-1.000	11.696		0.230	-2.690		
			-1.000	17.057		0.230	-3.923		
	Deduction for column		-8.000	0.350		0.450	-1.260		
			-6.000	0.450		0.450	-1.215		
			-4.000	0.300		0.500	-0.600		
	Deduction for opening		-1.000	0.519		1.820	-0.945		
	Shuttering for opening side		2.000	0.519		0.125	0.130		

			2.000	1.820		0.125	0.455		
	Serving counter		1.000	0.750		4.000	3.000		
	Cooking platform		1.000	0.600		2.975	1.785		
	Washing area		1.000	0.600		1.800	1.080		
					Total		**1,085.78**	**450.00**	**4,88,600.10**
1.0 121	Foundation and Plinth	M3							
	Brick work upto FFL								
			1.00	19.97	0.23	1.30	5.97		
			1.00	12.24	0.23	1.30	3.66		
			2.00	12.69	0.23	1.30	7.59		
			1.00	12.14	0.23	1.30	3.63		
			1.00	6.60	0.23	1.30	1.97		
			2.00	5.36	0.23	1.30	3.21		
			2.00	3.04	0.23	1.30	1.82		
			1.00	3.45	0.23	1.30	1.03		
			1.00	2.00	0.23	1.30	0.60		
			1.00	1.73	0.23	1.30	0.52		
			1.00	4.85	0.23	1.30	1.45		
	Deduction for DPC		-1.00	157.51	0.23	0.05	-1.81		
	Along grid A		1.00	17.06	0.23	4.00	15.69		
			1.00	3.04	0.23	4.00	2.79		
	Along grid E		1.00	11.70	0.23	4.00	10.76		
	Along grid 9		2.00	4.60	0.23	4.00	8.45		
			1.00	1.40	0.23	4.00	1.29		
	Duct		1.00	2.00	0.23	4.00	1.84		
			1.00	0.65	0.23	4.00	0.60		
	Deduction for Door		-1.00	0.90	0.23	2.10	-0.43		
	Deduction for window		-5.00	1.80	0.23	1.20	-2.48		
			-2.00	1.20	0.23	1.20	-0.66		
	Deduction for ventilator		-6.00	0.60	0.23	0.60	-0.50		
	Deduction for band lintel		-1.00	46.91	0.23	0.05	-0.54		

	Deduction for Lintel beam		-4.00	2.20	0.23	0.30	-0.61		
			-1.00	4.39	0.23	0.30	-0.30		
			-1.00	5.36	0.23	0.30	-0.37		
			-1.00	3.45	0.23	0.30	-0.24		
	For Surrounding Wall		2.000	34.750	0.230	4.200	67.137		
	For Surrounding Wall		2.000	14.040	0.230	4.200	27.125		
	For Parapet Wall		2.000	48.790	0.230	1.200	26.932		
	For Staircase Area		1.000	27.635	0.230	3.000	19.068		
							205.18	**6,138.00**	**12,59,424.76**
1.0 123	P& L upto 115 thk Brickwork class 7.5	M2							
			2.00	5.66		3.80	43.02		
			1.00	2.80		3.80	10.64		
			1.00	5.05		3.80	19.17		
			1.00	6.07		3.80	23.07		
			1.00	6.17		3.80	23.45		
			1.00	11.50		3.80	43.68		
			1.00	3.85		3.80	14.65		
			2.00	5.05		3.80	38.34		
			1.00	1.80		3.80	6.84		
			1.00	2.57		3.80	9.77		
	Deduction for door		-6.00	0.90		3.80	-20.52		
	Deduction for opening		-3.00	0.90		3.80	-10.26		
	For Intermidiate Wall		1.000	12.690		4.200	53.298		
							255.14	**679.68**	**1,73,412.74**
1.0 253	P & F in position impregnated fibre board								
	Grade slab								
	Toilet front entrance		1.00	23.62	0.35		8.27		
	Toilet front area		1.00	14.36	0.35		5.03		
	Gents toilet		1.00	15.12	0.35		5.29		
	Ladies toilet front		1.00	6.94	0.35		2.43		
	Canteen		1.00	30.28	0.35		10.60		

	Serving area		1.00	13.00	0.35		4.55		
	Pantry		1.00	8.90	0.35		3.12		
	Wash area		1.00	6.90	0.35		2.42		
	Staircase bottom		1.00	16.06	0.35		5.62		
	1st floor entry		1.00	22.56	0.35		7.90		
	Conforence room		1.00	37.68	0.35		13.19		
					Total		**68.40**	**487.60**	**33,350.38**
1.0 128	P & L 12 mm thk internal plaster	M2							
	Waiting area		2.00	6.32		4.08	51.51		
			2.00	5.52		4.08	44.96		
	Deduction for door		-2.00	0.90		2.10	-3.78		
			-1.00	1.20		2.10	-2.52		
	Deduction for entrance		-1.00	5.52		3.20	-17.65		
	Toilet area		2.00	2.71		4.08	22.10		
			2.00	4.90		4.08	39.89		
			2.00	2.80		4.08	22.81		
			2.00	3.50		4.08	28.48		
			2.00	1.25		4.08	10.19		
			2.00	2.80		4.08	22.81		
			2.00	1.63		4.08	13.24		
			2.00	5.66		4.08	46.14		
	Deduction for door & opening		-6.00	0.90		2.10	-11.34		
			-1.00	1.20		2.10	-2.52		
	Conference room		2.00	12.60		4.05	102.03		
			2.00	6.32		4.05	51.19		
	Deduction for door		-2.00	0.90		2.10	-3.78		
	Deduction for window		-3.00	1.80		1.20	-6.48		
	Canteen area		2.00	6.67		4.05	54.03		
			1.00	8.54		4.05	34.60		
			1.00	13.15		4.05	53.24		
			4.00	4.90		4.05	79.38		

			4.00	3.85		4.05	62.43		
	Deduction for window		-2.00	1.80		1.20	-4.32		
			-2.00	1.20		1.20	-2.88		
	Deduction for door		-4.00	0.90		2.10	-7.56		
	Stair case area		2.00	13.14		4.10	107.75		
			2.00	3.39		4.10	27.78		
	Elect duct		2.00	1.97		4.10	16.15		
			2.00	0.60		4.10	4.92		
	Stair		2.00	4.20		1.50	12.60		
			2.00	3.28		1.50	9.83		
			4.00	4.20		0.33	5.46		
	For Inside		2.000	34.750		4.075	283.213		
			2.000	14.040		4.075	114.426		
	For Inside Wall		1.000	3.038		4.075	12.380		
	For Staircase Area		1.000	27.635		3.000	82.905		
							1,353.62	**364.47**	**4,93,355.47**
1.0 129	P & L 18 mm thk external plaster	M2							
			2.00	22.17		5.40	239.44		
			1.00	14.04		5.40	75.82		
	Deduction for window		-5.00	1.80		1.20	-10.80		
			-2.00	1.20		1.20	-2.88		
	Deduction for door		-1.00	0.90		1.20	-1.08		
	Deduction for main entry		-1.00	5.36		3.30	-17.69		
	Deduction for staircase entry		-1.00	3.04		3.30	-10.03		
	Chhaja		2.00	5.36		0.60	6.43		
			1.00	6.56		0.10	0.66		
			10.00	2.20		0.60	13.20		
			1.00	3.40		0.10	0.34		
			4.00	1.80		0.60	4.32		
			1.00	3.00		0.10	0.30		
	Canopy		2.00	6.26		1.50	18.78		

			1.00	9.26		0.10	0.93		
			2.00	3.74		1.50	11.21		
			1.00	6.74		0.10	0.67		
			2.00	4.15		1.50	12.46		
			1.00	7.15		0.10	0.72		
	For Outside		2.000	34.750		4.075	283.213		
			2.000	14.040		4.075	114.426		
	For Staircase Area		1.000	27.635		3.000	82.905		
	For Parapet Wall Area		2.000	-		1.200	-		
							823.34	**431.83**	**3,55,541.27**
1.0 132	P & F chicken mesh of 1.5 mm dia	M2							
			70.00	4.20		0.30	88.20		
			12.00	22.17		0.30	79.81		
			4.00	14.04		0.30	16.85		
			105.00 0	4.200		0.300	132.300		
			18.000	22.170		0.300	119.718		
			6.000	14.040		0.300	25.272		
							462.15	**138.89**	**64,188.01**
1.0 141	P & L Exterior quality paint	M2					**823.34**	**216.71**	**1,78,425.19**
1.0 142	P & L Inerior quality paint	M2							
	Same as internal plaster						1,353.62		
	Ceiling plaster		1.00	5.52		6.32	34.86		
			1.00	12.60		6.32	79.61		
			1.00	5.52		6.67	36.79		
			1.00	8.54		6.67	56.98		
			1.00	3.85		6.67	25.71		
			1.00	13.14		3.28	43.07		
							1,630.64	**211.79**	**3,45,352.85**
1.0 157	P & F vitrified tiles 600x600mm	M2							

	Waiting area		1.00	5.72		6.52	37.27		
	Conference room		1.00	12.80		6.52	83.43		
	Stair case room		1.00	13.34		3.48	46.42		
			1.00	8.74		6.87	60.06		
			1.00	4.05		6.87	27.85		
			1.00	1.83		5.72	10.43		
	For Inside		1.000	34.750		14.040	487.890		
	Deduction for antiskid Tile		1.000				-		
							753.35	**1,392.00**	**10,48,665.51**
1.0 161	P& F 18 mm thk mirror polished granite	M2							
	Serving counter		1.00	0.75		4.00	3.00		
	Cooking platform		1.00	0.60		2.98	1.79		
	Washing area		1.00	0.60		1.80	1.08		
	Landing slab		1.00	3.28		1.50	4.92		
	Main entry area		1.00	6.22		1.20	7.46		
	Stair case Entry area		1.00	3.38		1.20	4.05		
							22.29	2,771.00	**61,778.89**
1.0 163	P& F 18 mm thk mirror polished granite	M							
	For staircase riser		28.00	1.50			42.00		
	Main entry area		3.00	6.22			18.65		
	Stair case Entry area		3.00	3.38			10.13		
							70.78	1,167.28	**82,622.41**
1.0 164	P&F 18 mm thk granite for stair treads	M							
	For staircase treads		28.00	1.50			42.00		
	Main entry area		3.00	6.22			18.65		
	Stair case Entry area		3.00	3.38			10.13		
							70.78	1,293.50	**91,556.52**
1.0 175	P & F solid core flush door with frames	M2							

	D		6.00	0.90		2.10	11.34		
	D3		2.00	0.90		2.10	3.78		
							15.12	6,205.82	**93,832.00**
1.0 18	P&F of double shutter fully glazed door	M2							
	Main entry		1.00	1.80		2.10	3.78		
			1.00	1.50		2.10	3.15		
							6.93	5,427.63	**37,613.48**
1.0 187	P & F Aluminium fixed window	M2							
	VW		6.00	0.60		0.60	2.16		
	W2		1.00	3.30		0.60	1.98		
							4.14	4,278.07	**17,711.21**
1.0 188	P & F glazed AL sliding window (3 Track)	M2							
	W		5.00	1.80		1.20	10.80		
	W1		2.00	1.20		1.20	2.88		
							13.68	4,373.62	**59,831.12**
1.0 201	P&F double action hydraulic floor spring						4.00	3,053.66	**12,214.64**
1.0 202	P & F hydraulic Door closer (upto 80kg)						8.00	1,526.83	**12,214.64**
1.0 205	P/F stainless steel tower bolt 200X16mm						16.00	171.40	**2,742.40**
1.0 207	P/F stainless steel door twin rubber sto						8.00	144.80	**1,158.40**
1.0 208	P/F stainless steel D-type door handle						16.00	152.09	**2,433.44**
1.0 213	P/F brass 100mm mortise latch lock 6leve						10.00	1,477.58	**14,775.80**
1.0 218	P,E&F fully glazed Alum. fixed partition	M2							
	Main entry		1.00	5.36		3.00	16.08		
			1.00	3.04		3.00	9.11		
	Deduction for glass door		-1.00	1.50		2.10	-3.15		
			-1.00	1.80		2.10	-3.78		

	Conference room wall		1.00	6.15		3.00	18.44		
	Electrical duct side wall		1.00	4.15		3.00	12.45		
							49.15	4,151.99	**2,04,078.61**
1.0 229	P/F suspend FR garde gypsum board ceilin	M2							
	Waiting area		1.00	5.52		6.32	34.86		
			1.00	1.63		5.52	8.96		
			1.00	12.60		6.32	79.61		
	Deduction for board ceiling		-5.00	4.20		1.20	-25.20		
	Canteen area		1.00	8.54		6.67	56.98		
			1.00	1.63		3.85	6.26		
							161.47	1,241.16	**2,00,409.15**
1.0 230	P/F mineral fibre tiles false ceiling	M2							
	Conference room		5.00	4.20		1.20	25.20		
							25.20	1,822.34	**45,922.97**
1.0 369	P/P polyethylebe water storage tank	L					4,000.00	11.82	**47,280.00**
	Conduit pipe 25 mm						400.00	139.30	**55,720.00**
1.0 418	S/F 25amps-63amps rating 240/415V single	EA					4.00	238.38	**953.52**
1.0 419	S/F TP sheet steel encl. 16/25/32amps 41	EA					6.00	1,377.35	**8,264.10**
1.0 441	S/F 2'X2' led luminair of bajaj 36WX1wcl	EA					14.00	3,272.34	**45,812.76**
1.0 447	S/F led down lighter ceiling mounted 18W	EA					65.00	1,799.41	**1,16,961.65**
1.0 483	S/I wiring for light pt/fan pt/ exh. fan	EA					72.00	479.72	**34,539.84**
1.0 484	S/I wiring for power pt/AC pt/TV 6/16Amp	EA					10.00	549.66	**5,496.60**
1.0 507	3R X1.5sqm copper flexible wire light pt	M					675.00	98.51	**66,494.25**
1.0 508	3R X2.5sqm copper flexible wire power pt	M					187.50	142.83	**26,780.63**
1.0 509	3R X 4sqm copper flexible wire for AC	M					37.50	182.23	**6,833.63**

1.0 51	3R X 6sqm copper flexible wire for AC 2T	M					150.00	216.71	**32,506.50**
1.0 513	10sqmX1 core copper flexible PVC insulat	M					60.00	137.91	**8,274.60**
1.0 514	16sqmX1 core copper flexible PVC insulat	M					30.00	180.26	**5,407.80**
1.0 112	P&F stainless steel Railings	M							
	Main entry		2.00	2.10			4.20		
	Stair case entry		2.00	2.10			4.20		
	Stair case		2.00	4.20			8.40		
							16.80	4,090.00	**68,712.00**
	Panel Board		2.00				**2.00**	1,93,000.00	**3,86,000.00**
1.0 01	Earth work in excavation in all kinds of soil as defined in IS :1200 by mechanical means (Hydraulic excavator) / manual means including removing vegetation, dressing of sides and ramming of bottoms including shoringand strutting where ever necessary, dewatering (both for sub-soil water& rain water) , wherever required by means of suitable capacity of pump & pipe lines during excavation, concreting & also keeping the earth drytill the construction is over including Backfilling with available earth etc. complete and disposal of surplus excavated Earth to the designated place by Local Statutory Body as per direction of Engineer-in-charge andlift upto 1.5m, disposed Earth to be levelled and neatly dressed.Disposal lead upto 100 metre.								
	For Paver Block Toe Wall	M3	1.000	50.000	0.380	0.300	5.700		
					Total		**5.700**	**238.80**	**1,361.16**
1.0 04	For 80mm Paver Block								
	For Paver Block Area	M2	1.000	15.000	15.000		225.000		
					Total		**225.000**	**1,094.50**	**2,46,262.50**
1.0 04	P & L PCC M15 (1:2:4) grade 1:2:4 (1 cement : 2 Coarse aggregate : 4 graded stone aggregate 20 mm and below)								
	For Paver Block Area	M3	1.000	15.000	15.000	0.075	16.875		
					Total		**16.875**	**5,989.10**	**1,01,066.06**
1.0 04	P & L PCC M15 (1:2:4) grade 1:2:4 (1 cement : 2 Coarse aggregate : 4 graded stone aggregate 20 mm and below)								

	For Paver Block Toe Wall	M3	1.000	50.000	0.380	0.225	5.700		
					Total		**5.700**	**6,181.19**	**35,232.78**
1.0 175	P & F solid core flush door with frames	M2							
	D3		2.000	0.900		2.100	3.780		
							3.780	**6,205.82**	**23,458.00**
1.0 176	P & F PVC door Shutter	M2							
	Toilet door		4.000	0.750		2.100	6.300		
							6.300	**2,777.84**	**17,500.39**
1.0 187	P & F Aluminium fixed window	M2							
	VW		2.000	0.600		0.600	0.720		
	W2		1.000	3.300		0.600	1.980		
							2.700	**4,278.07**	**11,550.79**
1.0 188	P & F glazed AL sliding window (3 Track)	M2							
	W		8.000	1.800		1.200	17.280		
	W1		2.000	1.200		1.200	2.880		
							20.160	**4,373.62**	**88,172.18**
1.0 218	P,E&F fully glazed Alum. fixed partition	M2							
	Main entry		1.000	5.361		3.000	16.083		
	Deduction for glass door		-1.000	1.800		2.100	-3.780		
	Conference room wall		1.000	6.145		3.000	18.435		
	Deduction for Flush door		-1.000	0.900		2.100	-1.890		
							28.848	**4,151.99**	**1,19,776.61**
1.0 229	P/F suspend FR garde gypsum board ceilin	M2							
	Total Area		1.00	34.75		14.04	487.89		
	Deduction for Grid False Ceiling						-156.24		
							331.65	**1,241.16**	**4,11,630.71**
1.0 230	P/F mineral fibre tiles false ceiling	M2							
	For Hall		5.00	2.40		7.80	93.60		

			1.00	6.00		3.00	18.00		
	Waitng Area		5.00	4.20		1.20	25.20		
	Cabins		6.00	1.80		1.80	19.44		
							156.24	**1,822.34**	**2,84,722.40**
1.0 285	P/F white vitreous china european WC	EA					**4.000**	**12,892.71**	**51,570.84**
1.0 287	Prov urinal parryware magnum	EA					**2.000**	**6,467.50**	**12,935.00**
1.0 289	Urinal Partition	EA					**3.000**	**2,462.63**	**7,387.89**
1.0 29	P/F table top counter wash basin	EA					**4.000**	**6,766.00**	**27,064.00**
1.0 294	P/F 100X80mm PVC deep seal nahani trap	EA					**8.000**	**597.00**	**4,776.00**
1.0 297	P/F PVC soap dispenser	EA					**4.000**	**472.82**	**1,891.28**
1.0 298	P/F 600X450mm bevelled edge mirror	EA					**4.000**	**1,393.00**	**5,572.00**
1.0 3	P/F CP jali for nahni trap	EA					**8.000**	**142.59**	**1,140.72**
1.0 303	P/F 31mm heavy duty CP bottle trap	EA					**8.000**	**1,140.69**	**9,125.52**
1.0 306	P/F health faucet incl PVC connector	EA					**4.000**	**1,008.18**	**4,032.72**
1.0 311	P/F CP concealed one way bib cock 12mm	EA					**2.000**	**1,188.22**	**2,376.44**
1.0 312	P/F CP concealed two way bib cock 12mm	EA					**6.000**	**1,477.58**	**8,865.48**
1.0 313	P/F CP concealed angle cock 12mm	EA					**8.000**	**1,140.69**	**9,125.52**
1.0 32	S/F/F Towel rail	EA					**4.000**	**1,492.50**	**5,970.00**
1.0 323	P/F robe hooks (double) incl CP screws	EA					**4.000**	**696.50**	**2,786.00**
1.0 344	P/F PVC pipe class-B (6kg/cm2) 75mm	M					**50.000**	**398.00**	**19,900.00**
1.0 345	P/F PVC pipe SCH-80 - 110mm	M					**15.000**	**597.00**	**8,955.00**

1.0 348	P/F 20mm CPVC	M					**40.000**	**278.60**	**11,144.00**
1.0 349	P/F 25mm CPVC	M					**30.000**	**323.28**	**9,698.40**
1.0 106	Fixing of MS Grills	Kg							
	For Door & Windows		1.000				1,000.000		
					Total		**500.000**	119.19	**59,595.00**
1.0 153	P & F anti- skid ceramic tiles 600x600mm	M2							
	Toilet		1.000	2.712		4.895	13.275		
			1.000	2.799		4.900	13.715		
							26.990	1,191.91	**32,170.06**
1.0 154	P & F ceramic Wall tiles	M2							
	Toilet		4.000	4.895		2.100	41.118		
			2.000	2.712		2.100	11.390		
			2.000	2.799		2.100	11.756		
			2.000	1.600		2.100	6.720		
	For Partition Walls		8.000	1.500		2.100	25.200		
							96.184	1,293.50	**1,24,414.26**
1.0 161	P& F 18 mm thk mirror polished granite	M2							
	Washing area		2.000	0.600		1.800	2.160		
							2.160	2,771.00	**5,985.36**
1.0 163	P& F 18 mm thk mirror polished granite	M							
	Steps		26.000	1.500			39.000		
							39.000	1,167.28	**45,523.92**
1.0 164	P&F 18 mm thk granite for stair treads	M							
	Steps		26.000	1.500			39.000		
							39.000	1,293.50	**50,446.50**
1.0 18	P&F of double shutter fully glazed door	M2							

	Main entry		2.000	1.500		2.100	6.300		
	Cabins		6.000	0.900		2.100	11.340		
							17.640	**5,427.63**	**95,743.39**
1.0 201	P&F double action hydraulic floor spring						**8.000**	**3,053.66**	**24,429.28**
1.0 202	P & F hydraulic Door closer (upto 80kg)						**16.000**	**1,526.83**	**24,429.28**
1.0 205	P/F stainless steel tower bolt 200X16mm						**16.000**	**171.40**	**2,742.40**
1.0 207	P/F stainless steel door twin rubber sto						**8.000**	**144.80**	**1,158.40**
1.0 208	P/F stainless steel D-type door handle						**16.000**	**152.09**	**2,433.44**
1.0 213	P/F brass 100mm mortise latch lock 6leve						**10.000**	**1,477.58**	**14,775.80**
1.0 351	P/F 40mm CPVC	M					**15.000**	**398.00**	**5,970.00**
1.0 49	Conduit pipe 25 mm						**70.000**	**139.30**	**9,751.00**
1.0 418	S/F 25amps-63amps rating 240/415V single	EA					**4.00**	**238.38**	**953.52**
1.0 419	S/F TP sheet steel encl. 16/25/32amps 41	EA					**8.00**	**1,377.35**	**11,018.80**
1.0 441	S/F 2'X2' led luminair of bajaj 36WX1wcl	EA					**72.00**	**3,272.34**	**2,35,608.48**
1.0 447	S/F led down lighter ceiling mounted 18W	EA					**25.00**	**1,799.41**	**44,985.25**
1.0 483	S/I wiring for light pt/fan pt/ exh. fan	EA					**120.00**	**479.72**	**57,566.40**
1.0 484	S/I wiring for power pt/AC pt/TV 6/16Amp	EA					**20.00**	**549.66**	**10,993.20**
1.0 507	3R X1.5sqm copper flexible wire light pt	M					**800.00**	**98.51**	**78,808.00**
1.0 508	3R X2.5sqm copper flexible wire power pt	M					**300.00**	**142.83**	**42,849.00**
1.0 509	3R X 4sqm copper flexible wire for AC	M					**150.00**	**182.23**	**27,334.50**
1.0 51	3R X 6sqm copper flexible wire for AC 2T	M					**100.00**	**216.71**	**21,671.00**

1.0 513	10sqmX1 core copper flexible PVC insulat	M					**60.00**	**137.91**	**8,274.60**
1.0 514	16sqmX1 core copper flexible PVC insulat	M					**30.00**	**180.26**	**5,407.80**
1.0 112	P&F stainless steel Railings	M							
	Stair case		2.00	4.20			8.40		
							8.40	4,090.00	**34,356.00**
								Total	**1,68,32,349.38**
								GST 18%	**30,29,822.89**
								Total	**1,98,62,172.27**
									2.0

TATA POWER SOUTHERN ODISHA DISTRIBUTION LTD.									
Switchyard Development & Chainlink Fencing (Sample Working - Will change as per size)									
SL NO	**DESCRIPTION**	**UNIT**	**NO**	**L**	**B**	**H**	**QTY**	**RATE**	**AMOUNT**
1.001	Excavation	M3							
	Toe wall		1	155.000	0.350	0.450	24.413		
	Fencing		1	150.000	0.380	0.750	42.750		
					TOTAL		**67.163**	238.80	**16,038.41**
1.002	Providing and laying of 40mm to 65 mm metal	M3							
	Gravel Filling Area		1	40.000	31.307		1252.272		
	Final Switchyard area						1252.272		
1.002	Providing and laying of 40mm to 65 mm metal	M3	1	1252.272		0.150	**187.841**		
					TOTAL		**187.841**	2,000.00	**3,75,681.60**
1.047	P & L 225 or 300 mmthk dry rubble soling	M3							
	For Chainlink Fencing area		1	150.000	0.380	0.225	12.825		
					TOTAL		**12.825**	1,990.00	**25,521.75**
1.003	PCC M10	M3							
	Gravel Filling Area		1	1252.272		0.100	125.227		
	Toe wall		1	155.000	0.330	0.075	3.836		
					TOTAL		**129.063**	5,989.10	**7,72,973.91**
1.053	PCC M15	M3							
	Fencing		1	150.000	0.380	0.075	4.275		
	Coping		1	150.000	0.280	0.100	4.200		
					TOTAL		**8.475**	6,181.19	**52,385.59**
1.004	P & L precast RCC covers of M25 grade	M3							
	for Chamber		50	0.700	0.700	0.075	1.838		
					TOTAL		**1.838**	8,059.50	**14,809.33**
1.006	BRICK Work	M3							
	Toe wall		1	130.000	0.115	0.150	2.243		
	Toe wall		1	130.000	0.115	0.500	7.475		
	Brick Chamber for Old Earth Pit		60	1.500	0.125	0.450	5.063		
	Wall fencing		1	139.420	0.230	0.600	19.240		
					TOTAL		**34.020**	6,138.00	**2,08,814.76**
1.007	18 MM PLASTER	M2							
	Toe wall		1	130.000		0.750	97.500		
	Plaster brick chamber		60	2.100		0.550	69.300		
	Wall fencing		2	110.000		0.300	66.000		
					TOTAL		**232.800**	431.83	**1,00,530.02**

TATA POWER SOUTHERN ODISHA DISTRIBUTION LTD.									
Switchyard Development & Chainlink Fencing (Sample Working - Will change as per size)									
SL NO	**DESCRIPTION**	**UNIT**	**NO**	**L**	**B**	**H**	**QTY**	**RATE**	**AMOUNT**
1.008	P & L Exterior quality paint	M2							
	Toe wall	1	120			0.750	90.000		
	Brick chamber	1	60			0.250	15.000		
	PTR	1	12			1.200	14.400		
	St Trf	1	8			2.000	16.000		
	Breaker	10	3			0.250	7.500		
	Chamber	60	2.2			0.125	16.500		
	Wall fencing		2	150.000		0.300	90.000		
					TOTAL		**249.400**	216.71	**54,047.47**
1.087	P & L Synthetic enamel paint	M2							
	Runners		2	150.000		0.260	78.000		
					TOTAL		**78.000**	209.13	**16,312.14**
1.0168	P/F/E Str steel (hollow / tubular sec)	Ton							
	65X65X6 Runner		2	150.000		5.800	1740.000		
	46 Angle Post		46	3.000		5.800	800.400		
	For Gates								
	50X50X5 Angle vertical		4	1.800	7.200	3.800	27.360		
	50X50X5 Angle Horizontal		4	0.700	2.800	3.800	10.640		
	Lock & Hinges		10.5				10.500		
					TOTAL		**2.589**	1,09,450.0	**2,83,355.11**
1.0181	P,S&F chain link fencing	M2							
	Wall		1	110.000		1.800	198.000		
					TOTAL		**198.000**	384.17	**76,065.66**
1.0184	Providing and fixing G I barbed wire	M							
	Wall		3	110.000			330.000		
					TOTAL		**330.000**	33.49	**11,051.70**
1.012	HYSD Bars	Ton							
	Chamber cover long @ 10mm		300	0.660		0.617	122.166		
	Short bar @ 10 mm		300	0.660		0.617	122.166		
	Wall long		3	110.000		0.395	130.350		
	Wall Short		551	0.200		0.395	43.529		
					TOTAL		**0.418**	98,505.00	**41,195.87**
1.015	P&F heavy duty CPVC Ball valve 32mm dia	EA					10.000	520.00	**5,200.00**
1.016	P&F CPVC pipe for 15 mm Dia to Chamber	M					80.000	248.75	**19,900.00**
1.017	P&F CPVC pipe for 25 mm Dia to Chamber	M					40.000	323.38	**12,935.20**

TATA POWER SOUTHERN ODISHA DISTRIBUTION LTD.									
Switchyard Development & Chainlink Fencing (Sample Working - Will change as per size)									
SL NO	**DESCRIPTION**	**UNIT**	**NO**	**L**	**B**	**H**	**QTY**	**RATE**	**AMOUNT**
							TOTAL		**20,86,818.52**
							10% contingency		**2,08,681.85**
									22,95,500.37
							GST 18%		**4,13,190.07**
							TOTAL (Including GST)		**25,00,008.59**

DT workshop					
Sl. No.	**Description**	**Unit**	**Rate**	**Qty**	**Amount**
1	Exca.in all types of ordinary soils / ha(0-1.5m)	M3	238.80	755	1,80,294.00
2	Exca.in all types of ordinary soils / ha(1.5-3m)	M3	298.50	860	2,56,710.00
3	P&L 225 or 300mm thick dry rubble soling	M3	1,990.00	290	5,77,100.00
4	S,P&L in position PCC M10	M3	5,989.10	20	1,19,782.00
5	S,P&L in position PCC M15	M3	6,181.19	80	4,94,495.20
6	P&L RCC M25 grade upto ground floor slab	M3	7,741.10	130	10,06,343.00
7	P&L RCC M25 grade above groundfloor slab	M3	7,741.10	75	5,80,582.50
8	Providing and filling of sand	M3	1,194.00	2.5	2,985.00
9	Providing and filling of murrum	M3	1,182.06	230	2,71,873.80
10	Prov, binding and placing HYSD Bars	MT	98,505.00	21	20,68,605.00
11	P& L 1st class Brickwork(upto ground flo	M3	6,138.00	190	11,66,220.00
12	shuttering of Foundation and plinth	M2	250.00	265	66,250.00
13	column, piller upto ground floor slab	M2	300.00	600	1,80,000.00
14	column, piller above ground floor slab	M2	380.00	425	1,61,500.00
15	Beam/Slab/Stair upto ground floor slab	M2	450.00	1050	4,72,500.00
16	Beam/Slab/Stair above ground floor slab	M2	490.00	815	3,99,350.00
17	P & L 12 mm thk internal plaster	M2	364.47	1660	6,05,020.20
18	P & L 18 mm thk external plaster	M2	431.83	2750	11,87,532.50
19	P & L white putty	M2	147.76	4200	6,20,592.00
20	P & L Exterior quality paint	M2	216.71	1560	3,38,067.60
21	P & L Inerior quality paint	M2	211.79	3620	7,66,679.80
22	P & L M20 grade IPS Flooring	M2	621.57	270	1,67,823.90
23	P & F anti- skid ceramic tiles 600x600mm	M2	1,191.91	38	45,292.58
24	P & F ceramic Wall tiles	M2	1,293.50	168	2,17,308.00
25	P & F vitrified tiles 600x600mm	M2	1,283.27	88	1,12,927.76
27	Rolling shutter	SQM	4,321.29	50	2,16,064.50
28	Structural steel	MT	1,09,450.00	47.065	51,51,264.25
29	RMP Sheets (both corrugated +plain)	SQM	763.41	1260	9,61,896.60
30	Extra for providing mechanical device	EA	13,987.17	2	27,974.34
31	Anti -termite treatment	M2	148.25	310	45,957.50
32	Synthetic enamel paint	M2	209.13	1290	2,69,777.70

33	WPC Door frames	M	1,592.00	32	50,944.00
34	Aluminium .doors partially panelled	M2	4,432.73	12	53,192.76
35	Hydraullic door closure	EA	1,200.00	5	6,000.00
36	SS Tower bolt 200mm	EA	171.40	10	1,714.00
37	SS Twin rubber Door stopper	EA	144.80	5	724.00
38	Providing and fixing aluminiun Handle	EA	152.09	10	1,520.90
39	Toilet (ladies & Jents)	EA	1,50,000.00	2	3,00,000.00
				Total	1,91,52,865.39
				GST@18%	34,47,515.77
				Total incl GST	2,26,00,381.16
					2.26

Chain link fencing for 5 mtr x 5 mtr area				
Items	**UOM**	**Qty**	**Rate**	**Amount**
Excavation (0 to 1.5 mt)	m3	47.453	238.80	11,331.78
Rubble Soling	m3	14.236	1,990.00	28,329.64
PCC (M10)	m3	1.224	5,989.10	7,330.66
B/w Below Foundation	m3	1.969	6,138.00	12,085.72
Plaster	m2	11.100	431.83	4,793.31
External Painting	m2	41.810	216.71	9,060.65
Shuttering for coping	m2	4.968	250.00	1,242.00
Rebar	MT	0.037	98,505.00	3,644.69
Structural Steel	MT	0.142	1,09,450.00	15,541.90
Structure Painting	m2	40.000	209.13	8,365.20
Chain link fencing	m2	34.225	384.17	13,148.22
Barbed wire fencing GI type	mtr	55.5	33.49	1,858.70
		Sub Total		1,16,732.45
		GST 18 %		21,011.84
		Total		1,37,744.29
			Per running mt cost	6,887.21
			Say	7,000.00

Barbed wire Fencing for 5 x 5mtr area				
Items	UOM	Qty	Rate	Amount
Excavation (0 to 1.5 mt)	m3	0.638	238.80	152.35
PCC (M10)	M3	1.881	5,989.10	11,265.50
Shuttering	M2	10.994	250.00	2,748.50
B/W	m3	2.234	6,138.00	13,712.29
Plaster - 18 mm	m2	26.455	431.83	11,424.06
Paint	m2	26.455	216.71	5,733.06
Structural Steel	MT	0.068	1,09,450.00	7,442.60
Gate		0.04		-
Enamel paint	m2	20		4,182.60
Barbed wire GI	mtr	240.5		8,054.35
		Sub Total		64,715.31
			GST - 18%	11,648.76
		Total		76,364.07
		Per running mt cost		3,818.20
			say	4,000.00

DT FENCING ESTIMATE (Brick type)				
Item Description	**Unit**	**Qty**	**Unit Rate**	**Amount**
Clearing Vegitation	sqm	25.000	20.00	500.00
Excavation	Cum	13.300	238.80	3,176.04
Rubbel Soling	Cum	3.280	1,990.00	6,527.20
PCC M10 Below foundation	Cum	1.140	5,989.10	6,827.57
brickwork	Cum	11.420	6,138.00	70,095.96
Coping	Cum	0.210	6,181.19	1,298.05
Internal Plaster	M2	77.040	364.47	28,078.77
Structural Steel for Gate	MT	0.07	1,09,450.00	7,661.50
Painting of Wall	sqm	77.04	216.71	16,695.34
PCC inside (M 7.5)	Cum	1.6		8,747.25
Gravel filling inside 40 to 65 mm	Cum	1.6		3,200.00
				1,52,807.68
				27,505.38

			TOTAL	1,80,313.06
				7,212.52

Division Office					
Sr. No.	**Item description**	**UOM**	**Qty**	**Rate**	**Amount**
1	Excavation (0 to 1.5 mt)	M3	235.25	238.80	56,178.78
2	Excavation (1.51 to 3 mt)	M3	45.43	298.50	13,560.57
3	Hiring excavator	D	6.51	11,330.83	73,797.70
4	Providing cartage service and transporting,	M3	224.40	359.54	80,680.48
5	Rubble soling	M3	108.49	1,990.00	2,15,888.16
6	P & F concrete paver blocks 80mm	M2	236.94	1,094.50	2,59,325.36
7	PCC M10	M3	5.97	5,989.10	35,730.58
8	PCC M15	M3	43.18	6,181.19	2,66,931.30
9	RCC M25	M3	180.00	7,741.10	13,93,398.00
10	Prov, binding and placing HYSD Bars	TON	16.00	98,505.00	15,76,080.00
11	P & L 12 mm thk internal plaster	M2	358.11	364.47	1,30,520.11
12	P & L 18 mm thk external plaster	M2	414.90	431.83	1,79,165.94
13	P & F chicken mesh of 1.5 mm dia	M2	183.11	138.89	25,432.70
14	P & L Exterior quality paint	M2	386.22	216.71	83,698.26
15	P & L Inerior quality paint	M2	350.14	211.79	74,155.22
16	P & L Synthetic enamel paint	M2	49.94	209.13	10,443.95
17	P & F ceramic Wall tiles	M2	55.47	1,293.50	71,755.10
18	P & F vitrified tiles 600x600mm	M2	298.50	1,392.00	4,15,516.71
19	P & F Aluminium doors partly panelled	M2	23.31	4,432.73	1,03,326.94
20	P & F Aluminium louvered window	M2	2.88	4,432.73	12,766.26
21	P & F hydraulic Door closer (upto 80kg)	EA	10.00	1,526.83	15,268.30
22	P & F SS Twin rubber Door stopper	EA	11.00	144.80	1,592.80
23	P & F stainless steel door handle	EA	22.00	152.09	3,345.98
24	P/F brass 100mm mortise latch lock 6leve	EA	10.00	1,477.58	14,775.80
25	P/F/E Str steel (rolled / plate sec)	M2	0.68	1,09,450.00	74,364.53
26	P & F in position impregnated fibre boa	M2	150.00	487.60	73,140.00
27	P/F white vitreous china european WC	EA	5.00	12,892.71	64,463.55
28	P/F white glazed wash basin flatback	EA	5.00	6,186.11	30,930.55
29	P/F 100X80mm PVC deep seal nahani trap	EA	6.00	597.00	3,582.00
30	P/F PVC soap dispenser	EA	5.00	472.82	2,364.10
31	P/F 600X450mm bevelled edge mirror	EA	5.00	1,393.00	6,965.00
32	P/F CP jali for nahni trap	EA	6.00	142.59	855.54
33	P/F health faucet incl PVC connector	EA	5.00	1,008.18	5,040.90
34	P/F CP concealed one way bib cock 12mm	EA	4.00	1,188.22	4,752.88
35	P/F CP concealed two way bib cock 12mm	M2	5.00	1,477.58	7,387.90
36	P/F CP concealed angle cock 12mm	EA	14.00	1,140.69	15,969.66
37	S/F/F Towel rail	EA	5.00	1,492.50	7,462.50
38	P/F 20mm CPVC	M	50.00	278.60	13,930.00
39	P/F 25mm CPVC	M	100.00	323.38	32,338.00
40	P/F PVC pipe class-A down take 75mm dia	M	50.00	447.75	22,387.50
41	P/F unplastic Rigid PVC rain water 110mm	M	72.00	547.25	39,402.00
42	P/P polyethylebe water storage tank	L	2000.00	11.82	23,640.00
43	Soak pit-2500mm diaX3000mm deep 2400mm h	EA	1.00	29,850.00	29,850.00
44	S/P/L cement concrete screed (25-125mm t	M3	12.34	7,880.40	97,258.12
45	Prov serv for tree cutting	EA	8.00	2,985.00	23,880.00
46	S/F TP&N MCB distribution board 240V	EA	3.00	7,721.07	23,163.21
47	S/F TP sheet steel encl. 16/25/32amps 41	EA	24.00	1,377.35	33,056.40
48	S&I bulk head light fixture with cfl	EA	7.00	626.49	4,385.43
49	SITC earthing GI earth pipe 3m long 400m	EA	3.00	4,705.58	14,116.74
50	S/F 250mm exhaust fan with 900 rpm	EA	6.00	1,589.36	9,536.16
51	S/I wiring for light pt/fan pt/ exh. fan	EA	150.00	479.72	71,958.00

Division Office					
Sr. No.	**Item description**	**UOM**	**Qty**	**Rate**	**Amount**
52	S/I wiring for power pt/AC pt/TV 6/16Amp	EA	20.00	549.66	10,993.20
53	S&I medium class PVC conduit 25mm LMS	M2	250.00	124.31	31,077.50
54	3R X1.5sqm copper flexible wire light pt	M	450.00	98.51	44,329.50
55	3R X2.5sqm copper flexible wire power pt	M	400.00	142.83	57,132.00
56	3R X 4sqm copper flexible wire for AC	M	300.00	182.23	54,669.00
57	3R X 6sqm copper flexible wire for AC 2T	M	20.00	216.71	4,334.20
58	SITC water pump 1HP	EA	1.00	12,017.61	12,017.61
59	Shuttering in foundation	M2	221.68	250.00	55,419.20
60	Shuttering of Column, Pillars, post, struts	M2	201.02	300.00	60,306.00
61	Shutt. of slab and beam upto grnd. flr s	M2	563.40	450.00	2,53,528.09
62	B/w	M3	70.00	6,138.00	4,29,660.00
63	P & F anti- skid ceramic tiles 600x600mm	M2	15.28	1,191.91	18,207.90
64	Demolish brickwork	M3	28.15	763.41	21,491.52
65	Dismant.& stack. frames of Door /W/Vent.	M2	40.59	238.80	9,691.70
66	Providing and filling sand under slab	M3	49.52	1,492.50	73,905.86
67	RCC M25 precast slab	M3	0.14	8,059.50	1,104.15
68	DPC	M3	0.30	6,181.19	1,834.93
69	Cement Punning	M2	24.34	100.00	2,433.80
70	P&F 18MM THK MIRROR POLISHED GRANITE	M2	9.04	2,771.00	25,044.30
71	WPC Doors	M2	9.45	3,067.00	28,983.15
72	P & F glazed AL sliding window (3 Track)	M2	25.20	4,373.62	1,10,215.22
73	ALUMINIUM PARTITION	M2	65.74	4,063.33	2,67,139.57
74	GRID FALSE CEILING	M2	250.00	1,822.34	4,55,585.00
75	MS Gate	TON	1.38	1,09,450.00	1,51,169.38
76	P&F pre-coated RMP Corrugated sheets	M2	9.40	763.41	7,176.05
77	Prov urinal parryware magnum	EA	3.00	6,467.50	19,402.50
78	P/F wall mounted ceramic urinal separati	EA	3.00	3,482.50	10,447.50
79	Supply stainless steel kitchen sink	EA	1.00	8,668.44	8,668.44
80	bottle trap	EA	5.00	1,140.69	5,703.45
81	Cleaning Septic tank	EA	1.00	2,842.21	2,842.21
82	S&I of 2'x2' led luminair 36x1wclass led	EA	55.00	3,272.34	1,79,978.70
83	WALL MOUNTED FAN	EA	15.00	2,805.42	42,081.30
84	S/F flood light philips outdoor 120watt	EA	5.00	5,820.75	29,103.75
85	S/I main LT panel with 200A I/C MCCB 200	EA	1.00	1,92,577.28	1,92,577.28
86	WPC PARTITION 12 MM THICK	M2	9.81	5,000.00	49,050.00
	Total				85,76,819.63
	GST 18%				15,43,827.53
	Total(Including GST)				1,01,20,647.17

BOQ Estimate for New Section /SDO (Office Area 784 sqft)					
Sl No.	**Item Description**	**Qty.**	**UOM**	**Rate**	**Amount**
1	Clearing Vegetation	120.00	M2	20	2,400.00
2	E/W in exc. in all kinds of soil(0-1.5m)	136.41	M3	238.8	32,574.71
3	E/W in exc. in all kinds of soil(1.5-1.8m)	27.28	M3	298.5	8,143.68
4	Hiring Excavator (JCB or equivalent)	8.00	H	1413.55	11,308.40
5	Providing and filling of murrum	40.00	M3	1182.06	47,282.40
6	PRE CONST. ANTI- termite treatment	80.00	M2	148.25	11,860.00
7	Providing cartage service & transporting	50.00	M3	359.54	17,977.00
8	P & L 225 or 300 mmthk dry rubble soling	25.15	M3	1990	50,044.92
9	P & L PCC M10(1:3:6) grade	9.84	M3	5989.1	58,907.61
10	P & L PCC M15(1:2:4) grade	4.30	M3	6181.19	26,579.12
11	P&L RCC M20 grade upto ground floor slab	13.73	M3	7213.75	99,008.72
12	P&L RCC M25 grade upto ground floor slab	42.45	M3	7741.1	3,28,585.78
13	Prov, binding and placing HYSD Bars	6.00	TON	98505	5,91,030.00
14	P& L 1st class Brickwork(upto ground flo	51.00	M3	6138	3,13,052.64
15	P & L 12 mm thk internal plaster	220.40	M2	364.47	80,328.46
16	P & L 18 mm thk external plaster	319.41	M2	431.83	1,37,930.82
17	P & L Exterior quality paint	319.41	M2	216.71	69,219.34
18	P & L Inerior quality paint	220.40	M2	211.79	46,678.09
19	P & L Synthetic enamel paint	15.75	M2	209.13	3,293.80
20	P & F anti- skid ceramic tiles 600x600mm	6.07	M2	1191.91	7,237.28
21	P & F ceramic Wall tiles	31.33	M2	1293.5	40,527.94
22	P & F vitrified tiles 600x600mm	69.96	M2	1283.27	89,771.15
23	P &F Alumin. doors partly panelled	6.72	M2	4432.73	29,787.95
24	P&F 25 mm thk PVC flush door with frame	5.00	M2	2777.84	13,889.20
25	P & F Aluminium louvered window	0.72	M2	4432.73	3,191.57
26	P & F glazed AL sliding window (2 Track)	12.60	M2	4174.03	52,592.78
27	P & F hydraulic Door closer (upto 35kg)	4.00	EA	1200	4,800.00
28	P/F/E Str steel (rolled / plate sec)	0.33	TON	109450	36,118.50
29	Chicken mess	60.00	M2	138.89	8,333.40
30	Shuttering upto plinth level	114.28	M2	250	28,570.00
31	Shuttering for Column above plinth to ground slab	83.12	M2	300	24,936.75
32	Shuttering for slab	130.20	M2	450	58,590.00
33	Provd. & Laying five layer 3mm thick APP	84.00	M2	632	53,088.00
34	S&I SP&N MCB distribution board 12 way	1.00	EA	5750.97	5,750.97
35	S&I 415 volts MCB/RCCB(3 Ph) 63Amps	1.00	EA	4669.14	4,669.14
36	S&I 6 amps to 16 amps CB	5.00	EA	155.4	777.00
37	S&I 25 amps to 63 amps CB	5.00	EA	238.38	1,191.90
38	S&I 16/25/32 amps 415volts DP MCB	5.00	EA	1377.35	6,886.75
39	P&F 02 to 04 modular Switch boards	15.00	EA	847.14	12,707.10
40	P&F 06 to 08 modular Switch boards	15.00	EA	1228.36	18,425.40
41	P&F 12 to 16 modular Switch boards	4.00	EA	1469.69	5,878.76
42	S&I modular switch/socket 5/6 amps	30.00	EA	126.09	3,782.70
43	S&I modular switch/socket 15/16 amps	10.00	EA	123.33	1,233.30
44	S&I modular switch/socket 3pin 15/16amps	30.00	EA	172.38	5,171.40
45	S&I modular switch/socket 5pin 15/16amps	10.00	EA	230.04	2,300.40
46	S and I of linear Led tubelight (20 w)	10.00	EA	1227.37	12,273.70
47	S&I of led down ceiling mounted (18W)	22.00	EA	1799.41	39,587.02
48	S&I of Cu/GI wire clamped to walls	2.00	EA	183.22	366.44
49	SITC Earthing with G.I. earth pipe 4.5m	1.00	EA	4705.58	4,705.58

BOQ Estimate for New Section /SDO (Office Area 784 sqft)					
Sl No.	**Item Description**	**Qty.**	**UOM**	**Rate**	**Amount**
50	S&I Ceiling fan 1200mm 240v	5.00	EA	1920.85	9,604.25
51	S&I of 250 mm dia exhaust fan	2.00	EA	1589.36	3,178.72
52	S&I of Wiring for light point	40.00	EA	479.72	19,188.80
53	P&F PVC Casing Capping up to 20 to 25 mm	150.00	M	82.05	12,307.50
54	3R X 1.5 Sqm copper flexible wire	200.00	M	98.51	19,702.00
55	3R X 2.5 Sqm copper flexible wire	120.00	M	142.83	17,139.60
56	3R X 4 Sqm copper flexible wire	100.00	M	182.23	18,223.00
57	3C Flat Cable for Motor	20.00	M	139.3	2,786.00
58	6 Sqm x 1 core copper flexible	40.00	M	89.64	3,585.60
59	S&I Water pump 1 HP	1.00	EA	12017.61	12,017.61
60	P&F European WC Floor mounted	2.00	EA	12892.71	25,785.42
61	P. lip type urinal with accessories	2.00	EA	5228.15	10,456.30
62	P&F flat back wash basin with Stand	2.00	EA	6186.11	12,372.22
63	P&F Nahani Trap 100x80mm	6.00	EA	597	3,582.00
64	P&F stone ware gully traps	4.00	EA	472.82	1,891.28
65	P&F heavy duty PVC soap dispenser	2.00	EA	472.82	945.64
66	P&F bevelled edge Mirror	2.00	EA	1393	2,786.00
67	P&I heavy duty Health Faucet	2.00	EA	1008.18	2,016.36
68	P&F CP bib cock 1 way size 12mm dia	4.00	EA	1188.22	4,752.88
69	P&F CP bib cock 2 way size 12mm dia	2.00	EA	1477.58	2,955.16
70	P&F cp concealed angle cock size 12mm	4.00	EA	1140.69	4,562.76
71	P&F cp concealed stop cock size 12mm dia	2.00	EA	1140.69	2,281.38
72	P&F heavy duty GM gate valve 25mm dia	2.00	EA	856.01	1,712.02
73	P&F PVC pipe Class-B (6 kg/cm2) -75mm D	20.00	M	398	7,960.00
74	P&F PVC pipeClass-B (6 kg/cm2)-110 mm D	50.00	M	597	29,850.00
75	P&F CPVC pipe for 20 mm Dia	20.00	M	278.6	5,572.00
76	P&F CPVC pipe for 25 mm Dia	40.00	M	323.38	12,935.20
77	Providing & Placing PVC Water tank	1000.00	L	11.82	11,820.00
78	Serv. of Electrician/Carpenter/ plumber	2.00	D	1142.66	2,285.32
79	Septik Tank Soak Pit Chamber cost	1.00	Nos		3,10,204.00
				Total	**30,87,806.57**
				GST	**5,55,805.18**
				Incl. GST	**36,43,611.75**

Store Abstract

Item	Unit	Qty	Rate	Amount
Road	rmt	500	18,500.00	92,50,000.00
Drain	rmt	1000	14,132.49	1,41,32,487.26
Executive Washroom	nos	4	7,93,467.49	31,73,869.94
Hard Top	sqm	1000	4,999.95	49,99,948.56
Scrap Yard	sqm	4478	1,885.71	84,44,207.35
			Total	4,00,00,513.11

Summary of Estimated Cost-Administration and Employee Welfare for the fy 26-27

Sl. No.	Description (Items)	UOM	Qty	Unit Rate in Rs.	Amt (Rs. In Lakhs)
1	Cabinet	Nos.	50	5000	2.50
2	Ceiling fans	Nos.	200	2500	5.00
3	Cushion fibre chair for offices	Nos.	500	3000	15.00
4	Executive chairs	Nos.	300	4500	13.50
5	Invertor- 2kva & Batteries	Nos.	30	30000	9.00
6	Invertor 3.5kva & Batteries	Nos.	30	50000	15.00
7	Pedestal Fan	Nos.	30	3500	1.05
8	Slotted angles racks	Nos.	100	8000	8.00
9	Sound system with speaker - Ahuja	Nos.	4	21000	0.84
10	Starter for Submersibles Pump	Nos.	30	8000	2.40
11	Steel almirah	Nos.	50	26000	13.00
12	Submersible Pump 1 Hp	Nos.	30	15000	4.50
13	Wall mounted fans	Nos.	100	2500	2.50
14	Water cooler	Nos.	20	35000	7.00
15	Water Purifier -10 LPH PF+RO+UF	Nos.	30	30000	9.00
16	Water Purifier -50 LPH PF+RO+UF	Nos.	30	39000	11.70
	TOTAL Cost(Rs. In Cr.)				**1.20**

B. Electrical Network Related Bill of Quantities

Cost Estimate for 33kV Intermediate Pole with 13mtr. WPB-pole					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	1	43,236.68	43,236.68
2	Danger Plate, 33kV	EA	1	134.05	134.05
3	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
4	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
5	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	1.32	125.67	166.10
6	33kV,10kN pin insulator polymer	EA	3	804.29	2,412.86
7	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	1	3,016.08	3,016.08
8	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	1	167.56	167.56
9	CLAMP F TYPE GI FOR 33KV	EA	1	502.68	502.68
10	Coil Earthing	EA	1	278.15	278.15
11	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
12	GI Nut , Bolt & Washer of different sizes	Kg	1.45	130.70	188.86
13	Black Paint	Ltr	0.5	368.63	184.32
14	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A				**Total Cost of materials**	**51,056.52**
B				**Stock, Storage & Insurance i.e 3%**	**1,531.70**
C				**Sub Total C=A+B**	**52,588.21**
D				**Contigency @ 3% of C**	**1,577.65**
E				**Tools & Plants @ 2% of C**	**1,051.76**
F				**Transportation @ 7.5% of C**	**3,944.12**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**2,226.69**
H				**Erection Other @ 10%**	**805.44**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**62,193.87**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	1	4,315.10	4,315.10
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	1	931.67	931.67
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.%_1	EA	1	986.48	986.48
K				**Total Civil Part**	**6,233.25**
L				**Sub-Total L =J+K**	**68,427.13**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**68,427.13**
O				**CESS @ 1% of Sub-Total N**	**684.27**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**69,111.40**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**69,111.40**

Cost Estimate for 33kV Intermediate Pole with 11mtr. WPB-pole					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	1	37,022.11	37,022.11
2	Danger Plate, 33kV	EA	1	134.05	134.05
3	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
4	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
5	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	1.32	125.67	166.10
6	33kV,10kN pin insulator polymer	EA	3	804.29	2,412.86
7	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	1	3,016.08	3,016.08
8	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	1	167.56	167.56
9	CLAMP F TYPE GI FOR 33KV	EA	1	502.68	502.68
10	Coil Earthing	EA	1	278.15	278.15
11	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
12	GI Nut , Bolt & Washer of different sizes	Kg	1.45	130.70	188.86
13	Black Paint	Ltr	0.5	368.63	184.32
14	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A				**Total Cost of materials**	**44,841.95**
B				**Stock, Storage & Insurance i.e 3%**	**1,345.26**
C				**Sub Total C=A+B**	**46,187.21**
D				**Contigency @ 3% of C**	**1,385.62**
E				**Tools & Plants @ 2% of C**	**923.74**
F				**Transportation @ 7.5% of C**	**3,464.04**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**1,906.64**
H				**Erection Other @ 10%**	**805.44**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**54,672.70**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	1	3,530.54	3,530.54
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	1	931.67	931.67
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.% 1	EA	1	986.48	986.48

Cost Estimate for 33kV Intermediate Pole with 11mtr. WPB-pole					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
K				**Total Civil Part**	**5,448.69**
L				**Sub-Total L =J+K**	**60,121.39**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**60,121.39**
O				**CESS @ 1% of Sub-Total N**	**601.21**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**60,722.60**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**60,722.60**

Cost Estimate for 11kV Intermediate Pole with 13mtr. WPB-pole					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	1	43,236.68	43,236.68
2	Danger Plate, 11kV	EA	1	134.05	134.05
3	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
4	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
5	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	1.32	125.67	166.10
6	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
7	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	1	1,357.24	1,357.24
8	GI Back Clamp for 11kV 'V' Cros Arm	EA	1	134.05	134.05
9	CLAMP F TYPE GI FOR 11KV	EA	1	402.14	402.14
10	Coil Earthing	EA	1	278.15	278.15
11	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
12	GI Nut , Bolt & Washer of different sizes	Kg	1.45	130.70	188.86
13	Black Paint	Ltr	0.5	368.63	184.32
14	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A				**Total Cost of materials**	**47,856.12**
B				**Stock, Storage & Insurance i.e 3%**	**1,435.68**
C				**Sub Total C=A+B**	**49,291.81**
D				**Contigency @ 3% of C**	**1,478.75**
E				**Tools & Plants @ 2% of C**	**985.84**
F				**Transportation @ 7.5% of C**	**3,696.89**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**2,226.69**
H				**Erection Other @ 10%**	**475.80**
I				**Erection PSC Pole @ 20%**	

J				**Sub Total J=C+D+E+F+G+H+I**	**58,155.77**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	1	4,315.10	4,315.10
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	1	931.67	931.67
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.%_1	EA	1	986.48	986.48
K				**Total Civil Part**	**6,233.25**
L				**Sub-Total L =J+K**	**64,389.03**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**64,389.03**
O				**CESS @ 1% of Sub-Total N**	**643.89**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**65,032.92**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**65,032.92**

Cost Estimate for 11kV Intermediate Pole with 11mtr. WPB-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	1	37,022.11	37,022.11
2	Danger Plate, 11kV	EA	1	134.05	134.05
3	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
4	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
5	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	1.32	125.67	166.10
6	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
7	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	1	1,357.24	1,357.24
8	GI Back Clamp for 11kV 'V' Cros Arm	EA	1	134.05	134.05
9	CLAMP F TYPE GI FOR 11KV	EA	1	402.14	402.14
10	Coil Earthing	EA	1	278.15	278.15
11	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
12	GI Nut , Bolt & Washer of different sizes	Kg	1.45	130.70	188.86
13	Black Paint	Ltr	0.5	368.63	184.32
14	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A				**Total Cost of materials**	**41,641.56**
B				**Stock, Storage & Insurance i.e 3%**	**1,249.25**
C				**Sub Total C=A+B**	**42,890.80**

D				**Contigency @ 3% of C**	**1,286.72**
E				**Tools & Plants @ 2% of C**	**857.82**
F				**Transportation @ 7.5% of C**	**3,216.81**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**1,906.64**
H				**Erection Other @ 10%**	**475.80**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**50,634.60**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	1	3,530.54	3,530.54
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	1	931.67	931.67
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.%_1	EA	1	986.48	986.48
K				**Total Civil Part**	**5,448.69**
L				**Sub-Total L =J+K**	**56,083.29**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**56,083.29**
O				**CESS @ 1% of Sub-Total N**	**560.83**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**56,644.12**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**56,644.12**

Cost Estimate for 11kV Intermediate Pole with 9mtr. WPB-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount(In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),9 mtr- with base plate 300x300x12	EA	1	30,461.70	30,461.70
2	Danger Plate, 11kV	EA	1	134.05	134.05
3	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
4	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
5	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	1.32	125.67	166.10
6	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
7	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	1	1,357.24	1,357.24
8	GI Back Clamp for 11kV 'V' Cros Arm	EA	1	134.05	134.05
9	CLAMP F TYPE GI FOR 11KV	EA	1	402.14	402.14

10	Coil Earthing	EA	1	278.15	278.15
11	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
12	GI Nut , Bolt & Washer of different sizes	Kg	1.45	130.70	188.86
13	Black Paint	Ltr	0.5	368.63	184.32
14	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A				**Total Cost of materials**	**35,081.15**
B				**Stock, Storage & Insurance i.e 3%**	**1,052.43**
C				**Sub Total C=A+B**	**36,133.58**
D				**Contigency @ 3% of C**	**1,084.01**
E				**Tools & Plants @ 2% of C**	**722.67**
F				**Transportation @ 7.5% of C**	**2,710.02**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**1,568.78**
H				**Erection Other @ 10%**	**475.80**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**42,694.86**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR WPB POLE	EA	1	2,942.12	2,942.12
	Couping of poles in ratio 1:1.5:3 for 9MTR WPB POLE	EA	1	882.63	882.63
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.%_1	EA	1	986.48	986.48
K				**Total Civil Part**	**4,811.23**
L				**Sub-Total L =J+K**	**47,506.09**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**47,506.09**
O				**CESS @ 1% of Sub-Total N**	**475.06**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**47,981.15**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**47,981.15**

Cost Estimate for 11kV Intermediate Pole with 10mtr. PSC-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount (In Rs.)
1	10 Mtr 330 Kg PSC Pole	EA	1	10,891.40	10,891.40
2	RCC base Plate	EA	1	426.38	426.38

3	Danger Plate, 11kV	EA	1	134.05	134.05
4	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
5	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
6	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	1.32	125.67	166.10
7	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
8	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	1	1,357.24	1,357.24
9	GI Back Clamp for 11kV 'V' Cros Arm	EA	1	134.05	134.05
10	CLAMP F TYPE GI FOR 11KV	EA	1	402.14	402.14
11	Coil Earthing	EA	1	278.15	278.15
12	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
13	GI Nut , Bolt & Washer of different sizes	Kg	1.45	130.70	188.86
14	Black Paint	Ltr	0.5	368.63	184.32
15	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A				**Total Cost of materials**	**15,937.23**
B				**Stock, Storage & Insurance i.e 3%**	**478.12**
C				**Sub Total C=A+B**	**16,415.34**
D				**Contigency @ 3% of C**	**492.46**
E				**Tools & Plants @ 2% of C**	**328.31**
F				**Transportation @ 7.5% of C**	**1,231.15**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**519.72**
I				**Erection PSC Pole @ 20%**	**2,243.63**
J				**Sub Total J=C+D+E+F+G+H+I**	**21,230.61**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 10MTR POLE	EA	1	3,255.94	3,255.94
	Couping of poles in ratio 1:1.5:3 for 10MTR POLE	EA	1	882.63	882.63
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.% 1	EA	1	986.48	986.48
K				**Total Civil Part**	**5,125.06**
L				**Sub-Total L =J+K**	**26,355.67**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**26,355.67**
O				**CESS @ 1% of Sub-Total N**	**263.56**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**26,619.22**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**26,619.22**

Cost Estimate for 11kV Intermediate Pole with 9mtr. PSC-pole					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	1	5,026.80	5,026.80
2	RCC base Plate	EA	1	426.38	426.38
3	Danger Plate, 11kV	EA	1	134.05	134.05
4	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
5	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
6	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	1.32	125.67	166.10
7	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
8	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	1	1,357.24	1,357.24
9	GI Back Clamp for 11kV 'V' Cros Arm	EA	1	134.05	134.05
10	CLAMP F TYPE GI FOR 11KV	EA	1	402.14	402.14
11	Coil Earthing	EA	1	278.15	278.15
12	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
13	GI Nut , Bolt & Washer of different sizes	Kg	1.45	130.70	188.86
14	Black Paint	Ltr	0.5	368.63	184.32
15	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A	**Total Cost of materials**				**10,072.63**
B	**Stock, Storage & Insurance i.e 3%**				**302.18**
C	**Sub Total C=A+B**				**10,374.81**
D	**Contigency @ 3% of C**				**311.24**
E	**Tools & Plants @ 2% of C**				**207.50**
F	**Transportation @ 7.5% of C**				**778.11**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				
H	**Erection Other @ 10%**				**519.72**

I				**Erection PSC Pole @ 20%**	**1,035.52**
J				**Sub Total J=C+D+E+F+G+H+I**	**13,226.90**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	1	2,942.12	2,942.12
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	1	882.63	882.63
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.%_1	EA	1	986.48	986.48
K				**Total Civil Part**	**4,811.23**
L				**Sub-Total L =J+K**	**18,038.13**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**18,038.13**
O				**CESS @ 1% of Sub-Total N**	**180.38**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**18,218.51**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**18,218.51**

Cost Estimate for LT Intermediate Pole with 9mtr. WPB-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),9 mtr- with base plate 300x300x12	EA	1	30,461.70	30,461.70
2	BOARD DANGER 400/440 VOLT	EA	1	134.05	134.05
3	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
4	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
5	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	1.32	125.67	166.10
6	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	1	212.94	212.94
7	NFC Suspension Clamp for ABC 25-50 Sqmm	EA	1	187.48	187.48
8	Flat Eye Hook for AB cable	EA	1	100.54	100.54
9	Coil Earthing	EA	1	278.15	278.15
10	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
11	GI Nut , Bolt & Washer of different sizes	Kg	1.0	130.70	124.16
12	Black Paint	Ltr	0.5	368.63	184.32
13	Yellow Colour Paint for Background	Ltr	1	251.07	251.07

A				**Total Cost of materials**	**32,618.62**
B				**Stock, Storage & Insurance i.e 3%**	**978.56**
C				**Sub Total C=A+B**	**33,597.18**
D				**Contigency @ 3% of C**	**1,007.92**
E				**Tools & Plants @ 2% of C**	**671.94**
F				**Transportation @ 7.5% of C**	**2,519.79**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**1,568.78**
H				**Erection Other @ 10%**	**222.16**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**39,587.77**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR WPB POLE	EA	1	2,942.12	2,942.12
	Couping of poles in ratio 1:1.5:3 for 9MTR WPB POLE	EA	1	882.63	882.63
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.% 1	EA	1	986.48	986.48
K				**Total Civil Part**	**4,811.23**
L				**Sub-Total L =J+K**	**44,399.00**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**44,399.00**
O				**CESS @ 1% of Sub-Total N**	**443.99**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**44,842.99**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**44,842.99**

Cost Estimate for LT Intermediate Pole with 9mtr. PSC-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	9 mtr long 300 kg PSC pole	EA	1	5,026.80	5,026.80
2	RCC base Plate	EA	1	426.38	426.38
3	BOARD DANGER 400/440 VOLT	EA	1	134.05	134.05
4	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	0.66	125.67	83.05
5	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
6	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	1.32	125.67	166.10

7	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	1	212.94	212.94
8	NFC Suspension Clamp for ABC 25-50 Sqmm	EA	1	187.48	187.48
9	Flat Eye Hook for AB cable	EA	1	100.54	100.54
10	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
11	GI Nut , Bolt & Washer of different sizes	Kg	0.4	130.70	52.99
12	Coil Earthing	EA	1	278.15	278.15
13	Black Paint	Ltr	0.5	368.63	184.32
14	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A				**Total Cost of materials**	**6,825.40**
B				**Stock, Storage & Insurance i.e 3%**	**204.76**
C				**Sub Total C=A+B**	**7,030.16**
D				**Contigency @ 3% of C**	**210.90**
E				**Tools & Plants @ 2% of C**	**140.60**
F				**Transportation @ 7.5% of C**	**527.26**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**185.26**
I				**Erection PSC Pole @ 20%**	**1,035.52**
J				**Sub Total J=C+D+E+F+G+H+I**	**9,129.70**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	1	2,942.12	2,942.12
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	1	882.63	882.63
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.% 1	EA	1	986.48	986.48
K				**Total Civil Part**	**4,811.23**
L				**Sub-Total L =J+K**	**13,940.93**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**13,940.93**
O				**CESS @ 1% of Sub-Total N**	**139.41**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**14,080.34**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**14,080.34**

Cost Estimate for LT Intermediate Pole with 8mtr. PSC-pole					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	8 mtr long 200 kg PSC pole	EA	1	3,351.20	3,351.20
2	RCC base Plate	EA	1	426.38	426.38
3	BOARD DANGER 400/440 VOLT	EA	1	134.05	134.05
4	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	0.66	125.67	83.05
5	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	3	134.05	402.14
6	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	1.32	125.67	166.10
7	EYE HOOK CLAMP FOR 8M PSC POLE	Pair	1	185.52	185.52
8	NFC Suspension Clamp for ABC 25-50 Sqmm	EA	1	187.48	187.48
9	Flat Eye Hook for AB cable	EA	1	100.54	100.54
10	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
11	GI Nut , Bolt & Washer of different sizes	Kg	0.4	130.70	52.99
12	Coil Earthing	EA	1	278.15	278.15
13	Black Paint	Ltr	0.5	368.63	184.32
14	Yellow Colour Paint for Background	Ltr	1	251.07	251.07
A				**Total Cost of materials**	**5,122.37**
B				**Stock, Storage & Insurance i.e 3%**	**153.67**
C				**Sub Total C=A+B**	**5,276.04**
D				**Contigency @ 3% of C**	**158.28**
E				**Tools & Plants @ 2% of C**	**105.52**
F				**Transportation @ 7.5% of C**	**395.70**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**182.43**
I				**Erection PSC Pole @ 20%**	**690.35**
J				**Sub Total J=C+D+E+F+G+H+I**	**6,808.33**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 8MTR PSC POLE	EA	1	2,942.12	2,942.12
	Couping of poles in ratio 1:1.5:3 for 8MTR PSC POLE	EA	1	882.63	882.63
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.%_1	EA	1	986.48	986.48
K				**Total Civil Part**	**4,811.23**
L				**Sub-Total L =J+K**	**11,619.56**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**11,619.56**
O				**CESS @ 1% of Sub-Total N**	**116.20**

P	**Inspection Fees**	
Q	**Drawing Approval**	
R	**Sub-Total R=N+O+P+Q**	**11,735.75**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**11,735.75**

Cost Estimate for 11kV Four Pole Structure with 11mtr. WPB-pole for N-1 Arrangement

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	4	37,022.11	1,48,088.44
2	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	328.86	125.67	41,328.34
3	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	Kg	245.62	125.67	30,866.56
4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	177.37	125.67	22,290.34
5	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	164.43	125.67	20,664.17
6	Side Support Channel 100X50X5mm,each channel length 0.35 mtr.	Kg	13.38	125.67	1,681.97
7	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	11.42	125.67	1,435.65
8	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	17.11	125.67	2,149.80
9	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	10.57	125.67	1,328.68
10	Danger Plate, 11kV	EA	4	134.05	536.19
11	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	2.64	125.67	332.20
12	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	12	134.05	1,608.58
13	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	5.29	125.67	664.40
14	11kV,5kN pin insulator polymer	EA	6	335.12	2,010.72
15	Disc Insulator Hardware Fittings (70KN) B&S	EA	6	586.46	3,518.76
16	11KV Polymeric Disc Insulator 70KN B&S	EA	6	1,926.94	11,561.64
17	Coil Earthing	EA	4	278.15	1,112.60
18	8 SWG GI wire (4mm)-(Heavy)	Kg	1.05	125.67	131.70
19	CLAMP PG FOR 100 SQMM AAA COND	EA	6	971.85	5,831.09
20	11kV AB switch 400A Polymer	Set	2	19,855.86	39,711.72
21	GI Nut , Bolt & Washer of different sizes	Kg	61.7	130.70	8,069.36
22	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
23	HT Stay Clamp Type-B for WPB Pole	Pair	2	331.77	663.54

24	H.T 11kV Stay set (Complete)	Set	4	1,759.38	7,037.52
25	HT stay (Guy) insulator	EA	4	83.78	335.12
26	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	40	125.67	5,026.80
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	3	1,509.70	4,529.11
28	GI Flat 50X6 mm(2.36kg/mtr)	Kg	24	125.67	3,016.08
29	Black Paint	Ltr	2	368.63	737.26
30	Yellow Colour Paint for Background	Ltr	4	251.07	1,004.27
A				**Total Cost of materials**	**3,67,936.16**
B				**Stock, Storage & Insurance i.e 3%**	**11,038.08**
C				**Sub Total C=A+B**	**3,78,974.25**
D				**Contigency @ 3% of C**	**11,369.23**
E				**Tools & Plants @ 2% of C**	**7,579.48**
F				**Transportation @ 7.5% of C**	**28,423.07**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**7,626.55**
H				**Erection Other @ 10%**	**22,644.32**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**4,56,616.90**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	4	3,530.54	14,122.16
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	4	931.67	3,726.68
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	3	4,130.00	12,390.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	2	1,180.00	2,360.00
K				**Total Civil Part**	**38,875.35**
L				**Sub-Total L =J+K**	**4,95,492.25**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**4,95,492.25**
O				**CESS @ 1% of Sub-Total N**	**4,954.92**
P				**Inspection Fees**	
Q				**Drawing Approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**5,01,197.17**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**5,01,197.17**

Cost Estimate for Bare to ABC 1.1KV LT 4x95+1x95+1x16mm2 with 9Mtr PSC					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	8	5,026.80	40,214.40
2	RCC base Plate	EA	8	426.38	3,411.05
3	1.1KV LT AB Cable 4x95+1x95+1x16mm2	Km	1.03	4,36,620.00	4,49,718.60
4	BOARD DANGER 400/440 VOLT	EA	8.00	134.05	1,072.38
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	5.29	125.67	664.40
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	24.00	134.05	3,217.15
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	10.57	125.67	1,328.80
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	12	212.94	2,555.31
9	NFC Suspension Clamp for ABC 70-95 Sqmm	EA	4	345.63	1,382.54
10	Flat Eye Hook for AB cable	EA	12	100.54	1,206.43
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(70-95sq mm)	EA	8	220.58	1,764.62
12	LT Stay Set (Complete)	Set	4	871.31	3,485.25
13	LT Stay (Guy) Insulator	EA	4	50.27	201.07
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	4	205.59	822.37
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	32	125.67	4,021.44
16	Coil Earthing	EA	8	278.15	2,225.20
17	8 SWG GI wire (4mm)-(Heavy)	Kg	2.096	125.67	263.40
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	24	139.18	3,340.34
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 95SQMM	EA	40	10.82	432.82
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	9.68	130.70	1,265.15
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16
30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	40	29.95	1,197.94
34	Tie Plastic size 9mmX265mm	Lot	60	29.95	1,796.90
35	Black Paint	Ltr	4	368.63	1,474.53
36	Yellow Colour Paint for Background	Ltr	8	251.07	2,008.55
A				**Total Cost of materials**	**6,30,877.10**
B				**Stock, Storage & Insurance i.e 3%**	**18,926.31**
C				**Sub Total C=A+B**	**6,49,803.42**
D				**Contigency @ 3% of C**	**19,494.10**

E				**Tools & Plants @ 2% of C**	**12,996.07**
F				**Transportation @ 7.5% of C**	**48,735.26**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**60,838.26**
I				**Erection PSC Pole @ 20%**	**8,284.17**
J				**Sub Total J=C+D+E+F+G+H+I**	**8,00,151.27**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	2,942.12	23,536.93
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	882.63	7,061.08
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line% 1	EA	1	12,354.60	12,354.60
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of LT ABC Cable with accesso	Mtr	0	27.15	-
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	4120	8.26	34,031.20
K				**Total Civil Part**	**85,502.32**
L				**Sub-Total L =J+K**	**8,85,653.59**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**8,85,653.59**
O				**CESS @ 1% of Sub-Total N**	**8,856.54**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**8,95,510.13**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**8,95,510.13**

Cost Estimate for Bare to ABC 1.1KV LT 4x50+1x50+1x16mm2 with 9Mtr PSC

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	9 mtr long 300 kg PSC pole	EA	8	5,026.80	40,214.40
2	RCC base Plate	EA	8	426.38	3,411.05
3	1.1KV LT AB Cable 4x50+1x50+1x16mm2	Km	1.03	2,43,340.00	2,50,640.20
4	BOARD DANGER 400/440 VOLT	EA	8.00	134.05	1,072.38
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	5.29	125.67	664.40
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	24.00	134.05	3,217.15
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	10.57	125.67	1,328.80
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	12	212.94	2,555.31
9	NFC Suspension Clamp for ABC 50-70 Sqmm	EA	4	294.63	1,178.54
10	Flat Eye Hook for AB cable	EA	12	100.54	1,206.43
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(50-70 sq mm)	EA	8	90.86	726.88

12	LT Stay Set (Complete)	Set	4	871.31	3,485.25
13	LT Stay (Guy) Insulator	EA	4	50.27	201.07
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	4	205.59	822.37
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	32	125.67	4,021.44
16	Coil Earthing	EA	8	278.15	2,225.20
17	8 SWG GI wire (4mm)-(Heavy)	Kg	2.096	125.67	263.40
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	24	139.18	3,340.34
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 50SQMM	EA	40	9.76	390.34
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	9.68	130.70	1,265.15
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16
30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	40	29.95	1,197.94
34	Tie Plastic size 9mmX265mm	Lot	60	29.95	1,796.90
35	Black Paint	Ltr	4	368.63	1,474.53
36	Yellow Colour Paint for Background	Ltr	8	251.07	2,008.55
A				**Total Cost of materials**	**4,30,514.49**
B				**Stock, Storage & Insurance i.e 3%**	**12,915.43**
C				**Sub Total C=A+B**	**4,43,429.92**
D				**Contigency @ 3% of C**	**13,302.90**
E				**Tools & Plants @ 2% of C**	**8,868.60**
F				**Transportation @ 7.5% of C**	**33,257.24**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**40,200.91**
I				**Erection PSC Pole @ 20%**	**8,284.17**
J				**Sub Total J=C+D+E+F+G+H+I**	**5,47,343.73**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	2,942.12	23,536.93
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	882.63	7,061.08

	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line% 1	EA	1	12,354.60	12,354.60
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of LT ABC Cable with accesso	Mtr	0	27.15	-
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	4120	8.26	34,031.20
K				**Total Civil Part**	**85,502.32**
L				**Sub-Total L =J+K**	**6,32,846.06**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**6,32,846.06**
O				**CESS @ 1% of Sub-Total N**	**6,328.46**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**6,40,174.52**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**6,40,174.52**

Cost Estimate for Bare to ABC 1.1KV LT 4x35+1x35+1x16mm2 with 9Mtr PSC

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	9 mtr long 300 kg PSC pole	EA	8	5,026.80	40,214.40
2	RCC base Plate	EA	8	426.38	3,411.05
3	1.1KV LT AB Cable 4x35+1x35+1x16mm2	Km	1.03	1,79,790.00	1,85,183.70
4	BOARD DANGER 400/440 VOLT	EA	8.00	134.05	1,072.38
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	5.29	125.67	664.40
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	24.00	134.05	3,217.15
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	10.57	125.67	1,328.80
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	12	212.94	2,555.31
9	NFC Suspension Clamp for ABC 25-50 Sqmm	EA	4	187.48	749.91
10	Flat Eye Hook for AB cable	EA	12	100.54	1,206.43
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(25-35 sq mm)	EA	8	63.72	509.76
12	LT Stay Set (Complete)	Set	4	871.31	3,485.25

13	LT Stay (Guy) Insulator	EA	4	50.27	201.07
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	4	205.59	822.37
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	32	125.67	4,021.44
16	Coil Earthing	EA	8	278.15	2,225.20
17	8 SWG GI wire (4mm)-(Heavy)	Kg	2.096	125.67	263.40
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	24	139.18	3,340.34
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 35SQMM	EA	40	11.46	458.31
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	9.68	130.70	1,265.15
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16
30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	40	29.95	1,197.94
34	Tie Plastic size 9mmX265mm	Lot	60	29.95	1,796.90
35	Black Paint	Ltr	4	368.63	1,474.53
36	Yellow Colour Paint for Background	Ltr	8	251.07	2,008.55
A				**Total Cost of materials**	**3,64,480.21**
B				**Stock, Storage & Insurance i.e 3%**	**10,934.41**
C				**Sub Total C=A+B**	**3,75,414.62**
D				**Contigency @ 3% of C**	**11,262.44**
E				**Tools & Plants @ 2% of C**	**7,508.29**
F				**Transportation @ 7.5% of C**	**28,156.10**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**33,399.38**
I				**Erection PSC Pole @ 20%**	**8,284.17**
J				**Sub Total J=C+D+E+F+G+H+I**	**4,64,024.99**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	2,942.12	23,536.93
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	882.63	7,061.08
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51

	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line% 1	EA	1	12,354.60	12,354.60
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of LT ABC Cable with accesso	Mtr	0	27.15	-
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	4120	8.26	34,031.20
K				**Total Civil Part**	**85,502.32**
L				**Sub-Total L =J+K**	**5,49,527.31**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**5,49,527.31**
O				**CESS @ 1% of Sub-Total N**	**5,495.27**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**5,56,022.59**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**5,56,022.59**

Cost Estimate for 33kV Cradle Guard

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	4	43,236.68	1,72,946.70
2	Guarding Cross arm of 75X40X4.8mm GI Channel 3.7 Mtr long	Kg	105.67	125.67	13,279.80
3	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	124.28	125.67	15,618.27
4	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	172.08	125.67	21,625.29
5	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.432 mtr.	Kg	123.55	125.67	15,526.78
6	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	10.55	125.67	1,325.87
7	Danger Plate, 33kV	EA	4	134.05	536.19
8	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	2.64	125.67	332.20
9	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	12	134.05	1,608.58
10	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	5.29	125.67	664.40
11	33kV,10kN pin insulator polymer	EA	6	804.29	4,825.73
12	33KV Polymeric Disc Insulator 90KN B&S	EA	12	1,926.94	23,123.28
13	Disc Insulator Hardware Fittings (90KN) B&S	Set	12	837.80	10,053.60
14	Coil Earthing	EA	4	278.15	1,112.60
15	Eye Bolt	EA	4	428.34	1,713.36
16	8 SWG GI wire (4mm)-(Heavy)	Kg	42.26	125.67	5,311.07

17	10 SWG GI wire(3.15mm)-(Heavy)	Kg	1.78	80.38	142.76
18	GI Nut , Bolt & Washer of different sizes	Kg	10	130.70	1,302.68
19	HT Stay Clamp Type-A for WPB Pole	Pair	4	331.77	1,327.08
20	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
21	HT stay (Guy) insulator	EA	8	83.78	670.24
22	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
23	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
24	GI Flat 50X6 mm(2.36kg/mtr)	Kg	20	125.67	2,513.40
25	Black Paint	Ltr	2	368.63	737.26
26	Yellow Colour Paint for Background	Ltr	4	251.07	1,004.27
A				**Total Cost of materials**	**3,14,898.53**
B				**Stock, Storage & Insurance i.e 3%**	**9,446.96**
C				**Sub Total C=A+B**	**3,24,345.49**
D				**Contigency @ 3% of C**	**9,730.36**
E				**Tools & Plants @ 2% of C**	**6,486.91**
F				**Transportation @ 7.5% of C**	**24,325.91**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**8,906.76**
H				**Erection Other @ 10%**	**14,621.04**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**3,88,416.47**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	4	4,315.10	17,260.41
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	4	931.67	3,726.68
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.% 1	EA	4	986.48	3,945.92
K				**Total Civil Part**	**39,469.53**
L				**Sub-Total L =J+K**	**4,27,886.00**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**4,27,886.00**
O				**CESS @ 1% of Sub-Total N**	**4,278.86**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**4,32,164.86**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**4,32,164.86**

Cost Estimate for 11kV Cradle Guard					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
2	Guarding Cross arm of 75X40X4.8mm GI Channel 2.2 Mtr long	Kg	62.83	125.67	7,896.10
3	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	45.89	125.67	5,766.74
4	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	11.70	125.67	1,470.52
5	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	7.03	125.67	883.91
6	Danger Plate, 11kV	EA	2	134.05	268.10
7	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10
8	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
9	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
10	11kV,5kN pin insulator polymer	EA	6	335.12	2,010.72
11	Coil Earthing	EA	2	278.15	556.30
12	Eye Bolt	EA	4	428.34	1,713.36
13	8 SWG GI wire (4mm)-(Heavy)	Kg	28.63	125.67	3,597.72
14	10 SWG GI wire(3.15mm)-(Heavy)	Kg	1.78	80.38	142.76
15	GI Nut , Bolt & Washer of different sizes	Kg	5.00	130.70	653.48
16	HT Stay Clamp Type-A for WPB Pole	Pair	1	331.77	331.77
17	H.T 11kV Stay set (Complete)	Set	1	1,759.38	1,759.38
18	HT stay (Guy) insulator	EA	1	83.78	83.78
19	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70
20	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
21	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8	125.67	1,005.36
22	Black Paint	Ltr	1	368.63	368.63
23	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**1,08,633.69**
B				**Stock, Storage & Insurance i.e 3%**	**3,259.01**
C				**Sub Total C=A+B**	**1,11,892.70**
D				**Contigency @ 3% of C**	**3,356.78**
E				**Tools & Plants @ 2% of C**	**2,237.85**
F				**Transportation @ 7.5% of C**	**8,391.95**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**3,813.28**
H				**Erection Other @ 10%**	**3,562.71**
I				**Erection PSC Pole @ 20%**	

J				**Sub Total J=C+D+E+F+G+H+I**	**1,33,255.27**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	1	1,569.13	1,569.13
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.% 1	EA	2	986.48	1,972.96
K				**Total Civil Part**	**20,726.51**
L				**Sub-Total L =J+K**	**1,53,981.78**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**1,53,981.78**
O				**CESS @ 1% of Sub-Total N**	**1,539.82**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**1,55,521.60**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**1,55,521.60**

Cost Estimate for Installation of LT Polycarbonate Box

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	LT Distribution Box Polycarbonate	EA	25	1,086.00	27,150.03
2	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	100	69.41	6,940.76
3	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	1	1,869.16	1,869.16
4	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	415.95
5	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	50	215.31	10,765.73
6	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	50	291.25	14,562.38
7	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	100	5.63	562.86
8	GI Nut , Bolt & Washer of different sizes	Kg	3.75	130.70	490.11
9	FRP CROSS ARM 1070MM 415V	EA	25	1,158.16	28,953.96
10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	5	1,509.70	7,548.52
11	GI Flat 50X6 mm(2.36kg/mtr)	Kg	80	125.67	10,053.60
12	Tie Plastic Black size 7.6mmX380mm	Lot	2	29.95	59.90
13	Tie Plastic size 9mmX265mm	Lot	2	29.95	59.90

A				**Total Cost of materials**	**1,09,432.85**
B				**Stock, Storage & Insurance i.e 3%**	**3,282.99**
C				**Sub Total C=A+B**	**1,12,715.83**
D				**Contigency @ 3% of C**	**3,381.47**
E				**Tools & Plants @ 2% of C**	**2,254.32**
F				**Transportation @ 7.5% of C**	**8,453.69**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**11,271.58**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**1,38,076.89**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	5	4,130.00	20,650.00
K				**Total Civil Part**	**20,650.00**
L				**Sub-Total L =J+K**	**1,58,726.89**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**1,58,726.89**
O				**CESS @ 1% of Sub-Total N**	**1,587.27**
P				**Inspection fees**	**-**
Q				**Drawing approval**	**-**
R				**Sub-Total R=N+O+P+Q**	**1,60,314.16**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**1,60,314.16**

Cost Estimate for 33kV Line with 13mtr. H-pole and AAAC 232 Sq.mm

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	H TYPE POLE 200X75MM (13 MTR)	EA	29	73,993.00	21,45,796.92
2	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	Kg	97.51	125.67	12,254.33
3	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
4	Fish Plate 50X6 mm.,each 0.300 mtr. Length	Kg	11.33	125.67	1,423.59
5	Fish Plate 50X6 mm.,each 0.400 mtr. Length	Kg	3.78	125.67	474.53
6	Danger Plate, 33kV	EA	29	134.05	3,887.39
7	Back Clamp (25X3 mm. flat) for danger Plate H-pole	Kg	19.16	125.67	2,408.45
8	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	87	134.05	11,662.18
9	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for H-Pole	Kg	38.33	125.67	4,816.90
10	33kV,10kN pin insulator polymer	EA	86	804.29	69,168.77

11	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	27	3,016.08	81,434.16
12	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	27	167.56	4,524.12
13	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	774.36	125.67	97,313.82
14	Disc Insulator Hardware Fittings (90KN) B&S	Set	12	837.80	10,053.60
15	33KV Polymeric Disc Insulator 90KN B&S	EA	12	1,926.94	23,123.28
16	Coil Earthing	EA	29	278.15	8,066.34
17	8 SWG GI wire (4mm)-(Heavy)	Kg	7.60	125.67	954.84
18	CLAMP PG FOR 232 SQMM AAA COND	EA	12	1,926.94	23,123.28
19	GI Nut , Bolt & Washer of different sizes	Kg	46.0	130.70	6,018.33
20	POLE CLAMP FOR STAY SET	Pair	4	212.94	851.77
21	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
22	HT stay (Guy) insulator	EA	8	83.78	670.24
23	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
24	AAA conductor,232 mm2	Mtr	3090.00	262.23	8,10,295.03
25	Black Paint	Ltr	14.5	368.63	5,345.16
26	Yellow Colour Paint for Background	Ltr	29	251.07	7,280.99
A				**Total Cost of materials**	**33,47,731.52**
B				**Stock, Storage & Insurance i.e 3%**	**1,00,431.95**
C				**Sub Total C=A+B**	**34,48,163.47**
D				**Contigency @ 3% of C**	**1,03,444.90**
E				**Tools & Plants @ 2% of C**	**68,963.27**
F				**Transportation @ 7.5% of C**	**2,58,612.26**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**1,10,508.54**
H				**Erection Other @ 10%**	**1,23,799.26**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**41,13,491.71**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	29	4,315.10	1,25,138.01
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	29	931.67	27,018.43
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,70,787.55**
L				**Sub-Total L =J+K**	**42,84,279.26**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**42,84,279.26**
O				**CESS @ 1% of Sub-Total N**	**42,842.79**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**

R	**Sub-Total R=N+O+P+Q**	**43,28,872.05**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**43,28,872.05**

Cost Estimate for 33kV Line with 13mtr. H-pole and AAAC 148 Sq.mm

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	H TYPE POLE 200X75MM (13 MTR)	EA	25	73,993.00	18,49,824.94
2	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	Kg	97.51	125.67	12,254.33
3	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
4	Fish Plate 50X6 mm.,each 0.300 mtr. Length	Kg	11.33	125.67	1,423.59
5	Fish Plate 50X6 mm.,each 0.400 mtr. Length	Kg	3.78	125.67	474.53
6	Danger Plate, 33kV	EA	25	134.05	3,351.20
7	Back Clamp (25X3 mm. flat) for danger Plate H-pole	Kg	16.52	125.67	2,076.25
8	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	75	134.05	10,053.60
9	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for H-Pole	Kg	33.04	125.67	4,152.50
10	33kV,10kN pin insulator polymer	EA	74	804.29	59,517.31
11	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	23	3,016.08	69,369.84
12	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	23	167.56	3,853.88
13	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	659.64	125.67	82,896.96
14	Disc Insulator Hardware Fittings (90KN) B&S	Set	12	837.80	10,053.60
15	33KV Polymeric Disc Insulator 90KN B&S	EA	12	1,926.94	23,123.28
16	Coil Earthing	EA	25	278.15	6,953.74
17	8 SWG GI wire (4mm)-(Heavy)	Kg	6.55	125.67	823.14
18	CLAMP PG FOR 148 SQMM AAA COND	EA	12	1,038.87	12,466.46
19	GI Nut , Bolt & Washer of different sizes	Kg	40.7	130.70	5,318.84
20	POLE CLAMP FOR STAY SET	Pair	4	212.94	851.77
21	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
22	HT stay (Guy) insulator	EA	8	83.78	670.24
23	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
24	AAA conductor,148 mm2	Mtr	3090.00	137.40	4,24,563.53
25	Black Paint	Ltr	12.5	368.63	4,607.90
26	Yellow Colour Paint for Background	Ltr	25	251.07	6,276.72
A				**Total Cost of materials**	**26,11,741.64**
B				**Stock, Storage & Insurance i.e 3%**	**78,352.25**
C				**Sub Total C=A+B**	**26,90,093.89**

D				**Contigency @ 3% of C**	**80,702.82**
E				**Tools & Plants @ 2% of C**	**53,801.88**
F				**Transportation @ 7.5% of C**	**2,01,757.04**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**95,265.98**
H				**Erection Other @ 10%**	**78,477.42**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**32,00,099.04**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	25	4,315.10	1,07,877.59
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	25	931.67	23,291.75
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,49,800.46**
L				**Sub-Total L =J+K**	**33,49,899.49**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**33,49,899.49**
O				**CESS @ 1% of Sub-Total N**	**33,498.99**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**33,85,148.49**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**33,85,148.49**

Cost Estimate for 33kV Line with 13mtr. WPB-pole and Insulated XLPE 148 Sq.mm

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	20	43,236.68	8,64,733.50
2	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	62.14	125.67	7,809.13
3	Double Pole Bracing Channel 75X40X4.8mm,each channel length 1.66 Mtr	Kg	59.26	125.67	7,447.46
4	50X50X6mm.GI Bracing Angle, each angle length 2.671 Mtr	Kg	48.08	125.67	6,041.96
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 11kV	EA	20	134.05	2,680.96

9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	13.22	125.67	1,661.00
10	Anticlimbing device Spike Type	EA	60	259.60	15,576.00
11	33kV,10kN pin insulator polymer	EA	51	804.29	41,018.69
12	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	16	3,016.08	48,257.28
13	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	16	167.56	2,680.96
14	CLAMP F TYPE GI FOR 33KV	EA	16	502.68	8,042.88
15	Tension Assembly Wedge Type with Anchoring Clamp for 33 kV covered conductor	EA	18	1,224.84	22,047.12
16	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
17	Coil Earthing	EA	20	278.15	5,562.99
18	8 SWG GI wire (4mm)-(Heavy)	Kg	5.24	125.67	658.51
19	IPC for 33kV 148sqmm Covered Conductor	EA	18	1,062.00	19,116.00
20	MIDSPAN JOINT 33KV COVERED CONDUCTOR 148SQMM	EA	3	885.00	2,655.00
21	33KV 148 SQMM Covered Conductor JT. Kit End Termination	EA	6	1,885.64	11,313.84
22	TIE INSULATED HELICAL F/33KV INSL. COND.	EA	57	556.96	31,746.72
23	GI Nut , Bolt & Washer of different sizes	Kg	50.2	130.70	6,565.95
24	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
25	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
26	H.T 33kV Stay set (Complete)	Set	8	1,759.38	14,075.04
27	HT stay (Guy) insulator	EA	16	83.78	1,340.48
28	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	120	125.67	15,080.40
29	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
30	33kV 148sqmm XLPE Covered Conductor	Mtr	3090.00	252.45	7,80,068.03
31	GI Flat 50X6 mm(2.36kg/mtr)	Kg	120.00	125.67	15,080.40
32	Black Paint	Ltr	10	368.63	3,686.32
33	Yellow Colour Paint for Background	Ltr	20	251.07	5,021.37
A				**Total Cost of materials**	**19,91,499.60**
B				**Stock, Storage & Insurance i.e 3%**	**59,744.99**
C				**Sub Total C=A+B**	**20,51,244.59**
D				**Contigency @ 3% of C**	**61,537.34**
E				**Tools & Plants @ 2% of C**	**41,024.89**
F				**Transportation @ 7.5% of C**	**1,53,843.34**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**44,533.78**
H				**Erection Other @ 10%**	**1,16,056.91**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**24,68,240.85**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	20	4,315.10	86,302.07
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	20	931.67	18,633.40
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03

	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,33,973.10**
L				**Sub-Total L =J+K**	**26,02,213.95**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**26,02,213.95**
O				**CESS @ 1% of Sub-Total N**	**26,022.14**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**26,29,986.09**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**26,29,986.09**

Cost Estimate for 11kV Line with 11mtr. WPB-pole and AAAC 100 Sq.mm

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	20	37,022.11	7,40,442.21
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 11kV	EA	20	134.05	2,680.96
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	13.22	125.67	1,661.00
10	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	60	134.05	8,042.88
11	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	26.43	125.67	3,322.00
12	11kV,5kN pin insulator polymer	EA	51	335.12	17,091.12
13	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	16	1,357.24	21,715.78
14	GI Back Clamp for 11kV 'V' Cros Arm	EA	16	134.05	2,144.77
15	CLAMP F TYPE GI FOR 11KV	EA	16	402.14	6,434.30
16	Disc Insulator Hardware Fittings (70KN) B&S	EA	18	586.46	10,556.28

17	11KV Polymeric Disc Insulator 70KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	20	278.15	5,562.99
19	8 SWG GI wire (4mm)-(Heavy)	Kg	5.24	125.67	658.51
20	CLAMP PG FOR 100 SQMM AAA COND	EA	6	971.85	5,831.09
21	GI Nut , Bolt & Washer of different sizes	Kg	43.4	130.70	5,667.93
22	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
23	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
24	H.T 11kV Stay set (Complete)	Set	8	1,759.38	14,075.04
25	HT stay (Guy) insulator	EA	8	83.78	670.24
26	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	80	125.67	10,053.60
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
28	AAA conductor,100 mm2	Mtr	3090.00	92.16	2,84,768.22
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
30	Black Paint	Ltr	10	368.63	3,686.32
31	Yellow Colour Paint for Background	Ltr	20	251.07	5,021.37
A				**Total Cost of materials**	**12,31,235.63**
B				**Stock, Storage & Insurance i.e 3%**	**36,937.07**
C				**Sub Total C=A+B**	**12,68,172.70**
D				**Contigency @ 3% of C**	**38,045.18**
E				**Tools & Plants @ 2% of C**	**25,363.45**
F				**Transportation @ 7.5% of C**	**95,112.95**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**38,132.77**
H				**Erection Other @ 10%**	**50,551.72**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**15,15,378.78**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	20	3,530.54	70,610.79
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	20	931.67	18,633.40
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,18,281.82**
L				**Sub-Total L =J+K**	**16,33,660.60**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**16,33,660.60**
O				**CESS @ 1% of Sub-Total N**	**16,336.61**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**

R	**Sub-Total R=N+O+P+Q**	**16,50,997.20**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**16,50,997.20**

Cost Estimate for 11kV Line with 11mtr. WPB-pole and AAAC 148 Sq.mm

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	25	37,022.11	9,25,552.77
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 11kV	EA	25	134.05	3,351.20
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	16.52	125.67	2,076.25
10	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	75	134.05	10,053.60
11	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	33.04	125.67	4,152.50
12	33kV,10kN pin insulator polymer	EA	66	804.29	53,083.01
13	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	21	3,016.08	63,337.68
14	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	21	167.56	3,518.76
15	CLAMP F TYPE GI FOR 33KV	EA	21	502.68	10,556.28
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	18	837.80	15,080.40
17	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	25	278.15	6,953.74
19	8 SWG GI wire (4mm)-(Heavy)	Kg	6.55	125.67	823.14
20	CLAMP PG FOR 148 SQMM AAA COND	EA	6	1,038.87	6,233.23
21	GI Nut , Bolt & Washer of different sizes	Kg	50.6	130.70	6,612.21
22	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
23	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
24	H.T 11kV Stay set (Complete)	Set	8	1,759.38	14,075.04
25	HT stay (Guy) insulator	EA	8	83.78	670.24
26	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	80	125.67	10,053.60

27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
28	AAA conductor,148 mm2	Mtr	3090.00	137.40	4,24,563.53
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
30	Black Paint	Ltr	12.5	368.63	4,607.90
31	Yellow Colour Paint for Background	Ltr	25	251.07	6,276.72
A				**Total Cost of materials**	**16,52,780.81**
B				**Stock, Storage & Insurance i.e 3%**	**49,583.42**
C				**Sub Total C=A+B**	**17,02,364.23**
D				**Contigency @ 3% of C**	**51,070.93**
E				**Tools & Plants @ 2% of C**	**34,047.28**
F				**Transportation @ 7.5% of C**	**1,27,677.32**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**47,665.97**
H				**Erection Other @ 10%**	**74,904.49**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**20,37,730.21**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	25	3,530.54	88,263.48
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	25	931.67	23,291.75
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,40,592.87**
L				**Sub-Total L =J+K**	**21,78,323.08**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**21,78,323.08**
O				**CESS @ 1% of Sub-Total N**	**21,783.23**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**22,01,106.31**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**22,01,106.31**

Cost Estimate for 11kV Line with 9mtr. PSC pole and AAAC 100 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	20	5,026.80	1,00,536.00
2	RCC base Plate	EA	20	426.38	8,527.62
3	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
4	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
5	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
6	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
7	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
8	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
9	Danger Plate, 11kV	EA	20	134.05	2,680.96
10	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	13.22	125.67	1,661.00
11	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	60	134.05	8,042.88
12	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	26.43	125.67	3,322.00
13	11kV,5kN pin insulator polymer	EA	51	335.12	17,091.12
14	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	16	1,357.24	21,715.78
15	GI Back Clamp for 11kV 'V' Cros Arm	EA	16	134.05	2,144.77
16	CLAMP F TYPE GI FOR 11KV	EA	16	402.14	6,434.30
17	Disc Insulator Hardware Fittings (70KN) B&S	EA	18	586.46	10,556.28
18	11KV Polymeric Disc Insulator 70KN B&S	EA	18	1,926.94	34,684.92
19	Coil Earthing	EA	20	278.15	5,562.99
20	8 SWG GI wire (4mm)-(Heavy)	Kg	5.24	125.67	658.51
21	CLAMP PG FOR 100 SQMM AAA COND	EA	6	971.85	5,831.09
22	GI Nut , Bolt & Washer of different sizes	Kg	43.4	130.70	5,667.93
23	HT STAY CLAMP TYPE-A(9m PSC 600mm)	Pair	7	209.45	1,466.15
24	HT STAY CLAMP TYPE-B(9m PSC 600mm)	Pair	1	331.77	331.77
25	H.T 11kV Stay set (Complete)	Set	8	1,759.38	14,075.04
26	HT stay (Guy) insulator	EA	8	83.78	670.24
27	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	80	125.67	10,053.60
28	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
29	AAA conductor,100 mm2	Mtr	3090.00	92.16	2,84,768.22
30	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
31	Black Paint	Ltr	10	368.63	3,686.32

32	Yellow Colour Paint for Background	Ltr	20	251.07	5,021.37
A				**Total Cost of materials**	**5,99,000.81**
B				**Stock, Storage & Insurance i.e 3%**	**17,970.02**
C				**Sub Total C=A+B**	**6,16,970.83**
D				**Contigency @ 3% of C**	**18,509.12**
E				**Tools & Plants @ 2% of C**	**12,339.42**
F				**Transportation @ 7.5% of C**	**46,272.81**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**51,341.88**
I				**Erection PSC Pole @ 20%**	**20,710.42**
J				**Sub Total J=C+D+E+F+G+H+I**	**7,66,144.48**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	20	2,942.12	58,842.32
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	20	882.63	17,652.70
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,05,532.65**
L				**Sub-Total L =J+K**	**8,71,677.12**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**8,71,677.12**
O				**CESS @ 1% of Sub-Total N**	**8,716.77**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**8,81,393.90**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**8,81,393.90**

Cost Estimate for 33kV Bay Extension

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	6	43,236.68	2,59,420.05
2	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	328.86	125.67	41,328.34
3	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	Kg	614.04	125.67	77,166.41

4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	354.74	125.67	44,580.68
5	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	122.81	125.67	15,433.28
6	Isolator Support Side Channel 100X50X5mm, each channel length 0.5 Mtr	Kg	19.12	125.67	2,402.81
7	Down Pipe Base Support Angle 50X50X6mm, each angle length 0.34 Mtr	Kg	3.06	125.67	384.55
8	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	11.42	125.67	1,435.65
9	Down Pipe Diagonal Support Angle 50X50X6mm, each angle length 0.388 Mtr	Kg	3.49	125.67	438.84
10	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	7.93	125.67	996.51
11	Danger Plate, 33kV	EA	6	134.05	804.29
12	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	3.97	125.67	498.30
13	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	18	134.05	2,412.86
14	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	7.93	125.67	996.60
15	33kV,10kN pin insulator polymer	EA	12	804.29	9,651.46
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	18	837.80	15,080.40
17	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	6	278.15	1,668.90
19	8 SWG GI wire (4mm)-(Heavy)	Kg	1.57	125.67	197.55
20	33kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	35.00	3,735.00	1,30,724.83
21	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(outdoor type)	EA	2	55,722.08	1,11,444.16
22	LA-33KV,10KA-CL-III WITH SURGE COUNTER	EA	6	13,376.00	80,255.98
23	ISOLATOR 33KV 1250A MOT DOUB BRK W/ES	SET	2	1,19,949.36	2,39,898.72
24	33kV 1250 Amp Outdoor VCB	EA	1	3,11,082.31	3,11,082.31
25	CT 33KV 1P OILCOOLED 800-400-200/1-1-1 A	EA	3	45,917.17	1,37,751.52
26	PT 33KV O/D OIL FILLED	EA	3	27,482.20	82,446.60
27	4 Core x 2.5 mm2 -FRLSH	Mtr	100	187.67	18,766.72
28	7 Core x 2.5 mm2 -FRLSH	Mtr	100	304.96	30,495.92
29	10 Core x 2.5 mm2 -FRLSH	Mtr	100	432.30	43,230.48
30	12 Core x 2.5 mm2 -FRLSH	Mtr	100	407.01	40,700.56
31	CLAMP PG FOR 232 SQMM AAA COND	EA	6	1,926.94	11,561.64
32	12 bolted (M-12) "T" clamp for 232 mm² conductor	EA	12	1,608.58	19,302.91
33	GI Nut , Bolt & Washer of different sizes	Kg	97	130.70	12,716.16
34	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
35	AAA conductor,232 mm2	Mtr	120.00	262.23	31,467.77
36	GI Flat 50X6 mm(2.36kg/mtr)	Kg	100.00	125.67	12,567.00
37	Black Paint	Ltr	3	368.63	1,105.90
38	Yellow Colour Paint for Background	Ltr	6	251.07	1,506.41
A				**Total Cost of materials**	**18,37,175.91**
B				**Stock, Storage & Insurance i.e 3%**	**55,115.28**

C				**Sub Total C=A+B**	**18,92,291.19**
D				**Contigency @ 3% of C**	**56,768.74**
E				**Tools & Plants @ 2% of C**	**37,845.82**
F				**Transportation @ 7.5% of C**	**1,41,921.84**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**29,380.87**
H				**Erection Other @ 10%**	**1,17,002.72**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**22,75,211.17**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	6	4,315.10	25,890.62
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	6	931.67	5,590.02
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	SITC of T ConnectFor wolf to pantherCond	EA	18	1,583.93	28,510.66
	SITC-Pad clmp25m stud CT/PT/PTR/ISTR	EA	18	882.32	15,881.79
	SITC of 33 KV feeder CR Panel (Outdoor Type)	EA	1	3,69,096.74	3,69,096.74
	LAY CBL XLPE 33KV TREN/PIPE	Mtr	30.00	135.70	4,071.00
	Survey and digitization of New PTR/BAY/CB and its internals including attrubutes	No	1	8,121.94	8,121.94
	SITC OF GI Cable tray 450mm	Mtr	30.00	1,121.00	33,630.00
1.1	**VCB Foundation**				
	Earth Work-excluding hard roack	CUM	21.84	413.00	9,019.92
	Backfilling with same earth	CUM	12	259.60	3,115.20
	Sand Work	CUM	1.02	1,207.02	1,231.16
	PCC 1:3:6	CUM	1.365	6,192.01	8,452.10
	Laying PCC M20	CUM	8.475	7,845.64	66,491.82
	Centring and shuttering incl. strut	SQ.MM	307.89	363.31	1,11,859.58
	Reinforce RCCwork includ straight etc.	Kg	420	131.56	55,254.44
1.2	**CT & PT Foundation**				
	Earth Work-excluding hard roack	CUM	23.91	413.00	9,874.83
	Backfilling with same earth	CUM	13.5	259.60	3,504.60
	Sand Work	CUM	1.09	1,207.02	1,315.65
	PCC 1:3:6	CUM	1.09	6,192.01	6,749.30
	Laying PCC M20	CUM	7.09	7,845.64	55,625.61
	Centring and shuttering incl. strut	SQ.MM	44.82	363.31	16,283.56
	Reinforce RCCwork includ straight etc.	Kg	367.29	131.56	48,320.01
	SITC of armoured Ethernet cables	Mtr	150	180.00	27,000.00
	SITC of armoured Serial cables	Mtr	150	200.00	30,000.00
	SITC of 50mm HDPE pipe	Mtr	150	160.00	24,000.00
	33KV Feeder Metering	EA	1	1,41,402.00	1,41,402.00

K	**Total Civil Part**	**11,39,202.57**
L	**Sub-Total L =J+K**	**34,14,413.74**
M	**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N	**Sub-Total N=L+M**	**34,14,413.74**
O	**CESS @ 1% of Sub-Total N**	**34,144.14**
P	**Inspection fees**	**500.00**
Q	**Drawing approval**	**750.00**
R	**Sub-Total R=N+O+P+Q**	**34,49,807.88**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**34,49,807.88**

Cost Estimate for 11kV Bay Extension

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
2	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	62.14	125.67	7,809.13
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Insulator Support Channel 75X40X4.8mm., each channel length 3.0 Mtr	Kg	42.84	125.67	5,383.70
6	Isolator Support Side Channel 100X50X5mm, each channel length 0.35 Mtr	Kg	6.69	125.67	840.98
7	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	5.36	125.67	672.96
8	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
9	Danger Plate, 11kV	EA	2	134.05	268.10
10	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10
11	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
12	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
13	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
14	Disc Insulator Hardware Fittings (70KN) B&S	EA	6	586.46	3,518.76
15	11KV Polymeric Disc Insulator 70KN B&S	EA	6	1,926.94	11,561.64
16	Coil Earthing	EA	2	278.15	556.30
17	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
18	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	80.00	2,802.00	2,24,160.35

19	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	EA	2	23,297.54	46,595.08
20	11KV, 10KA Lightening Arrester Polymer SL(Class-II)	EA	3	6,490.00	19,470.00
21	ISOLATOR 11KV 630A DOUBLE BREAK,EARTHS/W	SET	1	45,630.60	45,630.60
22	11kV 1250 Amp Outdoor VCB	EA	1	2,30,568.96	2,30,568.96
23	CT 11KV OIL COOL 800-400-200/1-1-1A, 0.5	EA	3	37,974.76	1,13,924.28
24	11 KV IVT(11 KV/√ 3/110 V/√ 3)	EA	3	18,388.00	55,164.00
25	4 Core x 2.5 mm2 -FRLSH	Mtr	100	187.67	18,766.72
26	7 Core x 2.5 mm2 -FRLSH	Mtr	100	304.96	30,495.92
27	10 Core x 2.5 mm2 -FRLSH	Mtr	100	432.30	43,230.48
28	12 Core x 2.5 mm2 -FRLSH	Mtr	50	407.01	20,350.28
29	CLAMP PG FOR 100 SQMM AAA COND	EA	6	971.85	5,831.09
30	GI Nut , Bolt & Washer of different sizes	Kg	50.0	130.70	6,534.84
31	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
32	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
33	HT stay (Guy) insulator	EA	2	83.78	167.56
34	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	20	125.67	2,513.40
35	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
36	AAA conductor,100 mm2	Mtr	40.00	92.16	3,686.32
37	GI Flat 50X6 mm(2.36kg/mtr)	Kg	197.06	125.67	24,764.31
38	Black Paint	Ltr	1	368.63	368.63
39	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**10,36,406.64**
B				**Stock, Storage & Insurance i.e 3%**	**31,092.20**
C				**Sub Total C=A+B**	**10,67,498.84**
D				**Contigency @ 3% of C**	**32,024.97**
E				**Tools & Plants @ 2% of C**	**21,349.98**
F				**Transportation @ 7.5% of C**	**80,062.41**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**15,687.58**
H				**Erection Other @ 10%**	**52,286.21**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**12,68,909.99**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	SITC of 11 KV feeder CR Panel (Outdoor Type)	EA	1	3,69,096.74	3,69,096.74
	SITC of T ConnectFor wolf to pantherCond	EA	18	1,583.93	28,510.66
	SITC-Pad clmp25m stud CT/PT/PTR/ISTR	EA	18	882.32	15,881.79

	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	80.00	129.80	10,384.00
	Earth Work-excluding hard roack	CUM	22.22	413.00	9,176.86
	Backfilling with same earth	CUM	13	259.60	3,374.80
	Sand Work	CUM	1.06	1,207.02	1,279.44
	PCC 1:3:6	CUM	1.18	6,192.01	7,306.58
	Laying PCC M20	CUM	7.55	7,845.64	59,234.60
	Centring and shuttering incl. strut	SQ.M M	43.13	363.31	15,669.57
	Reinforce RCCwork includ straight etc.	Kg	402.43	131.56	52,942.97
	Survey and digitization of New PTR/BAY/CB and its internals including attrubutes	No	1	8,121.94	8,121.94
	SITC OF GI Cable tray 450mm	Mtr	80.00	1,121.00	89,680.00
	SITC of armoured Ethernet cables	Mtr	150.00	180.00	27,000.00
	SITC of armoured Serial cables	Mtr	150.00	200.00	30,000.00
	SITC of 50mm HDPE pipe	Mtr	150.00	160.00	24,000.00
	11KV Feeder Metering	EA	1.00	1,04,495.24	1,04,495.24
K				**Total Civil Part**	**8,97,127.87**
L				**Sub-Total L =J+K**	**21,66,037.86**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**21,66,037.86**
O				**CESS @ 1% of Sub-Total N**	**21,660.38**
P				**Inspection fees**	**500.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**21,88,948.24**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**21,88,948.24**

Cost Estimate for 33kV 4-Way Ring Main Unit

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	33KV,4WAY,Motorized, 630A,25kA/1sec, Outdoor Type LLVV (2ISO+2 BKR) + AUX PT	EA	1	35,61,317.88	35,61,317.88
2	33kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	8	3,735.00	29,879.96
3	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable (outdoor type)	EA	2	55,722.08	83,583.12
4	JT Kit 33KV I/D 3CX400SQMM SCREEN TYPE TOUCH PROF	EA	2	84,859.70	1,27,289.55
5	Pre-Wired FRTU Panel with FRTU	EA	1	1,43,657.92	1,43,657.92
6	Managed Layer2 Ethernet Switch (FRTU Panel)	EA	1	1,18,000.00	1,18,000.00
7	Networking Accessories	SET	1	84.96	84.96

8	CMR with Mounting Base for Digital Inputs	EA	20	767.00	15,340.00
9	Interposing Relay for Digital Output	EA	30	552.17	16,565.08
10	Battery Charger	EA	1	18,154.30	18,154.30
11	Battery	EA	1	9,064.76	9,064.76
12	4G Modem cum Router	EA	1	21,830.00	21,830.00
13	Instrumentation Cable 12 C X 0.5 mm2, Armored cable for Status and Indications	M	10	241.75	2,417.47
14	Instrumentation Cable 7 C X 1.5 mm2, Armored for Control Output	M	10	360.58	3,605.84
15	Twisted Pair Shielded & Over all shielded Instrumentation Cable 5 P X 1.0 mm2, Armored for Analog Input	M	7	324.77	2,407.21
16	4 C X 4 mm2 Copper cable for extension of CT & PT	M	5	195.00	974.98
17	2 C X 4 mm2 Cable for DC Power Supply	M	5	177.00	885.00
18	4P X 0.36 mm2, Armored Communication Cable for MFM	M	5	175.15	875.74
19	Armored CAT6 SFTP Cable	M	5	54.13	270.63
20	Un-Armored CAT6 SFTP Cable	M	5	105.55	527.76
21	Multi Function Meter	EA	1	22,008.18	22,008.18
22	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
23	GI Flat 25X6 mm(1.18kg/mtr)	Kg	9.44	125.67	1,186.32
A				**Total Cost of materials**	**41,81,436.35**
B				**Stock, Storage & Insurance i.e 3%**	**1,25,443.09**
C				**Sub Total C=A+B**	**43,06,879.44**
D				**Contigency @ 3% of C**	**1,29,206.38**
E				**Tools & Plants @ 2% of C**	**86,137.59**
F				**Transportation @ 7.5% of C**	**3,23,015.96**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**1,83,407.87**
H				**Erection Other @ 10%**	**60,794.57**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**50,89,441.80**
	Civil & Services				
	Construction of RMU foundation O/D	EA	1	33,040.00	33,040.00
	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	8	129.80	1,038.40
	Construction of FRP fencing	SQ.MM	16	4,130.00	66,080.00
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**1,05,468.40**
L				**Sub-Total L =J+K**	**51,94,910.20**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**51,94,910.20**

O	**CESS @ 1% of Sub-Total N**	**51,949.10**
P	**Inspection fees**	**500.00**
Q	**Drawing approval**	**750.00**
R	**Sub-Total R=N+O+P+Q**	**52,48,109.31**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**52,48,109.31**

Cost Estimate for 11kV 4-Way Ring Main Unit

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	11KV,4WAY,Motorized,630A,21kA/3 sec, Outdoor Type LLVV (2 ISO+2 BKR) + AUX PT + FRTU	EA	1	13,25,187.37	13,25,187.37
2	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	30	2,802.00	84,060.13
3	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable (outdoor type)	EA	2	23,297.54	46,595.08
4	JT Kit 11KV I/D 3CX400SQMM SCREEN TYPE TOUCH PROF	EA	4	28,154.80	1,12,619.20
5	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
6	GI Flat 25X6 mm(1.18kg/mtr)	Kg	23.60	125.67	2,965.81
A	**Total Cost of materials**				**15,74,447.00**
B	**Stock, Storage & Insurance i.e 3%**				**47,233.41**
C	**Sub Total C=A+B**				**16,21,680.41**
D	**Contigency @ 3% of C**				**48,650.41**
E	**Tools & Plants @ 2% of C**				**32,433.61**
F	**Transportation @ 7.5% of C**				**1,21,626.03**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				**68,247.15**
H	**Erection Other @ 10%**				**17,015.55**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**19,09,653.16**
	Civil & Services				
	Construction of RMU foundation O/D	EA	1	33,040.00	33,040.00
	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	30	129.80	3,894.00
	Construction of FRP fencing	SQ.MM	32	4,130.00	1,32,160.00
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K	**Total Civil Part**				**1,78,534.00**
L	**Sub-Total L =J+K**				**20,88,187.16**

M	**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N	**Sub-Total N=L+M**	**20,88,187.16**
O	**CESS @ 1% of Sub-Total N**	**20,881.87**
P	**Inspection fees**	**500.00**
Q	**Drawing approval fees**	**750.00**
R	**Sub-Total R=N+O+P+Q**	**21,10,319.03**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**21,10,319.03**

Cost Estimate for 33kV Four Pole Structure with 13mtr. WPB-pole N-1 Arrangement

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	4	43,236.68	1,72,946.70
2	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	328.86	125.67	41,328.34
3	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	Kg	245.62	125.67	30,866.56
4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	177.37	125.67	22,290.34
5	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	164.43	125.67	20,664.17
6	Isolator Support Side Channel 100X50X5mm, each channel length 0.5 Mtr	Kg	19.12	125.67	2,402.81
7	Down Pipe Base Support Angle 50X50X6mm, each angle length 0.34 Mtr	Kg	3.06	125.67	384.55
8	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	11.42	125.67	1,435.65
9	Down Pipe Diagonal Support Angle 50X50X6mm, each angle length 0.388 Mtr	Kg	3.49	125.67	438.84
10	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	10.57	125.67	1,328.68
11	Danger Plate, 33kV	EA	4	134.05	536.19
12	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	2.64	125.67	332.20
13	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	12	134.05	1,608.58
14	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	5.29	125.67	664.40
15	33kV,10kN pin insulator polymer	EA	12	804.29	9,651.46
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	12	837.80	10,053.60
17	33KV Polymeric Disc Insulator 90KN B&S	EA	12	1,926.94	23,123.28
18	Coil Earthing	EA	4	278.15	1,112.60
19	8 SWG GI wire (4mm)-(Heavy)	Kg	1.05	125.67	131.70
20	CLAMP PG FOR 148 SQMM AAA COND	EA	18	1,038.87	18,699.70

21	33KV 1250 Amp DBCR Isolator W/O E/S	Set	2	73,580.08	1,47,160.16
22	GI Nut , Bolt & Washer of different sizes	Kg	52.6	130.70	6,868.29
23	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
24	HT Stay Clamp Type-B for WPB Pole	Pair	2	331.77	663.54
25	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
26	HT stay (Guy) insulator	EA	8	83.78	670.24
27	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
28	EARTHING PIPE GI 3 MTR 40MM DIA	EA	5	1,509.70	7,548.52
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	40	125.67	5,026.80
30	Black Paint	Ltr	2	368.63	737.26
31	Yellow Colour Paint for Background	Ltr	4	251.07	1,004.27
A				**Total Cost of materials**	**5,44,920.69**
B				**Stock, Storage & Insurance i.e 3%**	**16,347.62**
C				**Sub Total C=A+B**	**5,61,268.31**
D				**Contigency @ 3% of C**	**16,838.05**
E				**Tools & Plants @ 2% of C**	**11,225.37**
F				**Transportation @ 7.5% of C**	**42,095.12**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**8,906.76**
H				**Erection Other @ 10%**	**38,313.32**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**6,78,646.92**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	4	4,315.10	17,260.41
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	4	931.67	3,726.68
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	5	4,130.00	20,650.00
	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.%_1	EA	4	986.48	3,945.92
K				**Total Civil Part**	**51,859.53**
L				**Sub-Total L =J+K**	**7,30,506.45**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**7,30,506.45**
O				**CESS @ 1% of Sub-Total N**	**7,305.06**
P				**Inspection Fees**	
Q				**Drawing Approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**7,38,561.52**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**7,38,561.52**

Cost Estimate for Upgradation of 33kV line with 13mtr. WPB-pole and AAAC 232 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	12	43,236.68	5,18,840.10
2	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	62.14	125.67	7,809.13
3	Double Pole Bracing Channel 75X40X4.8mm,each channel length 1.66 Mtr	Kg	59.26	125.67	7,447.46
4	50X50X6mm.GI Bracing Angle, each angle length 2.671 Mtr	Kg	48.08	125.67	6,041.96
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	Kg	97.51	125.67	12,254.33
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 33kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	36	134.05	4,825.73
11	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	15.86	125.67	1,993.20
12	33kV,10kN pin insulator polymer	EA	36	804.29	28,954.37
13	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	15	3,016.08	45,241.20
14	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	15	167.56	2,513.40
15	Top bracket 100X50X5mm GI channel for 33KV	EA	18	251.34	4,524.12
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	12	837.80	10,053.60
17	33KV Polymeric Disc Insulator 90KN B&S	EA	12	1,926.94	23,123.28
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	CLAMP PG FOR 232 SQMM AAA COND	EA	12	1,926.94	23,123.28
21	GI Nut , Bolt & Washer of different sizes	Kg	38.0	130.70	4,966.48
22	HT Stay Clamp Type-A for WPB Pole	Pair	3	331.77	995.31
23	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
24	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
25	HT stay (Guy) insulator	EA	8	83.78	670.24
26	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
28	AAA conductor,232 mm2	Mtr	3090.00	262.23	8,10,295.03
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	15.79	125.67	1,984.14
30	Black Paint	Ltr	6	368.63	2,211.79
31	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82

A				**Total Cost of materials**	**15,47,670.96**
B				**Stock, Storage & Insurance i.e 3%**	**46,430.13**
C				**Sub Total C=A+B**	**15,94,101.09**
D				**Contigency @ 3% of C**	**47,823.03**
E				**Tools & Plants @ 2% of C**	**31,882.02**
F				**Transportation @ 7.5% of C**	**1,19,557.58**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**26,720.27**
H				**Erection Other @ 10%**	**1,05,969.58**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**19,26,053.57**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	12	4,315.10	51,781.24
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of 11KV 'V' Cross arm & retu	EA	16	49.96	799.38
	Dismantling of 11KV GI pin with insulato	EA	16	9.77	156.33
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	115.06	9.56	1,099.78
	Dismantl of 80/100mm2 AAA Conductor&retu	Mtr	3090.00	10.86	33,545.04
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,23,069.65**
L				**Sub-Total L =J+K**	**20,49,123.21**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**20,49,123.21**
O				**CESS @ 1% of Sub-Total N**	**20,491.23**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**20,71,364.44**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**20,71,364.44**

Cost Estimate for Upgradation of 33kV line with 13mtr. WPB-pole and AAAC 148 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	12	43,236.68	5,18,840.10
2	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	62.14	125.67	7,809.13
3	Double Pole Bracing Channel 75X40X4.8mm,each channel length 1.66 Mtr	Kg	59.26	125.67	7,447.46
4	50X50X6mm.GI Bracing Angle, each angle length 2.671 Mtr	Kg	48.08	125.67	6,041.96
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	Kg	97.51	125.67	12,254.33
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 33kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	36	134.05	4,825.73
11	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	15.86	125.67	1,993.20
12	33kV,10kN pin insulator polymer	EA	32	804.29	25,737.22
13	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	8	3,016.08	24,128.64
14	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	8	167.56	1,340.48
15	Top bracket 100X50X5mm GI channel for 33KV	EA	8	251.34	2,010.72
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	18	837.80	15,080.40
17	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	CLAMP PG FOR 148 SQMM AAA COND	EA	6	1,038.87	6,233.23
21	GI Nut , Bolt & Washer of different sizes	Kg	38.7	130.70	5,055.09
22	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
23	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
24	H.T 33kV Stay set (Complete)	Set	8	1,759.38	14,075.04
25	HT stay (Guy) insulator	EA	16	83.78	1,340.48
26	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	120	125.67	15,080.40
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
28	AAA conductor,148 mm2	Mtr	3090.00	137.40	4,24,563.53
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
30	Black Paint	Ltr	6	368.63	2,211.79
31	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**11,49,306.69**

B				**Stock, Storage & Insurance i.e 3%**	**34,479.20**
C				**Sub Total C=A+B**	**11,83,785.89**
D				**Contigency @ 3% of C**	**35,513.58**
E				**Tools & Plants @ 2% of C**	**23,675.72**
F				**Transportation @ 7.5% of C**	**88,783.94**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**26,720.27**
H				**Erection Other @ 10%**	**64,938.06**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**14,23,417.45**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	12	4,315.10	51,781.24
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	115.06	9.56	1,099.78
	Dismantl of 80/100mm2 AAA Conductor&retu	Mtr	3090.00	10.86	33,545.04
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,32,285.92**
L				**Sub-Total L =J+K**	**15,55,703.37**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**15,55,703.37**
O				**CESS @ 1% of Sub-Total N**	**15,557.03**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**15,73,010.40**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**15,73,010.40**

Cost Estimate for Upgradation of 11kV line with 11mtr. WPB-pole and AAAC 148 Sq.mm

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	12	37,022.11	4,44,265.33
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 11kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	36	134.05	4,825.73
11	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	15.86	125.67	1,993.20
12	33kV,10kN pin insulator polymer	EA	32	804.29	25,737.22
13	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	8	3,016.08	24,128.64
14	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	8	167.56	1,340.48
15	CLAMP F TYPE GI FOR 33KV	EA	8	502.68	4,021.44
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	18	837.80	15,080.40
17	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	CLAMP PG FOR 148 SQMM AAA COND	EA	18	1,038.87	18,699.70
21	GI Nut , Bolt & Washer of different sizes	Kg	25.0	130.70	3,267.42
22	HT Stay Clamp Type-A for WPB Pole	Pair	5	331.77	1,658.84
23	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
24	H.T 11kV Stay set (Complete)	Set	6	1,759.38	10,556.28
25	HT stay (Guy) insulator	EA	6	83.78	502.68
26	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	60	125.67	7,540.20
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
28	AAA conductor,148 mm2	Mtr	3090.00	137.40	4,24,563.53
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	9.08	125.67	1,140.73
30	Black Paint	Ltr	6	368.63	2,211.79
31	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**10,78,705.78**

B				**Stock, Storage & Insurance i.e 3%**	**32,361.17**
C				**Sub Total C=A+B**	**11,11,066.95**
D				**Contigency @ 3% of C**	**33,332.01**
E				**Tools & Plants @ 2% of C**	**22,221.34**
F				**Transportation @ 7.5% of C**	**83,330.02**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**22,879.66**
H				**Erection Other @ 10%**	**65,347.37**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**13,38,177.35**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	12	3,530.54	42,366.47
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	6	1,569.13	9,414.77
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of PSC pole (9mtr)& return	EA	1	1,121.00	1,121.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	3	49.96	149.88
	Dismantling of 11KV GI pin with insulato	EA	3	9.77	29.31
	Dismantling of 11KV Disc insulator with	EA	18	9.77	175.87
	Dismantling of MS Channel& Return store	Kg	50.00	9.56	477.90
	Dismantl of 80/100mm2 AAA Conductor&retu	Mtr	3090.00	10.86	33,545.04
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,16,478.89**
L				**Sub-Total L =J+K**	**14,54,656.24**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**14,54,656.24**
O				**CESS @ 1% of Sub-Total N**	**14,546.56**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**14,70,202.80**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**14,70,202.80**

Cost Estimate for Upgradation of 11kV line with 11mtr. WPB-pole and AAAC 100 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	12	37,022.11	4,44,265.33
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 11kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	36	134.05	4,825.73
11	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	15.86	125.67	1,993.20
12	11kV,5kN pin insulator polymer	EA	27	335.12	9,048.24
13	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	8	1,357.24	10,857.89
14	GI Back Clamp for 11kV 'V' Cros Arm	EA	8	134.05	1,072.38
15	CLAMP F TYPE GI FOR 11KV	EA	8	402.14	3,217.15
16	Disc Insulator Hardware Fittings (70KN) B&S	EA	18	586.46	10,556.28
17	11KV Polymeric Disc Insulator 70KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	CLAMP PG FOR 100 SQMM AAA COND	EA	18	971.85	17,493.26
21	GI Nut , Bolt & Washer of different sizes	Kg	22.7	130.70	2,962.11
22	HT Stay Clamp Type-A for WPB Pole	Pair	5	331.77	1,658.84
23	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
24	H.T 11kV Stay set (Complete)	Set	6	1,759.38	10,556.28
25	HT stay (Guy) insulator	EA	6	83.78	502.68
26	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	60	125.67	7,540.20
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
28	AAA conductor,100 mm2	Mtr	3090.00	92.16	2,84,768.22
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
30	Black Paint	Ltr	6	368.63	2,211.79
31	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82

A				**Total Cost of materials**	**9,01,707.12**
B				**Stock, Storage & Insurance i.e 3%**	**27,051.21**
C				**Sub Total C=A+B**	**9,28,758.33**
D				**Contigency @ 3% of C**	**27,862.75**
E				**Tools & Plants @ 2% of C**	**18,575.17**
F				**Transportation @ 7.5% of C**	**69,656.88**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**22,879.66**
H				**Erection Other @ 10%**	**47,116.50**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**11,14,849.29**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	12	3,530.54	42,366.47
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	6	1,569.13	9,414.77
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	1	1,121.00	1,121.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	3	49.96	149.88
	Dismantling of 11KV GI pin with insulato	EA	3	9.77	29.31
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	50.00	9.56	477.90
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,10,028.10**
L				**Sub-Total L =J+K**	**12,24,877.39**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**12,24,877.39**
O				**CESS @ 1% of Sub-Total N**	**12,248.77**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**12,38,126.17**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**12,38,126.17**

Cost Estimate for Upgradation of 11kV line with 9mtr. PSC-pole and AAAC 100 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	12	5,026.80	60,321.60
2	RCC base Plate	EA	12	426.38	5,116.57
3	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
4	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
5	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
6	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
7	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
8	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
9	Danger Plate, 11kV	EA	12	134.05	1,608.58
10	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
11	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	36	134.05	4,825.73
12	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	15.86	125.67	1,993.20
13	11kV,5kN pin insulator polymer	EA	27	335.12	9,048.24
14	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	8	1,357.24	10,857.89
15	GI Back Clamp for 11kV 'V' Cros Arm	EA	8	134.05	1,072.38
16	CLAMP F TYPE GI FOR 11KV	EA	8	402.14	3,217.15
17	Disc Insulator Hardware Fittings (70KN) B&S	EA	18	586.46	10,556.28
18	11KV Polymeric Disc Insulator 70KN B&S	EA	18	1,926.94	34,684.92
19	Coil Earthing	EA	12	278.15	3,337.80
20	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
21	CLAMP PG FOR 100 SQMM AAA COND	EA	18	971.85	17,493.26
22	GI Nut , Bolt & Washer of different sizes	Kg	22.7	130.70	2,962.11
23	HT Stay Clamp Type-A for WPB Pole	Pair	5	331.77	1,658.84
24	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
25	H.T 11kV Stay set (Complete)	Set	6	1,759.38	10,556.28
26	HT stay (Guy) insulator	EA	6	83.78	502.68
27	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	60	125.67	7,540.20
28	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
29	AAA conductor,100 mm2	Mtr	3090.00	92.16	2,84,768.22
30	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
31	Black Paint	Ltr	6	368.63	2,211.79

32	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**5,22,879.97**
B				**Stock, Storage & Insurance i.e 3%**	**15,686.40**
C				**Sub Total C=A+B**	**5,38,566.37**
D				**Contigency @ 3% of C**	**16,156.99**
E				**Tools & Plants @ 2% of C**	**10,771.33**
F				**Transportation @ 7.5% of C**	**40,392.48**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**47,643.51**
I				**Erection PSC Pole @ 20%**	**12,426.25**
J				**Sub Total J=C+D+E+F+G+H+I**	**6,65,956.92**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	12	2,942.12	35,305.39
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	12	882.63	10,591.62
	Stay concreting in ratio 1:2:4	EA	6	1,569.13	9,414.77
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	1	1,121.00	1,121.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	3	49.96	149.88
	Dismantling of 11KV GI pin with insulato	EA	3	9.77	29.31
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	50.00	9.56	477.90
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,02,378.60**
L				**Sub-Total L =J+K**	**7,68,335.52**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**7,68,335.52**
O				**CESS @ 1% of Sub-Total N**	**7,683.36**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**7,77,018.88**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**7,77,018.88**

Cost Estimate for Upgradation of 11kV line with 11mtr. WPB-pole and AAAC 80 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	12	37,022.11	4,44,265.33
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	114.72	125.67	14,416.86
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	214.20	125.67	26,918.51
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	126.43	125.67	15,888.71
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	29.25	125.67	3,676.30
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	18.50	125.67	2,325.20
8	Danger Plate, 11kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	7.93	125.67	996.60
10	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	36	134.05	4,825.73
11	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	15.86	125.67	1,993.20
12	11kV,5kN pin insulator polymer	EA	29	335.12	9,718.48
13	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	6	1,357.24	8,143.42
14	GI Back Clamp for 11kV 'V' Cros Arm	EA	6	134.05	804.29
15	CLAMP F TYPE GI FOR 11KV	EA	6	402.14	2,412.86
16	Disc Insulator Hardware Fittings (70KN) B&S	EA	24	586.46	14,075.04
17	11KV Polymeric Disc Insulator 70KN B&S	EA	24	1,926.94	46,246.56
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	CLAMP PG FOR 80 SQMM AAAC	EA	24	888.07	21,313.63
21	GI Nut , Bolt & Washer of different sizes	Kg	43.0	130.70	5,623.17
22	HT STAY CLAMP TYPE-A(9m PSC 600mm)	Pair	5	209.45	1,047.25
23	HT STAY CLAMP TYPE-B(9m PSC 600mm)	Pair	1	331.77	331.77
24	H.T 11kV Stay set (Complete)	Set	6	1,759.38	10,556.28
25	HT stay (Guy) insulator	EA	6	83.78	502.68
26	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	60	125.67	7,540.20
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
28	AAA Conductor- 80 mm2	Mtr	3090.00	72.05	2,22,636.97

29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	16.00	125.67	2,010.72
30	Black Paint	Ltr	6	368.63	2,211.79
31	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**8,90,505.38**
B				**Stock, Storage & Insurance i.e 3%**	**26,715.16**
C				**Sub Total C=A+B**	**9,17,220.54**
D				**Contigency @ 3% of C**	**27,516.62**
E				**Tools & Plants @ 2% of C**	**18,344.41**
F				**Transportation @ 7.5% of C**	**68,791.54**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**22,879.66**
H				**Erection Other @ 10%**	**45,962.73**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**11,00,715.50**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	12	3,530.54	42,366.47
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	6	1,569.13	9,414.77
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	3	1,121.00	3,363.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	50.00	9.56	477.90
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,14,806.37**
L				**Sub-Total L =J+K**	**12,15,521.86**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**12,15,521.86**
O				**CESS @ 1% of Sub-Total N**	**12,155.22**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**12,28,677.08**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**12,28,677.08**

Cost Estimate for Upgradation of 11kV line with 9mtr. PSC-pole and AAAC 80 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	12	5,026.80	60,321.60
2	RCC base Plate	EA	12	426.38	5,116.57
3	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
4	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
5	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
6	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
7	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
8	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
9	Danger Plate, 11kV	EA	12	134.05	1,608.58
10	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	7.93	125.67	996.60
11	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	36	134.05	4,825.73
12	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	15.86	125.67	1,993.20
13	11kV,5kN pin insulator polymer	EA	32	335.12	10,723.84
14	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	8	1,357.24	10,857.89
15	GI Back Clamp for 11kV 'V' Cros Arm	EA	8	134.05	1,072.38
16	CLAMP F TYPE GI FOR 11KV	EA	8	402.14	3,217.15
17	Disc Insulator Hardware Fittings (70KN) B&S	EA	18	586.46	10,556.28
18	11KV Polymeric Disc Insulator 70KN B&S	EA	18	1,926.94	34,684.92
19	Coil Earthing	EA	12	278.15	3,337.80
20	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
21	CLAMP PG FOR 80 SQMM AAAC	EA	18	888.07	15,985.22
22	GI Nut , Bolt & Washer of different sizes	Kg	28.5	130.70	3,722.83
23	HT STAY CLAMP TYPE-A(9m PSC 600mm)	Pair	5	209.45	1,047.25
24	HT STAY CLAMP TYPE-B(9m PSC 600mm)	Pair	1	331.77	331.77
25	H.T 11kV Stay set (Complete)	Set	6	1,759.38	10,556.28
26	HT stay (Guy) insulator	EA	6	83.78	502.68
27	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	60	125.67	7,540.20
28	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
29	AAA Conductor- 80 mm2	Mtr	3090.00	72.05	2,22,636.97
30	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
31	Black Paint	Ltr	6	368.63	2,211.79
32	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82

A				**Total Cost of materials**	**4,61,065.41**
B				**Stock, Storage & Insurance i.e 3%**	**13,831.96**
C				**Sub Total C=A+B**	**4,74,897.37**
D				**Contigency @ 3% of C**	**14,246.92**
E				**Tools & Plants @ 2% of C**	**9,497.95**
F				**Transportation @ 7.5% of C**	**35,617.30**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**41,276.61**
I				**Erection PSC Pole @ 20%**	**12,426.25**
J				**Sub Total J=C+D+E+F+G+H+I**	**5,87,962.41**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	12	2,942.12	35,305.39
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	12	882.63	10,591.62
	Stay concreting in ratio 1:2:4	EA	6	1,569.13	9,414.77
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	1	1,121.00	1,121.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	3	49.96	149.88
	Dismantling of 11KV GI pin with insulato	EA	3	9.77	29.31
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	50.00	9.56	477.90
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,02,378.60**
L				**Sub-Total L =J+K**	**6,90,341.00**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**6,90,341.00**
O				**CESS @ 1% of Sub-Total N**	**6,903.41**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**6,98,244.41**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**6,98,244.41**

Cost Estimate for Upgradation of 33kV line with 13mtr. WPB-pole and Insulated XLPE 148 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	12	43,236.68	5,18,840.10
2	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	62.14	125.67	7,809.13
3	Double Pole Bracing Channel 75X40X4.8mm,each channel length 1.66 Mtr	Kg	59.26	125.67	7,447.46
4	50X50X6mm.GI Bracing Angle, each angle length 2.671 Mtr	Kg	48.08	125.67	6,041.96
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	Kg	97.51	125.67	12,254.33
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 33kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	Anticlimbing device Spike Type	EA	36	259.60	9,345.60
12	33kV,10kN pin insulator polymer	EA	32	804.29	25,737.22
13	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	8	3,016.08	24,128.64
14	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	8	167.56	1,340.48
15	Top bracket 100X50X5mm GI channel for 33KV	EA	8	251.34	2,010.72
16	Tension Assembly Wedge Type with Anchoring Clamp for 33 kV covered conductor	EA	18	1,224.84	22,047.12
17	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	IPC for 33kV 148sqmm Covered Conductor	EA	18	1,062.00	19,116.00
21	MIDSPAN JOINT 33KV COVERED CONDUCTOR 148SQMM	EA	3	885.00	2,655.00
22	33KV 148 SQMM Covered Conductor JT. Kit End Termination	EA	6	1,885.64	11,313.84
23	TIE INSULATED HELICAL F/33KV INSL. COND.	EA	33	556.96	18,379.68
24	GI Nut , Bolt & Washer of different sizes	Kg	35.0	130.70	4,574.39
25	HT Stay Clamp Type-A for WPB Pole	Pair	5	331.77	1,658.84
26	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
27	H.T 33kV Stay set (Complete)	Set	6	1,759.38	10,556.28
28	HT stay (Guy) insulator	EA	12	83.78	1,005.36
29	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	90	125.67	11,310.30
30	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
31	33kV 148sqmm XLPE Covered Conductor	Mtr	3090.00	252.45	7,80,068.03

32	GI Flat 50X6 mm(2.36kg/mtr)	Kg	7.15	125.67	898.13
33	Black Paint	Ltr	6	368.63	2,211.79
34	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**15,50,660.41**
B				**Stock, Storage & Insurance i.e 3%**	**46,519.81**
C				**Sub Total C=A+B**	**15,97,180.22**
D				**Contigency @ 3% of C**	**47,915.41**
E				**Tools & Plants @ 2% of C**	**31,943.60**
F				**Transportation @ 7.5% of C**	**1,19,788.52**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**26,720.27**
H				**Erection Other @ 10%**	**1,06,277.49**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**19,29,825.51**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	12	4,315.10	51,781.24
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	6	1,569.13	9,414.77
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	1	1,121.00	1,121.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	50.00	9.56	477.90
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,19,383.14**
L				**Sub-Total L =J+K**	**20,49,208.65**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**20,49,208.65**
O				**CESS @ 1% of Sub-Total N**	**20,492.09**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**20,71,450.74**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**20,71,450.74**

Cost Estimate for Upgradation of 33kV line with 11mtr. WPB-pole and Insulated XLPE 148 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	12	37,022.11	4,44,265.33
2	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	62.14	125.67	7,809.13
3	Double Pole Bracing Channel 75X40X4.8mm,each channel length 1.66 Mtr	Kg	59.26	125.67	7,447.46
4	50X50X6mm.GI Bracing Angle, each angle length 2.671 Mtr	Kg	48.08	125.67	6,041.96
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	Kg	97.51	125.67	12,254.33
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 33kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	Anticlimbing device Spike Type	EA	36	259.60	9,345.60
12	33kV,10kN pin insulator polymer	EA	32	804.29	25,737.22
13	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	8	3,016.08	24,128.64
14	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	8	167.56	1,340.48
15	Top bracket 100X50X5mm GI channel for 33KV	EA	8	251.34	2,010.72
16	Tension Assembly Wedge Type with Anchoring Clamp for 33 kV covered conductor	EA	18	1,224.84	22,047.12
17	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	IPC for 33kV 148sqmm Covered Conductor	EA	18	1,062.00	19,116.00
21	MIDSPAN JOINT 33KV COVERED CONDUCTOR 148SQMM	EA	3	885.00	2,655.00
22	33KV 148 SQMM Covered Conductor JT. Kit End Termination	EA	6	1,885.64	11,313.84
23	TIE INSULATED HELICAL F/33KV INSL. COND.	EA	33	556.96	18,379.68
24	GI Nut , Bolt & Washer of different sizes	Kg	38.7	130.70	5,055.09
25	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
26	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
27	H.T 33kV Stay set (Complete)	Set	8	1,759.38	14,075.04
28	HT stay (Guy) insulator	EA	16	83.78	1,340.48
29	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	120	125.67	15,080.40
30	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70

31	33kV 148sqmm XLPE Covered Conductor	Mtr	3090.00	252.45	7,80,068.03
32	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
33	Black Paint	Ltr	6	368.63	2,211.79
34	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**14,84,961.09**
B				**Stock, Storage & Insurance i.e 3%**	**44,548.83**
C				**Sub Total C=A+B**	**15,29,509.93**
D				**Contigency @ 3% of C**	**45,885.30**
E				**Tools & Plants @ 2% of C**	**30,590.20**
F				**Transportation @ 7.5% of C**	**1,14,713.24**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**22,879.66**
H				**Erection Other @ 10%**	**1,07,191.66**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**18,50,770.00**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	12	3,530.54	42,366.47
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	115.06	9.56	1,099.78
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,14,849.51**
L				**Sub-Total L =J+K**	**19,65,619.50**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**19,65,619.50**
O				**CESS @ 1% of Sub-Total N**	**19,656.20**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**19,87,025.70**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**19,87,025.70**

Cost Estimate for Upgradation of 33kV line with 13mtr. WPB-pole and Insulated XLPE 100 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	12	43,236.68	5,18,840.10
2	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	62.14	125.67	7,809.13
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	Kg	97.51	125.67	12,254.33
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 33kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	Anticlimbing device Spike Type	EA	36	259.60	9,345.60
12	33kV,10kN pin insulator polymer	EA	27	804.29	21,715.78
13	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	8	3,016.08	24,128.64
14	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	8	167.56	1,340.48
15	Top bracket 100X50X5mm GI channel for 33KV	EA	8	251.34	2,010.72
16	Tension Assembly Wedge Type with Anchoring Clamp for 33 kV covered conductor	EA	18	1,224.84	22,047.12
17	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	IPC for 33kV 100sqmm Covered Conductor	EA	18	1,062.00	19,116.00
21	MIDSPAN JOINT 33KV COVERED CONDUCTOR 100SQMM	EA	3	767.00	2,301.00
22	JT KIT END TERM. For 33KV 100 SQMM Covered Conductor	EA	6	1,593.00	9,558.00
23	TIE INSULATED HELICAL F/33KV INSL. COND.	EA	33	556.96	18,379.68
24	GI Nut , Bolt & Washer of different sizes	Kg	38.7	130.70	5,055.09
25	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
26	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
27	H.T 33kV Stay set (Complete)	Set	8	1,759.38	14,075.04
28	HT stay (Guy) insulator	EA	16	83.78	1,340.48
29	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	120	125.67	15,080.40
30	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70

31	33kV 100sqmm XLPE Covered Conductor	Mtr	3090.00	183.88	5,68,187.35
32	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
33	Black Paint	Ltr	6	368.63	2,211.79
34	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**13,49,438.10**
B				**Stock, Storage & Insurance i.e 3%**	**40,483.14**
C				**Sub Total C=A+B**	**13,89,921.24**
D				**Contigency @ 3% of C**	**41,697.64**
E				**Tools & Plants @ 2% of C**	**27,798.42**
F				**Transportation @ 7.5% of C**	**1,04,244.09**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**26,720.27**
H				**Erection Other @ 10%**	**85,551.59**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**16,75,933.26**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	12	4,315.10	51,781.24
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	115.06	9.56	1,099.78
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,24,264.28**
L				**Sub-Total L =J+K**	**18,00,197.54**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**18,00,197.54**
O				**CESS @ 1% of Sub-Total N**	**18,001.98**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**18,19,949.51**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**18,19,949.51**

Cost Estimate for Upgradation of 33kV line with 11mtr. WPB-pole and Insulated XLPE 100 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	12	37,022.11	4,44,265.33
2	Top Channel 100X50X5mm,each channel length 3.25 Mtr	Kg	62.14	125.67	7,809.13
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	Kg	97.51	125.67	12,254.33
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 33kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	Anticlimbing device Spike Type	EA	36	259.60	9,345.60
12	33kV,10kN pin insulator polymer	EA	27	804.29	21,715.78
13	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	EA	8	3,016.08	24,128.64
14	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	EA	8	167.56	1,340.48
15	Top bracket 100X50X5mm GI channel for 33KV	EA	8	251.34	2,010.72
16	Tension Assembly Wedge Type with Anchoring Clamp for 33 kV covered conductor	EA	18	1,224.84	22,047.12
17	33KV Polymeric Disc Insulator 90KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	IPC for 33kV 100sqmm Covered Conductor	EA	18	1,062.00	19,116.00
21	MIDSPAN JOINT 33KV COVERED CONDUCTOR 100SQMM	EA	3	767.00	2,301.00
22	JT KIT END TERM. For 33KV 100 SQMM Covered Conductor	EA	6	1,593.00	9,558.00
23	TIE INSULATED HELICAL F/33KV INSL. COND.	EA	33	556.96	18,379.68
24	GI Nut , Bolt & Washer of different sizes	Kg	38.7	130.70	5,055.09
25	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
26	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
27	H.T 33kV Stay set (Complete)	Set	8	1,759.38	14,075.04
28	HT stay (Guy) insulator	EA	16	83.78	1,340.48
29	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	120	125.67	15,080.40
30	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70

31	33kV 100sqmm XLPE Covered Conductor	Mtr	3090.00	183.88	5,68,187.35
32	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
33	Black Paint	Ltr	6	368.63	2,211.79
34	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**12,74,863.33**
B				**Stock, Storage & Insurance i.e 3%**	**38,245.90**
C				**Sub Total C=A+B**	**13,13,109.23**
D				**Contigency @ 3% of C**	**39,393.28**
E				**Tools & Plants @ 2% of C**	**26,262.18**
F				**Transportation @ 7.5% of C**	**98,483.19**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**22,879.66**
H				**Erection Other @ 10%**	**85,551.59**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**15,85,679.14**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	12	3,530.54	42,366.47
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	115.06	9.56	1,099.78
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,14,849.51**
L				**Sub-Total L =J+K**	**17,00,528.64**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**17,00,528.64**
O				**CESS @ 1% of Sub-Total N**	**17,005.29**
P				**Inspection fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**17,19,283.93**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**17,19,283.93**

Cost Estimate for Upgradation of 11kV line with 11mtr. WPB-pole and Insulated XLPE 100 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	12	37,022.11	4,44,265.33
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 11kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	Anticlimbing device Spike Type	EA	24	259.60	6,230.40
11	11kV,5kN pin insulator polymer	EA	32	335.12	10,723.84
12	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	8	1,357.24	10,857.89
13	GI Back Clamp for 11kV 'V' Cros Arm	EA	8	134.05	1,072.38
14	CLAMP F TYPE GI FOR 11KV	EA	8	402.14	3,217.15
15	Tension Assembly Wedge Type with Anchoring Clamp for 11 kV covered conductor	EA	18	1,067.90	19,222.20
16	11KV Polymeric Disc Insulator 70KN B&S	EA	18	1,926.94	34,684.92
17	Coil Earthing	EA	12	278.15	3,337.80
18	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
19	IPC for 11KV 100sqmm Covered Conductor	EA	6	649.00	3,894.00
20	MIDSPAN JT FOR 100 SQ.MM INSL. AAAC-11KV	EA	3	2,171.20	6,513.60
21	JT KIT END TERM for 11KV 100 Sqmm Covered Conductor	EA	6	1,144.60	6,867.60
22	TIE INSULATED HELICAL F/11KV INSL. COND.	EA	33	337.48	11,136.84
23	GI Nut , Bolt & Washer of different sizes	Kg	31.8	130.70	4,157.07
24	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
25	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
26	H.T 11kV Stay set (Complete)	Set	8	1,759.38	14,075.04
27	HT stay (Guy) insulator	EA	8	83.78	670.24
28	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	80	125.67	10,053.60
29	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
30	11kV 100sqmm XLPE Covered Conductor	Mtr	3090.00	148.64	4,59,311.81

31	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
32	Black Paint	Ltr	6	368.63	2,211.79
33	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**11,04,980.71**
B				**Stock, Storage & Insurance i.e 3%**	**33,149.42**
C				**Sub Total C=A+B**	**11,38,130.13**
D				**Contigency @ 3% of C**	**34,143.90**
E				**Tools & Plants @ 2% of C**	**22,762.60**
F				**Transportation @ 7.5% of C**	**85,359.76**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**22,879.66**
H				**Erection Other @ 10%**	**68,053.68**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**13,71,329.74**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	12	3,530.54	42,366.47
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	12	931.67	11,180.04
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	86.38	9.56	825.66
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,14,575.38**
L				**Sub-Total L =J+K**	**14,85,905.13**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**14,85,905.13**
O				**CESS @ 1% of Sub-Total N**	**14,859.05**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**15,01,764.18**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**15,01,764.18**

Cost Estimate for Upgradation of 11kV line with 9mtr. WPB-pole and Insulated XLPE 100 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),9 mtr- with base plate 300x300x12	EA	12	30,461.70	3,65,540.40
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
6	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
7	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
8	Danger Plate, 11kV	EA	12	134.05	1,608.58
9	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	7.93	125.67	996.60
10	Anticlimbing device Spike Type	EA	24	259.60	6,230.40
11	11kV,5kN pin insulator polymer	EA	32	335.12	10,723.84
12	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	8	1,357.24	10,857.89
13	GI Back Clamp for 11kV 'V' Cros Arm	EA	8	134.05	1,072.38
14	CLAMP F TYPE GI FOR 11KV	EA	8	402.14	3,217.15
15	Tension Assembly Wedge Type with Anchoring Clamp for 11 kV covered conductor	EA	18	1,067.90	19,222.20
16	11KV Polymeric Disc Insulator 70KN B&S	EA	18	1,926.94	34,684.92
17	Coil Earthing	EA	12	278.15	3,337.80
18	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
19	IPC for 11KV 100sqmm Covered Conductor	EA	6	649.00	3,894.00
20	MIDSPAN JT FOR 100 SQ.MM INSL. AAAC-11KV	EA	3	2,171.20	6,513.60
21	JT KIT END TERM for 11KV 100 Sqmm Covered Conductor	EA	6	1,144.60	6,867.60
22	TIE INSULATED HELICAL F/11KV INSL. COND.	EA	33	337.48	11,136.84
23	GI Nut , Bolt & Washer of different sizes	Kg	31.8	130.70	4,157.07
24	HT Stay Clamp Type-A for WPB Pole	Pair	7	331.77	2,322.38
25	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
26	H.T 11kV Stay set (Complete)	Set	8	1,759.38	14,075.04
27	HT stay (Guy) insulator	EA	8	83.78	670.24
28	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	80	125.67	10,053.60
29	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
30	11kV 100sqmm XLPE Covered Conductor	Mtr	3090.00	148.64	4,59,311.81

31	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
32	Black Paint	Ltr	6	368.63	2,211.79
33	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**10,26,255.78**
B				**Stock, Storage & Insurance i.e 3%**	**30,787.67**
C				**Sub Total C=A+B**	**10,57,043.45**
D				**Contigency @ 3% of C**	**31,711.30**
E				**Tools & Plants @ 2% of C**	**21,140.87**
F				**Transportation @ 7.5% of C**	**79,278.26**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**18,825.33**
H				**Erection Other @ 10%**	**68,053.68**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**12,76,052.90**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR WPB POLE	EA	12	2,942.12	35,305.39
	Couping of poles in ratio 1:1.5:3 for 9MTR WPB POLE	EA	12	882.63	10,591.62
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	86.38	9.56	825.66
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,06,925.88**
L				**Sub-Total L =J+K**	**13,82,978.78**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**13,82,978.78**
O				**CESS @ 1% of Sub-Total N**	**13,829.79**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**13,97,808.57**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**13,97,808.57**

Cost Estimate for Upgradation of 11kV line with 9mtr. PSC-pole and XLPE Insulated 100 Sq.mm					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	12	5,026.80	60,321.60
2	RCC base Plate	EA	12	426.38	5,116.57
3	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
4	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	107.10	125.67	13,459.26
5	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
6	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
7	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
8	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	14.54	125.67	1,826.94
9	Danger Plate, 11kV	EA	12	134.05	1,608.58
10	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	7.93	125.67	996.60
11	Anticlimbing device Spike Type	EA	24	259.60	6,230.40
12	11kV,5kN pin insulator polymer	EA	32	335.12	10,723.84
13	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	8	1,357.24	10,857.89
14	GI Back Clamp for 11kV 'V' Cros Arm	EA	8	134.05	1,072.38
15	CLAMP F TYPE GI FOR 11KV	EA	8	402.14	3,217.15
16	Tension Assembly Wedge Type with Anchoring Clamp for 11 kV covered conductor	EA	18	1,067.90	19,222.20
17	11KV Polymeric Disc Insulator 70KN B&S	EA	18	1,926.94	34,684.92
18	Coil Earthing	EA	12	278.15	3,337.80
19	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
20	IPC for 11KV 100sqmm Covered Conductor	EA	6	649.00	3,894.00
21	MIDSPAN JT FOR 100 SQ.MM INSL. AAAC-11KV	EA	3	2,171.20	6,513.60
22	JT KIT END TERM for 11KV 100 Sqmm Covered Conductor	EA	6	1,144.60	6,867.60
23	TIE INSULATED HELICAL F/11KV INSL. COND.	EA	33	337.48	11,136.84
24	GI Nut , Bolt & Washer of different sizes	Kg	31.8	130.70	4,157.07
25	HT STAY CLAMP TYPE-A(9m PSC 600mm)	Pair	7	209.45	1,466.15
26	HT STAY CLAMP TYPE-B(9m PSC 600mm)	Pair	1	331.77	331.77
27	H.T 11kV Stay set (Complete)	Set	8	1,759.38	14,075.04
28	HT stay (Guy) insulator	EA	8	83.78	670.24
29	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	80	125.67	10,053.60
30	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
31	11kV 100sqmm XLPE Covered Conductor	Mtr	3090.00	148.64	4,59,311.81

32	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8.00	125.67	1,005.36
33	Black Paint	Ltr	6	368.63	2,211.79
34	Yellow Colour Paint for Background	Ltr	12	251.07	3,012.82
A				**Total Cost of materials**	**7,25,297.32**
B				**Stock, Storage & Insurance i.e 3%**	**21,758.92**
C				**Sub Total C=A+B**	**7,47,056.24**
D				**Contigency @ 3% of C**	**22,411.69**
E				**Tools & Plants @ 2% of C**	**14,941.12**
F				**Transportation @ 7.5% of C**	**56,029.22**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**68,492.50**
I				**Erection PSC Pole @ 20%**	**12,426.25**
J				**Sub Total J=C+D+E+F+G+H+I**	**9,21,357.02**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	12	2,942.12	35,305.39
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	12	882.63	10,591.62
	Stay concreting in ratio 1:2:4	EA	8	1,569.13	12,553.03
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	1	1,534.00	1,534.00
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	2	1,121.00	2,242.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	2	49.96	99.92
	Dismantling of 11KV GI pin with insulato	EA	2	9.77	19.54
	Dismantling of 11KV Disc insulator with	EA	12	9.77	117.24
	Dismantling of MS Channel& Return store	Kg	86.38	9.56	825.66
	Dismant of 34/55mm2 AAA Conductor& retu	Mtr	3090.00	8.26	25,523.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,06,925.88**
L				**Sub-Total L =J+K**	**10,28,282.90**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**10,28,282.90**
O				**CESS @ 1% of Sub-Total N**	**10,282.83**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**10,39,565.73**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**10,39,565.73**

Cost Estimate for 33kV Auto-Reclosure with 13mtr. WPB-pole					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	2	43,236.68	86,473.35
2	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	82.22	125.67	10,332.08
3	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	Kg	122.81	125.67	15,433.28
4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	88.69	125.67	11,145.17
5	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	82.22	125.67	10,332.08
6	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
7	Danger Plate, 33kV	EA	2	134.05	268.10
8	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10
9	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
10	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
11	33kV,10kN pin insulator polymer	EA	3	804.29	2,412.86
12	Disc Insulator Hardware Fittings (90KN) B&S	Set	6	837.80	5,026.80
13	33KV Polymeric Disc Insulator 90KN B&S	EA	6	1,926.94	11,561.64
14	Coil Earthing	EA	2	278.15	556.30
15	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
16	CLAMP PG FOR 148 SQMM AAA COND	EA	6	1,038.87	6,233.23
17	GI Nut , Bolt & Washer of different sizes	Kg	52.1	130.70	6,812.44
18	33kV Auto Reclosure	EA	1	13,33,872.00	13,33,872.00
19	HT Stay Clamp Type-A for WPB Pole	Pair	4	331.77	1,327.08
20	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
21	HT stay (Guy) insulator	EA	8	83.78	670.24
22	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
23	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
24	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8	125.67	1,005.36
25	Black Paint	Ltr	1	368.63	368.63
26	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**15,22,286.91**
B				**Stock, Storage & Insurance i.e 3%**	**45,668.61**
C				**Sub Total C=A+B**	**15,67,955.51**
D				**Contigency @ 3% of C**	**47,038.67**
E				**Tools & Plants @ 2% of C**	**31,359.11**
F				**Transportation @ 7.5% of C**	**1,17,596.66**

G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				**73,147.79**
H	**Erection Other @ 10%**				**10,499.98**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**18,47,597.72**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	2	4,315.10	8,630.21
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K	**Total Civil Part**				**22,080.06**
L	**Sub-Total L =J+K**				**18,69,677.78**
M	**Other Over Head (Including Supervision charges)@ 6% of L**				**-**
N	**Sub-Total N=L+M**				**18,69,677.78**
O	**CESS @ 1% of Sub-Total N**				**18,696.78**
P	**Inspection Fees**				
Q	**Drawing Approval**				**750.00**
R	**Sub-Total R=N+O+P+Q**				**18,89,124.56**
S	**Add GST (Exempted) of Sub-Total**				**-**
T	**Grand Total**				**18,89,124.56**

Cost Estimate for 33kV Line AB Switch with 13mtr. WPB-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	2	43,236.68	86,473.35
2	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	82.22	125.67	10,332.08
3	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	Kg	122.81	125.67	15,433.28
4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	88.69	125.67	11,145.17
5	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	82.22	125.67	10,332.08
6	Isolator Support Side Channel 100X50X5mm, each channel length 0.5 Mtr	Kg	9.56	125.67	1,201.41
7	Down Pipe Base Support Angle 50X50X6mm, each angle length 0.34 Mtr	Kg	1.53	125.67	192.28
8	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	5.71	125.67	717.83

9	Down Pipe Diagonal Support Angle 50X50X6mm, each angle length 0.388 Mtr	Kg	1.75	125.67	219.42
10	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	10.57	125.67	1,328.68
11	Danger Plate, 33kV	EA	2	134.05	268.10
12	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10
13	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
14	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
15	33kV,10kN pin insulator polymer	EA	6	804.29	4,825.73
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	6	837.80	5,026.80
17	33KV Polymeric Disc Insulator 90KN B&S	EA	6	1,926.94	11,561.64
18	Coil Earthing	EA	2	278.15	556.30
19	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
20	CLAMP PG FOR 148 SQMM AAA COND	EA	6	1,038.87	6,233.23
21	33kV AB switch 400A Polymer	EA	1	31,953.69	31,953.69
22	GI Nut , Bolt & Washer of different sizes	Kg	52.1	130.70	6,812.44
23	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
24	HT Stay Clamp Type-B for WPB Pole	Pair	2	331.77	663.54
25	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
26	HT stay (Guy) insulator	EA	8	83.78	670.24
27	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
28	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8	125.67	1,005.36
30	Black Paint	Ltr	1	368.63	368.63
31	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**2,25,942.82**
B				**Stock, Storage & Insurance i.e 3%**	**6,778.28**
C				**Sub Total C=A+B**	**2,32,721.10**
D				**Contigency @ 3% of C**	**6,981.63**
E				**Tools & Plants @ 2% of C**	**4,654.42**
F				**Transportation @ 7.5% of C**	**17,454.08**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**4,453.38**
H				**Erection Other @ 10%**	**14,365.35**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**2,80,629.97**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	2	4,315.10	8,630.21
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00

	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**22,080.06**
L				**Sub-Total L =J+K**	**3,02,710.03**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**3,02,710.03**
O				**CESS @ 1% of Sub-Total N**	**3,027.10**
P				**Inspection Fees**	
Q				**Drawing Approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**3,06,487.13**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**3,06,487.13**

Cost Estimate for 11kV Line AB Switch on Double Pole Structure with 11mtr. WPB-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	85.68	125.67	10,767.41
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	AB Switch mounting Channel 100X50X5mm GI channel 3.0 Mtr long	Kg	57.36	125.67	7,208.43
6	Side Support Channel 100X50X5mm,each channel length 0.35 mtr.	Kg	6.69	125.67	840.98
7	AB Switch Bottom Support Channel 75X40X4.8 mm of length 0.330 Mtr	Kg	2.36	125.67	296.10
8	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	5.71	125.67	717.83
9	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
10	Danger Plate, 11kV	EA	2	134.05	268.10
11	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10
12	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
13	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
14	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
15	Disc Insulator Hardware Fittings (70KN) B&S	EA	6	586.46	3,518.76
16	11KV Polymeric Disc Insulator 70KN B&S	EA	6	1,926.94	11,561.64

17	Coil Earthing	EA	2	278.15	556.30
18	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
19	CLAMP PG FOR 100 SQMM AAA COND	EA	6	971.85	5,831.09
20	GI Nut , Bolt & Washer of different sizes	Kg	13.7	130.70	1,792.90
21	11KV, 10KA Lightening Arrester Polymer SL(Class-II)	EA	3	6,490.00	19,470.00
22	11kV AB switch 400A Polymer	Set	1	19,855.86	19,855.86
23	HT Stay Clamp Type-A for WPB Pole	Pair	4	331.77	1,327.08
24	H.T 11kV Stay set (Complete)	Set	4	1,759.38	7,037.52
25	HT stay (Guy) insulator	EA	4	83.78	335.12
26	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	40	125.67	5,026.80
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
28	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8	125.67	1,005.36
29	Black Paint	Ltr	1	368.63	368.63
30	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**1,91,866.80**
B				**Stock, Storage & Insurance i.e 3%**	**5,756.00**
C				**Sub Total C=A+B**	**1,97,622.81**
D				**Contigency @ 3% of C**	**5,928.68**
E				**Tools & Plants @ 2% of C**	**3,952.46**
F				**Transportation @ 7.5% of C**	**14,821.71**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**3,813.28**
H				**Erection Other @ 10%**	**12,135.73**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**2,38,274.66**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**20,510.93**
L				**Sub-Total L =J+K**	**2,58,785.60**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**2,58,785.60**
O				**CESS @ 1% of Sub-Total N**	**2,587.86**
P				**Inspection Fees**	
Q				**Drawing Approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**2,62,123.45**

S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**2,62,123.45**

Cost Estimate for 33kV Line Isolator with 13mtr. WPB-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	2	43,236.68	86,473.35
2	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	82.22	125.67	10,332.08
3	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	Kg	153.51	125.67	19,291.60
4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	88.69	125.67	11,145.17
5	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	82.22	125.67	10,332.08
6	Isolator Support Side Channel 100X50X5mm, each channel length 0.5 Mtr	Kg	9.56	125.67	1,201.41
7	Down Pipe Base Support Angle 50X50X6mm, each angle length 0.34 Mtr	Kg	1.53	125.67	192.28
8	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	5.71	125.67	717.83
9	Down Pipe Diagonal Support Angle 50X50X6mm, each angle length 0.388 Mtr	Kg	1.75	125.67	219.42
10	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	10.57	125.67	1,328.68
11	Danger Plate, 33kV	EA	2	134.05	268.10
12	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10
13	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
14	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
15	33kV,10kN pin insulator polymer	EA	3	804.29	2,412.86
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	6	837.80	5,026.80
17	33KV Polymeric Disc Insulator 90KN B&S	EA	6	1,926.94	11,561.64
18	Coil Earthing	EA	2	278.15	556.30
19	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
20	LA 33KV 10KA 30KV	EA	3	5,566.00	16,698.00
21	CLAMP PG FOR 148 SQMM AAA COND	EA	6	1,038.87	6,233.23
22	33KV 1250 Amp DBCR Isolator W/O E/S	Set	1	73,580.08	73,580.08
23	GI Nut , Bolt & Washer of different sizes	Kg	15.0	130.70	1,960.45
24	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
25	HT Stay Clamp Type-B for WPB Pole	Pair	2	331.77	663.54

26	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
27	HT stay (Guy) insulator	EA	8	83.78	670.24
28	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
29	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
30	GI Flat 50X6 mm(2.36kg/mtr)	Kg	20.5	125.67	2,570.87
31	Black Paint	Ltr	1	368.63	368.63
32	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**2,83,935.89**
B				**Stock, Storage & Insurance i.e 3%**	**8,518.08**
C				**Sub Total C=A+B**	**2,92,453.96**
D				**Contigency @ 3% of C**	**8,773.62**
E				**Tools & Plants @ 2% of C**	**5,849.08**
F				**Transportation @ 7.5% of C**	**21,934.05**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**4,453.38**
H				**Erection Other @ 10%**	**20,338.64**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**3,53,802.73**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	2	4,315.10	8,630.21
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**26,210.06**
L				**Sub-Total L =J+K**	**3,80,012.79**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**3,80,012.79**
O				**CESS @ 1% of Sub-Total N**	**3,800.13**
P				**Inspection Fees**	
Q				**Drawing Approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**3,84,562.92**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**3,84,562.92**

Cost Estimate for 33kV Sectionalizer with 13mtr. WPB-pole					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	2	43,236.68	86,473.35
2	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	82.22	125.67	10,332.08
3	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	Kg	122.81	125.67	15,433.28
4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	88.69	125.67	11,145.17
5	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	82.22	125.67	10,332.08
6	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
7	Danger Plate, 33kV	EA	2	134.05	268.10
8	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10
9	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
10	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
11	33kV,10kN pin insulator polymer	EA	3	804.29	2,412.86
12	Disc Insulator Hardware Fittings (90KN) B&S	Set	6	837.80	5,026.80
13	33KV Polymeric Disc Insulator 90KN B&S	EA	6	1,926.94	11,561.64
14	Coil Earthing	EA	2	278.15	556.30
15	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
16	CLAMP PG FOR 148 SQMM AAA COND	EA	6	1,038.87	6,233.23
17	GI Nut , Bolt & Washer of different sizes	Kg	13.7	130.70	1,792.90
18	SECTIONALIZER 33KV	EA	1	13,33,872.00	13,33,872.00
19	HT Stay Clamp Type-A for WPB Pole	Pair	4	331.77	1,327.08
20	H.T 33kV Stay set (Complete)	Set	4	1,759.38	7,037.52
21	HT stay (Guy) insulator	EA	8	83.78	670.24
22	7/8 SWG Stay Wire(4mm)-(Heavy)	Kg	60	125.67	7,540.20
23	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
24	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8	125.67	1,005.36
25	Black Paint	Ltr	1	368.63	368.63
26	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**15,17,267.36**
B				**Stock, Storage & Insurance i.e 3%**	**45,518.02**
C				**Sub Total C=A+B**	**15,62,785.39**
D				**Contigency @ 3% of C**	**46,883.56**
E				**Tools & Plants @ 2% of C**	**31,255.71**
F				**Transportation @ 7.5% of C**	**1,17,208.90**

G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				**4,453.38**
H	**Erection Other @ 10%**				**1,47,371.78**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**19,09,958.72**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	2	4,315.10	8,630.21
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K	**Total Civil Part**				**22,080.06**
L	**Sub-Total L =J+K**				**19,32,038.78**
M	**Other Over Head (Including Supervision charges)@ 6% of L**				**-**
N	**Sub-Total N=L+M**				**19,32,038.78**
O	**CESS @ 1% of Sub-Total N**				**19,320.39**
P	**Inspection Fees**				
Q	**Drawing Approval**				**750.00**
R	**Sub-Total R=N+O+P+Q**				**19,52,109.17**
S	**Add GST (Exempted) of Sub-Total**				**-**
T	**Grand Total**				**19,52,109.17**

Cost Estimate for 11kV Auto-Reclosure with 11mtr. WPB-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	85.68	125.67	10,767.41
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Auto-reclosure mounting Channel 100X50X5mm GI channel 3.0 Mtr long	Kg	57.36	125.67	7,208.43
6	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
7	Danger Plate, 11kV	EA	2	134.05	268.10
8	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10

9	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
10	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
11	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
12	Disc Insulator Hardware Fittings (70KN) B&S	EA	6	586.46	3,518.76
13	11KV Polymeric Disc Insulator 70KN B&S	EA	6	1,926.94	11,561.64
14	Coil Earthing	EA	2	278.15	556.30
15	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
16	CLAMP PG FOR 100 SQMM AAA COND	EA	6	971.85	5,831.09
17	GI Nut , Bolt & Washer of different sizes	Kg	13.7	130.70	1,792.90
18	11kV Auto Reclosure	EA	1	10,07,484.00	10,07,484.00
19	HT Stay Clamp Type-A for WPB Pole	Pair	4	331.77	1,327.08
20	H.T 11kV Stay set (Complete)	Set	4	1,759.38	7,037.52
21	HT stay (Guy) insulator	EA	4	83.78	335.12
22	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	40	125.67	5,026.80
23	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
24	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8	125.67	1,005.36
25	Black Paint	Ltr	1	368.63	368.63
26	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**11,58,170.03**
B				**Stock, Storage & Insurance i.e 3%**	**34,745.10**
C				**Sub Total C=A+B**	**11,92,915.13**
D				**Contigency @ 3% of C**	**35,787.45**
E				**Tools & Plants @ 2% of C**	**23,858.30**
F				**Transportation @ 7.5% of C**	**89,468.63**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**55,698.70**
H				**Erection Other @ 10%**	**7,894.11**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**14,05,622.33**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**20,510.93**
L				**Sub-Total L =J+K**	**14,26,133.26**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**

N	**Sub-Total N=L+M**	**14,26,133.26**
O	**CESS @ 1% of Sub-Total N**	**14,261.33**
P	**Inspection Fees**	
Q	**Drawing Approval**	**750.00**
R	**Sub-Total R=N+O+P+Q**	**14,41,144.60**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**14,41,144.60**

Cost Estimate for 11kV Sectionalizer with 11mtr. WPB-pole

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
2	Top Channel 100X50X5mm, each channel length 3.0 Mtr	Kg	57.36	125.67	7,208.43
3	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	Kg	85.68	125.67	10,767.41
4	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	Kg	63.22	125.67	7,944.35
5	Sectionalizer mounting Channel 100X50X5mm GI channel 3.0 Mtr long	Kg	57.36	125.67	7,208.43
6	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
7	Danger Plate, 11kV	EA	2	134.05	268.10
8	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	1.32	125.67	166.10
9	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
10	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
11	11kV,5kN pin insulator polymer	EA	3	335.12	1,005.36
12	Disc Insulator Hardware Fittings (70KN) B&S	EA	6	586.46	3,518.76
13	11KV Polymeric Disc Insulator 70KN B&S	EA	6	1,926.94	11,561.64
14	Coil Earthing	EA	2	278.15	556.30
15	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
16	CLAMP PG FOR 100 SQMM AAA COND	EA	6	971.85	5,831.09
17	GI Nut , Bolt & Washer of different sizes	Kg	13.7	130.70	1,792.90
18	11KV SECTIONALIZER	EA	1	10,07,484.00	10,07,484.00
19	HT Stay Clamp Type-A for WPB Pole	Pair	4	331.77	1,327.08
20	H.T 11kV Stay set (Complete)	Set	4	1,759.38	7,037.52
21	HT stay (Guy) insulator	EA	4	83.78	335.12
22	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	40	125.67	5,026.80
23	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70

24	GI Flat 50X6 mm(2.36kg/mtr)	Kg	8	125.67	1,005.36
25	Black Paint	Ltr	1	368.63	368.63
26	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**11,58,170.03**
B				**Stock, Storage & Insurance i.e 3%**	**34,745.10**
C				**Sub Total C=A+B**	**11,92,915.13**
D				**Contigency @ 3% of C**	**35,787.45**
E				**Tools & Plants @ 2% of C**	**23,858.30**
F				**Transportation @ 7.5% of C**	**89,468.63**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**3,813.28**
H				**Erection Other @ 10%**	**1,11,664.96**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**14,57,507.76**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1.0	1,180.00	1,180.00
K				**Total Civil Part**	**19,330.93**
L				**Sub-Total L =J+K**	**14,76,838.69**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**14,76,838.69**
O				**CESS @ 1% of Sub-Total N**	**14,768.39**
P				**Inspection Fees**	
Q				**Drawing Approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**14,92,357.08**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**14,92,357.08**

Cost Estimate for Communicable 33kV FPI

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount (In Rs.)
1	COMMUNICABLE FPI 33KV O/H	EA	3	12,065.50	36,196.50
2	DATA CONTROL UNIT FOR 33KV O/H COMM. FPI	EA	1	1,21,043.22	1,21,043.22
A				**Total Cost of materials**	**1,57,239.72**

B	**Stock, Storage & Insurance i.e 3%**	**4,717.19**
C	**Sub Total C=A+B**	**1,61,956.91**
D	**Contigency @ 3% of C**	**4,858.71**
E	**Tools & Plants @ 2% of C**	**3,239.14**
F	**Transportation @ 7.5% of C**	**12,146.77**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H	**Erection Other @ 10%**	**16,195.69**
I	**Erection PSC Pole @ 20%**	
J	**Sub Total J=C+D+E+F+G+H+I**	**1,98,397.22**
K	**Other Over Head (Including Supervision charges)@ 6% of J**	**-**
L	**Sub-Total L=J+K**	**1,98,397.22**
M	**CESS @ 1% of Sub-Total L**	**1,983.97**
N	**Inspection Fees**	**-**
O	**Drawing Approval**	**-**
P	**Sub-Total P=L+M+N+O**	**2,00,381.19**
Q	**Add GST (Exempted) of Sub-Total**	**-**
R	**Grand Total**	**2,00,381.19**

Cost Estimate for Non-Communicable 33kV FPI

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	COMMUNICABLE FPI 33KV O/H	EA	3	12,065.50	36,196.50
A				**Total Cost of materials**	**36,196.50**
B				**Stock, Storage & Insurance i.e 3%**	**1,085.90**

C	**Sub Total C=A+B**	**37,282.40**
D	**Contigency @ 3% of C**	**1,118.47**
E	**Tools & Plants @ 2% of C**	**745.65**
F	**Transportation @ 7.5% of C**	**2,796.18**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H	**Erection Other @ 10%**	**3,728.24**
I	**Erection PSC Pole @ 20%**	
J	**Sub Total J=C+D+E+F+G+H+I**	**45,670.93**
K	**Other Over Head (Including Supervision charges)@ 6% of J**	**-**
L	**Sub-Total L=J+K**	**45,670.93**
M	**CESS @ 1% of Sub-Total L**	**456.71**
N	**Inspection Fees**	**-**
O	**Drawing Approval**	**-**
P	**Sub-Total P=L+M+N+O**	**46,127.64**
Q	**Add GST (Exempted) of Sub-Total**	**-**
R	**Grand Total**	**46,127.64**

Cost Estimate for Communicable 11kV FPI

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	COMMUNICABLE FPI 11KV O/H	EA	3	12,065.50	36,196.50
2	DATA CONTROL UNIT FOR 11KV O/H COMM. FPI	EA	1	1,09,724.66	1,09,724.66
A	**Total Cost of materials**				**1,45,921.16**
B	**Stock, Storage & Insurance i.e 3%**				**4,377.63**
C	**Sub Total C=A+B**				**1,50,298.79**
D	**Contigency @ 3% of C**				**4,508.96**
E	**Tools & Plants @ 2% of C**				**3,005.98**
F	**Transportation @ 7.5% of C**				**11,272.41**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				
H	**Erection Other @ 10%**				**15,029.88**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**1,84,116.02**
K	**Other Over Head (Including Supervision charges)@ 6% of J**				**-**
L	**Sub-Total L=J+K**				**1,84,116.02**
M	**CESS @ 1% of Sub-Total L**				**1,841.16**
N	**Inspection Fees**				**-**
O	**Drawing Approval**				**-**
P	**Sub-Total P=L+M+N+O**				**1,85,957.18**

Q				**Add GST (Exempted) of Sub-Total**	**-**
R				**Grand Total**	**1,85,957.18**

Cost Estimate for Non-Communicable 11kV FPI

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	COMMUNICABLE FPI 11KV O/H	EA	3	12,065.50	36,196.50
A				**Total Cost of materials**	**36,196.50**
B				**Stock, Storage & Insurance i.e 3%**	**1,085.90**
C				**Sub Total C=A+B**	**37,282.40**
D				**Contigency @ 3% of C**	**1,118.47**
E				**Tools & Plants @ 2% of C**	**745.65**
F				**Transportation @ 7.5% of C**	**2,796.18**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**3,728.24**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**45,670.93**
K				**Other Over Head (Including Supervision charges)@ 6% of J**	**-**
L				**Sub-Total L=J+K**	**45,670.93**
M				**CESS @ 1% of Sub-Total L**	**456.71**
N				**Inspection Fees**	**-**
O				**Drawing Approval**	**-**
P				**Sub-Total P=L+M+N+O**	**46,127.64**
Q				**Add GST (Exempted) of Sub-Total**	**-**
R				**Grand Total**	**46,127.64**

Cost Estimate for Installation of 11KV AB Switch at DSS

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
2	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
3	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
4	11 kV AB switch 200A Polymer	Set	1	12,315.66	12,315.66
5	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
6	GI Nut , Bolt & Washer of different sizes	Kg	0.5	130.70	65.35
7	GI Flat 25X3 mm(0.589kg/mtr)	Kg	5.89	123.92	729.91

A				**Total Cost of materials**	**23,566.38**
B				**Stock, Storage & Insurance i.e 3%**	**706.99**
C				**Sub Total C=A+B**	**24,273.37**
D				**Contigency @ 3% of C**	**728.20**
E				**Tools & Plants @ 2% of C**	**485.47**
F				**Transportation @ 7.5% of C**	**1,820.50**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**2,427.34**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**29,734.88**
	Civil & Services				
	Dismantl of GO/AB Switch/istr (11 /33KV)	SET	1	1,416.00	1,416.00
	Dismantling of MS Channel& Return store	Kg	82.94	9.56	792.70
K				**Total Civil Part**	**2,208.70**
L				**Sub-Total L =J+K**	**31,943.58**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**31,943.58**
O				**CESS @ 1% of Sub-Total N**	**319.44**
P				**Inspection fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**32,263.02**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**32,263.02**

Cost Estimate for Installation of 11KV HG Fuse at DSS

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95
2	11kV H.G Fuse 200A,3Pole with PI	Set	1	10,254.67	10,254.67
3	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
4	GI Nut , Bolt & Washer of different sizes	Kg	0.5	130.70	65.35
5	GI Flat 25X3 mm(0.589kg/mtr)	Kg	5.89	123.92	729.91
A				**Total Cost of materials**	**16,053.81**
B				**Stock, Storage & Insurance i.e 3%**	**481.61**
C				**Sub Total C=A+B**	**16,535.42**
D				**Contigency @ 3% of C**	**496.06**

E				**Tools & Plants @ 2% of C**	**330.71**
F				**Transportation @ 7.5% of C**	**1,240.16**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**1,653.54**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**20,255.89**
	Civil & Services				
	Dismantl of GO/AB Switch/istr (11 /33KV)	SET	1	1,416.00	1,416.00
	Dismantling of MS Channel& Return store	Kg	39.56	9.56	378.07
K				**Total Civil Part**	**1,794.07**
L				**Sub-Total L =J+K**	**22,049.96**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**22,049.96**
O				**CESS @ 1% of Sub-Total N**	**220.50**
P				**Inspection fees**	
Q				**Drawing approval fees**	
R				**Sub-Total R=N+O+P+Q**	**22,270.46**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**22,270.46**

Cost Estimate for Installation of 11kV Lightning Arrester at Distribution Sub-Station

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
2	GI Flat 25X6 mm(1.18kg/mtr)	Kg	12	125.67	1,540.91
A				**Total Cost of materials**	**6,001.31**
B				**Stock, Storage & Insurance i.e 3%**	**180.04**
C				**Sub Total C=A+B**	**6,181.35**
D				**Contigency @ 3% of C**	**185.44**
E				**Tools & Plants @ 2% of C**	**123.63**
F				**Transportation @ 7.5% of C**	**463.60**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**618.14**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**7,572.15**
	Civil & Services				
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34

K	**Total Civil Part**	**862.34**
L	**Sub-Total L =J+K**	**8,434.50**
M	**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N	**Sub-Total N=L+M**	**8,434.50**
O	**CESS @ 1% of Sub-Total N**	**84.34**
P	**Inspection fees**	
Q	**Drawing approval**	
R	**Sub-Total R=N+O+P+Q**	**8,518.84**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**8,518.84**

Cost Estimate for Installation of DSS Earthing

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	EARTHING PIPE GI 3 MTR 40MM DIA	EA	1	1,509.70	1,509.70
2	8 SWG GI wire (4mm)-(Heavy)	Kg	0.60	125.67	75.15
3	GI Nut , Bolt & Washer of different sizes	Kg	0.5	130.70	65.35
4	GI Flat 25X3 mm(0.589kg/mtr)	Kg	19.80	123.92	2,454.01
A	**Total Cost of materials**				**4,104.22**
B	**Stock, Storage & Insurance i.e 3%**				**123.13**
C	**Sub Total C=A+B**				**4,227.34**
D	**Contigency @ 3% of C**				**126.82**
E	**Tools & Plants @ 2% of C**				**84.55**
F	**Transportation @ 7.5% of C**				**317.05**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				
H	**Erection Other @ 10%**				**422.73**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**5,178.50**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	1	4,130.00	4,130.00
	SITC of HDPE-25mm dia(Meter)	EA	20	86.23	1,724.69
K	**Total Civil Part**				**5,854.69**
L	**Sub-Total L =J+K**				**11,033.18**
M	**Other Over Head (Including Supervision charges)@ 6% of L**				**-**
N	**Sub-Total N=L+M**				**11,033.18**
O	**CESS @ 1% of Sub-Total N**				**110.33**
P	**Inspection fees**				
Q	**Drawing approval**				
R	**Sub-Total R=N+O+P+Q**				**11,143.52**

S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**11,143.52**

Cost Estimate for Construction of Plinth for (250-500KVA) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
	Civil & Services				
	Constr of TRF Plinth for upto 500KVA	EA	1.00	33,040.00	33,040.00
A	**Total Civil Part**				**33,040.00**
B	**Other Over Head (Including Supervision charges)@ 6% of A**				**-**
C	**Sub-Total C=A+B**				**33,040.00**
D	**CESS @ 1% of Sub-Total C**				**330.40**
E	**Inspection fees**				**-**
F	**Drawing approval**				**-**
G	**Sub-Total G=C+D+E+F**				**33,370.40**
H	**Add GST (Exempted) of Sub-Total**				**-**
I	**Grand Total**				**33,370.40**

Cost Estimate for Installation of 25KVA LT Distribution Box

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
2	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
3	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
4	LT Distribution Box with MCCB for 25KVA S/S	EA	1	25,016.71	25,016.71
5	1.1kV Al 1CX95 Sq.mm Cable -FRLSH	Mtr	16	113.47	1,815.50
6	Gland for 1.1kV Al 1CX95 Sq.mm Double Heavy Duty Ni Plated	EA	4	137.53	550.12
7	Lug AL Crimping 95 Sqmm XLPE Single hole	EA	4	29.51	118.05
8	8 SWG GI wire (4mm)-(Heavy)	Kg	0.5	125.67	65.85
9	GI Nut , Bolt & Washer of different sizes	Kg	2.4	130.70	313.67
10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
A	**Total Cost of materials**				**35,467.21**
B	**Stock, Storage & Insurance i.e 3%**				**1,064.02**
C	**Sub Total C=A+B**				**36,531.22**
D	**Contigency @ 3% of C**				**1,095.94**

E				**Tools & Plants @ 2% of C**	**730.62**
F				**Transportation @ 7.5% of C**	**2,739.84**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**3,653.12**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**44,750.75**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
K				**Total Civil Part**	**8,260.00**
L				**Sub-Total L =J+K**	**53,010.75**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**53,010.75**
O				**CESS @ 1% of Sub-Total N**	**530.11**
P				**Inspection fees**	**-**
Q				**Drawing approval**	**-**
R				**Sub-Total R=N+O+P+Q**	**53,540.86**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**53,540.86**

Cost Estimate for Installation of 63KVA LT Distribution Box

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
2	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
3	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
4	LT Distribution Box with MCCB for 63KVA S/S	EA	1	30,700.34	30,700.34
5	8 SWG GI wire (4mm)-(Heavy)	Kg	0.5	125.67	65.85
6	1.1kV Al 1CX95 Sq.mm Cable -FRLSH	Mtr	16	113.47	1,815.50
7	Gland for 1.1kV Al 1CX95 Sq.mm Double Heavy Duty Ni Plated	EA	4	137.53	550.12
8	Lug AL Crimping 95 Sqmm XLPE Single hole	EA	4	29.51	118.05
9	GI Nut , Bolt & Washer of different sizes	Kg	2.4	130.70	313.67
10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
A				**Total Cost of materials**	**41,150.84**
B				**Stock, Storage & Insurance i.e 3%**	**1,234.53**
C				**Sub Total C=A+B**	**42,385.37**

D				**Contigency @ 3% of C**	**1,271.56**
E				**Tools & Plants @ 2% of C**	**847.71**
F				**Transportation @ 7.5% of C**	**3,178.90**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**4,238.54**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**51,922.07**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
K				**Total Civil Part**	**8,260.00**
L				**Sub-Total L =J+K**	**60,182.07**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**60,182.07**
O				**CESS @ 1% of Sub-Total N**	**601.82**
P				**Inspection fees**	**-**
Q				**Drawing approval**	**-**
R				**Sub-Total R=N+O+P+Q**	**60,783.90**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**60,783.90**

Cost Estimate for Installation of 100KVA LT Distribution Box

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
2	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
3	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
4	LT Distribution Box with MCCB for 100KVA S/S	EA	1	40,916.48	40,916.48
5	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
6	1.1kV Al 1CX150 Sq.mm Cable -FRLSH	Mtr	18	183.28	3,211.68
7	Gland for 1.1kV Al 1CX150 Sq.mm Double Heavy Duty Ni Plated	EA	4	435.42	1,741.68
8	Lug AL Crimping 150 Sqmm XLPE Single hole	EA	4	19.23	76.94
9	GI Nut , Bolt & Washer of different sizes	Kg	2.4	130.70	313.67
10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
A				**Total Cost of materials**	**53,913.61**
B				**Stock, Storage & Insurance i.e 3%**	**1,617.41**

C				**Sub Total C=A+B**	**55,531.02**
D				**Contigency @ 3% of C**	**1,665.93**
E				**Tools & Plants @ 2% of C**	**1,110.62**
F				**Transportation @ 7.5% of C**	**4,164.83**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**5,553.10**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**68,025.50**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
K				**Total Civil Part**	**8,260.00**
L				**Sub-Total L =J+K**	**76,285.50**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**76,285.50**
O				**CESS @ 1% of Sub-Total N**	**762.85**
P				**Inspection fees**	**-**
Q				**Drawing approval**	**-**
R				**Sub-Total R=N+O+P+Q**	**77,048.35**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**77,048.35**

Cost Estimate for Installation of 250KVA LT Distribution Box

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
2	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
3	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
4	LT Distribution Box with MCCB for 250KVA S/S	EA	1	80,428.80	80,428.80
5	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
6	1.1kV Al 1CX300 Sq.mm Cable -FRLSH	Mtr	23	343.09	7,977.23
7	Gland for 1.1kV Al 1CX300 Sq.mm Double Compression Heavy Duty Ni Plated	EA	4	569.80	2,279.19
8	Lug AL Crimping 300 Sqmm XLPE Single hole	EA	4	64.23	256.91
9	GI Nut , Bolt & Washer of different sizes	Kg	2.4	130.70	313.67

10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
A				**Total Cost of materials**	**98,908.97**
B				**Stock, Storage & Insurance i.e 3%**	**2,967.27**
C				**Sub Total C=A+B**	**1,01,876.24**
D				**Contigency @ 3% of C**	**3,056.29**
E				**Tools & Plants @ 2% of C**	**2,037.52**
F				**Transportation @ 7.5% of C**	**7,640.72**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**10,187.62**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**1,24,798.39**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
	Const Plinth L.T. DB BOX for 250-500KVA	EA	1	8,260.00	8,260.00
K				**Total Civil Part**	**16,520.00**
L				**Sub-Total L =J+K**	**1,41,318.39**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**1,41,318.39**
O				**CESS @ 1% of Sub-Total N**	**1,413.18**
P				**Inspection fees**	**-**
Q				**Drawing approval**	**-**
R				**Sub-Total R=N+O+P+Q**	**1,42,731.58**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**1,42,731.58**

Cost Estimate for Installation of 315KVA LT Distribution Box

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
2	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
3	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
4	LT Distribution Box with MCCB for 315KVA S/S	EA	1	1,19,155.27	1,19,155.27
5	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
6	1.1kV Al 1CX300 Sq.mm Cable -FRLSH	Mtr	23	343.09	7,977.23
7	Gland for 1.1kV Al 1CX300 Sq.mm Double Compression Heavy Duty Ni Plated	EA	4	569.80	2,279.19
8	Lug AL Crimping 300 Sqmm XLPE Single hole	EA	4	64.23	256.91
9	GI Nut , Bolt & Washer of different sizes	Kg	2.4	130.70	313.67
10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
A				**Total Cost of materials**	**1,37,635.44**

B				**Stock, Storage & Insurance i.e 3%**	**4,129.06**
C				**Sub Total C=A+B**	**1,41,764.50**
D				**Contigency @ 3% of C**	**4,252.94**
E				**Tools & Plants @ 2% of C**	**2,835.29**
F				**Transportation @ 7.5% of C**	**10,632.34**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**14,176.45**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**1,73,661.51**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
	Const Plinth L.T. DB BOX for 250-500KVA	EA	1	8,260.00	8,260.00
K				**Total Civil Part**	**16,520.00**
L				**Sub-Total L =J+K**	**1,90,181.51**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**1,90,181.51**
O				**CESS @ 1% of Sub-Total N**	**1,901.82**
P				**Inspection fees**	**-**
Q				**Drawing approval**	**-**
R				**Sub-Total R=N+O+P+Q**	**1,92,083.33**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**1,92,083.33**

Cost Estimate for Installation of 500KVA LT Distribution Box

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
2	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
3	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
4	LT Distribution Box with MCCB for 500KVA S/S	EA	1	1,63,136.42	1,63,136.42
5	8 SWG GI wire (4mm)-(Heavy)	Kg	0.52	125.67	65.85
6	1.1kV Al 1CX630 Sq.mm Cable -FRLSH	Mtr	42	696.27	28,966.37
7	Gland for 1.1kV Al 1CX630 Sq.mm Double Compression Heavy Duty Ni Plated	EA	4	1,279.71	5,118.84
8	Lug AL Crimping 630 Sqmm XLPE Single hole	EA	4	157.40	629.60
9	GI Nut , Bolt & Washer of different sizes	Kg	2.4	130.70	313.67
10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
A				**Total Cost of materials**	**2,05,818.06**
B				**Stock, Storage & Insurance i.e 3%**	**6,174.54**
C				**Sub Total C=A+B**	**2,11,992.60**
D				**Contigency @ 3% of C**	**6,359.78**
E				**Tools & Plants @ 2% of C**	**4,239.85**
F				**Transportation @ 7.5% of C**	**15,899.45**

G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				
H				**Erection Other @ 10%**	**21,199.26**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**2,59,690.94**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
	Const Plinth L.T. DB BOX for 250-500KVA	EA	1	8,260.00	8,260.00
K				**Total Civil Part**	**16,520.00**
L				**Sub-Total L =J+K**	**2,76,210.94**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**2,76,210.94**
O				**CESS @ 1% of Sub-Total N**	**2,762.11**
P				**Inspection fees**	**-**
Q				**Drawing approval**	**-**
R				**Sub-Total R=N+O+P+Q**	**2,78,973.05**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**2,78,973.05**

Cost Estimate for Installation of 630KVA LT Distribution Box

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	49.86	125.67	6,265.91
2	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	17.11	125.67	2,149.80
3	Cable holding Clamp 50X6 for DT pole	Kg	11.46	125.67	1,440.20
4	LT ACB 400A	EA	4	62,776.00	2,51,104.00
5	8 SWG GI wire (4mm)-(Heavy)	Kg	1.05	125.67	131.70
6	1.1kV Al 1CX630 Sq.mm Cable -FRLSH	Mtr	40	696.27	27,850.83
7	Gland for 1.1kV Al 1CX630 Sq.mm Double Compression Heavy Duty Ni Plated	EA	24	1,279.71	30,713.04
8	Lug AL Crimping 630 Sqmm XLPE Single hole	EA	24	157.40	3,777.60
9	GI Nut , Bolt & Washer of different sizes	Kg	6.4	130.70	839.78
10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	4	1,509.70	6,038.82
A				**Total Cost of materials**	**3,30,311.68**
B				**Stock, Storage & Insurance i.e 3%**	**9,909.35**
C				**Sub Total C=A+B**	**3,40,221.03**
D				**Contigency @ 3% of C**	**10,206.63**

E				**Tools & Plants @ 2% of C**	**6,804.42**
F				**Transportation @ 7.5% of C**	**25,516.58**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**34,022.10**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**4,16,770.76**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	4	4,130.00	16,520.00
	Const Plinth L.T. DB BOX for 250-500KVA	EA	4	8,260.00	33,040.00
K				**Total Civil Part**	**49,560.00**
L				**Sub-Total L =J+K**	**4,66,330.76**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**4,66,330.76**
O				**CESS @ 1% of Sub-Total N**	**4,663.31**
P				**Inspection fees**	**-**
Q				**Drawing approval**	**-**
R				**Sub-Total R=N+O+P+Q**	**4,70,994.07**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**4,70,994.07**

Cost Estimate for River Crossing Infrastructure through NBLS Tower

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	GI Tower Structure	MT	6.70	1,58,214.82	10,59,523.55
2	GI Nut , Bolt & Washer of different sizes	Kg	160.77	130.70	21,012.12
3	Compression type double tension H/W fittings	Set	24	4,219.07	1,01,257.59
4	Earth wire tension fittings	Set	4	702.17	2,808.68
5	AAA conductor,232 mm2	Mtr	909	262.23	2,38,368.34
6	33KV Polymeric Disc Insulator 120KN B&S	EA	48	547.52	26,280.96
7	CLAMP PG FOR 232 SQMM AAA COND	EA	24	1,926.94	46,246.56
8	EARTHING PIPE GI 3 MTR 40MM DIA	EA	4	1,509.70	6,038.82
9	GI Flat 50X6 mm(2.36kg/mtr)	Kg	200	125.67	25,134.00
10	Danger Plate for Tower Structure	EA	4	301.36	1,205.44
A				**Total Cost of materials**	**15,27,876.07**
B				**Stock, Storage & Insurance i.e 3%**	**45,836.28**
C				**Sub Total C=A+B**	**15,73,712.35**

D				**Contigency @ 3% of C**	**47,211.37**
E				**Tools & Plants @ 2% of C**	**31,474.25**
F				**Transportation @ 7.5% of C**	**1,18,028.43**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**48,240.31**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**18,18,666.70**
	Civil & Services				
	Survey of plotting, spotting and marking	EA	2	6,774.85	13,549.70
	Soil investigation Tower/River Crossing	EA	2	35,400.00	70,800.00
	Erection of NBLS Tower Super Structure including tighting,punching & with transporttation etc.%_1	Set	2	50,278.49	1,00,556.98
	SITC of Anticlimbing device for Tower	EA	2	4,425.00	8,850.00
	SITC of Tower Plate Number	EA	2	580.56	1,161.12
	SITC of Tower Circuit plate	EA	2	542.80	1,085.60
	SITC of phase plate (R,Y and B)	EA	12	462.56	5,550.72
	SITC of Copper Earth bond	EA	2	653.72	1,307.44
	SITC of Earth wire (Size 7/3.25mm)	KM	0.35	1,28,620.00	45,017.00
	String -Tower 261/232/200 sqmm AAAC/ACSR	M	909	76.70	69,720.30
	SITC of Vibration Damper	EA	24	826.00	19,824.00
	SITC of Vibration Damper for earth wire	EA	2	767.00	1,534.00
	SITC of poly carbonated Bird gurad	EA	24	1,067.00	25,608.08
	Earth Work-excluding hard roack	CUM	264	413.00	1,09,032.00
	Earth Work-hard roack	CUM	176	1,327.72	2,33,679.46
	Backfilling with same earth	CUM	352	259.60	91,379.20
	PCC 1:3:6	CUM	2.2	6,192.01	13,622.43
	Laying PCC M15	CUM	2	7,670.00	15,340.00
	RCC M20 (Foundation & Plinth)	CUM	88	8,614.00	7,58,032.00
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	4	4,130.00	16,520.00
K				**Total Civil Part**	**16,02,170.03**
L				**Sub-Total L =J+K**	**34,20,836.73**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**34,20,836.73**
O				**CESS @ 1% of Sub-Total N**	**34,208.37**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**34,55,045.10**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**34,55,045.10**

Cost Estimate for 33kV River Crossing Infrastructure through Four Pole Structure					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	EA	12	43,236.68	5,18,840.10
2	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	657.73	125.67	82,656.68
3	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	Kg	491.23	125.67	61,733.13
4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	354.74	125.67	44,580.68
5	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	21.15	125.67	2,657.37
6	Danger Plate, 33kV	EA	8	134.05	1,072.38
7	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	5.29	125.67	664.40
8	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	24	134.05	3,217.15
9	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	10.57	125.67	1,328.80
10	33kV,10kN pin insulator polymer	EA	6	804.29	4,825.73
11	Disc Insulator Hardware Fittings (90KN) B&S	Set	6	837.80	5,026.80
12	33KV Polymeric Disc Insulator 90KN B&S	EA	6	1,926.94	11,561.64
13	Coil Earthing	EA	12	278.15	3,337.80
14	8 SWG GI wire (4mm)-(Heavy)	Kg	3.14	125.67	395.11
15	HT Stay Clamp Type-A for WPB Pole	Pair	16	331.77	5,308.30
16	CLAMP PG FOR 148 SQMM AAA COND	EA	6	1,038.87	6,233.23
17	GI Nut , Bolt & Washer of different sizes	Kg	52.1	130.70	6,812.44
18	AAA conductor,148 mm2	Mtr	303.0	137.40	41,631.96
19	EARTHING PIPE GI 3 MTR 40MM DIA	EA	2	1,509.70	3,019.41
20	GI Flat 50X6 mm(2.36kg/mtr)	Kg	16	125.67	2,010.72
21	Black Paint	Ltr	4	368.63	1,474.53
22	Yellow Colour Paint for Background	Ltr	8	251.07	2,008.55
A				**Total Cost of materials**	**8,10,396.89**
B				**Stock, Storage & Insurance i.e 3%**	**24,311.91**
C				**Sub Total C=A+B**	**8,34,708.80**
D				**Contigency @ 3% of C**	**25,041.26**
E				**Tools & Plants @ 2% of C**	**16,694.18**
F				**Transportation @ 7.5% of C**	**62,603.16**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**26,720.27**
H				**Erection Other @ 10%**	**30,030.35**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**9,95,798.01**
	Civil & Services				

	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	EA	8	4,315.10	34,520.83
	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	EA	8	931.67	7,453.36
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Dismantling of RSJ/ WPB pole(150x150mm/R	EA	4	1,534.00	6,136.00
	Dismantling /Removal from single pole	EA	4	157.14	628.56
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	2	4,130.00	8,260.00
K				**Total Civil Part**	**63,275.27**
L				**Sub-Total L =J+K**	**10,59,073.28**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**10,59,073.28**
O				**CESS @ 1% of Sub-Total N**	**10,590.73**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**10,69,664.01**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**10,69,664.01**

Cost Estimate for River Crossing Infrastructure through UR+6 Tower

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	GI Tower Structure	MT	35.64	1,58,214.82	56,38,652.95
2	GI Nut , Bolt & Washer of different sizes	Kg	975.26	130.70	1,27,463.62
3	Single Tension H/W	Set	12	1,884.07	22,608.85
4	Compression type double tension H/W fittings	Set	24	4,219.07	1,01,257.59
5	Earth wire tension fittings	Set	4	702.17	2,808.68
6	261.5 sqmm conductor (ACSR)	Mtr	1515	165.14	2,50,188.62
7	33KV Polymeric Disc Insulator 120KN B&S	EA	48	547.52	26,280.96
8	EARTHING PIPE GI 3 MTR 40MM DIA	EA	4	1,509.70	6,038.82
9	GI Flat 50X6 mm(2.36kg/mtr)	Kg	20	125.67	2,513.40
10	Loop Connector	EA	24	753.41	18,081.75
11	Danger Plate for Tower Structure	EA	8	301.36	2,410.88
A				**Total Cost of materials**	**61,98,306.12**
B				**Stock, Storage & Insurance i.e 3%**	**1,85,949.18**
C				**Sub Total C=A+B**	**63,84,255.30**
D				**Contigency @ 3% of C**	**1,91,527.66**
E				**Tools & Plants @ 2% of C**	**1,27,685.11**
F				**Transportation @ 7.5% of C**	**4,78,819.15**

G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				
H	**Erection Other @ 10%**				**31,874.85**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**72,14,162.07**
	Civil & Services				
	Survey of plotting, spotting and marking	EA	2	6,774.85	13,549.70
	Soil investigation Tower/River Crossing	EA	2	35,400.00	70,800.00
	Erection of UR + 6 Tower Super Structure including tighting,punching & with transporttation etc.% 1	Set	2	1,07,402.02	2,14,804.04
	SITC of Anticlimbing device for Tower	EA	2	4,425.00	8,850.00
	SITC of Tower Plate Number	EA	2	580.56	1,161.12
	SITC of Tower Circuit plate	EA	2	542.80	1,085.60
	SITC of phase plate (R,Y and B)	EA	12	462.56	5,550.72
	SITC of Copper Earth bond	EA	2	653.72	1,307.44
	SITC of Earth wire (Size 7/3.25mm)	KM	0.9	1,28,620.00	1,15,758.00
	String -Tower 261/232/200 sqmm AAAC/ACSR	M	1515	76.70	1,16,200.50
	SITC of Vibration Damper	EA	6	826.00	4,956.00
	SITC of Vibration Damper for earth wire	EA	2	767.00	1,534.00
	SITC of poly carbonated Bird gurad	EA	6	1,067.00	6,402.02
	Earth Work-excluding hard roack	CUM	1208.43	413.00	4,99,081.59
	Earth Work-hard roack	CUM	805.62	1,327.72	10,69,641.17
	Backfilling with same earth	CUM	1611.24	259.60	4,18,277.90
	SITC of HYSD Bar	TON	1.22	1,29,800.00	1,58,356.00
	PCC 1:3:6	CUM	22	6,192.01	1,36,224.32
	Dewatering pump bet 5HP / 10 HP shift	Day	30	2,302.99	69,089.83
	Centring and shuttering incl. strut	SQ.MM	480.84	363.31	1,74,694.08
	Provid matls / Shoring up to 2.5M	SQ.MM	480.84	1,094.77	5,26,408.53
	Transportation (Head-Loading)	Mtr	4000	327.33	13,09,328.00
	Boring with Steel Liner Casing	Mtr	512	5,310.00	27,18,720.00
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	4	4,130.00	16,520.00
K	**Total Civil Part**				**76,58,300.56**
L	**Sub-Total L =J+K**				**1,48,72,462.63**
M	**Other Over Head (Including Supervision charges)@ 6% of L**				**-**
N	**Sub-Total N=L+M**				**1,48,72,462.63**
O	**CESS @ 1% of Sub-Total N**				**1,48,724.63**
P	**Inspection Fees**				
Q	**Drawing Approval**				
R	**Sub-Total R=N+O+P+Q**				**1,50,21,187.25**

S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**1,50,21,187.25**

Cost Estimate for Power Transformer Augmentation to 8MVA					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST(In Rs.)**	**Amount(In Rs.)**
1	33/11kV , 8 MVA Power Transformer	EA	1	1,24,52,800.00	1,24,52,800.00
2	125x70x5 mm RS GI joist 5Mtr 13.3kg/Mtr	EA	4	8,357.06	33,428.22
3	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	100	2,802.00	2,80,200.44
4	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	EA	6	23,297.54	1,39,785.25
5	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(indoor type)	EA	6	16,055.60	96,333.60
6	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	250	125.67	31,417.50
7	11KV, 10KA Lightening Arrester Polymer SL(Class-II)	EA	9	6,490.00	58,410.00
8	AAA conductor,232 mm2	Mtr	25	262.23	6,555.79
9	GI Nut , Bolt & Washer of different sizes	Kg	100	130.70	13,069.68
10	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
11	GI Flat 50X6 mm(2.36kg/mtr)	Kg	198.24	125.67	24,912.82
A				**Total Cost of materials**	**1,31,47,481.22**
B				**Stock, Storage & Insurance i.e 3%**	**3,94,424.44**
C				**Sub Total C=A+B**	**1,35,41,905.66**
D				**Contigency @ 3% of C**	**4,06,257.17**
E				**Tools & Plants @ 2% of C**	**2,70,838.11**
F				**Transportation @ 7.5% of C**	**10,15,642.92**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**6,41,319.20**
H				**Erection Other @ 10%**	**42,691.52**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**1,59,18,654.59**
	Civil & Services				
	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	100	129.80	12,980.00
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	SITC of T Connect-for moose to zebraCond	EA	18	1,583.93	28,510.66
	SITC of CU Flat 50X6	Mtr	30	2,751.76	82,552.80
	Demolish/removal of debris of PCC	CUM	20	907.07	18,141.32
	Dismantling of PTR Above 5 to12.5MVA	EA	1	1,29,800.00	1,29,800.00
	Transport through Tractor upto 40KM	EA	1	5,090.00	5,090.00

	Marching of Farrana/Crane beyond 50 KM	KM	20	1,963.52	39,270.40
	Construction of Baffle Wall	EA	1	6,45,591.49	6,45,591.49
	Construction of Oil Sump Pit for Power Transformer	EA	1	1,28,981.49	1,28,981.49
	Construction of Foundation for Power Transformer 8MVA	EA	1	5,55,621.28	5,55,621.28
	Gravel spreading over Bay/GSS/other	CUM	18	3,540.00	63,720.00
K				**Total Civil Part**	**17,39,169.44**
L				**Sub-Total L =J+K**	**1,76,57,824.03**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**1,76,57,824.03**
O				**CESS @ 1% of Sub-Total N**	**1,76,578.24**
P				**Inspection fees**	**15,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**1,78,50,152.27**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**1,78,50,152.27**

Cost Estimate for Power Transformer Augmentation to 5MVA

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	33/11kV , 5MVA Power Transformer	EA	1	72,28,680.00	72,28,680.00
2	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	300	2,802.00	8,40,601.32
3	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	EA	6	23,297.54	1,39,785.25
4	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(indoor type)	EA	6	16,055.60	96,333.60
5	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	Kg	250	125.67	31,417.50
6	AAA conductor,232 mm2	Mtr	25	262.23	6,555.79
7	GI Nut , Bolt & Washer of different sizes	Kg	100	130.70	13,069.68
8	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
9	GI Flat 50X6 mm(2.36kg/mtr)	Kg	198.24	125.67	24,912.82
A				**Total Cost of materials**	**83,91,923.88**
B				**Stock, Storage & Insurance i.e 3%**	**2,51,757.72**
C				**Sub Total C=A+B**	**86,43,681.60**
D				**Contigency @ 3% of C**	**2,59,310.45**
E				**Tools & Plants @ 2% of C**	**1,72,873.63**

F				**Transportation @ 7.5% of C**	**6,48,276.12**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**3,72,277.02**
H				**Erection Other @ 10%**	**33,232.18**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**1,01,29,651.00**
	Civil & Services				
	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	300	129.80	38,940.00
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Demolish/removal of debris of PCC	CUM	20	907.07	18,141.32
	Dismantling of PTR upto 5MVA	EA	1	88,500.00	88,500.00
	Transport through Tractor upto 40KM	EA	1	5,090.00	5,090.00
	Construction of Baffle Wall	EA	1	6,45,591.49	6,45,591.49
	Construction of Oil Sump Pit for Power Transformer	EA	1	1,28,981.49	1,28,981.49
	Construction of Foundation for Power Transformer 5MVA	EA	1	2,18,273.03	2,18,273.03
	Gravel spreading over Bay/GSS/other	CUM	18	3,540.00	63,720.00
K				**Total Civil Part**	**12,36,147.33**
L				**Sub-Total L =J+K**	**1,13,65,798.33**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**1,13,65,798.33**
O				**CESS @ 1% of Sub-Total N**	**1,13,657.98**
P				**Inspection fees**	**15,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**1,14,95,206.31**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**1,14,95,206.31**

Cost Estimate for Installation of New Power Transformer 8MVA

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	33/11kV , 8 MVA Power Transformer	EA	1	1,24,52,800.00	1,24,52,800.00
2	125x70x5 mm RS GI joist 5Mtr 13.3kg/Mtr	EA	4	8,357.06	33,428.22
3	Top Channel 100X50X5mm, each channel length 4.3 Mtr	Kg	164.432	125.67	20,664.17
4	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	Kg	88.686	125.67	11,145.17

5	33kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	30	3,735.00	1,12,049.85
6	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(outdoor type)	EA	2	55,722.08	1,11,444.16
7	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(Indoor type)	EA	2	34,354.83	68,709.65
8	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	30	2,802.00	84,060.13
9	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	EA	2	23,297.54	46,595.08
10	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(indoor type)	EA	2	16,055.60	32,111.20
11	33kV 1250 Amp Outdoor VCB	EA	1	3,11,082.31	3,11,082.31
12	LA-33KV,10KA-CL-III WITH SURGE COUNTER	EA	6	13,376.00	80,255.98
13	11KV, 10KA Lightening Arrester Polymer SL(Class-II)	EA	6	6,490.00	38,940.00
14	11kV 1250 Amp Outdoor VCB	EA	1	2,30,568.96	2,30,568.96
15	ISOLATOR 33KV 1250A MOT DOUB BRK W/ES	SET	1	1,19,949.36	1,19,949.36
16	11KV 630 AMP DBCR ISOLATOR W/O ES	EA	2	34,607.04	69,214.08
17	CT 33KV 1P OILCOOLED 800-400-200/1-1-1 A	EA	3	45,917.17	1,37,751.52
18	CT 11KV OIL COOL 800-400-200/1-1-1A, 0.5	EA	3	37,974.76	1,13,924.28
19	4 Core x 2.5 mm2 -FRLSH	Mtr	100	187.67	18,766.72
20	7 Core x 2.5 mm2 -FRLSH	Mtr	75	304.96	22,871.94
21	10 Core x 2.5 mm2 -FRLSH	Mtr	50	432.30	21,615.24
22	12 Core x 2.5 mm2 -FRLSH	Mtr	50	407.01	20,350.28
23	16 Core x 2.5 mm2	Mtr	50	524.00	26,200.13
24	CLAMP PG FOR 232 SQMM AAA COND	EA	12	1,926.94	23,123.28
25	AAA conductor,232 mm2	Mtr	100	262.23	26,223.14
26	GI Nut , Bolt & Washer of different sizes	Kg	94	130.70	12,255.38
27	EARTHING PIPE GI 3 MTR 40MM DIA	EA	10	1,509.70	15,097.04
28	GI Flat 75X10 mm(5.89kg/mtr)	Kg	2400	94.12	2,25,880.32
29	GI Flat 50X6 mm(2.36kg/mtr)	Kg	250	125.67	31,417.50
A				**Total Cost of materials**	**1,45,18,495.10**
B				**Stock, Storage & Insurance i.e 3%**	**4,35,554.85**
C				**Sub Total C=A+B**	**1,49,54,049.95**
D				**Contigency @ 3% of C**	**4,48,621.50**
E				**Tools & Plants @ 2% of C**	**2,99,081.00**
F				**Transportation @ 7.5% of C**	**11,21,553.75**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**6,69,214.24**
H				**Erection Other @ 10%**	**1,36,777.19**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**1,76,29,297.62**
	Civil & Services				

	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	10	4,130.00	41,300.00
	SITC of Transformer CRP (33Kv) (Outdoor Type)	EA	1	4,36,677.83	4,36,677.83
	SITC of Transformer CRP (11Kv) (Outdoor Type)	EA	1	3,69,096.74	3,69,096.74
	SITC of T ConnectFor wolf to pantherCond	EA	18	1,583.93	28,510.66
	SITC-Pad clmp25m stud CT/PT/PTR/ISTR	EA	18	882.32	15,881.79
	SITC of CU Flat 50X6	Mtr	30	2,751.76	82,552.80
	LAY CBL XLPE 33KV TREN/PIPE	Mtr	30	135.70	4,071.00
	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	30	129.80	3,894.00
	Demolish/removal of debris of PCC	CUM	20	907.07	18,141.32
	Transport through Tractor upto 40KM	EA	1	5,090.00	5,090.00
	Marching of Farrana/Crane beyond 50 KM	KM	20	1,963.52	39,270.40
	Construction of Baffle Wall	EA	1	6,45,591.49	6,45,591.49
	Construction of Oil Sump Pit for Power Transformer	EA	1	1,28,981.49	1,28,981.49
	Construction of Foundation for Power Transformer 8MVA	EA	1	5,55,621.28	5,55,621.28
	Gravel spreading over Bay/GSS/other	CUM	18	3,540.00	63,720.00
	Laying of cable trench with supply of GI Cable Trench material & all Civil works	Mtr	5	2,26,265.00	11,31,325.00
1.1	**VCB Foundation**				
	Earth Work-excluding hard roack	CUM	43.68	413.00	18,039.84
	Backfilling with same earth	CUM	24	259.60	6,230.40
	Sand Work	CUM	2.04	1,207.02	2,462.32
	PCC 1:3:6	CUM	2.73	6,192.01	16,904.20
	Laying PCC M20	CUM	16.95	7,845.64	1,32,983.65
	Centring and shuttering incl. strut	SQ.MM	615.78	363.31	2,23,719.15
	Reinforce RCCwork includ straight etc.	Kg	840	131.56	1,10,508.89
1.2	**CT & PT Foundation**				
	Earth Work-excluding hard roack	CUM	47.82	413.00	19,749.66
	Backfilling with same earth	CUM	27	259.60	7,009.20
	Sand Work	CUM	2.18	1,207.02	2,631.31
	PCC 1:3:6	CUM	2.18	6,192.01	13,498.59
	Laying PCC M20	CUM	14.18	7,845.64	1,11,251.22
	Centring and shuttering incl. strut	SQ.MM	89.64	363.31	32,567.13
	Reinforce RCCwork includ straight etc.	Kg	734.58	131.56	96,640.02
K				**Total Civil Part**	**43,63,921.39**
L				**Sub-Total L =J+K**	**2,19,93,219.01**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**2,19,93,219.01**
O				**CESS @ 1% of Sub-Total N**	**2,19,932.19**
P				**Inspection fees**	**15,000.00**

Q	**Drawing approval**	**750.00**
R	**Sub-Total R=N+O+P+Q**	**2,22,28,901.20**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**2,22,28,901.20**

Cost Estimate for Under-Ground Cabling 11KV,3CX400 Sq.mm by HDD Method with Spare

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	1020	2,802.00	28,58,044.49
2	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	EA	4	23,297.54	93,190.17
3	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(Straight type)	EA	3	42,421.17	1,27,263.50
4	PIPE HDPE 160 MM DIA PE80-PN8	Mtr	1020	724.35	7,38,841.90
A	**Total Cost of materials**				**38,17,340.05**
B	**Stock, Storage & Insurance i.e 3%**				**1,14,520.20**
C	**Sub Total C=A+B**				**39,31,860.25**
D	**Contigency @ 3% of C**				**1,17,955.81**
E	**Tools & Plants @ 2% of C**				**78,637.21**
F	**Transportation @ 7.5% of C**				**2,94,889.52**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				
H	**Erection Other @ 10%**				**22,706.73**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**44,46,049.51**
	Civil & Services				
	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	1020	129.80	1,32,396.00
	Trenchless Duct UPTO 200mm dia	Mtr	1010	1,867.26	18,85,928.16
	Supply and Install of cable Route marker	EA	17	1,221.50	20,765.51
	Detail GPS and GPR Survey	KM	0.5	12,464.27	6,232.13
	SITC of OFC-24 F in joint chamber/loop	EA	3	14,160.00	42,480.00
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	6,177.30
K	**Total Civil Part**				**20,93,979.10**
L	**Sub-Total L =J+K**				**65,40,028.61**
M	**Other Over Head (Including Supervision charges)@ 6% of L**				**-**
N	**Sub-Total N=L+M**				**65,40,028.61**

O	**CESS @ 1% of Sub-Total N**	**65,400.29**
P	**Inspection fees**	**250.00**
Q	**Drawing approval**	**750.00**
R	**Sub-Total R=N+O+P+Q**	**66,06,428.90**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**66,06,428.90**

Cost Estimate for Under-Ground Cabling 11KV,3CX400 Sq.mm by Open Trench Method with Spare

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	1020	2,802.00	28,58,044.49
2	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	EA	4	23,297.54	93,190.17
3	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(Straight type)	EA	3	42,421.17	1,27,263.50
4	PIPE HDPE 160 MM DIA PE80-PN8	Mtr	1020	724.35	7,38,841.90
A	**Total Cost of materials**				**38,17,340.05**
B	**Stock, Storage & Insurance i.e 3%**				**1,14,520.20**
C	**Sub Total C=A+B**				**39,31,860.25**
D	**Contigency @ 3% of C**				**1,17,955.81**
E	**Tools & Plants @ 2% of C**				**78,637.21**
F	**Transportation @ 7.5% of C**				**2,94,889.52**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				
H	**Erection Other @ 10%**				**22,706.73**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**44,46,049.51**
	Civil & Services				
	LAY CBL XLPE 33KV TREN/PIPE	Mtr	1020	135.70	1,38,414.00
	Laying of HDPE from size 110mm to 200mm	Mtr	1020	230.10	2,34,702.00
	Earth Work-excluding hard roack	CUM	571	413.00	2,35,905.60
	Earth Work-hard roack	CUM	245	1,327.72	3,25,026.88
	Backfilling with same earth	CUM	653	259.60	1,69,466.88
	Road Restoration (Bituminous portion) . Cutting road and making good the same including supply of extra quantities of materials i.e. stone aggregate, moorum screening, red bajri, bitumen and labour required.	CUM	171	5,024.59	8,61,014.33
	Supply and Install of cable Route marker	EA	17	1,221.50	20,765.51
	Detail GPS and GPR Survey	KM	0.5	12,464.27	6,232.13

	SITC of OFC-24 F in joint chamber/loop	EA	4	14,160.00	56,640.00
	Red colour LDPE warning tape	Mtr	1000	36.20	36,202.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	0.5	12,354.60	6,177.30
K				**Total Civil Part**	**20,90,547.03**
L				**Sub-Total L =J+K**	**65,36,596.54**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**65,36,596.54**
O				**CESS @ 1% of Sub-Total N**	**65,365.97**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**66,02,962.51**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**66,02,962.51**

Cost Estimate for NH/SH/Railway Crossing with 33KV,3CX400 Sq.mm by HDD Method

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	33kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	240	3,735.00	8,96,398.80
2	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(outdoor type)	EA	4	55,722.08	2,22,888.31
3	PIPE HDPE 200 MM DIA PN8 PE 80	Mtr	240	1,013.34	2,43,200.83
A				**Total Cost of materials**	**13,62,487.94**
B				**Stock, Storage & Insurance i.e 3%**	**40,874.64**
C				**Sub Total C=A+B**	**14,03,362.58**
D				**Contigency @ 3% of C**	**42,100.88**
E				**Tools & Plants @ 2% of C**	**28,067.25**
F				**Transportation @ 7.5% of C**	**1,05,252.19**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**22,957.50**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**16,01,740.40**
	Civil & Services				
	LAY CBL XLPE 33KV TREN/PIPE	Mtr	240	135.70	32,568.00
	Trenchless Duct UPTO 200mm dia	Mtr	220	1,867.26	4,10,796.23
	Supply and Install of cable Route marker	EA	2	1,221.50	2,443.00
	SITC of OFC-24 F in joint chamber/loop	EA	2	14,160.00	28,320.00

	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	1,235.46	1,235.46
K				**Total Civil Part**	**4,75,362.69**
L				**Sub-Total L =J+K**	**20,77,103.09**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**20,77,103.09**
O				**CESS @ 1% of Sub-Total N**	**20,771.03**
P				**Inspection fees**	**2,000.00**
Q				**Drawing approval fees**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**21,00,624.13**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**21,00,624.13**

Cost Estimate for NH/SH/Railway Crossing with 11KV,3CX400 Sq.mm by HDD Method

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	240	2,802.00	6,72,481.06
2	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	EA	4	23,297.54	93,190.17
3	PIPE HDPE 160 MM DIA PE80-PN8	Mtr	240	724.35	1,73,845.15
A				**Total Cost of materials**	**9,39,516.38**
B				**Stock, Storage & Insurance i.e 3%**	**28,185.49**
C				**Sub Total C=A+B**	**9,67,701.87**
D				**Contigency @ 3% of C**	**29,031.06**
E				**Tools & Plants @ 2% of C**	**19,354.04**
F				**Transportation @ 7.5% of C**	**72,577.64**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**9,598.59**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**10,98,263.19**
	Civil & Services				
	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	240	129.80	31,152.00
	Trenchless Duct UPTO 200mm dia	Mtr	220	1,867.26	4,10,796.23
	Supply and Install of cable Route marker	EA	2	1,221.50	2,443.00
	SITC of OFC-24 F in joint chamber/loop	EA	2	14,160.00	28,320.00

	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	1,235.46	1,235.46
K				**Total Civil Part**	**4,73,946.69**
L				**Sub-Total L =J+K**	**15,72,209.88**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**15,72,209.88**
O				**CESS @ 1% of Sub-Total N**	**15,722.10**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**15,88,931.98**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**15,88,931.98**

Cost Estimate for Under-Ground Cabling 33KV,3CX400 Sq.mm by HDD Method with Spare

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	33kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	1020	3,735.00	38,09,694.90
2	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(outdoor type)	EA	4	55,722.08	2,22,888.31
3	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(Straight type)	EA	3	1,14,936.11	3,44,808.32
4	PIPE HDPE 200 MM DIA PN8 PE 80	Mtr	1020	1,013.34	10,33,603.54
A				**Total Cost of materials**	**54,10,995.07**
B				**Stock, Storage & Insurance i.e 3%**	**1,62,329.85**
C				**Sub Total C=A+B**	**55,73,324.92**
D				**Contigency @ 3% of C**	**1,67,199.75**
E				**Tools & Plants @ 2% of C**	**1,11,466.50**
F				**Transportation @ 7.5% of C**	**4,17,999.37**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**58,472.75**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**63,28,463.29**
	Civil & Services				
	LAY CBL XLPE 33KV TREN/PIPE	Mtr	1020	135.70	1,38,414.00
	Trenchless Duct UPTO 200mm dia	Mtr	1010	1,867.26	18,85,928.16
	Supply and Install of cable Route marker	EA	17	1,221.50	20,765.51

	SITC of OFC-24 F in joint chamber/loop	EA	3	14,160.00	42,480.00
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	6,177.30
K				**Total Civil Part**	**20,93,764.97**
L				**Sub-Total L =J+K**	**84,22,228.25**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**84,22,228.25**
O				**CESS @ 1% of Sub-Total N**	**84,222.28**
P				**Inspection fees**	**2,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**85,09,200.54**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**85,09,200.54**

Cost Estimate for Under-Ground Cabling 33KV,3CX400 Sq.mm by Open Trench Method with Spare

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	33kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	1020	3,735.00	38,09,694.90
2	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(outdoor type)	EA	4	55,722.08	2,22,888.31
3	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(Straight type)	EA	3	1,14,936.11	3,44,808.32
4	PIPE HDPE 200 MM DIA PN8 PE 80	Mtr	1020	1,013.34	10,33,603.54
A				**Total Cost of materials**	**54,10,995.07**
B				**Stock, Storage & Insurance i.e 3%**	**1,62,329.85**
C				**Sub Total C=A+B**	**55,73,324.92**
D				**Contigency @ 3% of C**	**1,67,199.75**
E				**Tools & Plants @ 2% of C**	**1,11,466.50**
F				**Transportation @ 7.5% of C**	**4,17,999.37**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**58,472.75**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**63,28,463.29**
	Civil & Services				
	LAY CBL XLPE 33KV TREN/PIPE	Mtr	1020	135.70	1,38,414.00
	Laying of HDPE from size 110mm to 200mm	Mtr	1020	230.10	2,34,702.00

	Earth Work-excluding hard roack	CUM	685	413.00	2,83,086.72
	Earth Work-hard roack	CUM	294	1,327.72	3,90,032.26
	Backfilling with same earth	CUM	783	259.60	2,03,360.26
	Road Restoration (Bituminous portion) . Cutting road and making good the same including supply of extra quantities of materials i.e. stone aggregate, moorum screening, red bajri, bitumen and labour required.	CUM	206	5,024.59	10,33,217.19
	Supply and Install of cable Route marker	EA	17	1,221.50	20,765.51
	Detail GPS and GPR Survey	KM	0.5	12,464.27	6,232.13
	SITC of OFC-24 F in joint chamber/loop	EA	3	14,160.00	42,480.00
	Red colour LDPE warning tape	Mtr	1000	36.20	36,202.40
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	6,177.30
K				**Total Civil Part**	**23,94,669.77**
L				**Sub-Total L =J+K**	**87,23,133.06**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**87,23,133.06**
O				**CESS @ 1% of Sub-Total N**	**87,231.33**
P				**Inspection fees**	**2,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**88,13,114.39**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**88,13,114.39**

Cost Estimate for Under-Ground Cabling 33KV,3CX400 Sq.mm by HDD Method

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	33kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	1020	3,735.00	38,09,694.90
2	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(outdoor type)	EA	2	55,722.08	1,11,444.16
3	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(Straight type)	EA	3	1,14,936.11	3,44,808.32
4	PIPE HDPE 200 MM DIA PN8 PE 80	Mtr	1020	1,013.34	10,33,603.54
A				**Total Cost of materials**	**52,99,550.91**
B				**Stock, Storage & Insurance i.e 3%**	**1,58,986.53**
C				**Sub Total C=A+B**	**54,58,537.44**
D				**Contigency @ 3% of C**	**1,63,756.12**
E				**Tools & Plants @ 2% of C**	**1,09,170.75**

F	**Transportation @ 7.5% of C**				**4,09,390.31**
G	**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**				
H	**Erection Other @ 10%**				**46,994.00**
I	**Erection PSC Pole @ 20%**				
J	**Sub Total J=C+D+E+F+G+H+I**				**61,87,848.62**
	Civil & Services				
	LAY CBL XLPE 33KV TREN/PIPE	Mtr	1020	135.70	1,38,414.00
	Trenchless Duct UPTO 200mm dia	Mtr	1000	1,867.26	18,67,255.60
	Supply and Install of cable Route marker	EA	33	1,221.50	40,309.52
	Detail GPS and GPR Survey	KM	1.0	12,464.27	12,464.27
	SITC of OFC-24 F in joint chamber/loop	EA	3	14,160.00	42,480.00
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K	**Total Civil Part**				**21,13,277.99**
L	**Sub-Total L =J+K**				**83,01,126.61**
M	**Other Over Head (Including Supervision charges)@ 6% of L**				**-**
N	**Sub-Total N=L+M**				**83,01,126.61**
O	**CESS @ 1% of Sub-Total N**				**83,011.27**
P	**Inpection Fees**				**2,000.00**
Q	**Drawing approval**				**750.00**
R	**Sub-Total R=N+O+P+Q**				**83,86,887.88**
S	**Add GST (Exempted) of Sub-Total**				**-**
T	**Grand Total**				**83,86,887.88**

Cost Estimate for Under-Ground Cabling 11KV,3CX400 Sq.mm by HDD Method

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	1020	2,802.00	28,58,044.49
2	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	EA	2	23,297.54	46,595.08
3	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(Straight type)	EA	3	42,421.17	1,27,263.50
4	PIPE HDPE 160 MM DIA PE80-PN8	Mtr	1020	724.35	7,38,201.05
A	**Total Cost of materials**				**37,70,104.12**
B	**Stock, Storage & Insurance i.e 3%**				**1,13,103.12**
C	**Sub Total C=A+B**				**38,83,207.24**
D	**Contigency @ 3% of C**				**1,16,496.22**
E	**Tools & Plants @ 2% of C**				**77,664.14**

F				**Transportation @ 7.5% of C**	**2,91,240.54**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**17,907.43**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**43,86,515.58**
	Civil & Services				
	LAY CBL PWR XLPE 11KV TREN/PIPE	Mtr	1020	129.80	1,32,396.00
	Trenchless Duct UPTO 200mm dia	Mtr	1000	1,867.26	18,67,255.60
	Supply and Install of cable Route marker	EA	33	1,221.50	40,309.52
	Detail GPS and GPR Survey	KM	1.0	12,464.27	12,464.27
	SITC of OFC-24 F in joint chamber/loop	EA	3	14,160.00	42,480.00
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**21,07,259.99**
L				**Sub-Total L =J+K**	**64,93,775.57**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**64,93,775.57**
O				**CESS @ 1% of Sub-Total N**	**64,937.76**
P				**Inpection Fees**	**1,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**65,60,463.33**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**65,60,463.33**

Cost Estimate for Re-installation of dismantled Power Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	Transformer Monitoring Unit	EA	1	4,83,133.25	4,83,133.25
2	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
3	GI Flat 50X6 mm(2.36kg/mtr)	Kg	198.24	125.67	24,912.82
A				**Total Cost of materials**	**5,18,614.00**
B				**Stock, Storage & Insurance i.e 3%**	**15,558.42**
C				**Sub Total C=A+B**	**5,34,172.42**
D				**Contigency @ 3% of C**	**16,025.17**
E				**Tools & Plants @ 2% of C**	**10,683.45**
F				**Transportation @ 7.5% of C**	**40,062.93**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**53,417.24**

I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**6,54,361.21**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Demolish/removal of debris of PCC	CUM	20	907.07	18,141.32
	Dismantling of PTR Above 5 to12.5MVA	EA	1	1,29,800.00	1,29,800.00
	ITC 5/8MVATRF ,50MtrTransport Manual	EA	1	3,54,000.00	3,54,000.00
	Transport through Truck upto 70KM	EA	1	17,700.00	17,700.00
	Construction of Oil Sump Pit for Power Transformer	EA	1	1,28,981.49	1,28,981.49
	Construction of Foundation for Power Transformer 5MVA	EA	1	2,18,273.03	2,18,273.03
	Gravel spreading over Bay/GSS/other	CUM	18	3,540.00	63,720.00
K				**Total Civil Part**	**9,59,525.84**
L				**Sub-Total L =J+K**	**16,13,887.05**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**16,13,887.05**
O				**CESS @ 1% of Sub-Total N**	**16,138.87**
P				**Inspection Fees**	
Q				**Drawing Approval**	
R				**Sub-Total R=N+O+P+Q**	**16,30,025.92**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**16,30,025.92**

Cost Estimate for Installation of 25KVA(11/0.433KV) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount (In Rs.)
1	11/0.4kV 25kVA Distribution Transformer (Al) BIS Level-II	EA	1	84,706.42	84,706.42
2	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
3	Top Channel 100X50X5mm, each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
4	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
5	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95
6	Transformer Base Channel 100X50X5mm,each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
7	Support Clamp for Transformer base Channel 50X8 of length 0.561 mtr	Kg	3.52	125.67	442.75

8	Transformer Belting angle 50X50X6mm of length 2.77 Mtr with side angle	Kg	24.93	125.67	3,132.95
9	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
10	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
11	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
12	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
13	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
14	Danger Plate, 11kV	EA	2.00	134.05	268.10
15	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
16	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
17	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
18	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
19	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
20	11 kV AB switch 200A Polymer	Set	1	12,315.66	12,315.66
21	11kV H.G Fuse 200A,3Pole with PI	Set	1	10,254.67	10,254.67
22	LT Distribution Box with MCCB for 25KVA S/S	EA	1	25,016.71	25,016.71
23	Coil Earthing	EA	2.00	278.15	556.30
24	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
25	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
26	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
27	HT stay (Guy) insulator	EA	2	83.78	167.56
28	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70
29	1.1kV Al 1CX50 Sq.mm Cable -FRLSH	Mtr	20	74.23	1,484.68
30	Gland AL 1CX50 Sq.mm DC Heavy Duty NI PLA	EA	4	129.45	517.78
31	Lug AL Crimping 50 Sqmm XLPE Single hole	EA	4	9.58	38.33
32	11KV Polymeric Disc Insulator 70KN B&S	EA	3	1,926.94	5,780.82
33	Disc Insulator Hardware Fittings (70KN) B&S	EA	3	586.46	1,759.38
34	CLAMP PG FOR 100 SQMM AAA COND	EA	3	971.85	2,915.54
35	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
36	GI Nut , Bolt & Washer of different sizes	Kg	21	130.70	2,744.63
37	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
38	GI Flat 25X3 mm(0.589kg/mtr)	Kg	13.6	123.92	1,681.47
39	Black Paint	Ltr	1	368.63	368.63
40	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
41	DT Metering	EA	1	8,013.50	8,013.50
A				**Total Cost of materials**	**2,93,378.52**
B				**Stock, Storage & Insurance i.e 3%**	**8,801.36**
C				**Sub Total C=A+B**	**3,02,179.88**
D				**Contigency @ 3% of C**	**9,065.40**

E				**Tools & Plants @ 2% of C**	**6,043.60**
F				**Transportation @ 7.5% of C**	**22,663.49**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**8,175.66**
H				**Erection Other @ 10%**	**13,866.67**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**3,61,994.69**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Construct of Boundary wall Fencing(inRM)	Mtr	18	5,664.00	1,01,952.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**1,44,967.02**
L				**Sub-Total L =J+K**	**5,06,961.71**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**5,06,961.71**
O				**CESS @ 1% of Sub-Total N**	**5,069.62**
P				**Inspection fees**	**5,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**5,17,781.33**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**5,17,781.33**

Cost Estimate for Installation 63KVA(11/0.433KV) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	11/0.4kV 63kVA Distribution Transformer (Al) BIS Level-II	EA	1	1,66,744.53	1,66,744.53
2	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
3	Top Channel 100X50X5mm, each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
4	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
5	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95

6	Transformer Base Channel 100X50X5mm,each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
7	Support Clamp for Transformer base Channel 50X8 of length 0.561 mtr	Kg	3.52	125.67	442.75
8	Transformer Belting angle 50X50X6mm of length 2.77 Mtr with side angle	Kg	24.93	125.67	3,132.95
9	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
10	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
11	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
12	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
13	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
14	Danger Plate, 11kV	EA	2.00	134.05	268.10
15	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
16	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
17	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
18	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
19	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
20	11 kV AB switch 200A Polymer	Set	1	12,315.66	12,315.66
21	11kV H.G Fuse 200A,3Pole with PI	Set	1	10,254.67	10,254.67
22	LT Distribution Box with MCCB for 63KVA S/S	EA	1	30,700.34	30,700.34
23	Coil Earthing	EA	2.00	278.15	556.30
24	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
25	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
26	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
27	HT stay (Guy) insulator	EA	2	83.78	167.56
28	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70
29	1.1kV Al 1CX95 Sq.mm Cable -FRLSH	Mtr	20	113.47	2,269.38
30	Gland for 1.1kV Al 1CX95 Sq.mm Double Heavy Duty Ni Plated	EA	4	137.53	550.12
31	Lug AL Crimping 95 Sqmm XLPE Single hole	EA	4	29.51	118.05
32	11KV Polymeric Disc Insulator 70KN B&S	EA	3	1,926.94	5,780.82
33	Disc Insulator Hardware Fittings (70KN) B&S	EA	3	586.46	1,759.38
34	CLAMP PG FOR 100 SQMM AAA COND	EA	3	971.85	2,915.54
35	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
36	GI Nut , Bolt & Washer of different sizes	Kg	21	130.70	2,744.63
37	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
38	GI Flat 25X3 mm(0.589kg/mtr)	Kg	10.5	123.92	1,299.15
39	Black Paint	Ltr	1	368.63	368.63
40	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
41	DT Metering	EA	1	8,013.50	8,013.50

A				**Total Cost of materials**	**3,81,614.70**
B				**Stock, Storage & Insurance i.e 3%**	**11,448.44**
C				**Sub Total C=A+B**	**3,93,063.14**
D				**Contigency @ 3% of C**	**11,791.89**
E				**Tools & Plants @ 2% of C**	**7,861.26**
F				**Transportation @ 7.5% of C**	**29,479.74**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**12,400.62**
H				**Erection Other @ 10%**	**14,505.07**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**4,69,101.73**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Construct of Boundary wall Fencing(inRM)	Mtr	18	5,664.00	1,01,952.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**1,44,967.02**
L				**Sub-Total L =J+K**	**6,14,068.75**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**6,14,068.75**
O				**CESS @ 1% of Sub-Total N**	**6,140.69**
P				**Inspection fees**	**5,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**6,25,959.44**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**6,25,959.44**

Cost Estimate for Installation of 100KVA(11/0.433KV) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	11/0.4kV 100kVA Distribution Transformer (Al) BIS Level-II	EA	1	2,23,049.89	2,23,049.89
2	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
3	Top Channel 100X50X5mm, each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78

4	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
5	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95
6	Transformer Base Channel 100X50X5mm,each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
7	Support Clamp for Transformer base Channel 50X8 of length 0.561 mtr	Kg	3.52	125.67	442.75
8	Transformer Belting angle 50X50X6mm of length 2.77 Mtr with side angle	Kg	24.93	125.67	3,132.95
9	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
10	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
11	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
12	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
13	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
14	Danger Plate, 11kV	EA	2.00	134.05	268.10
15	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
16	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
17	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
18	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
19	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
20	11 kV AB switch 200A Polymer	Set	1	12,315.66	12,315.66
21	11kV H.G Fuse 200A,3Pole with PI	Set	1	10,254.67	10,254.67
22	LT Distribution Box with MCCB for 100KVA S/S	EA	1	40,916.48	40,916.48
23	Coil Earthing	EA	2.00	278.15	556.30
24	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
25	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
26	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
27	HT stay (Guy) insulator	EA	2	83.78	167.56
28	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70
29	1.1kV Al 1CX150 Sq.mm Cable -FRLSH	Mtr	20	183.28	3,665.55
30	Gland for 1.1kV Al 1CX150 Sq.mm Double Heavy Duty Ni Plated	EA	4	435.42	1,741.68
31	Lug AL Crimping 150 Sqmm XLPE Single hole	EA	4	19.23	76.94
32	11KV Polymeric Disc Insulator 70KN B&S	EA	3	1,926.94	5,780.82
33	Disc Insulator Hardware Fittings (70KN) B&S	EA	3	586.46	1,759.38
34	CLAMP PG FOR 100 SQMM AAA COND	EA	3	971.85	2,915.54
35	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
36	GI Nut , Bolt & Washer of different sizes	Kg	21	130.70	2,744.63
37	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
38	GI Flat 25X3 mm(0.589kg/mtr)	Kg	10.5	123.92	1,299.15

39	Black Paint	Ltr	1	368.63	368.63
40	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
41	DT Metering	EA	1	8,013.50	8,013.50
A				**Total Cost of materials**	**4,50,682.83**
B				**Stock, Storage & Insurance i.e 3%**	**13,520.48**
C				**Sub Total C=A+B**	**4,64,203.31**
D				**Contigency @ 3% of C**	**13,926.10**
E				**Tools & Plants @ 2% of C**	**9,284.07**
F				**Transportation @ 7.5% of C**	**34,815.25**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**15,300.35**
H				**Erection Other @ 10%**	**15,819.64**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**5,53,348.71**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Construct of Boundary wall Fencing(inRM)	Mtr	18	5,664.00	1,01,952.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**1,44,967.02**
L				**Sub-Total L =J+K**	**6,98,315.73**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**6,98,315.73**
O				**CESS @ 1% of Sub-Total N**	**6,983.16**
P				**Inspection fees**	**5,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**7,11,048.89**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**7,11,048.89**

Cost Estimate for Installation of 250KVA(11/0.433KV) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	11/0.4kV 250kVA (Cu) Distribution Transformer BIS Level-II	EA	1	7,31,351.35	7,31,351.35

2	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
3	Top Channel 100X50X5mm, each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
4	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
5	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95
6	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
7	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
8	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
9	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
10	Danger Plate, 11kV	EA	2.00	134.05	268.10
11	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
12	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
13	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
14	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
15	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
16	11 kV AB switch 200A Polymer	Set	1	12,315.66	12,315.66
17	11kV H.G Fuse 200A,3Pole with PI	Set	1	10,254.67	10,254.67
18	LT Distribution Box with MCCB for 250KVA S/S	EA	1	80,428.80	80,428.80
19	Coil Earthing	EA	2	278.15	556.30
20	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
21	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
22	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
23	HT stay (Guy) insulator	EA	2	83.78	167.56
24	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70
25	Flat Eye Hook for AB cable	EA	1	100.54	100.54
26	Pole clamp for EYE hook for XLPE Aerial bunched Cable	Pair	1	335.12	335.12
27	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(70-95sq mm)	EA	1	220.58	220.58
28	1.1kV Al 1CX300 Sq.mm Cable -FRLSH	Mtr	20	343.09	6,861.70
29	Gland for 1.1kV Al 1CX300 Sq.mm Double Compression Heavy Duty Ni Plated	EA	4	569.80	2,279.19
30	Lug AL Crimping 300 Sqmm XLPE Single hole	EA	4	64.23	256.91
31	11KV Polymeric Disc Insulator 70KN B&S	EA	3	1,926.94	5,780.82
32	Disc Insulator Hardware Fittings (70KN) B&S	EA	3	586.46	1,759.38
33	CLAMP PG FOR 100 SQMM AAA COND	EA	3	971.85	2,915.54
34	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
35	GI Nut , Bolt & Washer of different sizes	Kg	21	130.70	2,744.63
36	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
37	GI Flat 25X3 mm(0.589kg/mtr)	Kg	10.5	123.92	1,299.15

38	Black Paint	Ltr	1	368.63	368.63
39	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
40	DT Metering	EA	1	8,013.50	8,013.50
A				**Total Cost of materials**	**9,91,760.10**
B				**Stock, Storage & Insurance i.e 3%**	**29,752.80**
C				**Sub Total C=A+B**	**10,21,512.90**
D				**Contigency @ 3% of C**	**30,645.39**
E				**Tools & Plants @ 2% of C**	**20,430.26**
F				**Transportation @ 7.5% of C**	**76,613.47**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**41,477.87**
H				**Erection Other @ 10%**	**19,195.55**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**12,09,875.43**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Constr of TRF Plinth for upto 500KVA	EA	1	33,040.00	33,040.00
	Const Plinth L.T. DB BOX for 250-500KVA	EA	1	8,260.00	8,260.00
	Construction of FRP fencing	SQ.M M	32	4,130.00	1,32,160.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**2,16,475.02**
L				**Sub-Total L =J+K**	**14,26,350.45**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**14,26,350.45**
O				**CESS @ 1% of Sub-Total N**	**14,263.50**
P				**Inspection fees**	**7,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**14,48,363.95**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**14,48,363.95**

Cost Estimate for Installation of 500KVA(11/0.433KV) Distribution Transformer					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	11/0.4kV 500kVA (Cu) Distribution Transformer BIS Level-II	EA	1	14,45,669.29	14,45,669.29
2	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
3	Top Channel 100X50X5mm, each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
4	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
5	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95
6	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
7	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
8	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
9	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
10	Danger Plate, 11kV	EA	2.00	134.05	268.10
11	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
12	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
13	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
14	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
15	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
16	11 kV AB switch 200A Polymer	Set	1	12,315.66	12,315.66
17	11kV H.G Fuse 200A,3Pole with PI	Set	1	10,254.67	10,254.67
18	LT Distribution Box with MCCB for 500KVA S/S	EA	1	1,63,136.42	1,63,136.42
19	Coil Earthing	EA	2	278.15	556.30
20	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
21	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
22	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
23	HT stay (Guy) insulator	EA	2	83.78	167.56
24	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70
25	Flat Eye Hook for AB cable	EA	1	100.54	100.54
26	Pole clamp for EYE hook for XLPE Aerial bunched Cable	Pair	1	335.12	335.12
27	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(70-95sq mm)	EA	1	220.58	220.58
28	1.1kV Al 1CX630 Sq.mm Cable -FRLSH	Mtr	40	696.27	27,850.83
29	Gland for 1.1kV Al 1CX630 Sq.mm Double Compression Heavy Duty Ni Plated	EA	4	1,279.71	5,118.84
30	Lug AL Crimping 630 Sqmm XLPE Single hole	EA	4	157.40	629.60
31	11KV Polymeric Disc Insulator 70KN B&S	EA	3	1,926.94	5,780.82

32	Disc Insulator Hardware Fittings (70KN) B&S	EA	3	586.46	1,759.38
33	CLAMP PG FOR 100 SQMM AAA COND	EA	3	971.85	2,915.54
34	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
35	GI Nut , Bolt & Washer of different sizes	Kg	21	130.70	2,744.63
36	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
37	GI Flat 25X3 mm(0.589kg/mtr)	Kg	10.5	123.92	1,299.15
38	Black Paint	Ltr	1	368.63	368.63
39	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
40	DT Metering	EA	1	8,013.50	8,013.50
A				**Total Cost of materials**	**18,12,987.13**
B				**Stock, Storage & Insurance i.e 3%**	**54,389.61**
C				**Sub Total C=A+B**	**18,67,376.74**
D				**Contigency @ 3% of C**	**56,021.30**
E				**Tools & Plants @ 2% of C**	**37,347.53**
F				**Transportation @ 7.5% of C**	**1,40,053.26**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**78,265.25**
H				**Erection Other @ 10%**	**30,207.18**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**22,09,271.26**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Constr of TRF Plinth for upto 500KVA	EA	1	33,040.00	33,040.00
	Const Plinth L.T. DB BOX for 250-500KVA	EA	1	8,260.00	8,260.00
	Construction of FRP fencing	SQ.MM	32	4,130.00	1,32,160.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**2,16,475.02**
L				**Sub-Total L =J+K**	**24,25,746.28**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**24,25,746.28**
O				**CESS @ 1% of Sub-Total N**	**24,257.46**
P				**Inspection fees**	**7,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**24,57,753.74**
S				**Add GST (Exempted) of Sub-Total**	**-**

T		Grand Total	24,57,753.74

Cost Estimate for Augmentation to 25KVA(11/0.433KV) Distribution Transformer					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	11/0.4kV 25kVA Distribution Transformer (Al) BIS Level-II	EA	1	84,706.42	84,706.42
2	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
3	Top Channel 100X50X5mm, each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
4	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
5	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95
6	Transformer Base Channel 100X50X5mm,each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
7	Support Clamp for Transformer base Channel 50X8 of length 0.561 mtr	Kg	3.52	125.67	442.75
8	Transformer Belting angle 50X50X6mm of length 2.77 Mtr with side angle	Kg	24.93	125.67	3,132.95
9	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
10	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
11	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
12	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
13	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
14	Danger Plate, 11kV	EA	2.00	134.05	268.10
15	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
16	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
17	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
18	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
19	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
20	11 kV AB switch 200A Polymer	Set	1	12,315.66	12,315.66
21	11kV H.G Fuse 200A,3Pole with PI	Set	1	10,254.67	10,254.67
22	LT Distribution Box with MCCB for 25KVA S/S	EA	1	25,016.71	25,016.71
23	Coil Earthing	EA	2.00	278.15	556.30
24	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
25	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
26	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
27	HT stay (Guy) insulator	EA	2	83.78	167.56
28	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70

29	1.1kV Al 1CX50 Sq.mm Cable -FRLSH	Mtr	20	74.23	1,484.68
30	Gland AL 1CX50 Sq.mm DC Heavy Duty NI PLA	EA	4	129.45	517.78
31	Lug AL Crimping 50 Sqmm XLPE Single hole	EA	4	9.58	38.33
32	11KV Polymeric Disc Insulator 70KN B&S	EA	3	1,926.94	5,780.82
33	Disc Insulator Hardware Fittings (70KN) B&S	EA	3	586.46	1,759.38
34	CLAMP PG FOR 100 SQMM AAA COND	EA	3	971.85	2,915.54
35	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
36	GI Nut , Bolt & Washer of different sizes	Kg	21	130.70	2,744.63
37	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
38	GI Flat 25X3 mm(0.589kg/mtr)	Kg	13.6	123.92	1,681.47
39	Black Paint	Ltr	1	368.63	368.63
40	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
41	DT Metering	EA	1	8,013.50	8,013.50
A				**Total Cost of materials**	**2,93,378.52**
B				**Stock, Storage & Insurance i.e 3%**	**8,801.36**
C				**Sub Total C=A+B**	**3,02,179.88**
D				**Contigency @ 3% of C**	**9,065.40**
E				**Tools & Plants @ 2% of C**	**6,043.60**
F				**Transportation @ 7.5% of C**	**22,663.49**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**8,175.66**
H				**Erection Other @ 10%**	**13,866.67**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**3,61,994.69**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Construct of Boundary wall Fencing(inRM)	Mtr	18	5,664.00	1,01,952.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**1,44,967.02**
L				**Sub-Total L =J+K**	**5,06,961.71**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**5,06,961.71**
O				**CESS @ 1% of Sub-Total N**	**5,069.62**
P				**Inspection fees**	**5,000.00**
Q				**Drawing approval**	**750.00**

R	**Sub-Total R=N+O+P+Q**	**5,17,781.33**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**5,17,781.33**

Cost Estimate for Augmentation to 63KVA(11/0.433KV) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	11/0.4kV 63kVA Distribution Transformer (Al) BIS Level-II	EA	1	1,66,744.53	1,66,744.53
2	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
3	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
4	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
5	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
6	LT Distribution Box with MCCB for 63KVA S/S	EA	1	30,700.34	30,700.34
7	1.1kV Al 1CX95 Sq.mm Cable -FRLSH	Mtr	20	113.47	2,269.38
8	Gland for 1.1kV Al 1CX95 Sq.mm Double Heavy Duty Ni Plated	EA	4	137.53	550.12
9	Lug AL Crimping 95 Sqmm XLPE Single hole	EA	4	29.51	118.05
10	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
11	GI Nut , Bolt & Washer of different sizes	Kg	5	130.70	653.48
12	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
13	GI Flat 25X3 mm(0.589kg/mtr)	Kg	6.3	123.92	776.37
A				**Total Cost of materials**	**2,22,583.77**
B				**Stock, Storage & Insurance i.e 3%**	**6,677.51**
C				**Sub Total C=A+B**	**2,29,261.28**
D				**Contigency @ 3% of C**	**6,877.84**
E				**Tools & Plants @ 2% of C**	**4,585.23**
F				**Transportation @ 7.5% of C**	**17,194.60**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**8,587.34**
H				**Erection Other @ 10%**	**5,751.44**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**2,72,257.73**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Dismantling of 25KVA Dist TRF	EA	1	1,810.53	1,810.53
	Construct of Boundary wall Fencing(inRM)	Mtr	18	5,664.00	1,01,952.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34

	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**1,34,714.88**
L				**Sub-Total L =J+K**	**4,06,972.61**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**4,06,972.61**
O				**CESS @ 1% of Sub-Total N**	**4,069.73**
P				**Inspection fees**	**5,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**4,16,792.33**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**4,16,792.33**

Cost Estimate for Augmentation to 100KVA(11/0.433KV) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	11/0.4kV 100kVA Distribution Transformer (Al) BIS Level-II	EA	1	2,23,049.89	2,23,049.89
2	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
3	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	Kg	8.55	125.67	1,074.90
4	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
5	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
6	LT Distribution Box with MCCB for 100KVA S/S	EA	1	40,916.48	40,916.48
7	1.1kV Al 1CX150 Sq.mm Cable -FRLSH	Mtr	20	183.28	3,665.55
8	Gland for 1.1kV Al 1CX150 Sq.mm Double Heavy Duty Ni Plated	EA	4	435.42	1,741.68
9	Lug AL Crimping 150 Sqmm XLPE Single hole	EA	4	19.23	76.94
10	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
11	GI Nut , Bolt & Washer of different sizes	Kg	5	130.70	653.48
12	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
13	GI Flat 25X3 mm(0.589kg/mtr)	Kg	6.3	123.92	776.37
A				**Total Cost of materials**	**2,91,651.90**
B				**Stock, Storage & Insurance i.e 3%**	**8,749.56**
C				**Sub Total C=A+B**	**3,00,401.45**
D				**Contigency @ 3% of C**	**9,012.04**
E				**Tools & Plants @ 2% of C**	**6,008.03**
F				**Transportation @ 7.5% of C**	**22,530.11**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**11,487.07**

H				**Erection Other @ 10%**	**7,066.01**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**3,56,504.71**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Dismantling of 63KVA Dist TRF	EA	1	2,172.64	2,172.64
	Construct of Boundary wall Fencing(inRM)	Mtr	18	5,664.00	1,01,952.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**1,35,076.98**
L				**Sub-Total L =J+K**	**4,91,581.70**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**4,91,581.70**
O				**CESS @ 1% of Sub-Total N**	**4,915.82**
P				**Inspection fees**	**5,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**5,02,247.51**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**5,02,247.51**

Cost Estimate for Augmentation to 250KVA(11/0.433KV) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	11/0.4kV 250kVA (Cu) Distribution Transformer BIS Level-II	EA	1	7,31,351.35	7,31,351.35
2	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
3	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
4	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
5	LT Distribution Box with MCCB for 250KVA S/S	EA	1	80,428.80	80,428.80
6	1.1kV Al 1CX300 Sq.mm Cable -FRLSH	Mtr	20	343.09	6,861.70
7	Gland for 1.1kV Al 1CX300 Sq.mm Double Compression Heavy Duty Ni Plated	EA	4	569.80	2,279.19
8	Lug AL Crimping 300 Sqmm XLPE Single hole	EA	4	64.23	256.91
9	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
10	GI Nut , Bolt & Washer of different sizes	Kg	5	130.70	653.48
11	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
12	GI Flat 25X3 mm(0.589kg/mtr)	Kg	6.3	123.92	776.37

A				**Total Cost of materials**	**8,42,304.42**
B				**Stock, Storage & Insurance i.e 3%**	**25,269.13**
C				**Sub Total C=A+B**	**8,67,573.55**
D				**Contigency @ 3% of C**	**26,027.21**
E				**Tools & Plants @ 2% of C**	**17,351.47**
F				**Transportation @ 7.5% of C**	**65,068.02**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**37,664.59**
H				**Erection Other @ 10%**	**11,428.17**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**10,25,113.00**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Dismantling of 100KVA Dist TRF	EA	1	3,849.92	3,849.92
	Constr of TRF Plinth for upto 500KVA	EA	1	33,040.00	33,040.00
	Const Plinth L.T. DB BOX for 250-500KVA	EA	1	8,260.00	8,260.00
	Construction of FRP fencing	SQ.M M	32	4,130.00	1,32,160.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc%_1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**2,08,262.26**
L				**Sub-Total L =J+K**	**12,33,375.26**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**12,33,375.26**
O				**CESS @ 1% of Sub-Total N**	**12,333.75**
P				**Inspection fees**	**7,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**12,53,459.01**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**12,53,459.01**

Cost Estimate for Augmentation to 500KVA(11/0.433KV) Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST(In Rs.)	Amount(In Rs.)
1	11/0.4kV 500kVA (Cu) Distribution Transformer BIS Level-II	EA	1	14,45,669.29	14,45,669.29
2	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	Kg	24.93	125.67	3,132.95
3	Cable holding Clamp 50X6 for DT pole	Kg	2.87	125.67	360.05
4	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40

5	LT Distribution Box with MCCB for 500KVA S/S	EA	1	1,63,136.42	1,63,136.42
6	1.1kV Al 1CX630 Sq.mm Cable -FRLSH	Mtr	40	696.27	27,850.83
7	Gland for 1.1kV Al 1CX630 Sq.mm Double Compression Heavy Duty Ni Plated	EA	4	1,279.71	5,118.84
8	Lug AL Crimping 630 Sqmm XLPE Single hole	EA	4	157.40	629.60
9	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
10	GI Nut , Bolt & Washer of different sizes	Kg	5	130.70	653.48
11	EARTHING PIPE GI 3 MTR 40MM DIA	EA	7	1,509.70	10,567.93
12	GI Flat 25X3 mm(0.589kg/mtr)	Kg	6.3	123.92	776.37
A				**Total Cost of materials**	**16,63,531.45**
B				**Stock, Storage & Insurance i.e 3%**	**49,905.94**
C				**Sub Total C=A+B**	**17,13,437.39**
D				**Contigency @ 3% of C**	**51,403.12**
E				**Tools & Plants @ 2% of C**	**34,268.75**
F				**Transportation @ 7.5% of C**	**1,28,507.80**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**74,451.97**
H				**Erection Other @ 10%**	**22,439.80**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**20,24,508.83**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	7	4,130.00	28,910.00
	Dismantling of 250KVA Dist TRF	EA	1	5,786.81	5,786.81
	Constr of TRF Plinth for upto 500KVA	EA	1	33,040.00	33,040.00
	Const Plinth L.T. DB BOX for 250-500KVA	EA	1	8,260.00	8,260.00
	Construction of FRP fencing	SQ.MM	32	4,130.00	1,32,160.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,ARC,Sectionalizer,RMU etc% 1	EA	1	1,180.00	1,180.00
K				**Total Civil Part**	**2,10,199.16**
L				**Sub-Total L =J+K**	**22,34,707.99**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**22,34,707.99**
O				**CESS @ 1% of Sub-Total N**	**22,347.08**
P				**Inspection fees**	**7,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**22,64,805.07**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**22,64,805.07**

Cost Estimate for Replacement of 25KVA(11/0.433KV) Distribution Transformer					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	11/0.4kV 25kVA Distribution Transformer (Al) BIS Level-II	EA	1	84,706.42	84,706.42
2	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
3	LT Distribution Box with MCCB for 25KVA S/S	EA	1	25,016.71	25,016.71
4	1.1kV Al 1CX50 Sq.mm Cable -FRLSH	Mtr	20	74.23	1,484.68
5	Gland AL 1CX50 Sq.mm DC Heavy Duty NI PLA	EA	4	129.45	517.78
6	Lug AL Crimping 50 Sqmm XLPE Single hole	EA	4	9.58	38.33
7	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
8	GI Nut , Bolt & Washer of different sizes	Kg	3	130.70	392.09
9	EARTHING PIPE GI 3 MTR 40MM DIA	EA	3	1,509.70	4,529.11
10	GI Flat 25X3 mm(0.589kg/mtr)	Kg	6.0	123.92	743.54
A				**Total Cost of materials**	**1,23,064.34**
B				**Stock, Storage & Insurance i.e 3%**	**3,691.93**
C				**Sub Total C=A+B**	**1,26,756.27**
D				**Contigency @ 3% of C**	**3,802.69**
E				**Tools & Plants @ 2% of C**	**2,535.13**
F				**Transportation @ 7.5% of C**	**9,506.72**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**4,362.38**
H				**Erection Other @ 10%**	**3,950.87**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**1,50,914.05**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	3	4,130.00	12,390.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	Dismantling of 25KVA Dist TRF	EA	1	1,810.53	1,810.53
K				**Total Civil Part**	**15,062.88**
L				**Sub-Total L =J+K**	**1,65,976.92**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**1,65,976.92**
O				**CESS @ 1% of Sub-Total N**	**1,659.77**
P				**Inspection fees**	
Q				**Drawing approval**	
R				**Sub-Total R=N+O+P+Q**	**1,67,636.69**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**1,67,636.69**

Cost Estimate for Replacement of 63KVA(11/0.433KV) Distribution Transformer					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST(In Rs.)**	**Amount(In Rs.)**
1	11/0.4kV 63kVA Distribution Transformer (Al) BIS Level-II	EA	1	1,66,744.53	1,66,744.53
2	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
3	LT Distribution Box with MCCB for 63KVA S/S	EA	1	30,700.34	30,700.34
4	1.1kV Al 1CX95 Sq.mm Cable -FRLSH	Mtr	20	113.47	2,269.38
5	Gland for 1.1kV Al 1CX95 Sq.mm Double Heavy Duty Ni Plated	EA	4	137.53	550.12
6	Lug AL Crimping 95 Sqmm XLPE Single hole	EA	4	29.51	118.05
7	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
8	GI Nut , Bolt & Washer of different sizes	Kg	3	130.70	392.09
9	EARTHING PIPE GI 3 MTR 40MM DIA	EA	3	1,509.70	4,529.11
10	GI Flat 25X3 mm(0.589kg/mtr)	Kg	6.0	123.92	743.54
A				**Total Cost of materials**	**2,11,682.83**
B				**Stock, Storage & Insurance i.e 3%**	**6,350.48**
C				**Sub Total C=A+B**	**2,18,033.32**
D				**Contigency @ 3% of C**	**6,541.00**
E				**Tools & Plants @ 2% of C**	**4,360.67**
F				**Transportation @ 7.5% of C**	**16,352.50**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**8,587.34**
H				**Erection Other @ 10%**	**4,628.65**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**2,58,503.47**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	3	4,130.00	12,390.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	Dismantling of 63KVA Dist TRF	EA	1	2,172.64	2,172.64
K				**Total Civil Part**	**15,424.98**
L				**Sub-Total L =J+K**	**2,73,928.45**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**2,73,928.45**
O				**CESS @ 1% of Sub-Total N**	**2,739.28**
P				**Inspection fees**	**5,000.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**2,82,417.74**
S				**Add GST (Exempted) of Sub-Total**	**-**

T	**Grand Total**	**2,82,417.74**

Cost Estimate for Replacement of 100KVA(11/0.433KV) Distribution Transformer					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST(In Rs.)**	**Amount(In Rs.)**
1	11/0.4kV 100kVA Distribution Transformer (Al) BIS Level-II	EA	1	2,23,049.89	2,23,049.89
2	LA 9KV 10KA Polymer Distribut class(DH)	EA	3	1,486.80	4,460.40
3	LT Distribution Box with MCCB for 100KVA S/S	EA	1	40,916.48	40,916.48
4	1.1kV Al 1CX150 Sq.mm Cable -FRLSH	Mtr	20	183.28	3,665.55
5	Gland for 1.1kV Al 1CX150 Sq.mm Double Heavy Duty Ni Plated	EA	4	435.42	1,741.68
6	Lug AL Crimping 150 Sqmm XLPE Single hole	EA	4	19.23	76.94
7	Conductor 62 mm sq ACSR Rabbit	Mtr	24	48.97	1,175.28
8	GI Nut , Bolt & Washer of different sizes	Kg	3	130.70	392.09
9	EARTHING PIPE GI 3 MTR 40MM DIA	EA	3	1,509.70	4,529.11
10	GI Flat 25X3 mm(0.589kg/mtr)	Kg	6.0	123.92	743.54
A				**Total Cost of materials**	**2,80,750.96**
B				**Stock, Storage & Insurance i.e 3%**	**8,422.53**
C				**Sub Total C=A+B**	**2,89,173.49**
D				**Contigency @ 3% of C**	**8,675.20**
E				**Tools & Plants @ 2% of C**	**5,783.47**
F				**Transportation @ 7.5% of C**	**21,688.01**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**11,487.07**
H				**Erection Other @ 10%**	**5,943.21**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**3,42,750.45**
	Civil & Services				
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	3	4,130.00	12,390.00
	SITC of HDPE-25mm dia(Meter)	EA	10	86.23	862.34
	Dismantling of 100KVA Dist TRF	EA	1	3,849.92	3,849.92
K				**Total Civil Part**	**17,102.26**
L				**Sub-Total L =J+K**	**3,59,852.71**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**3,59,852.71**
O				**CESS @ 1% of Sub-Total N**	**3,598.53**
P				**Inspection fees**	
Q				**Drawing approval**	

R	**Sub-Total R=N+O+P+Q**	**3,63,451.24**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**3,63,451.24**

Cost Estimate for Upgradation to 1.1KV LT AB Cable 4x35+1x35+1x16mm2 with 9Mtr PSC

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount(In Rs.)
1	9 mtr long 300 kg PSC pole	EA	8	5,026.80	40,214.40
2	RCC base Plate	EA	8	426.38	3,411.05
3	1.1KV LT AB Cable 4x35+1x35+1x16mm2	Km	1.03	1,79,790.00	1,85,183.70
4	BOARD DANGER 400/440 VOLT	EA	8.00	134.05	1,072.38
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	5.29	125.67	664.40
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	24.00	134.05	3,217.15
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	10.57	125.67	1,328.80
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	12	212.94	2,555.31
9	NFC Suspension Clamp for ABC 25-50 Sqmm	EA	4	187.48	749.91
10	Flat Eye Hook for AB cable	EA	12	100.54	1,206.43
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(25-35 sq mm)	EA	8	63.72	509.76
12	LT Stay Set (Complete)	Set	5	871.31	4,356.56
13	LT Stay (Guy) Insulator	EA	5	50.27	251.34
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	5	205.59	1,027.96
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	40	125.67	5,026.80
16	Coil Earthing	EA	8	278.15	2,225.20
17	8 SWG GI wire (4mm)-(Heavy)	Kg	2.096	125.67	263.40
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	24	139.18	3,340.34
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 35SQMM	EA	40	11.46	458.31
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72

28	GI Nut , Bolt & Washer of different sizes	Kg	13.83	130.70	1,807.25
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16
30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	40	29.95	1,197.94
34	Tie Plastic size 9mmX265mm	Lot	60	29.95	1,796.90
35	Black Paint	Ltr	4	368.63	1,474.53
36	Yellow Colour Paint for Background	Ltr	8	251.07	2,008.55
A				**Total Cost of materials**	**3,67,154.85**
B				**Stock, Storage & Insurance i.e 3%**	**11,014.65**
C				**Sub Total C=A+B**	**3,78,169.49**
D				**Contigency @ 3% of C**	**11,345.08**
E				**Tools & Plants @ 2% of C**	**7,563.39**
F				**Transportation @ 7.5% of C**	**28,362.71**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**33,674.87**
I				**Erection PSC Pole @ 20%**	**8,284.17**
J				**Sub Total J=C+D+E+F+G+H+I**	**4,67,399.71**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	2,942.12	23,536.93
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	882.63	7,061.08
	Stay concreting in ratio 1:2:4	EA	5	1,569.13	7,845.64
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
	Dismantling of PSC pole (9mtr)& return	EA	3	1,121.00	3,363.00
	Dismantling of LT ABC Cable with accesso	Mtr	1030	27.15	27,966.35
K				**Total Civil Part**	**82,127.60**
L				**Sub-Total L =J+K**	**5,49,527.32**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**5,49,527.32**
O				**CESS @ 1% of Sub-Total N**	**5,495.27**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**5,56,022.59**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**5,56,022.59**

Cost Estimate for Upgradation to 1.1KV LT AB Cable 4x50+1x50+1x16mm2 with 9Mtr PSC					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST(In Rs.)**	**Amount(In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	8	5,026.80	40,214.40
2	RCC base Plate	EA	8	426.38	3,411.05
3	1.1KV LT AB Cable 4x50+1x50+1x16mm2	Km	1.03	2,43,340.00	2,50,640.20
4	BOARD DANGER 400/440 VOLT	EA	8.00	134.05	1,072.38
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	5.29	125.67	664.40
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	24.00	134.05	3,217.15
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	10.57	125.67	1,328.80
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	12	212.94	2,555.31
9	NFC Suspension Clamp for ABC 50-70 Sqmm	EA	4	294.63	1,178.54
10	Flat Eye Hook for AB cable	EA	12	100.54	1,206.43
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(50-70 sq mm)	EA	8	90.86	726.88
12	LT Stay Set (Complete)	Set	5	871.31	4,356.56
13	LT Stay (Guy) Insulator	EA	5	50.27	251.34
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	5	205.59	1,027.96
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	40	125.67	5,026.80
16	Coil Earthing	EA	8	278.15	2,225.20
17	8 SWG GI wire (4mm)-(Heavy)	Kg	2.096	125.67	263.40
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	24	139.18	3,340.34
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 50SQMM	EA	40	9.76	390.34
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable - FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	13.83	130.70	1,807.25
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16

30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable - FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable - FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable - FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	40	29.95	1,197.94
34	Tie Plastic size 9mmX265mm	Lot	60	29.95	1,796.90
35	Black Paint	Ltr	4	368.63	1,474.53
36	Yellow Colour Paint for Background	Ltr	8	251.07	2,008.55
A				**Total Cost of materials**	**4,33,189.12**
B				**Stock, Storage & Insurance i.e 3%**	**12,995.67**
C				**Sub Total C=A+B**	**4,46,184.79**
D				**Contigency @ 3% of C**	**13,385.54**
E				**Tools & Plants @ 2% of C**	**8,923.70**
F				**Transportation @ 7.5% of C**	**33,463.86**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**40,476.40**
I				**Erection PSC Pole @ 20%**	**8,284.17**
J				**Sub Total J=C+D+E+F+G+H+I**	**5,50,718.46**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	2,942.12	23,536.93
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	882.63	7,061.08
	Stay concreting in ratio 1:2:4	EA	5	1,569.13	7,845.64
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
	Dismantling of PSC pole (9mtr)& return	EA	3	1,121.00	3,363.00
	Dismantling of LT ABC Cable with accesso	Mtr	1030	27.15	27,966.35
K				**Total Civil Part**	**82,127.60**
L				**Sub-Total L =J+K**	**6,32,846.06**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**6,32,846.06**
O				**CESS @ 1% of Sub-Total N**	**6,328.46**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**6,40,174.52**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**6,40,174.52**

Cost Estimate for Upgradation to 1.1KV LT AB Cable 4x95+1x95+1x16mm2 with 9Mtr PSC					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST(In Rs.)**	**Amount(In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	8	5,026.80	40,214.40
2	RCC base Plate	EA	8	426.38	3,411.05
3	1.1KV LT AB Cable 4x95+1x95+1x16mm2	Km	1.03	4,36,620.00	4,49,718.60
4	BOARD DANGER 400/440 VOLT	EA	8.00	134.05	1,072.38
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	5.29	125.67	664.40
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	24.00	134.05	3,217.15
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	10.57	125.67	1,328.80
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	12	212.94	2,555.31
9	NFC Suspension Clamp for ABC 70-95 Sqmm	EA	4	345.63	1,382.54
10	Flat Eye Hook for AB cable	EA	12	100.54	1,206.43
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(70-95sq mm)	EA	8	220.58	1,764.62
12	LT Stay Set (Complete)	Set	5	871.31	4,356.56
13	LT Stay (Guy) Insulator	EA	5	50.27	251.34
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	5	205.59	1,027.96
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	40	125.67	5,026.80
16	Coil Earthing	EA	8	278.15	2,225.20
17	8 SWG GI wire (4mm)-(Heavy)	Kg	2.096	125.67	263.40
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	24	139.18	3,340.34
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 95SQMM	EA	40	10.82	432.82
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable - FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	13.83	130.70	1,807.25
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16

30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable - FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable - FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable - FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	40	29.95	1,197.94
34	Tie Plastic size 9mmX265mm	Lot	60	29.95	1,796.90
35	Black Paint	Ltr	4	368.63	1,474.53
36	Yellow Colour Paint for Background	Ltr	8	251.07	2,008.55
A				**Total Cost of materials**	**6,33,551.74**
B				**Stock, Storage & Insurance i.e 3%**	**19,006.55**
C				**Sub Total C=A+B**	**6,52,558.29**
D				**Contigency @ 3% of C**	**19,576.75**
E				**Tools & Plants @ 2% of C**	**13,051.17**
F				**Transportation @ 7.5% of C**	**48,941.87**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**61,113.75**
I				**Erection PSC Pole @ 20%**	**8,284.17**
J				**Sub Total J=C+D+E+F+G+H+I**	**8,03,525.99**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	2,942.12	23,536.93
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	882.63	7,061.08
	Stay concreting in ratio 1:2:4	EA	5	1,569.13	7,845.64
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
	Dismantling of PSC pole (9mtr)& return	EA	3	1,121.00	3,363.00
	Dismantling of LT ABC Cable with accesso	Mtr	1030	27.15	27,966.35
K				**Total Civil Part**	**82,127.60**
L				**Sub-Total L =J+K**	**8,85,653.59**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**8,85,653.59**
O				**CESS @ 1% of Sub-Total N**	**8,856.54**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**8,95,510.13**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**8,95,510.13**

Cost Estimate for Upgradation to 1.1KV LT AB Cable 4x150+1x150+1x16mm2 with 9Mtr PSC					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST(In Rs.)**	**Amount(In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	8	5,026.80	40,214.40
2	RCC base Plate	EA	8	426.38	3,411.05
3	1.1KV LT AB Cable 4x150+1x150+1x16mm2	Km	1.03	8,46,060.00	8,71,441.80
4	BOARD DANGER 400/440 VOLT	EA	8.00	134.05	1,072.38
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	5.29	125.67	664.40
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	24.00	134.05	3,217.15
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	10.57	125.67	1,328.80
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	12	212.94	2,555.31
9	NFC Suspension Clamp for ABC 70-95 Sqmm	EA	4	345.63	1,382.54
10	Flat Eye Hook for AB cable	EA	12	100.54	1,206.43
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(70-95sq mm)	EA	8	220.58	1,764.62
12	LT Stay Set (Complete)	Set	5	871.31	4,356.56
13	LT Stay (Guy) Insulator	EA	5	50.27	251.34
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	5	205.59	1,027.96
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	40	125.67	5,026.80
16	Coil Earthing	EA	8	278.15	2,225.20
17	8 SWG GI wire (4mm)-(Heavy)	Kg	2.096	125.67	263.40
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	24	139.18	3,340.34
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 95SQMM	EA	40	10.82	432.82
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable - FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	13.83	130.70	1,807.25
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16

30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable - FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable - FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable - FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	40	29.95	1,197.94
34	Tie Plastic size 9mmX265mm	Lot	60	29.95	1,796.90
35	Black Paint	Ltr	4	368.63	1,474.53
36	Yellow Colour Paint for Background	Ltr	8	251.07	2,008.55
A				**Total Cost of materials**	**10,55,274.94**
B				**Stock, Storage & Insurance i.e 3%**	**31,658.25**
C				**Sub Total C=A+B**	**10,86,933.19**
D				**Contigency @ 3% of C**	**32,608.00**
E				**Tools & Plants @ 2% of C**	**21,738.66**
F				**Transportation @ 7.5% of C**	**81,519.99**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**1,04,551.24**
I				**Erection PSC Pole @ 20%**	**8,284.17**
J				**Sub Total J=C+D+E+F+G+H+I**	**13,35,635.24**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	2,942.12	23,536.93
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	8	882.63	7,061.08
	Stay concreting in ratio 1:2:4	EA	5	1,569.13	7,845.64
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
	Dismantling of PSC pole (9mtr)& return	EA	3	1,121.00	3,363.00
	Dismantling of LT ABC Cable with accesso	Mtr	1030	27.15	27,966.35
K				**Total Civil Part**	**82,127.60**
L				**Sub-Total L =J+K**	**14,17,762.84**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**14,17,762.84**
O				**CESS @ 1% of Sub-Total N**	**14,177.63**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**14,32,940.47**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**14,32,940.47**

Cost Estimate for 1.1KV LT AB Cable 4x35+1x35+1x16mm2 with 9Mtr PSC					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	9 mtr long 300 kg PSC pole	EA	30	5,026.80	1,50,804.00
2	RCC base Plate	EA	30	426.38	12,791.44
3	1.1KV LT AB Cable 4x35+1x35+1x16mm2	Km	1.03	1,79,790.00	1,85,183.70
4	BOARD DANGER 400/440 VOLT	EA	30.00	134.05	4,021.44
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	19.83	125.67	2,491.50
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	90.00	134.05	12,064.32
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	39.65	125.67	4,983.00
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	40	212.94	8,517.71
9	NFC Suspension Clamp for ABC 25-50 Sqmm	EA	20	187.48	3,749.57
10	Flat Eye Hook for AB cable	EA	40	100.54	4,021.44
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(25-35 sq mm)	EA	20	63.72	1,274.40
12	LT Stay Set (Complete)	Set	10	871.31	8,713.12
13	LT Stay (Guy) Insulator	EA	10	50.27	502.68
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	10	205.59	2,055.91
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	80	125.67	10,053.60
16	Coil Earthing	EA	30	278.15	8,344.49
17	8 SWG GI wire (4mm)-(Heavy)	Kg	7.86	125.67	987.77
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	60	139.18	8,350.86
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 35SQMM	EA	100	11.46	1,145.78
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	33.48	130.70	4,375.73
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16
30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	92.21	9,220.52

32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	4	29.95	119.79
34	Tie Plastic size 9mmX265mm	Lot	4	29.95	119.79
35	Black Paint	Ltr	15	368.63	5,529.48
36	Yellow Colour Paint for Background	Ltr	30	251.07	7,532.06
A				**Total Cost of materials**	**5,49,540.04**
B				**Stock, Storage & Insurance i.e 3%**	**16,486.20**
C				**Sub Total C=A+B**	**5,66,026.24**
D				**Contigency @ 3% of C**	**16,980.79**
E				**Tools & Plants @ 2% of C**	**11,320.52**
F				**Transportation @ 7.5% of C**	**42,451.97**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**41,069.81**
I				**Erection PSC Pole @ 20%**	**31,065.62**
J				**Sub Total J=C+D+E+F+G+H+I**	**7,08,914.96**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	30	2,942.12	88,263.48
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	30	882.63	26,479.05
	Stay concreting in ratio 1:2:4	EA	10	1,569.13	15,691.29
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,42,788.41**
L				**Sub-Total L =J+K**	**8,51,703.38**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**8,51,703.38**
O				**CESS @ 1% of Sub-Total N**	**8,517.03**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**8,61,220.41**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**8,61,220.41**

Cost Estimate for 1.1KV LT AB Cable 4x50+1x50+1x16mm2 with 9Mtr PSC

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	9 mtr long 300 kg PSC pole	EA	30	5,026.80	1,50,804.00

2	RCC base Plate	EA	30	426.38	12,791.44
3	1.1KV LT AB Cable 4x50+1x50+1x16mm2	Km	1.03	2,43,340.00	2,50,640.20
4	BOARD DANGER 400/440 VOLT	EA	30.00	134.05	4,021.44
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	19.83	125.67	2,491.50
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	90.00	134.05	12,064.32
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	39.65	125.67	4,983.00
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	40	212.94	8,517.71
9	NFC Suspension Clamp for ABC 50-70 Sqmm	EA	20	294.63	5,892.68
10	Flat Eye Hook for AB cable	EA	40	100.54	4,021.44
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(50-70 sq mm)	EA	20	90.86	1,817.20
12	LT Stay Set (Complete)	Set	10	871.31	8,713.12
13	LT Stay (Guy) Insulator	EA	10	50.27	502.68
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	10	205.59	2,055.91
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	80	125.67	10,053.60
16	Coil Earthing	EA	30	278.15	8,344.49
17	8 SWG GI wire (4mm)-(Heavy)	Kg	7.86	125.67	987.77
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	60	139.18	8,350.86
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 50SQMM	EA	100	9.76	975.86
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	33.48	130.70	4,375.73
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16
30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	4	29.95	119.79
34	Tie Plastic size 9mmX265mm	Lot	4	29.95	119.79
35	Black Paint	Ltr	15	368.63	5,529.48
36	Yellow Colour Paint for Background	Ltr	30	251.07	7,532.06
A				**Total Cost of materials**	**6,17,512.54**
B				**Stock, Storage & Insurance i.e 3%**	**18,525.38**
C				**Sub Total C=A+B**	**6,36,037.91**

D				**Contigency @ 3% of C**	**19,081.14**
E				**Tools & Plants @ 2% of C**	**12,720.76**
F				**Transportation @ 7.5% of C**	**47,702.84**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**48,070.98**
I				**Erection PSC Pole @ 20%**	**31,065.62**
J				**Sub Total J=C+D+E+F+G+H+I**	**7,94,679.25**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	30	2,942.12	88,263.48
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	30	882.63	26,479.05
	Stay concreting in ratio 1:2:4	EA	10	1,569.13	15,691.29
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,42,788.41**
L				**Sub-Total L =J+K**	**9,37,467.67**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**9,37,467.67**
O				**CESS @ 1% of Sub-Total N**	**9,374.68**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**9,47,842.35**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**9,47,842.35**

Cost Estimate for 1.1KV LT AB Cable 4x95+1x95+1x16mm2 with 9Mtr PSC

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	9 mtr long 300 kg PSC pole	EA	30	5,026.80	1,50,804.00
2	RCC base Plate	EA	30	426.38	12,791.44
3	1.1KV LT AB Cable 4x95+1x95+1x16mm2	Km	1.03	4,36,620.00	4,49,718.60
4	BOARD DANGER 400/440 VOLT	EA	30.00	134.05	4,021.44
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	19.83	125.67	2,491.50
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	90.00	134.05	12,064.32
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	39.65	125.67	4,983.00
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	40	212.94	8,517.71
9	NFC Suspension Clamp for ABC 70-95 Sqmm	EA	20	345.63	6,912.68

10	Flat Eye Hook for AB cable	EA	40	100.54	4,021.44
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(70-95sq mm)	EA	20	220.58	4,411.55
12	LT Stay Set (Complete)	Set	10	871.31	8,713.12
13	LT Stay (Guy) Insulator	EA	10	50.27	502.68
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	10	205.59	2,055.91
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	80	125.67	10,053.60
16	Coil Earthing	EA	30	278.15	8,344.49
17	8 SWG GI wire (4mm)-(Heavy)	Kg	7.86	125.67	987.77
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	60	139.18	8,350.86
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 95SQMM	EA	100	10.82	1,082.06
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	33.48	130.70	4,375.73
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16
30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	4	29.95	119.79
34	Tie Plastic size 9mmX265mm	Lot	4	29.95	119.79
35	Black Paint	Ltr	15	368.63	5,529.48
36	Yellow Colour Paint for Background	Ltr	30	251.07	7,532.06
A				**Total Cost of materials**	**8,20,311.48**
B				**Stock, Storage & Insurance i.e 3%**	**24,609.34**
C				**Sub Total C=A+B**	**8,44,920.82**
D				**Contigency @ 3% of C**	**25,347.62**
E				**Tools & Plants @ 2% of C**	**16,898.42**
F				**Transportation @ 7.5% of C**	**63,369.06**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**68,959.27**
I				**Erection PSC Pole @ 20%**	**31,065.62**
J				**Sub Total J=C+D+E+F+G+H+I**	**10,50,560.82**
	Civil & Services				

	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	30	2,942.12	88,263.48
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	30	882.63	26,479.05
	Stay concreting in ratio 1:2:4	EA	10	1,569.13	15,691.29
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,42,788.41**
L				**Sub-Total L =J+K**	**11,93,349.23**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**11,93,349.23**
O				**CESS @ 1% of Sub-Total N**	**11,933.49**
P				**Inspection fees**	**250.00**
Q				**Drawing approval**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**12,06,282.72**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**12,06,282.72**

Cost Estimate for 1.1KV LT AB Cable 4x150+1x150+1x16mm2 with 9Mtr PSC

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	9 mtr long 300 kg PSC pole	EA	30	5,026.80	1,50,804.00
2	RCC base Plate	EA	30	426.38	12,791.44
3	1.1KV LT AB Cable 4x150+1x150+1x16mm2	Km	1.03	8,46,060.00	8,71,441.80
4	BOARD DANGER 400/440 VOLT	EA	30.00	134.05	4,021.44
5	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	Kg	19.83	125.67	2,491.50
6	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	90.00	134.05	12,064.32
7	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	Kg	39.65	125.67	4,983.00
8	EYE HOOK CLAMP FOR 9M PSC POLE	Pair	40	212.94	8,517.71
9	NFC Suspension Clamp for ABC 70-95 Sqmm	EA	20	345.63	6,912.68
10	Flat Eye Hook for AB cable	EA	40	100.54	4,021.44
11	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(70-95sq mm)	EA	20	220.58	4,411.55
12	LT Stay Set (Complete)	Set	10	871.31	8,713.12
13	LT Stay (Guy) Insulator	EA	10	50.27	502.68
14	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	Pair	10	205.59	2,055.91
15	7/12 SWG Stay Wire(2.5mm)-(Heavy)	Kg	80	125.67	10,053.60
16	Coil Earthing	EA	30	278.15	8,344.49

17	8 SWG GI wire (4mm)-(Heavy)	Kg	7.86	125.67	987.77
18	LT Distribution Box Polycarbonate	EA	20	1,086.00	21,720.02
19	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	EA	80	69.41	5,552.61
20	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	EA	20	43.58	871.55
21	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	EA	60	139.18	8,350.86
22	STEEL STRAP SIZE 20 MMX50 M LONG	ROL	2	1,869.16	3,738.31
23	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	EA	1	831.90	831.90
24	Cap cable end for ABC 95SQMM	EA	100	10.82	1,082.06
25	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	Mtr	20	215.31	4,306.29
26	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	EA	20	291.25	5,824.95
27	Lug AL Crimping 25 Sqmm XLPE Single hole	EA	200	5.63	1,125.72
28	GI Nut , Bolt & Washer of different sizes	Kg	33.48	130.70	4,375.73
29	FRP CROSS ARM 1070MM 415V	EA	20	1,158.16	23,163.16
30	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	Mtr	200	66.50	13,300.96
31	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	92.21	9,220.52
32	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	Mtr	100	121.50	12,150.46
33	Tie Plastic Black size 7.6mmX380mm	Lot	4	29.95	119.79
34	Tie Plastic size 9mmX265mm	Lot	4	29.95	119.79
35	Black Paint	Ltr	15	368.63	5,529.48
36	Yellow Colour Paint for Background	Ltr	30	251.07	7,532.06
A				**Total Cost of materials**	**12,42,034.68**
B				**Stock, Storage & Insurance i.e 3%**	**37,261.04**
C				**Sub Total C=A+B**	**12,79,295.72**
D				**Contigency @ 3% of C**	**38,378.87**
E				**Tools & Plants @ 2% of C**	**25,585.91**
F				**Transportation @ 7.5% of C**	**95,947.18**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**-**
H				**Erection Other @ 10%**	**1,12,396.76**
I				**Erection PSC Pole @ 20%**	**31,065.62**
J				**Sub Total J=C+D+E+F+G+H+I**	**15,82,670.06**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	30	2,942.12	88,263.48
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	30	882.63	26,479.05
	Stay concreting in ratio 1:2:4	EA	10	1,569.13	15,691.29
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line% 1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**1,42,788.41**
L				**Sub-Total L =J+K**	**17,25,458.48**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**

N	**Sub-Total N=L+M**	**17,25,458.48**
O	**CESS @ 1% of Sub-Total N**	**17,254.58**
P	**Inspection fees**	**250.00**
Q	**Drawing approval**	**750.00**
R	**Sub-Total R=N+O+P+Q**	**17,43,713.06**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**17,43,713.06**

Cost Estimate for 2 Ph to 3 Ph Conversion of 11kV line with 11mtr. WPB-pole and AAAC 100 Sq.mm

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	4	37,022.11	1,48,088.44
2	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	Kg	68.83	125.67	8,650.12
3	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	Kg	17.55	125.67	2,205.78
4	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	10.57	125.67	1,328.68
5	Danger Plate, 11kV	EA	4	134.05	536.19
6	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	2.64	125.67	332.20
7	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	12	134.05	1,608.58
8	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	5.29	125.67	664.40
9	11kV,5kN pin insulator polymer	EA	6	335.12	2,010.72
10	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	EA	2	1,357.24	2,714.47
11	GI Back Clamp for 11kV 'V' Cros Arm	EA	2	134.05	268.10
12	CLAMP F TYPE GI FOR 11KV	EA	2	402.14	804.29
13	Disc Insulator Hardware Fittings (70KN) B&S	EA	12	586.46	7,037.52
14	11KV Polymeric Disc Insulator 70KN B&S	EA	12	1,926.94	23,123.28
15	Coil Earthing	EA	4	278.15	1,112.60
16	8 SWG GI wire (4mm)-(Heavy)	Kg	1.05	125.67	131.70
17	CLAMP PG FOR 100 SQMM AAA COND	EA	4	971.85	3,887.39
18	GI Nut , Bolt & Washer of different sizes	Kg	9.4	130.70	1,231.03
19	HT Stay Clamp Type-A for WPB Pole	Pair	3	331.77	995.31
20	HT Stay Clamp Type-B for WPB Pole	Pair	1	331.77	331.77
21	H.T 11kV Stay set (Complete)	Set	4	1,759.38	7,037.52
22	HT stay (Guy) insulator	EA	4	83.78	335.12

23	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	40	125.67	5,026.80
24	AAA conductor,100 mm2	Mtr	1030.00	92.16	94,922.74
25	Black Paint	Ltr	2	368.63	737.26
26	Yellow Colour Paint for Background	Ltr	4	251.07	1,004.27
A				**Total Cost of materials**	**3,16,126.29**
B				**Stock, Storage & Insurance i.e 3%**	**9,483.79**
C				**Sub Total C=A+B**	**3,25,610.08**
D				**Contigency @ 3% of C**	**9,768.30**
E				**Tools & Plants @ 2% of C**	**6,512.20**
F				**Transportation @ 7.5% of C**	**24,420.76**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**7,626.55**
H				**Erection Other @ 10%**	**17,307.90**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**3,91,245.79**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	4	3,530.54	14,122.16
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	4	931.67	3,726.68
	Stay concreting in ratio 1:2:4	EA	4	1,569.13	6,276.51
	Dismantling of RSJ/WPB pole(116x100mm)	EA	1	1,629.47	1,629.47
	Dismantling of PSC pole (9mtr)& return	EA	1	1,121.00	1,121.00
	Dismantling of 11KV 'V' Cross arm & retu	EA	1	49.96	49.96
	Dismantling of 11KV GI pin with insulato	EA	1	9.77	9.77
	Dismantling of 11KV Disc insulator with	EA	6	9.77	58.62
	Dismantling of MS Channel& Return store	Kg	86.38	9.56	825.66
	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	EA	1	12,354.60	12,354.60
K				**Total Civil Part**	**40,174.44**
L				**Sub-Total L =J+K**	**4,31,420.23**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**4,31,420.23**
O				**CESS @ 1% of Sub-Total N**	**4,314.20**
P				**Inspection fees**	**250.00**
Q				**Drawing approval fees**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**4,36,734.43**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**4,36,734.43**

Cost Estimate of Double Pole Structure and its accessories with WPB Pole for Distribution Transformer					
Sl No	**Description of Item**	**Unit**	**Quantity**	**Landed Unit Cost inclusive of GST (In Rs.)**	**Amount (In Rs.)**
1	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	EA	2	37,022.11	74,044.22
2	Top Channel 100X50X5mm, each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
3	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
4	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95
5	Transformer Base Channel 100X50X5mm,each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
6	Support Clamp for Transformer base Channel 50X8 of length 0.561 mtr	Kg	3.52	125.67	442.75
7	Transformer Belting angle 50X50X6mm of length 2.77 Mtr with side angle	Kg	24.93	125.67	3,132.95
8	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
9	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
10	Danger Plate, 11kV	EA	2.00	134.05	268.10
11	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
12	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
13	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
14	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
15	Coil Earthing	EA	2.00	278.15	556.30
16	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
17	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
18	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
19	HT stay (Guy) insulator	EA	2	83.78	167.56
20	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70
21	11KV Polymeric Disc Insulator 70KN B&S	EA	3	1,926.94	5,780.82
22	Disc Insulator Hardware Fittings (70KN) B&S	EA	3	586.46	1,759.38
23	CLAMP PG FOR 100 SQMM AAA COND	EA	3	971.85	2,915.54
24	GI Nut , Bolt & Washer of different sizes	Kg	25	130.70	3,267.42
25	Black Paint	Ltr	1	368.63	368.63
26	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**1,29,100.58**
B				**Stock, Storage & Insurance i.e 3%**	**3,873.02**
C				**Sub Total C=A+B**	**1,32,973.60**
D				**Contigency @ 3% of C**	**3,989.21**

E				**Tools & Plants @ 2% of C**	**2,659.47**
F				**Transportation @ 7.5% of C**	**9,973.02**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**3,813.28**
H				**Erection Other @ 10%**	**5,670.81**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**1,59,079.39**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	EA	2	3,530.54	7,061.08
	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	EA	2	931.67	1,863.34
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
K				**Total Civil Part**	**12,062.68**
L				**Sub-Total L =J+K**	**1,71,142.06**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**1,71,142.06**
O				**CESS @ 1% of Sub-Total N**	**1,711.42**
P				**Inspection fees**	
Q				**Drawing approval fees**	
R				**Sub-Total R=N+O+P+Q**	**1,72,853.48**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**1,72,853.48**

Cost Estimate of Double Pole Structure and its accessories with PSC Pole for Distribution Transformer

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	9 mtr long 300 kg PSC pole	EA	2	5,026.80	10,053.60
2	RCC base Plate	EA	2	426.38	852.76
3	Top Channel 100X50X5mm, each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
4	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	Kg	52.96	125.67	6,655.78
5	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	Kg	39.56	125.67	4,970.95
6	Transformer Base Channel 100X50X5mm,each channel length 2.77 Mtr	Kg	52.96	125.67	6,655.78
7	Support Clamp for Transformer base Channel 50X8 of length 0.561 mtr	Kg	3.52	125.67	442.75
8	Transformer Belting angle 50X50X6mm of length 2.77 Mtr with side angle	Kg	24.93	125.67	3,132.95

9	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	Kg	21.42	125.67	2,691.85
10	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	Kg	8.55	125.67	1,074.90
11	Danger Plate, 11kV	EA	2.00	134.05	268.10
12	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	Kg	0.66	125.67	83.05
13	GI barbed wire(2.50x2.50 mm) anticlimbing device	Kg	6	134.05	804.29
14	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	Kg	2.64	125.67	332.20
15	Fish Plate 50X6 mm.,each 0.280 mtr. Length	Kg	3.96	125.67	498.26
16	Coil Earthing	EA	2.00	278.15	556.30
17	8 SWG GI wire (4mm)-(Heavy)	Kg	0.26	125.67	32.93
18	HT Stay Clamp Type-A for WPB Pole	Pair	2	331.77	663.54
19	H.T 11kV Stay set (Complete)	Set	2	1,759.38	3,518.76
20	HT stay (Guy) insulator	EA	2	83.78	167.56
21	7/10 SWG Stay Wire(3.15mm)-(Heavy)	Kg	10	125.67	1,256.70
22	11KV Polymeric Disc Insulator 70KN B&S	EA	3	1,926.94	5,780.82
23	Disc Insulator Hardware Fittings (70KN) B&S	EA	3	586.46	1,759.38
24	CLAMP PG FOR 100 SQMM AAA COND	EA	3	971.85	2,915.54
25	GI Nut , Bolt & Washer of different sizes	Kg	25	130.70	3,267.42
26	Black Paint	Ltr	1	368.63	368.63
27	Yellow Colour Paint for Background	Ltr	2	251.07	502.14
A				**Total Cost of materials**	**65,962.73**
B				**Stock, Storage & Insurance i.e 3%**	**1,978.88**
C				**Sub Total C=A+B**	**67,941.61**
D				**Contigency @ 3% of C**	**2,038.25**
E				**Tools & Plants @ 2% of C**	**1,358.83**
F				**Transportation @ 7.5% of C**	**5,095.62**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	
H				**Erection Other @ 10%**	**5,758.64**
I				**Erection PSC Pole @ 20%**	**2,071.04**
J				**Sub Total J=C+D+E+F+G+H+I**	**84,263.99**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	2	2,942.12	5,884.23
	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	EA	2	882.63	1,765.27
	Stay concreting in ratio 1:2:4	EA	2	1,569.13	3,138.26
K				**Total Civil Part**	**10,787.76**
L				**Sub-Total L =J+K**	**95,051.75**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**95,051.75**
O				**CESS @ 1% of Sub-Total N**	**950.52**

P	**Inspection fees**	
Q	**Drawing approval fees**	
R	**Sub-Total R=N+O+P+Q**	**96,002.27**
S	**Add GST (Exempted) of Sub-Total**	**-**
T	**Grand Total**	**96,002.27**

Cost Estimate for Bus-Coupler arrangement at PSS

Sl No	Description of Item	Unit	Quantity	Landed Unit Cost inclusive of GST (In Rs.)	Amount (In Rs.)
1	11KV, 10KA Lightening Arrester Polymer SL(Class-II)	EA	3.0	6,490.00	19,470.00
2	ISOLATOR 11KV 630A DOUBLE BREAK,EARTHS/W	SET	2.0	45,630.60	91,261.20
3	11kV 1250 Amp Outdoor VCB	EA	1.0	2,30,568.96	2,30,568.96
4	WPB 160x152 (30.44KG/Mtr.),9 mtr- with base plate 300x300x12	EA	4.0	30,461.70	1,21,846.80
5	Top Channel 100X50X5mm,each channel length 3.25 mtr	Kg	124.3	125.67	15,618.27
6	Insulator Support Channel 75X40X4.8mm., each channel length 4.3 Mtr.	Kg	122.8	125.67	15,433.28
7	Isolator Support Channel 75X40X4.8mm., each channel length 4.3 Mtr.	Kg	61.4	125.67	7,716.64
8	Isolator Operating Down Pipe Support Channel 75X40X4.8mm.,of length 0.8 mtr.	Kg	5.7	125.67	717.83
9	Down Pipe Diagonal Support Angle 50X50X6mm, each angle length 0.388mtr.	Kg	3.6	125.67	452.41
10	Down Pipe Base Support Angle 50X50X6mm, each angle length 0.34mtr.	Kg	1.7	125.67	219.42
11	Isolator Support Side Channel 100X50X5mm, each channel length 0.5 mtr.	Kg	9.6	125.67	1,201.41
12	GI Nut , Bolt & Washer of different sizes	Kg	20.0	130.70	2,613.94
13	Coil Earthing	EA	4.0	278.15	1,112.60
14	8 SWG GI wire (4mm)-(Heavy)	Kg	0.3	125.67	32.93
15	33KV Polymeric Disc Insulator 90KN B&S	No	6.0	1,926.94	11,561.64
16	Disc Insulator Hardware Fittings (90KN) B&S	Set	6.0	837.80	5,026.80
17	CLAMP PG FOR 232 SQMM AAA COND	EA	6.0	1,926.94	11,561.64
18	CONDUCTOR AAA 232 SQMM	Mtr	30.0	262.23	7,866.94
19	50x6 mm GI flat	Kg	20.0	125.67	2,513.40
20	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	Mtr	15.0	2,802.00	42,030.00
21	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	No	6.0	23,297.54	1,39,785.25
22	JT Kit 11KV I/D 3CX400SQMM SCREEN TYPE TOUCH PROF	No	6.0	28,154.80	1,68,928.80
23	4 Core x 2.5 mm2 -FRLSH	Mtr	15.0	187.67	2,815.01
24	7 Core x 2.5 mm2 -FRLSH	Mtr	15.0	304.96	4,574.39

25	Black Paint	Ltr	2.0	286.00	572.00
26	Yellow Colour Paint for Background	Ltr	4.0	212.77	851.08
27	EARTHING PIPE GI 3 MTR 40MM DIA	No	3.0	1,509.70	4,529.11
A				**Total Cost of materials**	**9,10,881.73**
B				**Stock, Storage & Insurance i.e 3%**	**27,326.45**
C				**Sub Total C=A+B**	**9,38,208.19**
D				**Contigency @ 3% of C**	**28,146.25**
E				**Tools & Plants @ 2% of C**	**18,764.16**
F				**Transportation @ 7.5% of C**	**70,365.61**
G				**Erection Transformer/Breaker/WPB/H Pole/Joist Poles @ 5%**	**18,149.41**
H				**Erection Other @ 10%**	**57,522.00**
I				**Erection PSC Pole @ 20%**	
J				**Sub Total J=C+D+E+F+G+H+I**	**11,31,155.62**
	Civil & Services				
	Concreting of poles in ratio 1:1.5:3 for 9MTR WPB POLE	EA	4.0	2,942.12	11,768.46
	Couping of poles in ratio 1:1.5:3 for 9MTR WPB POLE	EA	4.0	882.63	3,530.54
	SITC of 11 KV feeder CR Panel (Outdoor Type)	EA	1.0	3,69,096.74	3,69,096.74
	SITC of T ConnectFor wolf to pantherCond	EA	6.0	1,583.93	9,503.55
	SITC-Pad clmp25m stud CT/PT/PTR/ISTR	EA	6.0	882.32	5,293.93
	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	EA	3.0	4,130.00	12,390.00
K				**Total Civil Part**	**4,11,583.23**
L				**Sub-Total L =J+K**	**15,42,738.85**
M				**Other Over Head (Including Supervision charges)@ 6% of L**	**-**
N				**Sub-Total N=L+M**	**15,42,738.85**
O				**CESS @ 1% of Sub-Total N**	**15,427.39**
P				**Inspection fees**	**500.00**
Q				**Drawing approval fees**	**750.00**
R				**Sub-Total R=N+O+P+Q**	**15,59,416.23**
S				**Add GST (Exempted) of Sub-Total**	**-**
T				**Grand Total**	**15,59,416.23**

ANNEXURE-7

(Infrastructure- Technology)

1. Build & Strengthen DC–DR Infrastructure & End-User IT Hardware

S. No.	Description	Unit	Qty	Unit cost (In Rs.)	Total Estimated Cost (in Rs.Cr)
1	Augmentation of AMI DC & DR infrastructure for 1 lakh meters (i.e. Server, Storage, Network Switches).	AU	1	10053218	1.01
2	Augmentation/upgradation of IPDS IT infrastructure for 3.5 lacs consumer's CIS solution (i.e. Server, Storage, Network Switches).	AU	1	11000000	1.1
3	MFD Printer for IT Offices	EA	10	157825	0.16
4	Laptop & Desktop for End Users	EA	250	80000	2
5	Network Equipment (Router/Switches) for IT Offices & OT PSS	EA	100	183348.4	1.83
6	UPS with Battery	EA	100	74311.65	0.74
7	Office LAN Setup	Node	500	5000	0.25
8	Wi-Fi Access Point and other IT Equipment	AU	1	2000000	0.2
9	One Time Implementation Charges for Above Items	AU	1	2355370.31	0.24
Total					**7.53**

2. IT Applications & Software

S. No.	Description	Unit	Qty	Unit cost (In Rs.)	Total Estimated Cost (in Rs.Cr)
1	Augmentation of AMI license for 1 lakh meters (i.e. Data Base license, OS & VM licenses, HES Licenses).	AU	1	27123210	2.71
2	CIS (MBC)solutions Upgrade/Augmentations	AU	1	15000000	1.5
3	Office Automation tools (MS Office/Nitro Pro/Canva/AutoCAD, etc.)	AU	1	2000000	0.2
4	One-time Implementation Charges for above items	AU	1	4412321	0.44
Total					**4.85**

3. Cybersecurity Solutions

S. No.	Description	Unit	Qty	Unit cost (In Rs.)	Total Estimated Cost (in Rs. Cr)
1	Data Leakage Prevention Tool (Implementation of Digital Personal Data Protection (DPDP) Act, 2023)	AU	1	40000000	4
2	Unified Security operation centre	AU	1	10000000	1
3	ZTNA (Zero Trust Network Access)	AU	1	15000000	1.5
4	NIPS/NDR (Network Intrusion Prevention/Detection & Response)	AU	1	5000000	0.5
5	Web URL Filtering	AU	1	12500000	1.25
6	Augmentation of Patch Management licenses	AU	1	1500000	0.15
7	Augmentation of End Point protection (Antivirus for Server and Client)	AU	1	5000000	0.5
8	Implementation of above items	AU	1	5600000	0.56
Total					**9.46**

ANNEXURE-8

(PSS Refurbishment)

2. BATTERY CAPACITY ENHANCEMENT AT PSS

BATTERY CAPACITY ENHANCEMEMNT AT PSS			
Battery Type	**Total Qty (SET)**	**Unit Cost in Rs.**	**Total Cost. Rs. In Cr.**
48 V 150 AH SET	52	82,647.78	0.51
24 V 150 AH SET	160	41,521.98	0.78
	Total		**1.29**

Division wise Requirement Breakup		
Division	**24 V 150 AH BATTERY SET**	**48 V 150 AH BATTERY SET**
AED-1	6	4
AED-2	6	
GSED	12	4
GNED	12	
HED	8	
PSED	4	4
BNED	6	12
BoED	6	
PED	8	4
BED-1	16	4
BED-2	8	
BED-3	2	
JED	14	
KED	12	
MED	10	
NED	12	12
GED	6	
PKED	2	4
RED	10	4
Grand Total	**160**	**52**

3. REPLACEMENT OF DEFECTIVE RELAYS AT PSS

Sl. No.	Description	Qty.	Unit Cost in Rs.	Total Cost in Rs.
1	OCEF Protection Relay	14	1,46,080	2413241.6
2	Differential Protection Relay	9	1,45,409	1544243.58
3	Differential Protection Relay	10	1,79,572	2118949.6
4	OC/EF Protection Relay	13	1,57,095	2409837.3
5	OC/EF Protection Relay	2	92,101	217358.36
6	OC/EF Protection Relay	30	1,29,332	4578352.8
7	CMR relays 48V	110	1,000	129800
TOTAL (Rs. In Cr.)				**1.34**

4. EARTHING ENHANCEMENT AT PSS

Unit BoQ for Earthing Enhancement at PSS is tabulated below.

Sl. No,	Description of Work / Material	Unit	Quantity	Rate (INR) including GST	Total Cost in Rs.
1	Survey of Primary Substation (PSS)	No	1	21240	21240
2	Earth resistance testing of individual earth pits along with tets reports	No	2	436.6	873.2
3	Grid earth resistance testing along with test reports	No	1	24780	24780
4	Soil resistivity test with test report	No	1	3304	3304
5	Fault level, step & touch potential calculation and Preparation of Earth mat design layout drawing	No	1	41300	41300
6	Earth pit (incl. enhancement material, electrode, chamber, clamp)	No	5	25200	126000
7	GI Flat 75x10 mm	KG	60	94.4	5664
8	GI Flat 50x8 mm	KG	60	94.4	5664
9	Supply &installtaion of suitable size SS nut bolts for earthpit to GI flat connectivity	Lum	1	7080	7080
10	Installation & commissioning of earth pit	No	5	2714	13570
11	Revival of existing earth pit	No	5	16520	82600
12	Laying & welding of GI flats (75x10 & 50x8)	Mtr	80	25.96	2076.8
13	Interconnection of existing earth pits with grid	MTR	20	80.24	1604.8
14	Submission of tabulated report (resistivity, depth, connections)	No	1	7670	7670
15	Transportation of material/Man /Machinery (SITC)	NO	1	112100	112100
16	Removal of old cable /Flat / Pipe	Lum	1	15340	15340
	TOTAL COST Rs. in Lakhs				4.71

PSS REFURBISHMENT

Sl. No.	Circle	Division	PSS	Total Cost in Rs.	11 mtr. WPB Pole Qty.	33kV Isolator WES MOT 1250 Amps	33kV Isolator WoES MOT 1250 Amps	11kV Isolator WES MOT 630 Amps	11kV Isolator WoES MOT 630 Amps	Switch Yard Lighting	Pipe earthing	Lightning Arrester 33kV (Set)	Lightning Arrester 11kV (Set)	Borwell Earthing	Spike Earthing for Lightning protection	Conductor with PG clamp and T Clamp 148Sqmm	Conductor with PG clamp and T Clamp 232Sqmm	11kV 3Cx400 XLPE UG Cable
1	Berhampur	GNED	GANJAM	181905.92						10					1			
2	Berhampur	GNED	RAMBHA	181905.92						10					1			
3	Berhampur	GNED	KHALLIKOTE	696026.9						10	15	2	4	1	1			
4	Berhampur	PSED	PURSHOTTAMPUR	2932433.42	8	2		8	2	10	20	3	6		1	0.2	0.2	
5	Berhampur	PSED	TARATARINI	1362568.005	4	2		2		10					1	0.2	0.15	
6	Berhampur	PSED	KODALA	1305365.595	4	2			1	10		2	4				0.15	
7	Berhampur	PSED	BEGUNIAPADA	767883.42		2	2			10								
8	Berhampur	PSED	POLASARA	1824976.77	8		1	2		10		2	3		1	0.2	0.2	
9	Berhampur	HED	HINJILI	2163682.72	8			6		10	15		6	1	1	0.2	0.2	
10	Berhampur	HED	SHERAGADA	2046708.03	8			4		10	15	3	5	1		0.2	0.2	
11	Berhampur	HED	ADAPADA	1414988.84			3	4			15		4	1	1	0.2		
12	City	BED-1	Bhanjabihar	2835835.23	16		1		1			6	6		1	0.2	0.2	
13	City	BED-1	Narendrapur	2359440.98	8		1	3	2	6	12	5	5		1	0.2	0.2	
14	City	BED-1	Goodshed	598798.82			1	4		6						0.2		
15	City	BED-1	New Medical	2635149.05	4	3	1	1	3						6	0.5	0.2	
16	City	BED-1	Medical	7479265.123	14	8	6	16	3							0.2	0.2	0.3
17	Bhanjanagr	BNED	Bhejiput	2682978.51	12	2	2	5							1	0.2	0.2	
18	Bhanjanagr	BOED	Chari chaka	132178						6				1				
19	Bhanjanagr	PED	G Udaigir	1974781.77	8	2		5	2	6						0.2	0.2	
20	Bhanjanagr	PED	Khajulipara	2670004.32	12		4	4	2	6	10					0.2	0.2	
21	Bhanjanagr	BOED	Manmunda	171179.92						8					1			
22	Bhanjanagr	PED	Phulbani	1489048.73	4		1	5	2	5					1	0.2	0.2	
23	Bhanjanagr	PED	Sankarakhol	412123.83		1				6		3						
24	Bhanjanagr	BNED	Soroda	1579857.17	4	2		4	1	5					1	0.2	0.2	
25	Bhanjanagr	PED	Tikabali	1332286.86			2	4	2	6	10	3	2	1		0.2		
26	Bhanjanagr	BNED	Tilisingi	1632554.49	8			3	2	4				1		0.35	0.2	
27	Aska	AED-II	Balipadar	1866023		4		4		6	30	3	2		1	0.2		
28	Aska	AED-I	Nuagaon	160453.92						6					1			
29	Aska	AED-II	KS Nagar	160453.92						6					1			
30	Aska	AED-II	Budhamba	160453.92						6					1			
31	Aska	AED-II	Buguda	160453.92						6					1			
32	Aska	AED-I	Balisira	160453.92						6					1			
33	Aska	AED-I	Dharakot	160453.92						6					1			
34	Jeypore	JED	DANGAGUDA	145637						10	10							
35	Jeypore	JED	BOIPARIGUDA	373912.92						10	10			1	1			
36	Jeypore	JED	RANDAPALI	2164837.98	16					10				1	1	0.2	0.2	
37	Jeypore	JED	KUNDRA	2028569.06	16					10	10					0.2	0.2	
38	Jeypore	JED	BORIGUMA	542809.5				2		10				1	1	0.2		

PSS REFURBISHMENT

Sl. No.	Circle	Division	PSS	Total Cost in Rs.	11 mtr. WPB Pole Qty.	33kV Isolator WES MOT 1250 Amps	33kV Isolator WoES MOT 1250 Amps	11kV Isolator WES MOT 630 Amps	11kV Isolator WoES MOT 630 Amps	Switch Yard Lighting	Pipe earthing	Lightning Arrester 33kV (Set)	Lightning Arrester 11kV (Set)	Borwell Earthing	Spike Earthing for Lightning protection	Conductor with PG clamp and T Clamp 148Sqmm	Conductor with PG clamp and T Clamp 232Sqmm	11kV 3Cx400 XLPE UG Cable
39	Jeypore	JED	B SINGPUR	300485.52				1	1	10						0.2		
40	Jeypore	MED	BALIMELA	945457.52			4			10				1	1			
41	Jeypore	KED	Old Koraput	281905.92						10				1	1			
42	Jeypore	KED	Kolab	1077377.53		1	2	4		10				1		0.2		
43	Jeypore	KED	Bileiguda	53630						10								
44	Jeypore	KED	Anlabadi	0														
45	Jeypore	KED	Narayanpatna	53630						10								
46	Jeypore	KED	Bandhugaon	53630						10								
47	Jeypore	NED	Nabarangpur	4649679.66	20	5	4	5	4	10					1	0.2	0.2	
48	Jeypore	NED	UMERKOTE	1198173.82		3		3	2	10					1	0.2		
49	Jeypore	NED	RAIGHAR	1184125.76		3		2	3	10					1	0.2		
50	Jeypore	NED	DABUGAON	181905.92						10					1			
51	Jeypore	MED	KALIMELA	3045983.58	16	3		2	3	10				1	1	0.2	0.2	
52	Rayagada	PKED	PARALAKHEMUNDI New	465151.73		1				10	10				1			
53	Rayagada	PKED	PARALAKHEMUNDI OLD	281905.92						10				1	1			
54	Rayagada	PKED	KASINAGAR	473144.73		1				10				1	1			
55	Rayagada	PKED	KHANDVA	153630						10				1				
56	Rayagada	PKED	KHARADA	436875.81		1				10	10			1				
57	Rayagada	PKED	GUMMA	153630						10				1				
58	Rayagada	PKED	UPALADA	281905.92						10				1	1			
59	Rayagada	PKED	GARABANDHA	153630						10				1				
60	Rayagada	PKED	SOBARA	436625.91				1		10	10			1		0.2		
61	Rayagada	PKED	JEERANGO(TAPING FROM RAMGIRI)	634816.5				2		10	10			1	1	0.2		
62	Rayagada	PKED	RAIGADA	153630						10				1				
63	Rayagada	PKED	CHHELIGADA	153630						10				1				
64	Rayagada	PKED	R.UDAYGIRI	373912.92						10	10			1	1			
65	Rayagada	PKED	NUAGADA	245637						10	10			1				
66	Rayagada	PKED	BADAPADA	153630						10				1				
67	Rayagada	PKED	MOHANA	281905.92						10				1	1			
68	Rayagada	PKED	CHANDRAGIRI	565151.73		1				10	10			1	1			
69	Rayagada	PKED	ADABA	373912.92						10	10			1	1			
70	Rayagada	RED	MITS Food Park	564383.54		2				10					1			
71	City	BED-2	N K NAGAR	0														
72	City	BED-2	AMBAGADA	0														
73	City	BED-3	Kukudakhandi	830192.64						6					6	0.1		

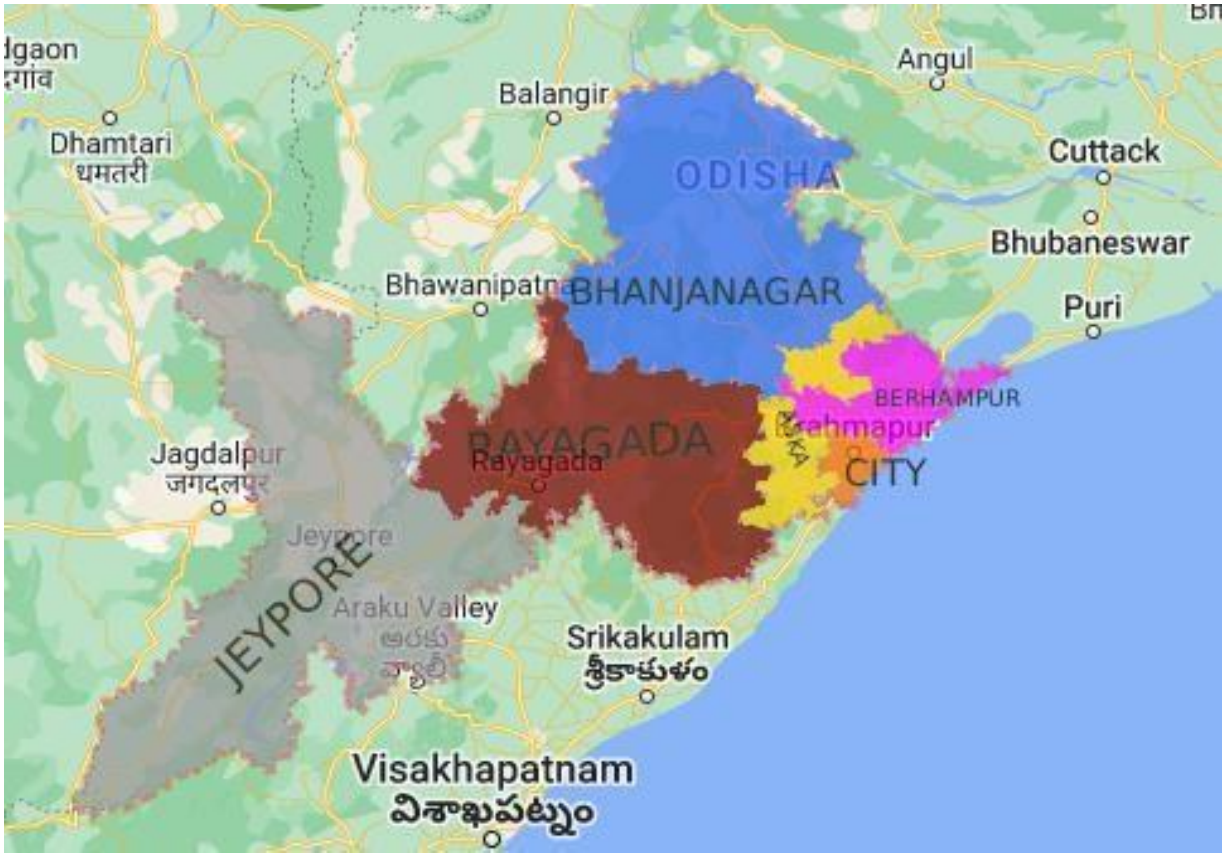
ANNEXURE-9

(Load Flow Study and Cost Benefit Analysis of 33kV/11kV Line and PTR/DTR)

TPSODL

TP SOUTHERN ODISHA
DISTRIBUTION LIMITED
(A Joint Venture of Tata Power and Government of Odisha)

Network Study and Analysis Report



Tata Power Southern Odisha Distribution Ltd.

Table of Contents:

Tata Power Southern Odisha Distribution Ltd. 1

1. OBJECTIVE OF STUDY: 3

1.1. Pre-requisites: 4

1.2. Approach: 4

2. Network Data Collection: 4

3. Network Modelling: 4

3.1. The "Base-Case" Analysis & Analysis after applying load growth: 5

3.2. Technical loss Assessment: - 6

3.3. Representation of 11KV SLD modelled in CYME 7

4. Network Loss assessment Circle wise: 8

4.1. 33KV Circle wise Loss report 8

4.2. 11kV Circle wise Loss report 9

4.3. 33kV &11kV Feeder Overloading Details 10

5. Annexures Network Study Report: 12

5.1. 33kV Load flow study report-New Lines 12

5.2. 33kV Load flow study report-Upgradation 14

5.3. 11kV Load flow study report-New Line 16

5.4. 11kV Load flow study report-Upgradation 22

6. Technical Loss Calculation & Cost Benefit Analysis - 30

6.1. Technical Loss Calculation 33kV Line Upgradation: 30

6.2. Cost Benefit Analysis- 33kV Line Upgradation: 32

6.3. Technical Loss Calculation 33kV New Line 40

6.4. Cost Benefit Analysis- 33kV New Line: 42

7. Power Transformer 49

8. Technical Loss Calculation & Cost Benefit Analysis -11kV 50

8.1. Technical Loss Calculation 11kV New Line: 50

8.2. Cost Benefit Analysis-11kV New Line 56

8.3. Technical Loss Calculation 11kV Line Upgradation: 79

8.4. Cost Benefit Analysis-11kV Line Upgradation 85

9. Distribution Transformer 117

1. OBJECTIVE OF STUDY:

Load flow (LF) is one of the most important elements to study and analyze power system operation for network planning. The purpose is to understand how power flows around the electrical network. Carrying out a load flow studyassists the engineer in designing & operation team whether the network is operating efficiently or not. Itanalyses whether sufficient power is being supplied by the Transmission grid, equipment is correctly sized to cater the load, reactive power compensation is correctly placed and transformer taps are optimized ornot.

The main objective of this study is to evaluate the 33&11kV network in TPSODL licensed area to check technical loss assessment and Quality of Power supply. Activities carried out to achieve this objective are:

- Create detailed electrical network of 33kV &11 KV with all relevant technical details.
- Identify the abnormal conditions in the network as per present loading conditions.
- Calculation of accurate technical losses with different loading condition on 33kV & 11kV Network using CYMDIST analysis tool.
- Calculations of Segregated technical losses (Transformers, Lines and Cables etc.)
- Evaluating the 33kV &11 KV Network's adequacy to meet load demand as per load estimated for a particular year.
- Identification of abnormal conditions (Under Voltage, Over Voltage & Over loading of equipment) in 33kV & 11 KV network as per loading of year 2025 & future.
- Use load growth factors for 33kV &11 KV network and perform Load growth studies for next 5 years.
- Assessment of technical losses in the present system & load conditions after load growth in the next 5 years.
- Identify network reinforcement for catering 5-year load demand.
- Evaluating the power supply quality
- Ensuring adequacy of the Network to serve the objectives of schemes like '24x7 Power for all' which mandates uninterrupted power supply to consumers.

Power flows are an important part of power system operation and planning. The outcomes of Network load flow study are given below

A) Technical loss Assessment
B) Feeder loading
C) Voltage Profile Assessment

1.1. Pre-requisites:

A power distribution system built on any electrical network develops gradually in response to the growth in demand for the electrical energy in the area it serves. The load growth is witnessednot only in terms of increment in its value at a given point, but also geographically over the years. The unpredictable nature of load growth impacts the operation and performance of the distribution network. In order to improve the performance of the network one needs to analyzethe existing distribution network and optimize it, such that it can cater the future load with highreliability and reduction in technical losses. Following details captured from the field to start the network study:

1. Electrical Network data / SLDs for 33kV &11 KV Lines, Power Transformer and Distribution transformers
2. Connected load details at each Transformer level.
3. Peak loading of all Lines

1.2. Approach:

In this part of Study, following activities are completed:

2. Network Data Collection:

Existing network data for all 33kV &11 KV feeders is used from Single line diagrams which were collected from TPSODL divisional offices along with Geographical Information System(GIS). The same Network Model/Integrated with GIS and updated in CYMDIST(Load flow Software) with necessary details regarding the 33kV &11 KV network equipment like:

a. Conductors, line length for the purpose of preparing single line diagram giving the details about Primary substation, Distribution transformers, cables and conductor length etc.

b. Technical details of 33kV &11 KV Overhead and Underground network, etc.

c. Peak Load details.

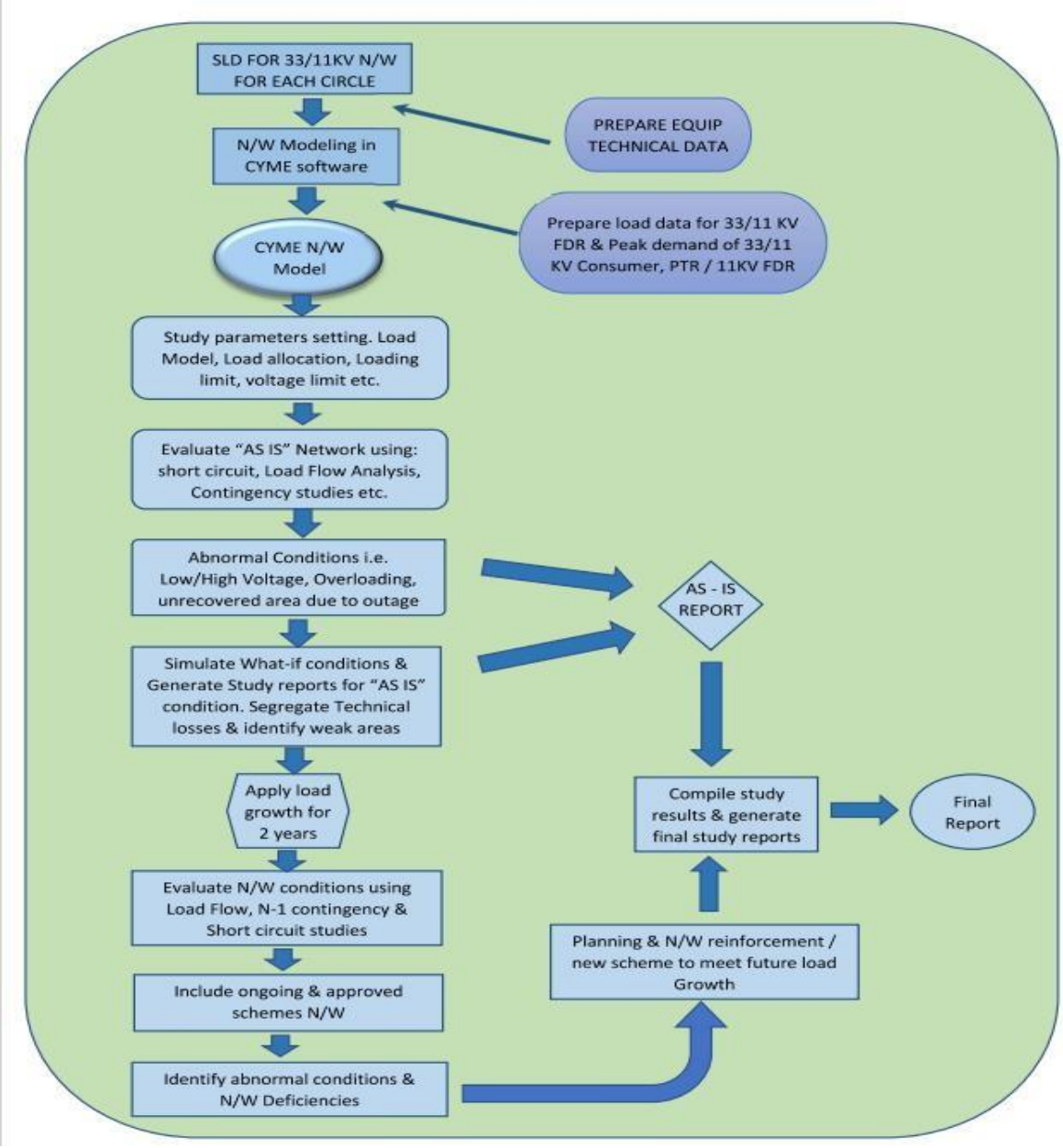
3. Network Modelling:

The collected network data is used to prepare the power distribution network model of 33kV &11 KV network in a Network analysis software (CYMDIST). This network model involves 33kV &11 KV feeder, transformer & loads etc. These models are used to simulate the network to find out the technical losses, voltage regulation in the system. The network details (Conductor type, length, switches etc.) were fed to network model in CYMDIST using

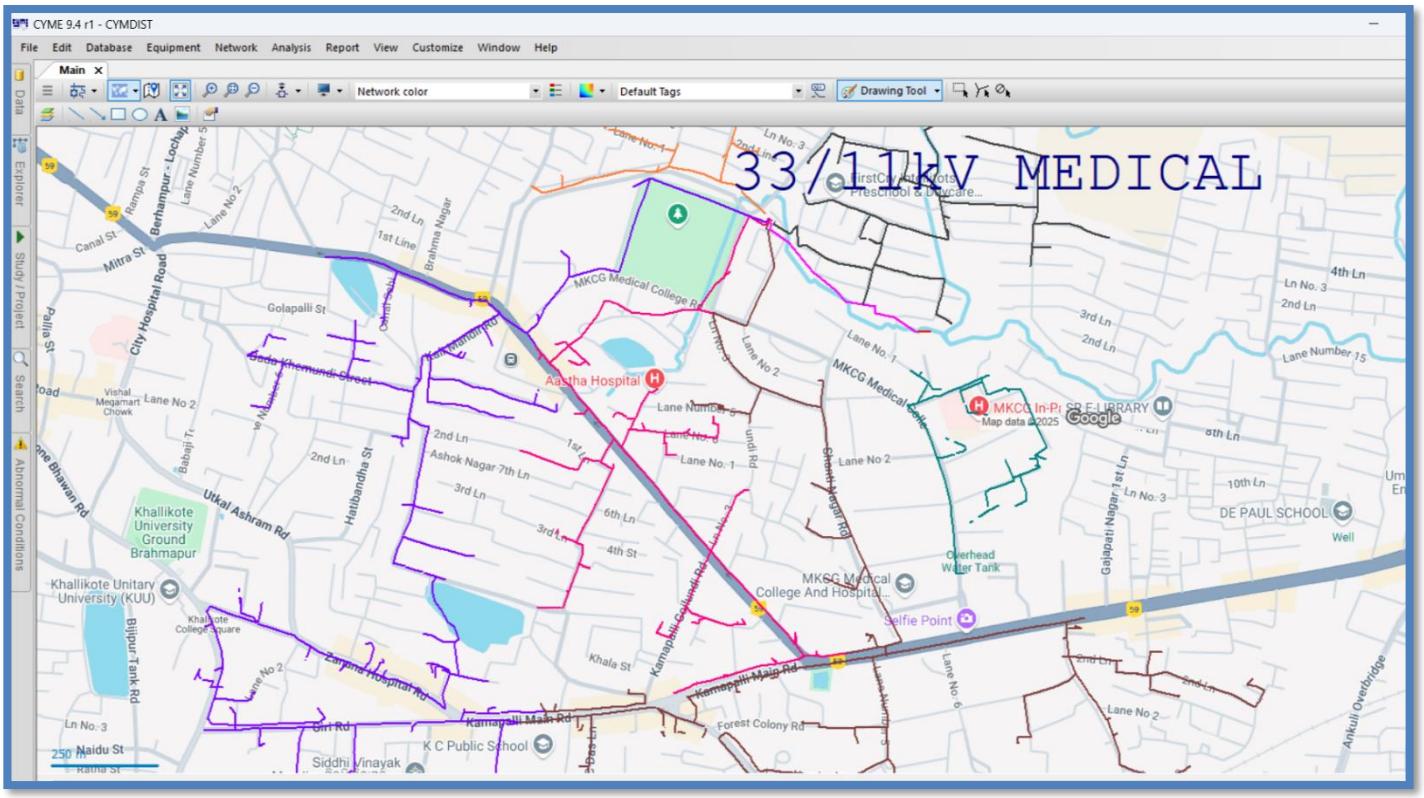
soft copies of SLDs collected from divisional offices along With GIS Data.

3.1. The "Base-Case" Analysis & Analysis after applying load growth:

Load flow analysis is carried out through CYMDIST software. Feeder loading Summary that contains the Loading of grids (feeder wise) and the technical losses are evaluated and reported by above Load flow software. Abnormal conditions such as overloading of cables, conductors and transformers are also reported.



Electrical Network Up-dation



Mapping of Circuits, involved configuring the attributes- line length, cable/conductor type and positive sequence impedances.

Mapping of Transformers, involved configuring the attributes- kVA Rating, Voltage Ratio, No-load Losses, % impedances, X/R Ratio and Vector Group.

3.2. Technical loss Assessment: -

The load flow studies of the TPSODL's Power Distribution Network have been carried out for loading of the network corresponding to the date and time of the recorded Peak Load. The network Losses calculated from the load flow studies correspond to the Losses in the Network at the Peak load condition. These losses are not representative figure for the entire year since the load on the network varies with seasons and the load profile also varies over the day.

To account for these variations in Network Loading, Loss Load Factor has been calculated and applied on assessed technical loss at Peak Load to derive Average Loss of TPSODL's Sub-transmission network over the year.

3.3. Representation of 11KV SLD modelled in CYME

3.3.1 Allocation of load

In case of 33kV &11 KV study, the respective 33kV &11 KV peak load were allocated at the sending end of 33kV &11 KVfeeders.

3.3.2 Load Flow Analysis

The load flow analysis was carried out using the inbuilt load flow module of CYME Software. The load flow studies of the TPSODL's Power Distribution Network have been carried out for loading of the network corresponding to the date and time of the recorded Peak Load.

3.3.3 Report Generation

Customized Reports were extracted from the software after the load flow analysis. These Reports comprise of Total Loss in the Electrical Network and details of losses in Transformers, 33kV &11 kV line & cables,

3.3.4 Loss Load Factor (LLF)

- Load Factor (LF) - (*Average Load / Maximum Load) in given time period*

- Loss Load Factor (LLF) - *A factor which when multiplied by energy loss during peak will give overall average energy loss.*

  It is based on the square of the load and expressed as:

$$LLF = \frac{1}{35040} \sum_{n=1}^{35040} (Load_n)^2 / (Peak\ Load)^2$$

  Where, $Load_n$ = the 15 minutes average load in the nth period
  35040 = the number of 15 minutes load recordings in one year
  Peak Load = the highest 15 minutes average load in the year.

  The empirical formulae :

  $LLF = 0.2 * LF + 0.8 * (LF)^{\wedge 2}$

Load Factor = Average Load/ Peak Load = 0.69(for 33kV & 11kV)

LLF calculated =0.49 (for 33kV & 11kV)

4. Network Loss assessment Circle wise:

33kV &11 KV circle wise network loss calculated through load flow studies is given below

Following approved schemes are mapped in CYME software for undertaking load flow study

- CAPEX for FY 22,23,24&25
- ODSSP-IV
- CMPDP
- SACI
- SDMF-State Disaster & Mitigation Fund
- Supplementary Capex for Berhampur city -Schemes to improve reliability

3kV &11 kV Loss level is expected to be 2.89% and 4.65% respectively as on dated May-25

4.1. 33KV Circle wise Loss report

Circle	Total Peak Load (KW) (A)	Total Average Load (KW) (B=A*H)	Line Losses (KW)(C)	Cable Losses (KW) (D)	Transformer Load Losses (KW) (E)	Transformer No-Load Losses (KW) (F)	Total Losses (KW) (G=C+D+E+F)	Load Factor -(H)	Loss Load Factor(I)	Distributed loss (Kw) @2.5%-J =(G*2.5%)	Total Loss with LLF (in kW) K=F+I*(C+D+E+J)	Loss% I=K/B
Aska	82672.11	57043.76	2762.69	1.62	227.46	206.39	3198.17	0.69	0.49	79.95	1711.54	3.00%
Berhampur	101470.76	70014.82	2929.57	44.45	560.46	260.25	3794.74	0.69	0.49	94.87	2038.63	2.91%
City	98847.13	68204.52	1545.73	4.62	250.04	199.72	2000.11	0.69	0.49	50.00	1106.41	1.62%
Rayagada	86788.29	59883.92	2006.26	0.0	163.38	365.71	2535.34	0.69	0.49	63.38	1459.89	2.44%
Jeypore	150522.31	103860.39	4147.11	0.02	205.28	554.56	4906.96	0.69	0.49	122.67	2747.35	2.65%
Bhanjanagar	86951.11	59996.27	5369.50	0.00	118.44	280.13	5768.07	0.69	0.49	144.20	3039.88	5.07%
TOTAL	**607251.72**	**419003.68**	**18760.85**	**50.72**	**1525.07**	**1866.75**	**22203.39**	**0.69**	**0.49**	**555.08**	**12103.70**	**2.89%**

4.2. 11kV Circle wise Loss report

Circle	Total Peak Load(KW) (A)	Total Average Load(KW) (B=A*H)	Line Losses (KW)(C)	Cable Losses (KW) (D)	Transformer Load Losses (KW) (E)	Transformer No-Load Losses (KW) (F)	Total Losses (KW) (G=C+D+E+F)	Load Factor-(H)	LLF(I)=0.2*H+.8(H)^2 LLF(I)=0.2*H+	Distributed loss (Kw) @2.5%-J=(G*2.5%)	Total Loss with LLF (in kW) K=F+I*(C+D+E+J)	Loss% I=K/B
Aska	76439.61	52743.33	1799.82	2.94	957.36	767.80	3527.92	0.69	0.49	88.20	2163.48	4.10%
Berhampur	99076.00	68362.44	2141.31	4.71	1111.20	971.11	4228.33	0.69	0.49	105.71	2618.94	3.83%
City	120010.93	82807.54	1903.37	10.01	1352.94	707.55	3973.88	0.69	0.49	99.35	2356.73	2.85%
Bhanjanagar	99645.38	68755.32	2643.53	13.15	1510.35	1723.36	5890.39	0.69	0.49	147.26	3837.36	5.58%
Rayagada	102502.24	70726.55	2131.46	2.89	1645.37	1525.01	5304.73	0.69	0.49	132.62	3442.06	4.87%
Jeypore	157519.47	108688.43	4543.13	3.16	2224.28	3172.28	9942.85	0.69	0.49	248.57	6611.66	6.08%
Total	**655193.64**	**452083.61**	**15162.61**	**36.85**	**8801.51**	**8867.12**	**32868.09**	**0.69**	**0.49**	**821.70**	**21030.23**	**4.65%**

4.3. 33kV &11kV Feeder Overloading Details

33kV & 11 KV Feeder overloading is considered for loading of the feeder beyond 80% of their installed capacity (as per conductor size) with considering 5 yrs. load growth.

Total 18 No's of 33kV overloaded feeders and 127 No's of 11kV overloaded feeders are identified under 5 yrs. load growth through load flow studies.

33kV Technical Loss
Total Technical Loss 2.89%

11kV Technical Loss
Total Technical Loss 4.65%

5 Yrs. Load Growth-33kV overloaded feeders
Total Number of feeders 158 nos.
No. of Feeder Overloaded 18 nos

5 Yrs. Load Growth-11kV overloaded feeders
Total Number of feeders 948 nos.
No. of Feeder Overloaded 127 nos

Considered under CAPEX FY 27 (for Mitigation Overloading)
Number of feeder Considered under CAPEX FY 27 are 08 nos.

Considered under CAPEX FY 27 (for Mitigation Overloading)
Number of feeder Considered under CAPEX FY 27 are 94 nos.

Technical Loss Trajectory

Description	FY 22	FY23	FY- 24	FY 25	FY 26 (Till Aug)
Technical loss (%) - 33kV	3.80	3.45	3.03	2.92	2.89
Technical loss (%) - 11kV	5.88	5.85	5.57	5.2	4.65

5 Yrs. Load Growth-33kV overloaded feeders				
Circle	**No. of 33kV Feeders**	**No. of Feeders Overloaded**	**% of Feeder Overloaded**	**Considered under CAPEX FY 27 (for Mitigation Overloading)**
City	15	3	20%	2
Berhampur	20	3	15%	2
Aska	17	3	18%	3
Bhanjanagar	21	5	24%	
Rayagada	26	1	4%	
Jeypore	59	3	5%	1
TOTAL	**158**	**18**		**8***

5 Yrs. Load Growth-11kV overloaded feeders				
Circle	**No. of 11kV Feeders**	**No. of Feeders Overloaded**	**% of Feeder Overloaded**	**Considered under CAPEX FY 27 (for Mitigation Overloading)**
City	86	38	44%	36
Berhampur	114	21	18%	10
Aska	86	8	9%	5
Bhanjanagar	185	15	8%	9
Rayagada	180	14	8%	10
Jeypore	297	31	10%	24
TOTAL	**948**	**127**	**13%**	**94**

**-Remaining feeders are not considered since overloading is not expected in next 2 years on these feeders. The same has also been confirmed with operations field staff These balance feeders will be considered for mitigation in next Capex planning as per requirement.*

5. Annexures Network Study Report:

5.1. 33kV Load flow study report-New Lines

S.no	Division	33kV Feeder	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A *H)	Line Losses(KW)(C)	Transformer Load Losses(KW) (E)	Transformer No-Load Losses(KW) (F)	Total Losses(KW) (G=C+D+E+F)	Load Factor-(H)	LLF(I)=0.2*H+.8 (H)^2	Distributed loss @2.5%- J=(G*2.5%)	Total Loss with LLF (in kW) K=F+I*(C+D+E+ J)	Loss% I=K/B
1	BNED	SORODA -EX	6312.97	4355.95	226.07	5.88	23.12	255.07	0.69	0.49	6.38	139.90	3.21%
2	BNED	SORODA -PR	6309.8	4353.76	222.81	5.87	23.16	251.84	0.69	0.49	6.30	138.30	3.18%
3	JED	BOIPARIGUDA-EX	2488.29	1716.92	51.77	0.82	33.16	85.75	0.69	0.49	2.14	59.98	3.49%
4	JED	BOIPARIGUDA-PR	2487.13	1716.12	50.61	0.82	33.17	84.60	0.69	0.49	2.11	59.41	3.46%
5	JED	BOIPARIGUDA-EX	2488.29	1716.92	51.77	0.82	33.16	85.76	0.69	0.49	2.14	59.98	3.49%
6	JED	BOIPARIGUDA-PR	2488.23	1716.88	51.71	0.82	33.16	85.70	0.69	0.49	2.14	59.96	3.49%
7	JED	KUNDRA-EX	3758.84	2593.60	98.12	1.38	19.76	119.27	0.69	0.49	2.98	69.98	2.70%
8	JED	KUNDRA-PR	3757.94	2592.98	50.61	1.38	19.77	71.76	0.69	0.49	1.79	46.12	1.78%
9	JED	KUNDRA-EX	3758.84	2593.60	98.12	1.38	19.76	119.27	0.69	0.49	2.98	69.98	2.70%
10	JED	KUNDRA-PR	3757.94	2592.98	50.61	1.38	19.77	71.76	0.69	0.49	1.79	46.12	1.78%
11	KED	KPT MEDICAL-EX	5237.19	3613.66	13.97	4.10	17.2	35.28	0.69	0.49	0.88	26.49	0.73%
12	KED	KPT MEDICAL-PR	5237.19	3613.66	13.97	4.10	17.2	35.28	0.69	0.49	0.88	26.49	0.73%
13	MED	MALKANIGIRI -EX	9508.27	6560.70	299.2	20.53	25.35	345.08	0.69	0.49	8.63	186.24	2.84%
14	MED	MALKANGIRI-PR	9508.27	6560.70	299.2	20.53	25.35	345.08	0.69	0.49	8.63	186.24	2.84%
15	PKED	DARINGBADI-EX	3390.99	2339.79	50.39	1.67	27.1	79.16	0.69	0.49	1.98	53.58	2.29%
16	PKED	DARINGBADI-PR	3390.92	2339.74	50.32	1.67	27.1	79.09	0.69	0.49	1.98	53.54	2.29%
17	PKED	PARALAKHEMUNDI-EX	5247.29	3620.63	341.97	2.78	48.42	393.16	0.69	0.49	9.83	222.16	6.14%
18	PKED	PARALAKHEMUNDI-PR	5245.1	3619.12	339.75	2.77	48.44	390.97	0.69	0.49	9.77	221.07	6.11%
19	PKED	DARINGBADI-EX	3390.99	2339.79	50.39	1.67	27.1	79.16	0.69	0.49	1.98	53.58	2.29%
20	PKED	DARINGBADI-PR	3390.99	2339.78	50.38	1.67	27.1	79.15	0.69	0.49	1.98	53.58	2.29%
21	PKED	KASINAGAR-EX	3568.08	2461.97	134.28	1.51	19.69	155.48	0.69	0.49	3.89	88.13	3.58%
22	PKED	KASINAGAR-PR	3568.06	2461.96	134.26	1.51	19.69	155.46	0.69	0.49	3.89	88.12	3.58%

S.no	Division	33kV Feeder	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A *H)	Line Losses(KW)(C)	Transformer Load Losses(KW) (E)	Transformer No-Load Losses(KW) (F)	Total Losses(KW) (G=C+D+E+F)	Load Factor-(H)	LLF(I)=0.2*H+.8 (H)^2	Distributed loss @2.5%- J=(G*2.5%)	Total Loss with LLF (in kW) K=F+I*(C+D+E+ J)	Loss% l=K/B
23	NED	BEHEDA -EX	12456.258	8594.818	1281.460	23.540	21.720	1326.72	0.69	0.49	33.17	677.42	7.88%
24	NED	BEHEDA-Pr	2405.06	1659.49	24.82	3.02	7.0	34.84	0.69	0.49	0.87	21.07	1.27%
25	NED	RAIGHAR-Pr	9648.12	6657.20	142.08	17.60	21.08	180.75	0.69	0.49	4.52	101.53	1.53%
26	RED	SILIPUT-EX	2428.49	1675.66	30.57	0.81	26.24	57.62	0.69	0.49	1.44	42.32	2.53%
27	RED	SILIPUT-PR	2427.53	1675.00	29.56	0.81	26.26	56.63	0.69	0.49	1.42	41.83	2.50%
28	GNED	CHATRAPUR FEEDER-Ex	4616.18	3185.17	5.97	16.60	12.25	34.82	0.69	0.49	0.87	23.74	0.75%
29	GNED	CHATRAPUR-1 FEEDER-Pr	3238.36	2234.47	2.94	15.18	8.07	26.19	0.69	0.49	0.65	17.27	0.77%
30	GNED	CHATRAPUR-2 FEEDER-Pr	1375.10	948.82	0.52	1.40	4.20	6.12	0.69	0.49	0.15	5.21	0.55%
31	BED-1	MKCG EXPRESS FEEDER-Ex	10626.33	7332.17	182.04	20.76	23.66	226.45	0.69	0.49	5.66	125.80	1.72%
32	BED-1	MKCG EXPRESS FEEDER-Pr	10626.04	7331.97	181.75	20.76	23.66	226.16	0.69	0.49	5.65	125.66	1.71%
33	GSED	PATRAPUR FEEDER-Ex	5906.79	4075.68	151.36	10.41	13.92	175.70	0.69	0.49	4.39	95.34	2.34%
34	GSED	PATRAPUR FEEDER-Pr	5906.59	4075.55	151.16	10.41	13.93	175.50	0.69	0.49	4.39	95.25	2.34%
35	BED-1	AMBAPUA FEEDER-Ex	14554.51	10042.61	368.58	42.61	27.52	438.71	0.69	0.49	10.97	234.38	2.33%
36	BED-1	AMBAPUA FEEDER-Pr	14554.51	10042.61	368.58	42.61	27.52	438.71	0.69	0.49	10.97	234.38	2.33%
37	PSED	PURUSOTTAMPUR FEEDER-Ex	5174.17	3570.18	44.03	13.65	7.91	65.59	0.69	0.49	1.64	36.98	1.04%
38	PSED	PURUSOTTAMPUR FEEDER-Pr	5174.17	3570.18	44.03	13.65	7.91	65.59	0.69	0.49	1.64	36.98	1.04%
39	AED-1	NUAGAON FEEDER-Ex	8160.53	5630.76	99.76	24.13	12.68	136.58	0.69	0.49	3.41	75.06	1.33%
40	AED-1	NUAGAON FEEDER-Pr	8160.53	5630.76	99.76	24.13	12.68	136.58	0.69	0.49	3.41	75.06	1.33%

5.2. 33kV Load flow study report-Upgradation

S.no	Division	33kV Feeder	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*H)	Line Losses(KW)(C)	Transformer Load Losses(KW) (E)	Transformer No-Load Losses(KW) (F)	Total Losses(KW) (G=C+D+E+F)	Load Factor-(H)	LLF(I)= 0.2*H+.8(H)^2	Distributed loss @2.5%-J=(G*2.5%)	Total Loss with LLF (in kW) K=F+I*(C+D+E+J)	Loss% I=K/B
1	AED-1	ASKA FEEDER-Ex	6985.10	4819.72	172.03	12.76	12.16	196.94	0.69	0.49	4.92	105.11	2.18%
2	AED-1	ASKA FEEDER-PR	6985.04	4819.68	171.96	12.76	12.16	196.88	0.69	0.49	4.92	105.08	2.18%
3	AED-1	SORODA FEEDER-Ex	9304.52	6420.12	520.76	14.77	31.87	567.40	0.69	0.49	14.18	301.23	4.69%
4	AED-1	SORODA FEEDER-Pr	9200.19	6348.13	414.66	14.49	32.53	461.68	0.69	0.49	11.54	248.47	3.91%
5	AED-2	BUDHAMBA FEEDER-Ex	10304.52	7110.12	826.00	58.28	14.31	898.59	0.69	0.49	22.46	458.61	6.45%
6	AED-2	BUDHAMBA FEEDER-Pr	10189.32	7030.63	710.59	56.98	14.62	782.19	0.69	0.49	19.55	400.31	5.69%
7	BED-1	AMBAPUA FEEDER-Ex	14554.51	10042.61	368.58	42.61	27.52	438.71	0.69	0.49	10.97	234.38	2.33%
8	BED-1	AMBAPUA FEEDER-Pr	14407.04	9940.85	220.13	41.71	27.95	289.79	0.69	0.49	7.24	159.80	1.61%
9	BED-1	MEDICAL FEEDER-Ex	12795.83	8829.12	253.09	31.98	18.22	303.28	0.69	0.49	7.58	161.62	1.83%
10	BED-1	MEDICAL FEEDER-Pr	11374.06	7848.10	124.23	31.29	18.59	174.12	0.69	0.49	4.35	96.93	1.24%
11	BED-3	CHIKITI (BERHAMPUR GSS)-Ex	8388.10	5787.79	246.45	21.72	24.99	293.16	0.69	0.49	7.33	159.99	2.76%
12	BED-3	CHIKITI (BERHAMPUR GSS)-Pr	8364.89	5771.78	223.02	32.46	14.26	269.74	0.69	0.49	6.74	142.75	2.47%
13	GNED	KHALLIKOTE FEEDER-Ex	9151.28	6314.39	557.83	26.31	21.06	605.20	0.69	0.49	15.13	314.70	4.98%
14	GNED	KHALLIKOTE FEEDER-Pr	9060.78	6251.94	467.12	25.80	21.47	514.39	0.69	0.49	12.86	269.30	4.31%
15	HED	HINJILI FEEDER (HINJILI GSS)-Ex	10206.48	7042.47	112.18	25.34	22.43	159.94	0.69	0.49	4.00	91.77	1.30%
16	HED	HINJILI FEEDER (HINJILI GSS)-Pr	10168.17	7016.04	73.81	25.16	22.58	121.55	0.69	0.49	3.04	72.56	1.03%
17	GNED	TISCO FEEDER-Ex	7479.36	5160.76	114.12	244.77	9.65	368.54	0.69	0.49	9.21	190.02	3.68%
18	GNED	TISCO FEEDER-Pr	7477.84	5159.71	112.96	239.15	9.65	361.76	0.69	0.49	9.04	186.61	3.62%
19	HED	HINJILI FEEDER (PURUSOTTAM PUR GSS)-Ex	3695.66	2550.01	46.77	6.42	14.21	67.40	0.69	0.49	1.68	41.10	1.61%

S.no	Division	33kV Feeder	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*H)	Line Losses(KW)(C)	Transformer Load Losses(KW) (E)	Transformer No-Load Losses(KW) (F)	Total Losses(KW) (G=C+D+E+F)	Load Factor-(H)	LLF(I)= 0.2*H+.8(H)^2	Distributed loss @2.5%-J=(G*2.5%)	Total Loss with LLF (in kW) K=F+I*(C+D+E+J)	Loss% I=K/B
20	HED	HINJILI FEEDER (PURUSOTTAM PUR GSS)-Pr	3694.76	2549.39	39.90	4.94	14.26	59.10	0.69	0.49	1.48	36.95	1.45%
21	GED	BIKRAMPUR-EX	1210.68	835.37	7.87	0.55	7.09	15.51	0.69	0.49	0.39	11.41	1.37%
22	GED	BIKRAMPUR-PR	1209.98	834.89	7.14	0.55	7.10	14.79	0.69	0.49	0.37	11.05	1.32%
23	GED	GUMUDA-EX	2720.7	1877.28	38.22	0.01	22.56	60.79	0.69	0.49	1.52	42.04	2.24%
24	GED	GUMUDA-PR	2720.7	1877.28	38.2	0.01	22.56	60.77	0.69	0.49	1.52	42.03	2.24%
25	PKED	PARALAKHEMUNDI NEW-EX	7120.68	4913.27	107.62	32.08	8.09	147.80	0.69	0.49	3.69	78.36	1.59%
26	PKED	PARALAKHEMUNDI NEW-PR	7092.36	4893.73	72.27	31.81	8.16	112.23	0.69	0.49	2.81	60.53	1.24%
27	BNED	KB PUR -EX	4200.74	2898.51	98.21	1.33	6.3	105.84	0.69	0.49	2.65	56.37	1.94%
28	BNED	KB PUR -PR	4178.59	2883.23	75.97	1.32	6.35	83.65	0.69	0.49	2.09	45.25	1.57%
29	BNED	SORODA -EX	6312.97	4355.95	226.07	5.88	23.12	255.07	0.69	0.49	6.38	139.90	3.21%
30	BNED	SORODA -PR	6294.11	4342.93	207.3	5.89	23.09	236.28	0.69	0.49	5.91	130.44	3.00%
31	BOED	BOUDH -EX	8011.79	5528.14	201.62	9.24	16.96	227.82	0.69	0.49	5.70	123.07	2.23%
32	BOED	BOUDH-PR	7993.37	5515.43	183.09	9.24	16.96	209.29	0.69	0.49	5.23	113.76	2.06%
33	NED	KODINGA-Ex	7468.49	5153.26	467.48	16.53	15.45	499.46	0.69	0.49	12.49	258.73	5.02%
34	NED	KODINGA-Pr	7453.42	5142.86	452.34	16.46	15.49	484.29	0.69	0.49	12.11	251.14	4.88%
35	KED	TOSHALI FEEDER-Ex	3687.94	2544.68	214.0	0.00	0.00	214.00	0.69	0.49	5.35	107.48	4.22%
36	KED	TOSHALI FEEDER-PR	8470.54	5844.68	56.7	0.00	0.00	56.70	0.69	0.49	1.42	28.48	0.49%
37	KED	KORAPUT FEEDER-Ex	8476.17	5848.55	62.34	19.32	13.71	95.37	0.69	0.49	2.38	54.89	0.94%
38	KED	KORAPUT FEEDER-PR	8470.54	5844.68	56.7	19.30	13.72	89.72	0.69	0.49	2.24	52.06	0.89%
39	NED	JHARIGAM-Ex	7140.53	4926.96	305.45	14.91	12.71	333.07	0.69	0.49	8.33	173.76	3.53%
40	NED	JHARIGAM-Pr	7119.73	4912.61	284.61	14.80	12.77	312.19	0.69	0.49	7.80	163.31	3.32%
41	PED	PHULBANI-EX	5571.75	3844.51	97.91	12.14	10.36	120.41	0.69	0.49	3.01	65.76	1.71%
42	PED	PHULBANI-PR	5526.01	3812.94	52.06	11.90	10.51	74.47	0.69	0.49	1.86	42.76	1.12%
43	RED	RAYAGADA-1 EX	7323.84	5053.45	68.51	30.22	11.73	110.46	0.69	0.49	2.76	61.46	1.22%
44	RED	RAYAGADA-2 PR	7284.32	5026.18	28.94	29.93	11.83	70.70	0.69	0.49	1.77	41.54	0.83%

5.3. 11kV Load flow study report-New Line

S.no	Division	11kV feeder	Scenerio	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
1	PED	DUTIAPADA	Ex	617.29	425.93	25.99	2.96	28.44	57.39	0.69	0.49	1.43	43.33	10.17%
2	PED	DUTIAPADA-EX	Proposed	358.00	247.02	9.36	1.77	17.83	28.96	0.69	0.49	0.72	23.64	9.57%
3	PED	DUTIAPADA-New		249.88	172.41	4.32	1.09	11.70	17.11	0.69	0.49	0.43	14.56	8.44%
4	BED-I	ANKULI NH	EX	2246.20	1549.88	44.96	20.7	9.85	75.51	0.69	0.49	1.89	42.95	2.77%
5	BED-I	ANKULI NH	Proposed	1167.61	805.65	8.96	7.96	5.88	22.80	0.69	0.49	0.57	14.45	1.79%
6	BED-I	ANKULI NH-New feeder		1048.80	723.67	5.36	12.01	4.26	21.63	0.69	0.49	0.54	13.04	1.80%
7	BED-I	DURA	EX	685.85	473.24	6.56	7.81	4.56	18.92	0.69	0.49	0.47	11.83	2.50%
8	BED-I	DURA	Proposed	685.51	473.00	6.22	7.81	4.56	18.58	0.69	0.49	0.46	11.66	2.46%
9	BED-I	SIDHARTH NAGAR	Ex	2709.11	1869.29	19.57	34.59	13.17	67.33	0.69	0.49	1.68	40.54	2.17%
10	BED-I	SIDHARTH NAGAR	Proposed	1357.44	936.63	2.97	18.97	6.67	28.61	0.69	0.49	0.72	17.77	1.90%
11	BED-I	SIDHARTH NAGAR-New		1337.60	922.94	2.75	15.23	6.66	24.64	0.69	0.49	0.62	15.77	1.71%
12	BED-I	KARAPALLI	EX	1200.25	828.17	26.81	14.34	10.65	51.80	0.69	0.49	1.30	31.45	3.80%
13	BED-I	KARAPALLI	Proposed	1190.72	821.60	17.22	14.13	10.80	42.15	0.69	0.49	1.05	26.68	3.25%
14	BED-I	RAGHUNATHPUR	EX	1937.49	1336.87	10.14	11.20	17.35	38.69	0.69	0.49	0.97	28.28	2.12%
15	BED-I	RAGHUNATHPUR+Mandiapalli	Proposed	1937.63	1336.96	10.13	11.01	17.36	38.50	0.69	0.49	0.96	28.19	2.11%
16	BED-I	Tata Benz+ Lanjipalli	Ex	6224.11	4294.64	98.72	66.36	29.02	194.10	0.69	0.49	4.85	112.29	2.61%
17	BED-I	Tata Benz+ Lanjipalli	Proposed	4145.31	2860.26	33.51	74.42	20.14	128.07	0.69	0.49	3.20	74.59	2.61%
18	BED-I	11KV New Lanjipalli		1479.37	1020.77	13.66	11.86	6.18	31.70	0.69	0.49	0.79	19.07	1.87%
19	BED-I	Town Hall + Tata Benz	EX	6858.60	4732.43	90.01	154.49	22.65	267.15	0.69	0.49	6.68	145.73	3.08%
20	BED-I	Town Hall + Tata Benz	Proposed	5350.58	3691.90	47.20	142.00	16.80	206.00	0.69	0.49	5.15	112.03	3.03%
21	BED-I	Ambapua	Ex	2709.11	1869.29	59.24	21.28	18.47	98.99	0.69	0.49	2.47	59.14	3.16%
22	BED-I	Ambapua Proposed	Proposed	569.41	392.89	0.72	5.60	4.66	10.98	0.69	0.49	0.27	7.89	2.01%
23	BED-I	Ambapua New		506.99	349.82	0.55	2.62	5.03	8.20	0.69	0.49	0.21	6.68	1.91%
24	BED-I	Nilanchal Nagar	EX	1028.76	709.84	2.82	5.96	9.66	18.44	0.69	0.49	0.46	14.19	2.00%

S.no	Division	11kV feeder	Scenerio	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
25	BED-I	Nilanchal Nagar	Proposed	1028.76	709.84	2.82	5.96	9.66	18.44	0.69	0.49	0.46	14.19	2.00%
26	BED-I	OLD BUS STAND	Ex	2023.26	1396.05	19.26	25.38	3.26	47.90	0.69	0.49	1.20	25.72	1.84%
27	BED-I	OLD BUS STAND	Proposed	355.60	245.36	0.22	1.09	0.97	2.28	0.69	0.49	0.06	1.64	0.67%
28	BED-I	OLD BUS STAND-New		1652.00	1139.88	4.06	23.80	2.34	30.20	0.69	0.49	0.76	16.36	1.44%
29	BED-I	TATABENZ	Ex	3720.75	2567.31	67.96	36.51	18.37	122.84	0.69	0.49	3.07	71.06	2.77%
30	BED-I	TATABENZ	Proposed	1648.92	1137.75	9.63	15.17	9.44	34.24	0.69	0.49	0.86	22.01	1.93%
31	BED-I	TATABENZ		1479.37	1020.77	13.67	11.85	6.18	31.70	0.69	0.49	0.79	19.07	1.87%
32	BED-I	ANKULI NH	Ex	2246.20	1549.88	44.96	20.70	9.85	75.51	0.69	0.49	1.89	42.95	2.77%
33	BED-I	ANKULI NH	Proposed	882.12	608.66	5.04	14.32	4.26	23.62	0.69	0.49	0.59	14.04	2.31%
34	BED-I	ANKULI NH-New		1331.82	918.96	6.63	24.97	5.92	37.52	0.69	0.49	0.94	21.86	2.38%
35	AED-II	GOLIA	Ex	1114.32	768.88	37.45	12.44	12.94	62.83	0.69	0.49	1.57	38.16	4.96%
36	AED-II	GOLIA	Proposed	325.87	224.85	2.53	1.87	5.53	9.93	0.69	0.49	0.25	7.81	3.47%
37	AED-II	GOLIA		765.82	528.42	11.94	10.00	7.93	29.87	0.69	0.49	0.75	19.05	3.60%
38	AED-II	KS NAGAR TOWN	Ex	2589.96	1787.07	28.29	21.00	20.40	69.69	0.69	0.49	1.74	45.41	2.54%
39	AED-II	KS NAGAR TOWN	Proposed	2170.30	1497.51	18.77	18.68	18.14	55.59	0.69	0.49	1.39	37.17	2.48%
40	AED-II	KS NAGAR TOWN		411.10	283.66	0.84	2.20	5.44	8.48	0.69	0.49	0.21	7.03	2.48%
41	GED	PADMAPUR	Ex	1971.86	1360.58	25.31	47.36	11.79	84.46	0.69	0.49	2.11	48.43	3.56%
42	GED	PADMAPUR	Proposed	1194.93	824.50	8.87	34.41	6.73	50.01	0.69	0.49	1.25	28.55	3.46%
43	GED	PADMAPUR		772.00	532.68	11.81	12.63	5.12	29.56	0.69	0.49	0.74	17.46	3.28%
44	GNED	KHANDADEULI MEDICA	EX	2069.54	1427.98	50.01	35.31	22.62	107.94	0.69	0.49	2.70	65.75	4.60%
45	GNED	KHANDADEULI MEDICA	Proposed	2043.87	1410.27	22.08	34.82	23.46	80.36	0.69	0.49	2.01	52.33	3.71%
46	GSED	DUMULA	EX	723.29	499.07	3.69	18.12	8.32	30.13	0.69	0.49	0.75	19.38	3.88%
47	GSED	DUMULA	Proposed	723.02	498.88	3.42	18.11	8.33	29.86	0.69	0.49	0.75	19.25	3.86%
48	GED	Jaltar-Puttasing	EX	608.71	420.01	9.04	3.87	19.37	32.28	0.69	0.49	0.81	26.09	6.21%
49	GED	Jaltar-Puttasing	Proposed	608.71	420.01	9.04	3.87	19.37	32.28	0.69	0.49	0.81	26.09	6.21%
50	GED	Gumuda-Subdrapur	EX	771.58	532.39	3.11	5.97	15.18	24.26	0.69	0.49	0.61	19.93	3.74%
51	GED	Gumuda-Subdrapur	Proposed	771.58	532.39	3.11	5.97	15.18	24.26	0.69	0.49	0.61	19.93	3.74%

S.no	Division	11kV feeder	Scenerio	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
52	GED	Regada-Court	EX	4303.87	2969.67	88.98	63.04	26.83	178.85	0.69	0.49	4.47	103.51	3.49%
53	GED	Regada-Court	Proposed	4303.87	2969.67	88.98	63.04	26.83	178.85	0.69	0.49	4.47	103.51	3.49%
54	GED	Court-Town	EX	5195.81	3585.11	76.06	95.94	29.75	201.75	0.69	0.49	5.04	116.50	3.25%
55	GED	Court-Town	Proposed	5195.81	3585.11	76.06	95.94	29.75	201.75	0.69	0.49	5.04	116.50	3.25%
56	GED	Bankili-Tandikona	EX	343.10	236.74	0.94	3.74	10.12	14.80	0.69	0.49	0.37	12.59	5.32%
57	GED	Bankili-Tandikona	Proposed	343.10	236.74	0.94	3.74	10.12	14.80	0.69	0.49	0.37	12.59	5.32%
58	KED	Girliguma	Ex	222.90	153.80	1.33	1.19	15.51	18.03	0.69	0.49	0.45	16.97	11.03%
59	KED	Girliguma	Proposed	75.86	52.35	0.12	0.42	6.37	6.91	0.69	0.49	0.17	6.72	12.84%
60	KED	New Feeder Dasmantpur		146.86	101.33	0.88	0.77	9.19	10.84	0.69	0.49	0.27	10.13	10.00%
61	KED	Sunki	Ex	411.53	283.95	24.30	4.30	36.56	65.16	0.69	0.49	1.63	51.37	18.09%
62	KED	Sunki	Proposed	124.80	86.12	1.46	0.35	14.08	15.89	0.69	0.49	0.40	15.16	17.60%
63	KED	Sunki-New		279.18	192.63	13.32	3.73	23.99	41.04	0.69	0.49	1.03	32.85	17.05%
64	KED	Koraput No-2 & Podagada No-2	EX	2571.95	1774.65	62.57	85.63	42.98	191.18	0.69	0.49	4.78	117.94	6.65%
65	KED	Koraput No-2 & Podagada No-2	Proposed	2568.38	1772.18	56.15	85.88	43.95	185.98	0.69	0.49	4.65	115.82	6.54%
66	KED	Koraput No-1 & Silk Board	EX	1714.63	1183.09	8.58	15.02	24.33	47.93	0.69	0.49	1.20	36.48	3.08%
67	KED	Koraput No-1 & Silk Board	Proposed	1715.31	1183.56	8.68	14.84	24.33	47.85	0.69	0.49	1.20	36.44	3.08%
68	KED	Koraput No-3	Ex	1577.46	1088.45	11.97	21.23	15.82	49.01	0.69	0.49	1.23	32.68	3.00%
69	KED	Koraput No-3	Proposed	1386.38	956.60	8.26	19.76	12.40	40.42	0.69	0.49	1.01	26.63	2.78%
70	KED	Koraput No-3 & New Feeder from OMP PSS		187.93	129.67	0.50	1.19	3.53	5.22	0.69	0.49	0.13	4.42	3.41%
71	KED	Lulla	Ex	137.17	94.65	0.47	0.60	15.31	16.38	0.69	0.49	0.41	16.04	16.94%
72	KED	Lulla	Proposed	35.79	24.69	0.03	0.14	4.60	4.77	0.69	0.49	0.12	4.74	19.19%
73	KED	Lull-New		101.33	69.92	0.34	0.46	10.74	11.54	0.69	0.49	0.29	11.27	16.13%
74	KED	Champi-Laxmiput Town	EX	977.33	674.36	3.98	16.55	17.06	37.59	0.69	0.49	0.94	27.58	4.09%
75	KED	Champi-Laxmiput Town	Proposed	977.37	674.39	3.96	16.55	17.06	37.58	0.69	0.49	0.94	27.57	4.09%
76	KED	Balipeta	Ex	257.20	177.47	1.88	0.86	21.47	24.22	0.69	0.49	0.61	23.11	13.02%

S.no	Division	11kV feeder	Scenerio	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
77	KED	Balipeta	Proposed	137.96	95.19	0.90	0.35	11.89	13.13	0.69	0.49	0.33	12.66	13.30%
78	KED	Balipeta-New		118.88	82.02	0.47	0.51	9.66	10.65	0.69	0.49	0.27	10.28	12.53%
79	KED	Kundili	Ex	857.35	591.57	46.35	2.99	56.37	105.71	0.69	0.49	2.64	81.84	13.83%
80	KED	Kundili	Proposed	128.85	88.91	0.23	0.63	7.38	8.23	0.69	0.49	0.21	7.90	8.88%
81	KED	Kundili-New		711.55	490.97	25.87	2.25	51.43	79.54	0.69	0.49	1.99	66.18	13.48%
82	AED-I	Nuagaon	EX	823.01	567.88	2.50	7.37	4.51	14.38	0.69	0.49	0.36	9.52	1.68%
83	AED-I	Nuagaon	Proposed	823.01	567.88	2.20	7.37	4.51	14.08	0.69	0.49	0.35	9.37	1.65%
84	PSED	SUNATHARA	EX	822.99	567.87	30.74	5.12	9.10	44.96	0.69	0.49	1.12	27.22	4.79%
85	PSED	SUNATHARA	Proposed	819.91	565.74	27.57	5.09	9.16	41.82	0.69	0.49	1.05	25.68	4.54%
86	PSED	BHATAKUMARADA	EX	1097.37	757.18	15.93	4.97	10.29	31.20	0.69	0.49	0.78	20.92	2.76%
87	PSED	BHATAKUMARADA	Proposed	1097.37	757.18	15.93	4.97	10.29	31.20	0.69	0.49	0.78	20.92	2.76%
88	PSED	PURUSHOTTAMPUR TOW	EX	994.47	686.19	7.10	4.42	11.28	22.80	0.69	0.49	0.57	17.20	2.51%
89	PSED	PURUSHOTTAMPUR TOW/ACHULI	Proposed	927.29	639.83	6.57	4.42	11.28	22.27	0.69	0.49	0.56	16.94	2.65%
90	PSED	BALICHAI HATIOTA	EX	1766.05	1218.58	31.34	13.37	17.43	62.13	0.69	0.49	1.55	40.09	3.29%
91	PSED	BALICHAI HATIOTA/KALAMBA	Proposed	1770.73	1221.80	31.22	13.48	17.32	62.01	0.69	0.49	1.55	39.98	3.27%
92	PKED	CHHELIGADA	Ex	205.76	141.97	1.25	0.48	21.41	23.14	0.69	0.49	0.58	22.54	15.88%
93	PKED	CHHELIGADA	Proposed	130.24	89.86	0.48	0.27	14.12	14.87	0.69	0.49	0.37	14.67	16.32%
94	PKED	11KV NEW CHEDIGADA		75.21	51.89	0.27	0.21	7.40	7.88	0.69	0.49	0.20	7.73	14.90%
95	PKED	PARALAKHEMUNDI TOWN-4	Ex	4289.39	2959.68	124.96	71.77	16.35	213.07	0.69	0.49	5.33	115.35	3.90%
96	PKED	PARALAKHEMUNDI TOWN-4	Proposed	1867.04	1288.26	11.13	24.99	9.20	45.33	0.69	0.49	1.13	27.46	2.13%
97	PKED	11KV NEW TOWN 4		2369.99	1635.29	62.75	45.03	7.56	115.34	0.69	0.49	2.88	61.78	3.78%
98	PKED	RAIGADA	Ex	342.92	236.61	0.81	5.16	4.82	10.80	0.69	0.49	0.27	7.88	3.33%
99	PKED	RAIGADA	Proposed	41.61	28.71	0.03	0.31	0.67	1.00	0.69	0.49	0.02	0.84	2.93%
100	PKED	11KV NEW RAIGADA		301.15	207.80	0.63	4.85	4.16	9.64	0.69	0.49	0.24	6.96	3.35%
101	BED-III	SASANPADAR	Ex	1355.41	935.24	58.58	12.89	11.09	82.57	0.69	0.49	2.06	47.13	5.04%
102	BED-III	SASANPADAR	Proposed	989.20	682.55	39.20	8.67	8.62	56.49	0.69	0.49	1.41	32.77	4.80%

S.no	Division	11kV feeder	Scenerio	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
103	BED-III	SANSAPADAR NEW		350.34	241.73	3.32	3.89	2.73	9.94	0.69	0.49	0.25	6.38	2.64%
104	NED	GUMUDA-DHODRA	EX	2331.89	1609.00	144.96	20.26	60.64	225.86	0.69	0.49	5.65	144.36	8.97%
105	NED	GUMUDA-DHODRA	Proposed	2286.66	1577.80	37.74	17.24	30.18	85.16	0.69	0.49	2.13	58.16	3.69%
106	NED	GUMUDA-TEMRA	EX	1971.83	1360.56	144.05	20.26	63.58	227.89	0.69	0.49	5.70	146.88	10.80%
107	NED	GUMUDA-TEMRA	Proposed	1624.11	1120.64	58.09	9.58	59.31	126.98	0.69	0.49	3.17	94.02	8.39%
108	NED	UMERKOT TOWN	Ex	1868.96	1289.58	24.08	27.10	11.70	62.88	0.69	0.49	1.57	37.55	2.91%
109	NED	UMERKOT TOWN	Proposed	1350.07	931.55	9.90	20.98	8.37	39.25	0.69	0.49	0.98	23.98	2.57%
110	NED	UMERKOT TOWN		506.56	349.53	2.02	5.80	3.49	11.31	0.69	0.49	0.28	7.46	2.13%
111	NED	NABRANGPUR TOWN NO-1	Ex	2383.38	1644.53	46.58	51.49	13.81	111.88	0.69	0.49	2.80	63.23	3.85%
112	NED	NABRANGPUR TOWN NO-1	Proposed	1366.04	942.57	16.81	14.33	8.86	40.00	0.69	0.49	1.00	24.61	2.61%
113	NED	NABRANGPUR TOWN NO-1		994.15	685.96	5.83	35.83	5.23	46.89	0.69	0.49	1.17	26.22	3.82%
114	NED	DONGRA-PAPADAHANDI	EX	1114.51	769.01	16.20	7.83	22.13	46.16	0.69	0.49	1.15	34.47	4.48%
115	NED	DONGRA-PAPADAHANDI	Proposed	1113.46	768.29	14.98	7.81	22.21	45.00	0.69	0.49	1.13	33.93	4.42%
116	BED-III	SURULA-BHAIRABI	EX	2012.83	1388.85	45.69	8.95	29.45	84.09	0.69	0.49	2.10	57.25	4.12%
117	BED-III	SURULA-BHAIRABI	Proposed	2011.06	1387.63	45.53	8.87	29.39	83.78	0.69	0.49	2.09	57.07	4.11%
118	BED-III	RANDHA-TULU	EX	4318.67	2979.88	204.92	33.08	32.16	270.16	0.69	0.49	6.75	152.09	5.10%
119	BED-III	RANDHA-TULU	Proposed	4019.78	2773.65	138.81	31.52	28.14	198.46	0.69	0.49	4.96	114.03	4.11%
120	BED-III	KUKUDAKHANDI-BOULAJHOLI	EX	2648.06	1827.16	76.10	31.64	12.83	120.57	0.69	0.49	3.01	67.10	3.67%
121	BED-III	KUKUDAKHANDI-BOULAJHOLI	Proposed	2637.25	1819.70	65.07	31.55	12.94	109.56	0.69	0.49	2.74	61.63	3.39%
122	BED-III	LATHI-SANSAPADAR	EX	2933.73	2024.27	76.62	42.46	18.55	137.63	0.69	0.49	3.44	78.59	3.88%
123	BED-III	LATHI-SANSAPADAR	Proposed	2567.32	1771.45	57.19	38.23	16.08	111.50	0.69	0.49	2.79	64.20	3.62%
124	PED	BALLIGUDA HIGH SCH	Ex	1871.73	1291.50	3.04	165.79	2.37	171.19	0.69	0.49	4.28	87.19	6.75%
125	PED	BALLIGUDA HIGH SCH	Proposed	1216.69	839.51	0.97	119.64	0.90	121.50	0.69	0.49	3.04	61.49	7.32%
126	PED	BALIGUDA HIGH SCHOOL NEW		654.73	451.76	1.25	46.07	1.47	48.79	0.69	0.49	1.22	25.25	5.59%
127	PED	MUSUKULI	EX	10.80	7.45	0.01	0.04	0.69	0.73	0.69	0.49	0.02	0.72	9.64%
128	PED	MUSUKULI	Proposed	10.80	7.45	0.01	0.04	0.69	0.73	0.69	0.49	0.02	0.72	9.64%

S.no	Division	11kV feeder	Scenerio	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
129	PED	BISIPADA-KATRINGIA	EX	866.59	597.95	40.53	3.94	34.76	79.23	0.69	0.49	1.98	57.52	9.62%
130	PED	BISIPADA-KATRINGIA	Proposed	863.59	595.88	32.61	3.90	35.73	72.24	0.69	0.49	1.81	54.50	9.15%
131	PED	DARSINGIBADI	Ex	277.44	191.43	4.30	0.64	32.11	37.05	0.69	0.49	0.93	34.98	18.27%
132	PED	DARSINGIBADI	Proposed	91.62	63.22	0.60	0.22	10.92	11.73	0.69	0.49	0.29	11.46	18.13%
133	PED	DARSINGBADI NEW		185.27	127.84	2.92	0.42	21.34	24.69	0.69	0.49	0.62	23.28	18.21%
134	PED	PHULBANI COLLEGE	EX	1493.43	1030.47	29.27	18.31	15.56	63.14	0.69	0.49	1.58	39.65	3.85%
135	PED	PHULBANI COLLEGE	Proposed	1493.43	1030.47	29.27	18.31	15.56	63.14	0.69	0.49	1.58	39.65	3.85%
136	PED	PHULBANI BAZAAR-PHULBANI MEDICAL	EX	2635.37	1818.41	29.27	53.63	20.82	103.72	0.69	0.49	2.59	62.71	3.45%
137	PED	PHULBANI BAZAAR-PHULBANI MEDICAL	Proposed	2635.37	1818.41	29.24	53.63	20.82	103.69	0.69	0.49	2.59	62.69	3.45%
138	PED	KURTAMAGADA	Ex	462.97	319.45	25.38	2.19	22.33	49.90	0.69	0.49	1.25	36.45	11.41%
139	PED	KURTAMAGADA	Proposed	286.96	198.00	7.71	1.42	15.29	24.42	0.69	0.49	0.61	20.07	10.13%
140	PED	KURTAMGADA NEW		163.94	113.12	2.56	0.65	8.52	11.73	0.69	0.49	0.29	10.24	9.05%
141	GSED	ANKORODA	Ex	617.26	425.91	8.67	2.38	18.78	29.83	0.69	0.49	0.75	24.56	5.77%
142	GSED	ANKORODA	Proposed	206.16	142.25	0.73	1.04	2.14	3.91	0.69	0.49	0.10	3.06	2.15%
143	HED	ANKORODA NEW		406.74	280.65	2.88	1.30	17.00	21.18	0.69	0.49	0.53	19.31	6.88%
144	HED	Pitala	Ex	1200.24	828.17	12.27	10.98	13.39	36.64	0.69	0.49	0.92	25.23	3.05%
145	HED	Pitala	Proposed	642.82	443.55	6.10	6.01	8.09	20.20	0.69	0.49	0.51	14.27	3.22%
146	HED	Pitala-New		683.76	471.79	4.10	5.30	6.01	15.41	0.69	0.49	0.39	10.80	2.29%
147	BNED	BADAKODANDA-Gangapur (Bhanjanagar)	EX	706.42	487.43	10.60	5.84	6.51	22.95	0.69	0.49	0.57	14.85	3.05%
148	BNED	BADAKODANDA-Gangapur (Bhanjanagar)	Proposed	704.02	485.77	8.16	5.79	6.56	20.52	0.69	0.49	0.51	13.65	2.81%
149	BNED	BAIBALI	EX	755.52	521.31	12.18	6.97	15.08	34.23	0.69	0.49	0.86	24.88	4.77%
150	BNED	BAIBALI	Proposed	641.35	442.53	8.57	5.85	12.91	27.33	0.69	0.49	0.68	20.31	4.59%
151	BNED	SORADA TOWN	EX	2473.54	1706.74	49.64	24.55	23.62	97.81	0.69	0.49	2.45	61.17	3.58%
152	BNED	SORADA TOWN	Proposed	2471.28	1705.19	47.38	24.51	23.65	95.55	0.69	0.49	2.39	60.05	3.52%

S.no	Division	11kV feeder	Scenerio	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
153	BED-II	Tulsi Nagar	Ex	2559.82	1766.28	22.07	29.00	12.65	63.72	0.69	0.49	1.59	38.45	2.18%
154	BED-II	Tulsi Nagar	Proposed	1913.14	1320.07	12.80	24.23	8.58	45.61	0.69	0.49	1.14	27.28	2.07%
155	BED-II	Tulsi Nagar-New		637.50	439.88	0.09	4.57	4.19	8.85	0.69	0.49	0.22	6.58	1.50%
156	BED-II	City Hospital	EX	1835.19	1266.28	20.63	20.55	11.37	52.55	0.69	0.49	1.31	32.19	2.54%
157	BED-II	City Hospital	Proposed	1835.19	1266.28	20.01	20.55	11.37	51.93	0.69	0.49	1.30	31.88	2.52%
158	JED	KHADAPA	EX	308.64	212.96	4.14	2.33	8.93	15.41	0.69	0.49	0.39	12.30	5.77%
159	JED	KHADAPA	Proposed	303.71	209.56	4.00	2.33	8.66	14.99	0.69	0.49	0.37	11.95	5.70%
160	JED	TOWN	EX	2109.02	1455.23	37.74	52.54	13.42	103.70	0.69	0.49	2.59	58.93	4.05%
161	JED	TOWN	Proposed	2092.90	1444.10	22.27	51.74	13.56	87.57	0.69	0.49	2.19	50.90	3.52%
162	JED	JEYPORE-2	EX	1697.50	1171.28	30.45	24.31	11.76	66.52	0.69	0.49	1.66	39.41	3.36%
163	JED	JEYPORE-2	Proposed	1697.13	1171.02	30.23	24.29	11.77	66.29	0.69	0.49	1.66	39.30	3.36%

5.4. 11kV Load flow study report-Upgradation

S.no	Division	11kV feeder	Scenario	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
1	BED-1	GOODSHED	EX	514.39	354.93	0.71	8.48	2.90	12.09	0.69	0.49	0.30	7.55	2.13%
2	BED-1	GOODSHED	PR	514.05	354.70	0.38	8.47	2.90	11.75	0.69	0.49	0.29	7.38	2.08%
3	BED-1	HILPATNA	EX	2040.41	1407.89	27.48	16.47	14.67	58.62	0.69	0.49	1.47	36.92	2.62%
4	BED-1	HILPATNA	PR	2036.59	1405.24	23.65	16.42	14.72	54.79	0.69	0.49	1.37	35.02	2.49%

S.no	Division	11kV feeder	Scenario	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
5	BED-1	LANJIPALLI	EX	2503.37	1727.32	30.75	29.85	10.65	71.25	0.69	0.49	1.78	41.22	2.39%
6	BED-1	LANJIPALLI	PR	2496.39	1722.51	23.88	33.70	10.70	68.28	0.69	0.49	1.71	39.75	2.31%
7	BED-1	TATABENZ	EX	3720.75	2567.31	67.96	36.51	18.37	122.84	0.69	0.49	3.07	71.07	2.77%
8	BED-1	TATABENZ	PR	1648.92	1137.75	9.63	15.17	9.44	34.24	0.69	0.49	0.86	22.01	1.93%
9	BED-2	AUTONAGAR	EX	132.15	91.18	0.05	0.56	1.42	2.03	0.69	0.49	0.05	1.74	1.91%
10	BED-2	AUTONAGAR	PR	132.16	91.19	0.04	0.56	1.42	2.02	0.69	0.49	0.05	1.74	1.91%
11	BED-2	GANDHINAGAR-I	EX	1713.00	1181.97	11.94	11.52	10.26	33.72	0.69	0.49	0.84	22.17	1.88%
12	BED-2	GANDHINAGAR-I	PR	1710.83	1180.47	9.77	11.50	10.28	31.55	0.69	0.49	0.79	21.09	1.79%
13	BED-2	HOUSING BOARD	EX	3284.76	2266.48	26.60	35.39	15.84	77.83	0.69	0.49	1.95	47.17	2.08%
14	BED-2	HOUSING BOARD	PR	3641.97	2512.96	18.51	35.24	15.90	69.65	0.69	0.49	1.74	43.09	1.71%
15	BED-2	ASKA ROAD	EX	2441.71	1684.78	34.53	33.23	8.91	76.67	0.69	0.49	1.92	43.05	2.56%
16	BED-2	ASKA ROAD	PR	2431.82	1677.95	24.43	32.99	8.98	66.40	0.69	0.49	1.66	37.93	2.26%
17	BED-2	CITYHOSPITAL-AMBAG	EX	1835.19	1266.28	20.67	20.55	11.37	52.59	0.69	0.49	1.31	32.21	2.54%
18	BED-2	CITYHOSPITAL-AMBAG	PR	1835.26	1266.33	20.62	20.56	11.37	52.55	0.69	0.49	1.31	32.19	2.54%
19	BED-2	OLD BARHAMPUR	EX	2166.63	1494.98	23.81	25.22	12.15	61.18	0.69	0.49	1.53	36.93	2.47%
20	BED-2	OLD BARHAMPUR	PR	2166.75	1495.05	23.80	25.22	12.15	61.17	0.69	0.49	1.53	36.92	2.47%
21	BED-2	GANDHINAGAR-2	EX	4449.08	3069.87	59.52	43.03	24.53	127.08	0.69	0.49	3.18	76.33	2.49%
22	BED-2	GANDHINAGAR-2	PR	4449.11	3069.88	59.36	43.03	24.53	126.92	0.69	0.49	3.17	76.26	2.48%
23	BED-1	AMBAPUA	EX	2709.11	1869.29	59.24	21.28	18.47	98.99	0.69	0.49	2.47	59.14	3.16%
24	BED-1	AMBAPUA	PR	2697.51	1861.28	47.55	21.12	18.59	87.26	0.69	0.49	2.18	53.31	2.86%
25	BED-1	NIGAM NAGAR	EX	1183.10	816.34	9.65	14.29	5.29	29.23	0.69	0.49	0.73	17.38	2.13%
26	BED-1	NIGAM NAGAR	PR	1177.54	812.50	4.16	13.97	5.53	23.66	0.69	0.49	0.59	14.71	1.81%
27	BED-1	HARIPUR	EX	1508.90	1041.14	52.37	2.08	9.78	64.23	0.69	0.49	1.61	37.25	3.58%
28	BED-1	HARIPUR	PR	1508.89	1041.14	52.31	2.08	9.78	64.17	0.69	0.49	1.60	37.22	3.57%
29	BED-1	COURTPETA	EX	2829.15	1952.11	38.18	19.76	20.78	78.72	0.69	0.49	1.97	50.13	2.57%

S.no	Division	11kV feeder	Scenario	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
30	BED-1	COURTPETA	PR	2816.89	1943.65	25.90	19.62	20.94	66.46	0.69	0.49	1.66	44.06	2.27%
31	BED-1	KAMAPALLY	EX	2177.58	1502.53	18.35	23.53	8.02	49.90	0.69	0.49	1.25	29.15	1.94%
32	BED-1	KAMAPALLY	PR	2174.48	1500.39	15.29	23.47	8.04	46.80	0.69	0.49	1.17	27.60	1.84%
33	BED-1	OLD BUS STAND	EX	2023.26	1396.05	19.26	25.38	3.26	47.90	0.69	0.49	1.20	25.72	1.84%
34	BED-1	OLD BUS STAND	PR	355.60	245.36	0.22	1.09	0.97	2.28	0.69	0.49	0.06	1.64	0.67%
35	BED-1	MKCG HOSPITAL	EX	1303.08	899.12	4.44	0.89	3.53	8.86	0.69	0.49	0.22	6.25	0.69%
36	BED-1	MKCG HOSPITAL	PR	1302.00	898.38	3.36	0.89	3.54	7.79	0.69	0.49	0.19	5.72	0.64%
37	BED-1	GOLABANDHA	EX	1028.80	709.87	60.19	11.07	7.63	78.89	0.69	0.49	1.97	43.51	6.13%
38	BED-1	GOLABANDHA	PR	1020.26	703.98	51.66	10.91	7.73	70.30	0.69	0.49	1.76	39.25	5.58%
39	BED-1	KARAPALLI	EX	1200.25	828.17	26.81	14.34	10.65	51.80	0.69	0.49	1.30	31.45	3.80%
40	BED-1	KARAPALLI	PR	1190.72	821.60	17.22	14.13	10.80	42.14	0.69	0.49	1.05	26.67	3.25%
41	BED-1	TOWN HALL	EX	3137.85	2165.12	38.56	117.98	4.29	160.82	0.69	0.49	4.02	82.96	3.83%
42	BED-1	TOWN HALL	PR	3142.28	2168.17	37.57	117.98	4.29	159.83	0.69	0.49	4.00	82.46	3.80%
43	AED-II	BOLOSARA	EX	1640.41	1131.88	36.51	58.81	6.66	101.98	0.69	0.49	2.55	54.62	4.83%
44	AED-II	BOLOSARA	PR	1639.78	1131.45	35.70	58.80	6.67	101.17	0.69	0.49	2.53	54.21	4.79%
45	AED-II	GUDIALI	EX	1474.80	1017.61	38.66	15.87	14.23	68.76	0.69	0.49	1.72	41.79	4.11%
46	AED-II	GUDIALI	PR	1472.48	1016.01	36.33	15.82	14.23	66.38	0.69	0.49	1.66	40.60	4.00%
47	AED-II	BUDHAMBA	EX	412.46	284.60	1.33	3.72	4.73	9.78	0.69	0.49	0.24	7.32	2.57%
48	AED-II	BUDHAMBA	PR	412.46	284.60	1.33	3.72	4.73	9.78	0.69	0.49	0.24	7.32	2.57%
49	AED-II	PANGIDI	EX	999.58	689.71	16.97	13.12	7.84	37.93	0.69	0.49	0.95	23.05	3.34%
50	AED-II	PANGIDI	PR	991.21	683.93	11.60	12.97	7.92	32.49	0.69	0.49	0.81	20.36	2.98%
51	AED-II	A KADABADI	EX	857.30	591.54	4.64	8.53	11.98	25.15	0.69	0.49	0.63	18.74	3.17%
52	AED-II	A KADABADI	PR	857.31	591.54	4.60	8.53	11.98	25.11	0.69	0.49	0.63	18.72	3.16%
53	AED-II	ATHAGADA PATNA	EX	529.26	365.19	8.77	5.89	4.45	19.11	0.69	0.49	0.48	11.87	3.25%
54	AED-II	ATHAGADA PATNA	PR	529.26	365.19	8.74	5.89	4.45	19.08	0.69	0.49	0.48	11.85	3.25%
55	GED	GUNUPUR TOWN	EX	2709.34	1869.45	33.08	55.77	13.74	102.59	0.69	0.49	2.56	58.53	3.13%
56	GED	GUNUPUR TOWN	PR	2704.52	1866.12	28.58	55.56	13.78	97.92	0.69	0.49	2.45	56.21	3.01%

S.no	Division	11kV feeder	Scenario	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
57	GED	COURT(GUNUPUR)	EX	2486.47	1715.67	42.98	40.17	16.02	99.16	0.69	0.49	2.48	57.97	3.38%
58	GED	COURT(GUNUPUR)	PR	2486.19	1715.47	42.94	40.15	16.02	99.11	0.69	0.49	2.48	57.95	3.38%
59	GED	REGADA	EX	1817.39	1254.00	46.00	22.87	10.81	79.68	0.69	0.49	1.99	45.53	3.63%
60	GED	REGADA	PR	1817.36	1253.98	45.98	22.87	10.81	79.66	0.69	0.49	1.99	45.52	3.63%
61	GSED	JAKARA	EX	685.82	473.22	4.72	5.70	12.93	23.35	0.69	0.49	0.58	18.32	3.87%
62	GSED	JAKARA	PR	685.81	473.21	4.71	5.70	12.93	23.34	0.69	0.49	0.58	18.32	3.87%
63	GSED	KRUSHNA NAGAR	EX	274.34	189.29	1.82	0.69	6.57	9.08	0.69	0.49	0.23	7.91	4.18%
64	GSED	KRUSHNA NAGAR	PR	274.36	189.31	1.81	0.69	6.57	9.07	0.69	0.49	0.23	7.91	4.18%
65	GNED	BADAMADHAPUR	EX	1371.73	946.49	43.29	19.51	11.08	73.88	0.69	0.49	1.85	42.76	4.52%
66	GNED	BADAMADHAPUR	PR	1354.56	934.65	26.22	19.07	11.31	56.60	0.69	0.49	1.41	34.19	3.66%
67	GNED	PALUR	EX	1063.07	733.52	38.68	9.16	15.85	63.69	0.69	0.49	1.59	40.07	5.46%
68	GNED	PALUR	PR	1055.40	728.22	30.54	9.04	16.05	55.64	0.69	0.49	1.39	36.13	4.96%
69	GNED	KHANDADEULI	EX	1423.11	981.95	47.78	14.67	19.49	81.94	0.69	0.49	2.05	51.09	5.20%
70	GNED	KHANDADEULI	PR	1096.42	756.53	16.47	11.81	13.94	42.22	0.69	0.49	1.06	28.32	3.74%
71	GNED	KANHEIPUR	EX	2503.42	1727.36	165.27	51.51	17.51	234.29	0.69	0.49	5.86	126.60	7.33%
72	GNED	KANHEIPUR	PR	2503.35	1727.31	165.19	51.51	17.51	234.21	0.69	0.49	5.86	126.56	7.33%
73	GNED	SYAMASUNDARPUR	EX	1815.46	1252.67	79.30	37.45	11.24	127.99	0.69	0.49	3.20	70.02	5.59%
74	GNED	SYAMASUNDARPUR	PR	1798.28	1240.82	62.17	36.79	11.42	110.38	0.69	0.49	2.76	61.26	4.94%
75	GNED	KHALLIKOTE TOWN	EX	1536.83	1060.41	9.41	25.27	8.19	42.87	0.69	0.49	1.07	25.71	2.42%
76	GNED	KHALLIKOTE TOWN	PR	1533.34	1058.00	5.99	25.17	8.23	39.38	0.69	0.49	0.98	23.98	2.27%
77	GNED	SEMILIGUDA TOWN	EX	2091.90	1443.41	110.29	57.57	7.78	175.63	0.69	0.49	4.39	92.18	6.39%
78	GNED	SEMILIGUDA TOWN	PR	2089.54	1441.78	107.55	57.49	7.80	172.84	0.69	0.49	4.32	90.79	6.30%
79	KED	BILEIGUDA TOWN	EX	1236.52	853.20	9.76	14.72	30.06	54.54	0.69	0.49	1.36	42.72	5.01%
80	KED	BILEIGUDA TOWN	PR	1234.55	851.84	7.65	14.68	30.15	52.48	0.69	0.49	1.31	41.73	4.90%
81	PSED	ANGARAGAON OLD	EX	1080.23	745.36	29.10	6.62	12.51	48.24	0.69	0.49	1.21	30.61	4.11%
82	PSED	ANGARAGAON OLD	PR	1069.58	738.01	18.22	6.51	12.72	37.45	0.69	0.49	0.94	25.30	3.43%
83	PSED	PANDIRIPADA	EX	428.66	295.78	18.22	1.98	9.10	29.30	0.69	0.49	0.73	19.36	6.54%

S.no	Division	11kV feeder	Scenario	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
84	PSED	PANDIRIPADA	PR	428.66	295.78	18.22	1.98	9.10	29.30	0.69	0.49	0.73	19.36	6.54%
85	PSED	OLD GUDIALI	EX	531.54	366.76	6.00	2.50	9.09	17.59	0.69	0.49	0.44	13.47	3.67%
86	PSED	OLD GUDIALI	PR	530.94	366.35	5.38	2.49	9.11	16.98	0.69	0.49	0.42	13.18	3.60%
87	PSED	BHUTASARSINGI	EX	1628.88	1123.93	128.42	13.18	19.05	160.66	0.69	0.49	4.02	90.41	8.04%
88	PSED	BHUTASARSINGI	PR	1628.31	1123.54	127.83	13.18	19.07	160.07	0.69	0.49	4.00	90.12	8.02%
89	PSED	BELAGAON	EX	685.83	473.22	4.10	3.42	8.57	16.10	0.69	0.49	0.40	12.46	2.63%
90	PSED	BELAGAON	PR	685.83	473.22	4.10	3.42	8.57	16.10	0.69	0.49	0.40	12.46	2.63%
91	PSED	RANAJHALI	EX	274.34	189.30	2.59	1.05	4.71	8.35	0.69	0.49	0.21	6.59	3.48%
92	PSED	RANAJHALI	PR	274.34	189.30	2.59	1.05	4.71	8.35	0.69	0.49	0.21	6.59	3.48%
93	AED-I	NIMINA	EX	1543.15	1064.78	95.68	26.94	12.71	135.33	0.69	0.49	3.38	74.45	6.99%
94	AED-I	NIMINA	PR	1521.75	1050.01	73.20	26.90	13.01	113.12	0.69	0.49	2.83	63.45	6.04%
95	AED-I	COLLEGE SQUARE	EX	2657.71	1833.82	98.97	61.21	14.54	174.72	0.69	0.49	4.37	95.17	5.19%
96	AED-I	COLLEGE SQUARE	PR	2657.99	1834.01	98.57	61.22	14.53	174.32	0.69	0.49	4.36	94.96	5.18%
97	AED-I	MUKUNDAPUR	EX	3412.15	2354.38	216.02	80.19	21.75	317.96	0.69	0.49	7.95	170.79	7.25%
98	AED-I	MUKUNDAPUR	PR	3420.08	2359.85	215.53	80.38	21.67	317.57	0.69	0.49	7.94	170.55	7.23%
99	PKED	ANTARBA	EX	1013.68	699.44	63.20	8.60	23.08	94.88	0.69	0.49	2.37	59.43	8.50%
100	PKED	ANTARBA	PR	1010.34	697.14	60.62	8.66	22.93	92.21	0.69	0.49	2.31	58.01	8.32%
101	PKED	PITAPANI	EX	462.94	319.43	15.93	4.54	13.29	33.76	0.69	0.49	0.84	23.74	7.43%
102	PKED	PITAPANI	PR	462.54	319.15	15.33	4.53	13.32	33.19	0.69	0.49	0.83	23.46	7.35%
103	BED-III	LUCHAPADA	EX	3386.47	2336.67	80.08	100.19	13.54	193.81	0.69	0.49	4.85	104.25	4.46%
104	BED-III	LUCHAPADA	PR	3350.76	2312.02	44.51	98.84	13.83	157.18	0.69	0.49	3.93	86.00	3.72%
105	BED-III	NIMAKHANDI	EX	2863.98	1976.14	94.02	47.43	13.39	154.83	0.69	0.49	3.87	84.59	4.28%
106	BED-III	NIMAKHANDI	PR	2814.36	1941.91	45.13	45.84	13.76	104.72	0.69	0.49	2.62	59.61	3.07%
107	BED-III	NIST	EX	895.52	617.91	4.20	2.08	3.24	9.52	0.69	0.49	0.24	6.43	1.04%
108	BED-III	NIST	PR	895.51	617.90	4.20	2.08	3.24	9.51	0.69	0.49	0.24	6.43	1.04%
109	BED-III	TULU	EX	2209.00	1524.21	188.95	16.53	19.82	225.31	0.69	0.49	5.63	123.27	8.09%
110	BED-III	TULU	PR	1807.90	1247.45	119.74	14.94	15.83	150.50	0.69	0.49	3.76	83.66	6.71%

S.no	Division	11kV feeder	Scenario	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
111	NED	Turudhi	EX	2006.15	1384.24	167.73	29.65	32.20	229.58	0.69	0.49	5.74	131.73	9.52%
112	NED	Turudhi	PR	2003.11	1382.15	164.45	29.58	32.28	226.32	0.69	0.49	5.66	130.13	9.42%
113	NED	Chatabeda	EX	1903.32	1313.29	220.16	28.38	25.58	274.12	0.69	0.49	6.85	150.72	11.48%
114	NED	Chatabeda	PR	1906.45	1315.45	211.77	28.81	25.79	266.38	0.69	0.49	6.66	146.94	11.17%
115	NED	Gumuda	EX	1491.73	1029.30	132.56	10.76	42.98	186.30	0.69	0.49	4.66	115.49	11.22%
116	NED	Gumuda	PR	1144.01	789.37	46.60	6.39	38.70	91.69	0.69	0.49	2.29	65.79	8.33%
117	NED	Hatabharandi	EX	1971.86	1360.59	185.97	27.71	28.97	242.64	0.69	0.49	6.07	136.64	10.04%
118	NED	Hatabharandi	PR	1973.21	1361.51	179.63	27.85	29.14	236.63	0.69	0.49	5.92	133.71	9.82%
119	NED	Parchipara	EX	1063.09	733.53	61.68	24.68	13.87	100.23	0.69	0.49	2.51	57.41	7.83%
120	NED	Parchipara	PR	1048.92	723.76	45.48	24.37	14.31	84.15	0.69	0.49	2.10	49.56	6.85%
121	NED	Beheda	EX	1285.92	887.28	71.92	14.91	14.91	101.73	0.69	0.49	2.54	58.70	6.62%
122	NED	Beheda	PR	1270.95	876.96	56.48	14.57	15.22	86.27	0.69	0.49	2.16	51.09	5.83%
123	NED	Burja	EX	943.06	650.71	54.65	15.41	15.05	85.11	0.69	0.49	2.13	50.42	7.75%
124	NED	Burja	PR	927.76	640.15	38.61	15.38	15.05	69.04	0.69	0.49	1.73	42.35	6.62%
125	BOED	BAGHIAPADA	EX	668.71	461.41	15.85	5.46	14.50	35.81	0.69	0.49	0.90	25.38	5.50%
126	BOED	BAGHIAPADA	PR	667.33	460.46	13.81	5.45	14.60	33.85	0.69	0.49	0.85	24.44	5.31%
127	BOED	BIRANARASING PUR	EX	462.95	319.44	4.36	4.02	10.49	18.87	0.69	0.49	0.47	14.82	4.64%
128	BOED	BIRANARASING PUR	PR	462.95	319.44	4.36	4.02	10.49	18.86	0.69	0.49	0.47	14.82	4.64%
129	HED	Badakhandi	EX	1063.10	733.54	12.91	5.20	13.27	31.38	0.69	0.49	0.78	22.53	3.07%
130	HED	Badakhandi	PR	1063.06	733.51	12.89	5.20	13.27	31.36	0.69	0.49	0.78	22.52	3.07%
131	HED	Padamanvapur	EX	1003.93	692.71	31.97	4.88	10.34	47.19	0.69	0.49	1.18	28.97	4.18%
132	HED	Padamanvapur	PR	994.48	686.19	22.28	4.98	10.32	37.58	0.69	0.49	0.94	24.14	3.52%
133	MED	OLD KORKUNDA	EX	325.78	224.79	6.44	4.55	7.66	18.66	0.69	0.49	0.47	13.28	5.91%
134	MED	OLD KORKUNDA	PR	323.49	223.21	3.59	4.49	7.77	15.86	0.69	0.49	0.40	11.93	5.34%
135	MED	MV-7	EX	1543.16	1064.78	60.96	25.28	18.21	104.45	0.69	0.49	2.61	61.75	5.80%

S.no	Division	11kV feeder	Scenario	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
136	MED	MV-7	PR	1542.81	1064.54	60.61	25.27	18.21	104.09	0.69	0.49	2.60	61.57	5.78%
137	MED	MALKANGIRI DNK	EX	2486.86	1715.94	81.08	47.30	17.16	145.54	0.69	0.49	3.64	81.85	4.77%
138	MED	MALKANGIRI DNK	PR	2434.42	1679.75	29.47	45.43	17.77	92.67	0.69	0.49	2.32	55.61	3.31%
139	MED	CHALLANGUDA	EX	685.88	473.26	29.35	5.39	26.23	60.97	0.69	0.49	1.52	44.00	9.30%
140	MED	CHALLANGUDA	PR	678.28	468.01	21.45	5.28	26.70	53.43	0.69	0.49	1.34	40.45	8.64%
141	MED	TOWN	EX	2899.95	2000.97	109.10	80.94	14.32	204.36	0.69	0.49	5.11	109.94	5.49%
142	MED	TOWN	PR	2830.79	1953.25	41.86	78.02	14.85	134.73	0.69	0.49	3.37	75.25	3.85%
143	RED	AUTO NAGAR TOWN 3	EX	5019.27	3463.30	287.02	98.95	9.38	395.34	0.69	0.49	9.88	203.34	5.87%
144	RED	AUTO NAGAR TOWN 3	PR	4886.33	3371.57	159.32	94.34	9.80	263.46	0.69	0.49	6.59	137.32	4.07%
145	RED	JK PUR	EX	1714.65	1183.11	36.71	42.60	7.31	86.62	0.69	0.49	2.17	47.23	3.99%
146	RED	JK PUR	PR	1699.32	1172.53	21.96	41.97	7.42	71.35	0.69	0.49	1.78	39.62	3.38%
147	RED	AUTO NAGAR TOWN 4	EX	6413.56	4425.36	494.68	266.16	9.79	770.63	0.69	0.49	19.27	392.04	8.86%
148	RED	AUTO NAGAR TOWN 4	PR	6413.26	4425.15	494.31	266.12	9.79	770.21	0.69	0.49	19.26	391.83	8.85%
149	RED	DAKULIGUDA 1	EX	620.70	428.28	23.27	3.03	16.48	42.77	0.69	0.49	1.07	29.89	6.98%
150	RED	DAKULIGUDA 1	PR	620.67	428.26	23.26	3.03	16.48	42.77	0.69	0.49	1.07	29.88	6.98%
151	RED	SERIGUDA TOWN 2	EX	548.76	378.65	3.34	1.86	11.71	16.90	0.69	0.49	0.42	14.46	3.82%
152	RED	SERIGUDA TOWN 2	PR	548.07	378.17	2.70	1.85	11.73	16.28	0.69	0.49	0.41	14.16	3.74%
153	BNED	GAMUNDI	EX	2066.65	1425.99	20.14	28.29	10.90	59.33	0.69	0.49	1.48	35.36	2.48%
154	BNED	GAMUNDI	PR	2066.65	1425.99	20.13	28.29	10.90	59.33	0.69	0.49	1.48	35.36	2.48%
155	BNED	BHANJANAGAR TOWN	EX	2135.22	1473.30	15.08	19.63	12.39	47.10	0.69	0.49	1.18	29.97	2.03%
156	BNED	BHANJANAGAR TOWN	PR	2133.89	1472.38	13.76	19.61	12.40	45.77	0.69	0.49	1.14	29.31	1.99%

S.no	Division	11kV feeder	Scenario	Total Peak Load(KW)(A)	Total Average Load(KW)(B=A*G)	Line Losses(KW)(C)	Transformer Load Losses(KW) (D)	Transformer No-Load Losses(KW) (E)	Total Losses(KW) (F=C+D+E)	Load Factor-(G)	LLF(H)	Distributed loss @2.5%-I=(F*2.5%)	Total Loss with LLF (in kW) J=E+H*(C+D+E))	Loss% K=J/B
157	BNED	BHANJANAGAR COLLAG	EX	2174.15	1500.17	21.81	22.01	13.39	57.21	0.69	0.49	1.43	35.56	2.37%
158	BNED	BHANJANAGAR COLLAG	PR	2173.65	1499.82	21.32	22.00	13.39	56.71	0.69	0.49	1.42	35.31	2.35%

6. Technical Loss Calculation & Cost Benefit Analysis -

Besides the Cost Benefit Analysis (CBA) mentioned below there will be additional benefits in terms of reliability of the network which will improve the overall SAIDI and SAIFI. Also, it will enhance overall safety of the network and the surroundings. The scheme also enhances the customer satisfaction.

Cost benefit Analysis has been calculated based on 1-year load growth considering Load Factor 10%.

6.1. Technical Loss Calculation 33kV Line Upgradation:

Stage	Grid Substation	33kV Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF – 0.49)	Avg. Loss reduction	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	ASKA OLD GSS	ASKA FEEDER	6985.10	196.94	105.11	0.03	278.81	0.01	7450.31	465.21
After Proposal	ASKA OLD GSS	ASKA FEEDER	6985.04	196.88	105.08					
Before Proposal	ASKA OLD GSS	SORODA FEEDER	6420.12	567.40	301.23	52.75	462126.26	10.19	6847.70	427.58
After Proposal	ASKA OLD GSS	SORODA FEEDER	6348.13	461.68	248.47					
Before Proposal	ASKA OLD GSS	BUDHAMBA FEEDER	7110.12	898.59	458.61	58.30	510698.16	11.26	7302.09	191.97
After Proposal	ASKA OLD GSS	BUDHAMBA FEEDER	7030.63	782.19	400.31					
Before Proposal	NARENDRAPUR GSS	AMBAPUA FEEDER	14554.51	438.71	234.38	139.26	1219925.92	26.90	28767.09	1416.75
Before Proposal	NARENDRAPUR GSS	MEDICAL FEEDER	12795.83	303.28	161.62					
After Proposal	NARENDRAPUR GSS	AMBAPUA FEEDER	14407.04	289.79	159.80					
After Proposal	NARENDRAPUR GSS	MEDICAL FEEDER	11374.06	174.12	96.93					
Before Proposal	BERHAMPUR GSS	CHIKITI (BERHAMPUR GSS) FEEDER	8388.10	293.16	159.99	17.24	151019.53	3.33	8756.34	368.24
After Proposal	BERHAMPUR GSS	CHIKITI (BERHAMPUR GSS) FEEDER	8364.89	269.74	142.75					
Before Proposal	BALUGAON GSS	KHALLIKOTE FEEDER	9151.28	605.20	314.70	45.40	397696.86	8.77	9553.03	401.74
After Proposal	BALUGAON GSS	KHALLIKOTE FEEDER	9060.78	514.39	269.30					
Before Proposal	HINJILI GSS	HINJILI FEEDER	10206.48	159.94	91.77	19.21	168248.11	3.71	10654.54	448.06
After Proposal	HINJILI GSS	HINJILI FEEDER	10168.17	121.55	72.56					
Before Proposal	CHHATRAPUR GSS	TISCO FEEDER	7479.36	368.54	190.02	3.41	29842.60	0.66	8353.70	874.34
After Proposal	CHHATRAPUR GSS	TISCO FEEDER	7477.84	361.76	186.61					

Stage	Grid Substation	33kV Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF – 0.49)	Avg. Loss reduction	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	PURUSOTTAM PUR GSS	HINJILI FEEDER (PURUSOTTAM PUR GSS)	3695.66	67.40	41.10	4.15	36312.29	0.80	3943.27	247.61
After Proposal	PURUSOTTAM PUR GSS	HINJILI FEEDER (PURUSOTTAM PUR GSS)	3694.76	59.10	36.95					
Before Proposal	GUNUPUR	BIKRAMPUR	1210.68	15.51	11.41	0.36	3133.65	0.07	1288.29	77.60
After Proposal	GUNUPUR	BIKRAMPUR	1209.98	14.79	11.05					
Before Proposal	AKHUSINGHI	GUMUDA	2720.70	60.79	42.04	0.01	75.07	0.00	2895.10	174.40
After Proposal	AKHUSINGI	GUMUDA	2720.70	60.77	42.03					
Before Proposal	PARALAKHEMUNDI	PARALAKHEMUNDI NEW	7120.68	147.80	78.36	17.83	156157.34	3.44	7514.45	393.77
After Proposal	PARALAKHEMUNDI	PARALAKHEMUNDI NEW	7092.36	112.23	60.53					
Before Proposal	BHANJANAGAR GSS	KB PUR	4200.74	105.84	56.37	11.12	97429.06	2.15	4401.11	200.38
After Proposal	BHANJANAGAR GSS	KB PUR	4178.59	83.65	45.25					
Before Proposal	BHANJANAGAR GSS	SORODA	6312.97	255.07	139.90	9.46	82838.00	1.83	6614.10	301.13
After Proposal	BHANJANAGAR GSS	SORODA	6294.11	236.28	130.44					
Before Proposal	BOUDH	BOUDH	8011.79	227.82	123.07	9.31	81556.15	1.80	8716.83	705.04
After Proposal	BOUDH	BOUDH	7993.37	209.29	113.76					
Before Proposal	UMERKOT	KODINGA	7468.49	499.46	258.73	7.60	66550.81	1.47	8136.17	667.68
After Proposal	UMERKOT	KODINGA	7453.42	484.29	251.14					
Before Proposal	POTTANGI GSS	TOSHALI	3687.94	214.00	107.48	79.00	692049.60	15.26	3897.42	209.48
After Proposal	POTTANGI GSS	TOSHALI	8470.54	56.70	28.48					
Before Proposal	SUNABEDA GSS	KORAPUT	8476.17	62.34	54.89	2.83	24801.27	0.55	8957.61	481.45
After Proposal	SUNABEDA GSS	KORAPUT	8470.54	56.70	52.06					
Before Proposal	UMERKOT	JHARIGAM	7140.53	305.45	173.76	10.45	91565.86	2.02	7778.89	638.36
After Proposal	UMERKOT	JHARIGAM	7119.73	284.61	163.31					
Before Proposal	PHULBANI	PHULBANI	5571.75	97.91	65.76	23.00	201458.88	4.44	6010.25	438.50
After Proposal	PHULBANI	PHULBANI	5526.01	52.06	42.76					
Before Proposal	RAYAGAD	RAYAGADA-1	7323.84	68.51	61.46	19.92	174487.77	3.85	7742.76	418.92
After Proposal	RAYAGAD	RAYAGADA-1	7284.32	28.94	41.54					

6.2. Cost Benefit Analysis- 33kV Line Upgradation:

Load Factor

Revenue Return Sheet -33kV Aska Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	34.61	Rs. Lac
B	Additional load due to load growth	-	516.90	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	465.21	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	407522	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	8.99	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.01	Rs. Lac
J	Net Revenue Collected	H+I	8.99	Rs. Lac
K	% revenue return	(J/A)*100	26.0	%
L	Pay Back Period	100/K	3.85	Years

Revenue Return Sheet -33kV Soroda Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	70.78	Rs. Lac
B	Additional load due to load growth	-	475.09	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	427.58	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	374560	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	8.26	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	10.19	Rs. Lac
J	Net Revenue Collected	H+I	18.45	Rs. Lac
K	% revenue return	(J/A)*100	26.1	%
L	Pay Back Period	100/K	3.84	Years

Revenue Return Sheet -33kV Budhamba Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	141.57	Rs. Lac
B	Additional load due to load growth	-	213.30	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	191.97	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	168169	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.71	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	11.26	Rs. Lac

J	Net Revenue Collected	H+I	14.97	Rs. Lac
K	% revenue return	(J/A)*100	10.6	%
L	Pay Back Period	100/K	9.46	Years

Revenue Return Sheet -33kV MEDICAL-AMBAPUA (D/C) Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	120.14	Rs. Lac
B	Additional load due to load growth	-	1574.16	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	1416.75	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	1241071	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	27.37	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	26.90	Rs. Lac
J	Net Revenue Collected	H+I	54.26	Rs. Lac
K	% revenue return	(J/A)*100	45.2	%
L	Pay Back Period	100/K	2.21	Years

Revenue Return Sheet -33kV CHIKITI (BERHAMPUR GSS) Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	120.14	Rs. Lac
B	Additional load due to load growth	-	409.15	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	368.24	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	322576	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	7.11	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	3.33	Rs. Lac
J	Net Revenue Collected	H+I	10.44	Rs. Lac
K	% revenue return	(J/A)*100	8.7	%
L	Pay Back Period	100/K	11.50	Years

Revenue Return Sheet -33kV KHALLIKOTE Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	267.41	Rs. Lac
B	Additional load due to load growth	-	446.38	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	401.74	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	351925	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	7.76	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	8.77	Rs. Lac

J	Net Revenue Collected	H+I	16.53	Rs. Lac
K	% revenue return	(J/A)*100	6.2	%
L	Pay Back Period	100/K	16.18	Years

Revenue Return Sheet -33kV HINJILI FEEDER (HINJILI GSS) Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	47.44	Rs. Lac
B	Additional load due to load growth	-	497.85	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	448.06	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	392504	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	8.65	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	3.71	Rs. Lac
J	Net Revenue Collected	H+I	12.36	Rs. Lac
K	% revenue return	(J/A)*100	26.1	%
L	Pay Back Period	100/K	3.84	Years

Revenue Return Sheet -33kV TISCO Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	157.30	Rs. Lac
B	Additional load due to load growth	-	971.49	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	874.34	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	765919	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	16.89	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.66	Rs. Lac
J	Net Revenue Collected	H+I	17.55	Rs. Lac
K	% revenue return	(J/A)*100	11.2	%
L	Pay Back Period	100/K	8.96	Years

Revenue Return Sheet -33kV HINJILI FEEDER (PURUSOTTAM PUR GSS) System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	78.65	Rs. Lac
B	Additional load due to load growth	-	275.12	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	247.61	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	216906	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.78	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.80	Rs. Lac
J	Net Revenue Collected	H+I	5.58	Rs. Lac
K	% revenue return	(J/A)*100	7.1	%

L	Pay Back Period	100/K	14.09	Years

Revenue Return Sheet -33kV BIKRAMPUR Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	24.00	Rs. Lac
B	Additional load due to load growth	-	86.23	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	77.60	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	67982	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.50	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.07	Rs. Lac
J	Net Revenue Collected	H+I	1.57	Rs. Lac
K	% revenue return	(J/A)*100	6.5	%
L	Pay Back Period	100/K	15.31	Years

Revenue Return Sheet -33kV GUMUDA Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	16.00	Rs. Lac
B	Additional load due to load growth	-	193.77	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	174.40	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	152772	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.37	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	3.37	Rs. Lac
K	% revenue return	(J/A)*100	21.1	%
L	Pay Back Period	100/K	4.75	Years

Revenue Return Sheet -33kV PARLAKHEMUNDI Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	79.00	Rs. Lac
B	Additional load due to load growth	-	437.53	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	393.77	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	344946	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	7.61	Rs. Lac

I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	3.44	Rs. Lac
J	Net Revenue Collected	H+I	11.05	Rs. Lac
K	% revenue return	(J/A)*100	14.0	%
L	Pay Back Period	100/K	7.15	Years

Revenue Return Sheet -33kV KB PUR Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	150.00	Rs. Lac
B	Additional load due to load growth	-	222.64	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	200.38	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	175529	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.87	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	2.15	Rs. Lac
J	Net Revenue Collected	H+I	6.02	Rs. Lac
K	% revenue return	(J/A)*100	4.0	%
L	Pay Back Period	100/K	24.92	Years

Revenue Return Sheet -33kV SORODA Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	6.00	Rs. Lac
B	Additional load due to load growth	-	334.59	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	301.13	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	263789	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.82	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.83	Rs. Lac
J	Net Revenue Collected	H+I	7.64	Rs. Lac
K	% revenue return	(J/A)*100	127.4	%
L	Pay Back Period	100/K	0.79	Years

Revenue Return Sheet -33kV BOUDH Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	252.00	Rs. Lac
B	Additional load due to load growth	-	783.38	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	705.04	kW

D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	617613	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	13.62	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.80	Rs. Lac
J	Net Revenue Collected	H+I	15.42	Rs. Lac
K	% revenue return	(J/A)*100	6.1	%
L	Pay Back Period	100/K	16.35	Years

Revenue Return Sheet -33kV KODINGA Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	154.16	Rs. Lac
B	Additional load due to load growth	-	741.87	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	667.68	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	584890	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	12.90	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.47	Rs. Lac
J	Net Revenue Collected	H+I	14.36	Rs. Lac
K	% revenue return	(J/A)*100	9.3	%
L	Pay Back Period	100/K	10.73	Years

Revenue Return Sheet -33kV TOSHALI Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	126.00	Rs. Lac
B	Additional load due to load growth	-	232.75	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	209.48	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	183500	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.05	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	15.26	Rs. Lac
J	Net Revenue Collected	H+I	19.31	Rs. Lac
K	% revenue return	(J/A)*100	15.3	%
L	Pay Back Period	100/K	6.53	Years

Revenue Return Sheet -33kV KORAPUT Feeder System Strengthening				
Sr. No.	Description	Formula	Value	UoM
A	Total cost of scheme	-	252.00	Rs. Lac
B	Additional load due to load growth	-	534.94	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	481.45	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	421747	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	9.30	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.55	Rs. Lac
J	Net Revenue Collected	H+I	9.85	Rs. Lac
K	% revenue return	(J/A)*100	3.9	%
L	Pay Back Period	100/K	25.59	Years

Revenue Return Sheet -33kV JHARIGAM Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	134.00	Rs. Lac
B	Additional load due to load growth	-	709.29	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	638.36	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	559206	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	12.33	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	2.02	Rs. Lac
J	Net Revenue Collected	H+I	14.35	Rs. Lac
K	% revenue return	(J/A)*100	10.7	%
L	Pay Back Period	100/K	9.34	Years

Revenue Return Sheet -33kV PHULBANI Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	60.00	Rs. Lac
B	Additional load due to load growth	-	487.22	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	438.50	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	384123	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	8.47	Rs. Lac

I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	4.44	Rs. Lac
J	Net Revenue Collected	H+I	12.91	Rs. Lac
K	% revenue return	(J/A)*100	21.5	%
L	Pay Back Period	100/K	4.65	Years

Revenue Return Sheet -33kV RAIGADA-1 Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	155.00	Rs. Lac
B	Additional load due to load growth	-	465.47	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	418.92	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	366977	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	8.09	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	3.85	Rs. Lac
J	Net Revenue Collected	H+I	11.94	Rs. Lac
K	% revenue return	(J/A)*100	7.7	%
L	Pay Back Period	100/K	12.98	Years

6.3. Technical Loss Calculation 33kV New Line

Stage	Grid Substation	33kV Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF –0.49)	Avg. Loss reduction	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	CHATRAPUR GSS	CHATRAPUR FEEDER	4616.18	34.82	23.74	1.25	10973.20	0.24	5155.82	539.63
After Proposal	CHATRAPUR GSS	CHATRAPUR-1 FEEDER	3238.36	26.19	17.27					
After Proposal	CHATRAPUR GSS	CHATRAPUR-2 FEEDER	1375.10	6.12	5.21					
Before Proposal	NARENDRAPUR GSS	MKCG EXPRESS FEEDER	10626.33	226.45	125.80	0.14	1265.39	0.03	11334.04	707.71
After Proposal	NARENDRAPUR GSS	MKCG EXPRESS FEEDER	10626.04	226.16	125.66					
Before Proposal	CHIKITI GSS	PATRAPUR FEEDER	5906.79	175.70	95.34	0.09	830.22	0.02	6066.27	159.48
After Proposal	CHIKITI GSS	PATRAPUR FEEDER	5906.59	175.50	95.25					
Before Proposal	NARENDRAPUR GSS	AMBAPUA FEEDER	10042.61	438.71	234.38	0.00	0.00	0.00	14613.82	4571.21
After Proposal	NARENDRAPUR GSS	AMBAPUA FEEDER	10042.61	438.71	234.38					
Before Proposal	PURUSOTTAMPUR GSS	PURUSOTTAMPUR FEEDER	5174.17	65.59	36.98	0.00	0.00	0.00	6698.84	1524.67
After Proposal	PURUSOTTAMPUR GSS	PURUSOTTAMPUR FEEDER	5174.17	65.59	36.98					
Before Proposal	ASKA OLD GSS	NUAGAON FEEDER	8160.53	136.58	75.06	0.00	0.00	0.00	15689.02	7528.49
After Proposal	ASKA OLD GSS	NUAGAON FEEDER	8160.53	136.58	75.06					
Before Proposal	BHANJANAGAR GSS	SORODA	6312.97	255.07	139.90	1.60	14005.22	0.31	6614.10	301.13
After Proposal	BHANJANAGAR GSS	SORODA	6309.80	251.84	138.30					
Before Proposal	JAYANAGAR	BOIPARIGUDA	2488.29	85.75	59.98	0.58	5045.00	0.11	2609.72	121.43
After Proposal	JAYANAGAR	BOIPARIGUDA	2487.13	84.60	59.41					
Before Proposal	JAYANAGAR	BOIPARIGUDA	2488.29	85.76	59.98	0.03	241.35	0.01	2609.72	121.43
After Proposal	JAYANAGAR	BOIPARIGUDA	2488.23	85.70	59.96					
Before Proposal	JAYANAGAR	KUNDRA	3758.84	119.27	69.98	23.86	208977.74	4.61	3942.27	183.43
After Proposal	JAYANAGAR	KUNDRA	3757.94	71.76	46.12					
Before Proposal	JAYANAGAR	KUNDRA	3758.84	119.27	69.98	23.86	208977.74	4.61	3942.27	183.43
After Proposal	JAYANAGAR	KUNDRA	3757.94	71.76	46.12					
Before Proposal	PODAGADA	KPT MEDICAL FEEDER	5237.19	35.28	26.49	0.00	0.00	0.00	6241.66	1004.47
After Proposal	PODAGADA	KPT MEDICAL FEEDER	5237.19	35.28	26.49					
Before Proposal	MALKANGIRI	MALKANGIRI	9508.27	345.08	186.24	0.00	0.00	0.00	10424.08	915.81
After Proposal	MALKANGIRI	MALKANGIRI	9508.27	345.08	186.24					

Stage	Grid Substation	33kV Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF –0.49)	Avg. Loss reduction	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	MOHONA	DARINGBADI	3390.99	79.16	53.58	0.03	297.98	0.01	3578.51	187.52
After Proposal	MOHONA	DARINGBADI	3390.92	79.09	53.54					
Before Proposal	MOHONA	PARALAKHEMUNDI	5247.29	393.16	222.16	1.09	9536.34	0.21	5537.47	290.18
After Proposal	MOHONA	PARALAKHEMUNDI	5245.10	390.97	221.07					
Before Proposal	MOHONA	DARINGBADI	3390.99	79.16	53.58	0.00	9.95	0.00	3578.51	187.52
After Proposal	MOHONA	DARINGBADI	3390.99	79.15	53.58					
Before Proposal	PARALAKHEMUNDI	KASINAGAR	3568.08	155.48	88.13	0.01	69.07	0.00	3765.39	197.31
After Proposal	PARALAKHEMUNDI	KASINAGAR	3568.06	155.46	88.12					
Before Proposal	UMERKOT	BEHEDA-EX	12456.26	1326.72	677.42	554.82	4860250.77	107.17	13569.85	1113.59
After Proposal	RAIGHAR	RAIGHAR-PR	2405.06	34.84	21.07					
	UMERKOT	BEHEDA -PR	9648.12	180.75	101.53					
Before Proposal	THIRUBALI	SILIPUT	2428.49	57.62	42.32	0.49	4311.00	0.10	2567.40	138.91
After Proposal	THIRUBALI	SILIPUT	2427.53	56.63	41.83					

6.4. Cost Benefit Analysis- 33kV New Line:

Revenue Return Sheet -33kV Chhatrapur Feeder (New Link Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	209.67	Rs. Lac
B	Additional load due to load growth	-	599.59	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	539.63	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	472717	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	10.42	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.24	Rs. Lac
J	Net Revenue Collected	H+I	10.67	Rs. Lac
K	% revenue return	(J/A)*100	5.1	%
L	Pay Back Period	100/K	19.66	Years

Revenue Return Sheet -33kV MKCG EXPRESS Feeder (New Link Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	7.39	Rs. Lac
B	Additional load due to load growth	-	786.35	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	707.71	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	619957	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	13.67	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac
J	Net Revenue Collected	H+I	13.70	Rs. Lac
K	% revenue return	(J/A)*100	185.4	%
L	Pay Back Period	100/K	0.54	Years

Revenue Return Sheet -33kV PATRAPUR Feeder (New Link Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	61.58	Rs. Lac
B	Additional load due to load growth	-	177.20	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	159.48	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	139707	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.08	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.02	Rs. Lac
J	Net Revenue Collected	H+I	3.10	Rs. Lac

K	% revenue return	(J/A)*100	5.0	%
L	Pay Back Period	100/K	19.87	Years

Revenue Return Sheet -33kV AMBAPUA-33kV Narendrapur Feeder (New Link Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	296.65	Rs. Lac
B	Additional load due to load growth	-	5079.12	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	4571.21	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	365697	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	8.06	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	8.06	Rs. Lac
K	% revenue return	(J/A)*100	2.7	%
L	Pay Back Period	100/K	36.79	Years

Revenue Return Sheet -33kV PURUSHOTTAMPUR- 33kV Balia Feeder (New Link Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	391.64	Rs. Lac
B	Additional load due to load growth	-	1694.08	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	1524.67	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	1335610	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	29.45	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	29.45	Rs. Lac
K	% revenue return	(J/A)*100	7.5	%
L	Pay Back Period	100/K	13.30	Years

Revenue Return Sheet -33kV NUAGAON - 33kV ASKA Feeder (New Link Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	239.15	Rs. Lac
B	Additional load due to load growth	-	8364.99	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	7528.49	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	6594958	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	145.42	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	145.42	Rs. Lac
K	% revenue return	(J/A)*100	60.8	%
L	Pay Back Period	100/K	1.64	Years

Revenue Return Sheet -33kV SORODA FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	40.00	Rs. Lac
B	Additional load due to load growth	-	334.59	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	301.13	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	263789	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.82	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.31	Rs. Lac
J	Net Revenue Collected	H+I	6.13	Rs. Lac
K	% revenue return	(J/A)*100	15.3	%
L	Pay Back Period	100/K	6.53	Years

Revenue Return Sheet -33kV BOIPARIGUDA FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	85.00	Rs. Lac
B	Additional load due to load growth	-	134.92	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	121.43	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	106371	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.35	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.11	Rs. Lac
J	Net Revenue Collected	H+I	2.46	Rs. Lac
K	% revenue return	(J/A)*100	2.9	%
L	Pay Back Period	100/K	34.60	Years

Revenue Return Sheet -33kV BOIPARIGUDA FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	61.00	Rs. Lac
B	Additional load due to load growth	-	134.92	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	121.43	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	106371	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.35	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.01	Rs. Lac
J	Net Revenue Collected	H+I	2.35	Rs. Lac
K	% revenue return	(J/A)*100	3.9	%
L	Pay Back Period	100/K	25.95	Years

Revenue Return Sheet -33kV KUNDRA FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	37.00	Rs. Lac
B	Additional load due to load growth	-	203.81	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	183.43	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	160686	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.54	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	4.61	Rs. Lac
J	Net Revenue Collected	H+I	8.15	Rs. Lac
K	% revenue return	(J/A)*100	22.0	%
L	Pay Back Period	100/K	4.54	Years

Revenue Return Sheet -33kV KUNDRA FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	37.00	Rs. Lac
B	Additional load due to load growth	-	203.81	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	183.43	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	160686	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.54	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	4.61	Rs. Lac
J	Net Revenue Collected	H+I	8.15	Rs. Lac
K	% revenue return	(J/A)*100	22.0	%
L	Pay Back Period	100/K	4.54	Years

Revenue Return Sheet -33kV KPT MEDICAL FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	41.00	Rs. Lac
B	Additional load due to load growth	-	1116.08	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	1004.47	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	879918	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	19.40	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	19.40	Rs. Lac
K	% revenue return	(J/A)*100	47.3	%
L	Pay Back Period	100/K	2.11	Years

Revenue Return Sheet -33kV MALKANGIRI FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	52.00	Rs. Lac
B	Additional load due to load growth	-	1017.57	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	915.81	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	802249	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	17.69	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	17.69	Rs. Lac
K	% revenue return	(J/A)*100	34.0	%
L	Pay Back Period	100/K	2.94	Years

Revenue Return Sheet -33kV DARINGBADI FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	51.00	Rs. Lac
B	Additional load due to load growth	-	208.36	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	187.52	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	164269	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.62	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.01	Rs. Lac
J	Net Revenue Collected	H+I	3.63	Rs. Lac
K	% revenue return	(J/A)*100	7.1	%
L	Pay Back Period	100/K	14.05	Years

Revenue Return Sheet -33kV PARALAKHEMUNDI FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	51.00	Rs. Lac
B	Additional load due to load growth	-	322.42	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	290.18	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	254193	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.60	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.21	Rs. Lac
J	Net Revenue Collected	H+I	5.82	Rs. Lac
K	% revenue return	(J/A)*100	11.4	%
L	Pay Back Period	100/K	8.77	Years

Revenue Return Sheet -33kV DARINGBADI FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	51.00	Rs. Lac
B	Additional load due to load growth	-	208.36	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	187.52	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	164269	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.62	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	3.62	Rs. Lac
K	% revenue return	(J/A)*100	7.1	%
L	Pay Back Period	100/K	14.08	Years

Revenue Return Sheet -33kV KASINAGAR FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	51.00	Rs. Lac
B	Additional load due to load growth	-	219.24	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	197.31	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	172848	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.81	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	3.81	Rs. Lac
K	% revenue return	(J/A)*100	7.5	%
L	Pay Back Period	100/K	13.38	Years

Revenue Return Sheet -33kV BEHEDA Feeder System Strengthening				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	315.00	Rs. Lac
B	Additional load due to load growth	-	1237.32	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	1113.59	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	975504	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	21.51	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	107.17	Rs. Lac
J	Net Revenue Collected	H+I	128.68	Rs. Lac
K	% revenue return	(J/A)*100	40.9	%
L	Pay Back Period	100/K	2.45	Years

Revenue Return Sheet -33kV SILIPUT FEEDER NEW LINE				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	169.90	Rs. Lac
B	Additional load due to load growth	-	154.34	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	138.91	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	121685	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.68	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.10	Rs. Lac
J	Net Revenue Collected	H+I	2.78	Rs. Lac
K	% revenue return	(J/A)*100	1.6	%
L	Pay Back Period	100/K	61.15	Years

7. Power Transformer

A	B	C	D	E=(D*5 Yr. Load Growth)	F	G=(E*F)	H= (G*1000*365*24*LF*(Average Selling Price-Average Purchase Price)	I	J=I/H	K=(H/I)*100%
Sl. No.	PSS	Proposal	Total Load (in MVA)	Additional load due to load growth (in MVA)	Power factor	Total Load Added (in MW)	Benefit on account of Energy Charges from New Loads (Rs in Cr)	Total Scheme Cost(Rs in Cr)	Payback Period of Scheme (in Years)	% Rate of Return
1	Buguda PSS	5 to 8 MVA	10.60	1.51	0.95	1.43	0.25	1.79	7.07	14.13%
2	Paikajamuna PSS	5 to 8 MVA	7.74	1.10	0.95	1.05	0.18	1.79	9.69	10.32%
3	Bhanjanagar PSS	3.15 to 8 MVA	11.43	3.00	0.95	2.85	0.50	1.79	3.56	28.06%
4	Lalsing PSS	1.6 to 5 MVA	2.46	0.65	0.95	0.61	0.11	1.15	10.66	9.38%
5	Baunsuni PSS	3.15 to 8 MVA	6.76	3.55	0.95	3.37	0.59	1.79	3.01	33.18%
6	Phulbani PSS	5 to 8 MVA	10.04	4.62	0.95	4.39	0.77	1.79	2.31	43.27%
7	Paralakhemundi New PSS	New 8 MVA	11.01	3.28	0.95	3.11	0.55	2.92	5.33	18.76%
8	OMP PSS	1.6 to 8 MVA	3.35	3.16	0.95	3.00	0.53	2.59	4.89	20.43%
9	Jodinga PSS	New 8 MVA	9.34	4.99	0.95	4.74	0.83	2.94	3.53	28.36%
10	Adhikariguda PSS	1.6 to 5 MVA	6.19	3.31	0.95	3.14	0.55	1.79	3.23	30.96%
11	MV 79 PSS	3.15 to 5 MVA	4.04	2.06	0.95	1.95	0.34	1.15	3.35	29.89%
12	Aska PSS	New 8 MVA	9.58	1.37	0.95	1.30	0.23	1.79	7.83	12.77%

8. Technical Loss Calculation & Cost Benefit Analysis -11kV

Technical loss and cost benefit have been calculated based on 1-year load growth as mentioned in the below table.

8.1. Technical Loss Calculation 11kV New Line:

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF –0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	Khajuripada	DUTIAPADA	617.29	57.39	43.33	5.13	44962.27	0.99	965.87	348.58
After Proposal	Khajuripada	DUTIAPADA-EX	358.00	28.96	23.64					
	Khajuripada	DUTIAPADA-Pr	249.88	17.11	14.56					
Before Proposal	Good shed	ANKULI NH	2246.20	75.51	42.95	15.46	135424.67	2.99	2876.96	630.76
After Proposal	Good shed	ANKULI NH	1167.61	22.80	14.45					
	Good shed	ANKULI NH-New feeder	1048.80	21.63	13.04					
Before Proposal	DURA	DURA	685.85	18.92	11.83	0.17	1480.39	0.03	1064.31	378.46
After Proposal	DURA	DURA	685.51	18.58	11.66					
Before Proposal	MEDICAL	SIDHARTH NAGAR	2709.11	67.33	40.54	6.99	61253.58	1.35	2849.45	140.33
After Proposal	MEDICAL	SIDHARTH NAGAR	1357.44	28.61	17.77					
	MEDICAL	SIDHARTH NAGAR_New	1337.60	24.64	15.77					
Before Proposal	BHANJAVIHAR	KARAPALLI	1200.25	51.80	31.45	4.77	41807.79	0.92	1262.42	62.17
After Proposal	BHANJAVIHAR	KARAPALLI	1190.72	42.15	26.68					
Before Proposal	NARENDRAPUR	RAGHUNATHPUR	1937.49	38.69	28.28	0.09	791.27	0.02	2207.85	270.36
After Proposal	NARENDRAPUR	RAGHUNATHPUR+Mandiapalli	1937.63	38.50	28.19					
Before Proposal	Good shed	Tata Benz+ Lanjipalli	6224.11	194.10	112.29	18.62	163104.56	3.60	6546.52	322.41
After Proposal	Good shed	Tata Benz+ Lanjipalli	4145.31	128.07	74.59					
	Good shed	11KV New Lanjipalli	1479.37	31.70	19.07					
Before Proposal	MEDICAL	Town Hall + Tata Benz	6858.60	267.15	145.73	33.70	295177.73	6.51	7213.88	355.28
After Proposal	MEDICAL	Town Hall + Tata Benz	5350.58	206.00	112.03					
Before Proposal	AMBAPUA	Ambapua	2709.11	98.99	59.14	44.56	390375.53	8.61	3019.44	310.33
After Proposal	AMBAPUA	Ambapua Proposed	569.41	10.98	7.89					
	AMBAPUA	Ambapua New	506.99	8.20	6.68					

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF –0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	BIDYUTPURI	Nilanchal Nagar	1028.76	18.44	14.19	0.00	0.00	0.00	1647.05	618.29
After Proposal	BIDYUTPURI	Nilanchal Nagar_Gajpatinagar N-1	1028.76	18.44	14.19					
Before Proposal	MEDICAL	OLD BUS STAND	2023.26	47.90	25.72	7.72	67652.95	1.49	2218.07	194.81
After Proposal	MEDICAL	OLD BUS STAND	355.60	2.28	1.64					
	MEDICAL	OLD BUS STAND_New	1652.00	30.20	16.36					
Before Proposal	MEDICAL	TATABENZ	3720.75	122.84	71.06	29.98	262613.78	5.79	4256.42	535.67
After Proposal	MEDICAL	TATABENZ	1648.92	34.24	22.01					
	MEDICAL	TATABENZ_Lanjipalli	1479.37	31.70	19.07					
Before Proposal	Good shed	ANKULI NH	2246.20	75.51	42.95	7.05	61731.57	1.36	2945.55	699.34
After Proposal	Good shed	ANKULI NH_Ex	882.12	23.62	14.04					
	Good shed	ANKULI NH_New	1331.82	37.52	21.86					
Before Proposal	BUGUDA	GOLIA	1114.32	62.83	38.16	11.30	99002.17	2.18	1144.41	30.09
After Proposal	BUGUDA	GOLIA	325.87	9.93	7.81					
	BUGUDA	GOLIA_NEW	765.82	29.87	19.05					
Before Proposal	KS NAGAR	KS NAGAR TOWN	2589.96	69.69	45.41	1.20	10519.40	0.23	2759.89	169.93
After Proposal	KS NAGAR	KS NAGAR TOWN	2170.30	55.59	37.17					
	KS NAGAR	KS NAGAR TOWN_NEW	411.10	8.48	7.03					
Before Proposal	PADMAPUR	PADMAPUR	1971.86	84.46	48.43	2.43	21246.53	0.47	2268.26	296.40
After Proposal	PADMAPUR	PADMAPUR	1194.93	50.01	28.55					
	PADMAPUR	PADMAPUR	772.00	29.56	17.46					
Before Proposal	KHANDADEULI	KHANDADEULI MEDICA	2069.54	107.94	65.75	13.42	117591.22	2.59	2311.47	241.93
After Proposal	KHANDADEULI	KHANDADEULI MEDICA	2043.87	80.36	52.33					
Before Proposal	DEKHALI	DUMULA	723.29	30.13	19.38	0.13	1143.25	0.03	863.72	140.43
After Proposal	DEKHALI	DUMULA	723.02	29.86	19.25					
Before Proposal	JALTARA	Jaltar-Puttasing	608.71	32.28	26.09	0.00	0.00	0.00	647.73	39.02
After Proposal	JALTARA	Jaltar-Puttasing	608.71	32.28	26.09					
Before Proposal	GUMUDA/SUBDRAPUR	Gumuda-Subdrapur	771.58	24.26	19.93	0.00	0.00	0.00	821.04	49.46
After Proposal	GUMUDA/SUBDRAPUR	Gumuda-Subdrapur	771.58	24.26	19.93					
Before Proposal	GUNUPUR	Regada-Court	4303.87	178.85	103.51	0.00	0.00	0.00	4579.75	275.88
After Proposal	GUNUPUR	Regada-Court	4303.87	178.85	103.51					
Before Proposal	GUNUPUR	Court-Town	5195.81	201.75	116.50	0.00	0.00	0.00	5528.86	333.05

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF –0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
After Proposal	GUNUPUR	Court-Town	5195.81	201.75	116.50					
Before Proposal	MINAJHOLA	Bankili-Tandikona	343.10	14.80	12.59	0.00	0.00	0.00	365.09	21.99
After Proposal	MINAJHOLA	Bankili-Tandikona	343.10	14.80	12.59					
Before Proposal	Dasmantpur	Girliguma	222.90	18.03	16.97	0.11	997.29	0.02	535.56	312.66
After Proposal	Dasmantpur	Girliguma	75.86	6.91	6.72					
	Dasmantpur	New Feeder Dasmantpur	146.86	10.84	10.13					
Before Proposal	Pattangi	Sunki	411.53	65.16	51.37	3.36	29475.67	0.65	554.90	143.37
After Proposal	Pattangi	Sunki	124.80	15.89	15.16					
	Pattangi	Sunki-New	279.18	41.04	32.85					
Before Proposal	Old Koraput&Omp	Koraput No-2 & Podagada No-2	2571.95	191.18	117.94	2.12	18548.92	0.41	2868.04	296.09
After Proposal	Old Koraput&Omp	Koraput No-2 & Podagada No-2	2568.38	185.98	115.82					
Before Proposal	Old Koraput&Omp	Koraput No-1 & Silk Board	1714.63	47.93	36.48	0.04	390.59	0.01	1932.02	217.39
After Proposal	Old Koraput&Omp	Koraput No-1 & Silk Board	1715.31	47.85	36.44					
Before Proposal	Old Koraput	Koraput No-3	1577.46	49.01	32.68	1.64	14326.92	0.32	1967.06	389.60
After Proposal	Old Koraput	Koraput No-3	1386.38	40.42	26.63					
	Omp	Koraput No-3 & New Feeder from OMP PSS	187.93	5.22	4.42					
Before Proposal	Old Koraput	Lulla	137.17	16.38	16.04	0.02	186.89	0.00	444.97	307.79
After Proposal	Old Koraput	Lulla	35.79	4.77	4.74					
	Omp	Lull-New	101.33	11.54	11.27					
Before Proposal	Laxmipur	Champi-Laxmiput Town	977.33	37.59	27.58	0.01	72.92	0.00	1122.84	145.51
After Proposal	Laxmipur	Champi-Laxmiput Town	977.37	37.58	27.57					
Before Proposal	Naryanpur	Balipeta	257.20	24.22	23.11	0.17	1532.33	0.03	371.81	114.61
After Proposal	Naryanpur	Balipeta	137.96	13.13	12.66					
	Naryanpur	Balipeta-New	118.88	10.65	10.28					
Before Proposal	Kunduli	Kundili	857.35	105.71	81.84	7.77	68058.14	1.50	956.05	98.70
After Proposal	Kunduli	Kundili	128.85	8.23	7.90					
	Kunduli	Kundili-New	711.55	79.54	66.18					
Before Proposal	Nuagaon	Nuagaon	823.01	14.38	9.52	0.15	1319.91	0.03	907.82	84.81
After Proposal	Nuagaon	Nuagaon	823.01	14.08	9.37					

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF –0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	TARATARINI	SUNATHARA	822.99	44.96	27.22	1.54	13478.93	0.30	898.13	75.14
After Proposal	TARATARINI	SUNATHARA	819.91	41.82	25.68					
Before Proposal	TARATARINI	BHATAKUMARADA	1097.37	31.20	20.92	0.00	0.00	0.00	1170.89	73.52
After Proposal	TARATARINI	BHATAKUMARADA	1097.37	31.20	20.92					
Before Proposal	PANDIA	PURUSHOTTAMPUR TOW	994.47	22.80	17.20	0.26	2314.60	0.05	1161.10	166.63
After Proposal	PANDIA	PURUSHOTTAMPUR TOW/ACHULI	927.29	22.27	16.94					
Before Proposal	HATIOTA	BALICHAI HATIOTA	1766.05	62.13	40.09	0.12	1020.62	0.02	1884.38	118.33
After Proposal	HATIOTA	BALICHAI HATIOTA/KALAMBA	1770.73	62.01	39.98					
Before Proposal	CHEDIGADA	CHHELIGADA	205.76	23.14	22.54	0.14	1239.96	0.03	437.14	231.38
After Proposal	CHEDIGADA	CHHELIGADA	130.24	14.87	14.67					
	CHEDIGADA	11KV NEW CHEDIGADA	75.21	7.88	7.73					
Before Proposal	PARALAKHEMUNDI NEW	PARALAKHEMUNDI TOWN-4	4289.39	213.07	115.35	26.11	228731.16	5.04	4526.59	237.20
After Proposal	PARALAKHEMUNDI NEW	PARALAKHEMUNDI TOWN-4	1867.04	45.33	27.46					
	PARALAKHEMUNDI NEW	11KV NEW TOWN 4	2369.99	115.34	61.78					
Before Proposal	RAIGADA	RAIGADA	342.92	10.80	7.88	0.08	669.36	0.01	361.88	18.96
After Proposal	RAIGADA	RAIGADA	41.61	1.00	0.84					
	RAIGADA	11KV NEW RAIGADA	301.15	9.64	6.96					
Before Proposal	MANTRIDI	SASANPADAR	1355.41	82.57	47.13	7.98	69872.64	1.54	1756.92	401.50
After Proposal	MANTRIDI	SASANPADAR	989.20	56.49	32.77					
	MANTRIDI	SANSAPADAR NEW	350.34	9.94	6.38					
Before Proposal	DABUGAON	GUMUDA-DHODRA	2331.89	225.86	144.36	86.20	755122.29	16.65	2540.36	208.47
After Proposal	DABUGAON	GUMUDA-DHODRA	2286.66	85.16	58.16					
Before Proposal	DABUGAON	GUMUDA-TEMRA	1971.83	227.89	146.88	52.86	463051.39	10.21	2148.11	176.28
After Proposal	DABUGAON	GUMUDA-TEMRA	1624.11	126.98	94.02					
Before Proposal	UMERKOT TOWN	UMERKOT TOWN	1868.96	62.88	37.55	6.11	53489.61	1.18	2136.05	267.09
After Proposal	UMERKOT TOWN	UMERKOT TOWN	1350.07	39.25	23.98					
	ADHIKARIGUDA	UMERKOT TOWN_NEW	506.56	11.31	7.46					
Before Proposal	NABRANGPUR	NABRANGPUR TOWN NO-1	2383.38	111.88	63.23	12.41	108697.82	2.40	2596.45	213.07

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF –0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
After Proposal	NABRANGPUR	NABRANGPUR TOWN NO-1	1366.04	40.00	24.61					
	NABRANGPUR	NABRANGPUR TOWN NO-1_NEW	994.15	46.89	26.22					
Before Proposal	TANDAGUDA	DONGRA-PAPADAHANDI	1114.51	46.16	34.47	0.54	4746.26	0.10	1214.15	99.64
After Proposal	TANDAGUDA	DONGRA-PAPADAHANDI	1113.46	45.00	33.93					
Before Proposal	JAGAPUR	SURULA-BHAIRABI	2012.83	84.09	57.25	0.19	1622.29	0.04	2501.19	488.36
After Proposal	JAGAPUR	SURULA-BHAIRABI	2011.06	83.78	57.07					
Before Proposal	KANISI	RANDHA-TULU	4318.67	270.16	152.09	38.06	333437.59	7.35	4508.26	189.59
After Proposal	KANISI	RANDHA-TULU	4019.78	198.46	114.03					
Before Proposal	KUKUDAKHANDI	KUKUDAKHANDI-BOULAJHOLI	2648.06	120.57	67.10	5.47	47931.07	1.06	2764.31	116.25
After Proposal	KUKUDAKHANDI	KUKUDAKHANDI-BOULAJHOLI	2637.25	109.56	61.63					
Before Proposal	LATHI	LATHI-SANSAPADAR	2933.73	137.63	78.59	14.38	125995.58	2.78	3062.52	128.79
After Proposal	LATHI	LATHI-SANSAPADAR	2567.32	111.50	64.20					
Before Proposal	BALIGUDA	BALLIGUDA HIGH SCH	1871.73	171.19	87.19	0.45	3937.10	0.09	2019.04	147.31
After Proposal	BALIGUDA	BALLIGUDA HIGH SCH	1216.69	121.50	61.49					
	BALIGUDA	BALIGUDA HIGH SCHOOL NEW	654.73	48.79	25.25					
Before Proposal	BALIGUDA	MUSUKULI	10.80	0.73	0.72	0.00	0.00	0.00	408.65	397.85
After Proposal	BALIGUDA	MUSUKULI	10.80	0.73	0.72					
Before Proposal	DAHAPADAR	BISIPADA-KATRINGIA	866.59	79.23	57.52	3.02	26456.81	0.58	964.79	98.20
After Proposal	DAHAPADAR	BISIPADA-KATRINGIA	863.59	72.24	54.50					
Before Proposal	DARINGIBADI	DARSINGIBADI	277.44	37.05	34.98	0.24	2090.22	0.05	399.27	121.83
After Proposal	DARINGIBADI	DARSINGIBADI	91.62	11.73	11.46					
	DARINGIBADI	DARSINGBADI NEW	185.27	24.69	23.28					
Before Proposal	PHULBANI	PHULBANI COLLEGE	1493.43	63.14	39.65	0.00	8.98	0.00	1710.96	217.53
After Proposal	PHULBANI	PHULBANI COLLEGE	1493.43	63.14	39.65					
Before Proposal	PHULBANI	PHULBANI BAZAAR-PHULBANI MEDICAL	2635.37	103.72	62.71	0.02	148.05	0.00	2842.78	207.40
After Proposal	PHULBANI	PHULBANI BAZAAR-PHULBANI MEDICAL	2635.37	103.69	62.69					
Before Proposal	TUMUDIBANDHA	KURTAMAGADA	462.97	49.90	36.45	6.15	53874.86	1.19	619.40	156.44

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF –0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
After Proposal	TUMUDIBANDHA	KURTAMAGADA	286.96	24.42	20.07					
	TUMUDIBANDHA	KURTAMGADA NEW	163.94	11.73	10.24					
Before Proposal	DIGAPAHANDI	ANKORODA	617.26	29.83	24.56	2.20	19246.29	0.42	633.00	15.74
After Proposal	DIGAPAHANDI	ANKORODA	206.16	3.91	3.06					
	PALASPUR	ANKORODA NEW	406.74	21.18	19.31					
Before Proposal	PODINGI	Pitala	1200.24	36.64	25.23	0.16	1359.71	0.03	1310.85	110.61
After Proposal	PODINGI	Pitala	642.82	20.20	14.27					
	PODINGI	Pitala-New	683.76	15.41	10.80					
Before Proposal	BHANJANAGAR	BADAKODANDA-Gangapur (Bhanjanagar)	706.42	22.95	14.85	1.20	10487.56	0.23	840.12	133.70
After Proposal	BHANJANAGAR	BADAKODANDA-Gangapur (Bhanjanagar)	704.02	20.52	13.65					
Before Proposal	LALSINGI	BAIBALI	755.52	34.23	24.88	4.57	40052.07	0.88	791.56	36.04
After Proposal	LALSINGI	BAIBALI	641.35	27.33	20.31					
Before Proposal	SURADA	SORADA TOWN	2473.54	97.81	61.17	1.12	9820.42	0.22	2591.53	117.99
After Proposal	SURADA	SORADA TOWN	2471.28	95.55	60.05					
Before Proposal	CORPORATION ROAD	Tulsi Nagar	2559.82	63.72	38.45	4.59	40205.20	0.89	2757.57	197.75
After Proposal	CORPORATION ROAD	Tulsi Nagar	1913.14	45.61	27.28					
	CORPORATION ROAD	Tulsi Nagar-New	637.50	8.85	6.58					
Before Proposal	AMBAGADA	City Hospital	1835.19	52.55	32.19	0.31	2727.82	0.06	1949.61	114.42
After Proposal	AMBAGADA	City Hospital	1835.19	51.93	31.88					
Before Proposal	KALIAGAON	KHADAPA	308.64	15.41	12.30	0.35	3052.73	0.07	423.70	115.06
After Proposal	KALIAGAON	KHADAPA	303.71	14.99	11.95					
Before Proposal	NEWBUSSTAND	TOWN	2109.02	103.70	58.93	8.03	70339.85	1.55	2211.94	102.92
After Proposal	NEWBUSSTAND	TOWN	2092.90	87.57	50.90					
Before Proposal	OLDCONTROLROOM	JEYPORE-2	1697.50	66.52	39.41	0.11	986.34	0.02	1780.34	82.84
After Proposal	OLDCONTROLROOM	JEYPORE-2	1697.13	66.29	39.30					

8.2. Cost Benefit Analysis-11kV New Line

Revenue Return Sheet -ANKULI NH (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	284.16	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	700.84	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	630.76	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	552543	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	12.18	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	2.99	Rs. Lac
J	Net Revenue Collected	H+I	15.17	Rs. Lac
K	% revenue return	(J/A)*100	5.3	%
L	Pay Back Period	100/K	18.73	Years

Revenue Return Sheet -DURA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	46.68	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	420.51	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	378.46	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	331534	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	7.31	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac
J	Net Revenue Collected	H+I	7.34	Rs. Lac
K	% revenue return	(J/A)*100	15.7	%
L	Pay Back Period	100/K	6.36	Years

Revenue Return Sheet -SIDHARTH NAGAR (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	75.79	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	155.92	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	140.33	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	122931	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.71	Rs. Lac

I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.35	Rs. Lac
J	Net Revenue Collected	H+I	4.06	Rs. Lac
K	% revenue return	(J/A)*100	5.4	%
L	Pay Back Period	100/K	18.66	Years

Revenue Return Sheet -RAGHUNATHPUR (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	28.06	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	300.40	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	270.36	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	236837	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.22	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.02	Rs. Lac
J	Net Revenue Collected	H+I	5.24	Rs. Lac
K	% revenue return	(J/A)*100	18.7	%
L	Pay Back Period	100/K	5.36	Years

Revenue Return Sheet -11KV New Lanjipalli (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	84.14	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	358.23	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	322.41	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	282430	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	6.23	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	3.60	Rs. Lac
J	Net Revenue Collected	H+I	9.82	Rs. Lac
K	% revenue return	(J/A)*100	11.7	%
L	Pay Back Period	100/K	8.56	Years

Revenue Return Sheet -Town Hall + Tata Benz (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	8.80	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	394.75	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	355.28	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	311221	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	6.86	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	6.51	Rs. Lac
J	Net Revenue Collected	H+I	13.37	Rs. Lac
K	% revenue return	(J/A)*100	151.9	%
L	Pay Back Period	100/K	0.66	Years

Revenue Return Sheet -New Ambapua (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	294.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	344.81	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	310.33	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	271851	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.99	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	8.61	Rs. Lac
J	Net Revenue Collected	H+I	14.60	Rs. Lac
K	% revenue return	(J/A)*100	5.0	%
L	Pay Back Period	100/K	20.13	Years

Revenue Return Sheet -Nilanchal Nagar (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	11.01	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	686.99	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	618.29	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	541622	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	11.94	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	11.94	Rs. Lac
K	% revenue return	(J/A)*100	108.5	%
L	Pay Back Period	100/K	0.92	Years

Revenue Return Sheet -OLD BUS STAND(New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	82.35	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	216.45	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	194.81	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	170649	kWH
E	Power Purchase cost per unit	-	2.155	Rs.

F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.76	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.49	Rs. Lac
J	Net Revenue Collected	H+I	5.25	Rs. Lac
K	% revenue return	(J/A)*100	6.4	%
L	Pay Back Period	100/K	15.67	Years

Revenue Return Sheet -TATABENZ-LANJIPALLI (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	150.96	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	595.19	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	535.67	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	469247	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	10.35	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	5.79	Rs. Lac
J	Net Revenue Collected	H+I	16.14	Rs. Lac
K	% revenue return	(J/A)*100	10.7	%
L	Pay Back Period	100/K	9.35	Years

Revenue Return Sheet -ANKULI NH_New				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	284.15	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	777.05	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	699.34	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	612626	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	13.51	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.36	Rs. Lac
J	Net Revenue Collected	H+I	14.87	Rs. Lac
K	% revenue return	(J/A)*100	5.2	%
L	Pay Back Period	100/K	19.11	Years

Revenue Return Sheet -GOLIA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	34.37	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	33.43	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	30.09	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	26356	kWH

E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.58	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	2.18	Rs. Lac
J	Net Revenue Collected	H+I	2.76	Rs. Lac
K	% revenue return	(J/A)*100	8.0	%
L	Pay Back Period	100/K	12.43	Years

Revenue Return Sheet -KS NAGAR TOWN (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	69.01	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	188.81	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	169.93	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	148858	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.28	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.23	Rs. Lac
J	Net Revenue Collected	H+I	3.51	Rs. Lac
K	% revenue return	(J/A)*100	5.1	%
L	Pay Back Period	100/K	19.64	Years

Revenue Return Sheet -PADMAPUR (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	122.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	329.33	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	296.40	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	259643	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.73	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.47	Rs. Lac
J	Net Revenue Collected	H+I	6.19	Rs. Lac
K	% revenue return	(J/A)*100	5.1	%
L	Pay Back Period	100/K	19.70	Years

Revenue Return Sheet -KHANDADEULI MEDICA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	21.46	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	268.81	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	241.93	kW

D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	211930	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.67	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	2.59	Rs. Lac
J	Net Revenue Collected	H+I	7.27	Rs. Lac
K	% revenue return	(J/A)*100	33.9	%
L	Pay Back Period	100/K	2.95	Years

Revenue Return Sheet -DUMULA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	49.40	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	156.04	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	140.43	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	123018	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.71	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac
J	Net Revenue Collected	H+I	2.74	Rs. Lac
K	% revenue return	(J/A)*100	5.5	%
L	Pay Back Period	100/K	18.04	Years

Revenue Return Sheet -Jaltar-Puttasing (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	8.25	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	43.35	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	39.02	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	34180	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.75	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.75	Rs. Lac
K	% revenue return	(J/A)*100	9.1	%
L	Pay Back Period	100/K	10.95	Years

Revenue Return Sheet - Gumuda-Subdrapur (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	8.25	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	54.95	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	49.46	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	43325	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.96	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.96	Rs. Lac
K	% revenue return	(J/A)*100	11.6	%
L	Pay Back Period	100/K	8.64	Years

Revenue Return Sheet - Regada-Court (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	8.25	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	306.53	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	275.88	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	241669	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.33	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	5.33	Rs. Lac
K	% revenue return	(J/A)*100	64.6	%
L	Pay Back Period	100/K	1.55	Years

Revenue Return Sheet - Court-Town (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	8.25	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	370.06	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	333.05	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	291753	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	6.43	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	6.43	Rs. Lac
K	% revenue return	(J/A)*100	77.9	%
L	Pay Back Period	100/K	1.28	Years

Revenue Return Sheet - Bankili-Tandikona (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	8.25	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	24.44	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	21.99	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	19266	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.42	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.42	Rs. Lac
K	% revenue return	(J/A)*100	5.1	%
L	Pay Back Period	100/K	19.43	Years

Revenue Return Sheet - Girliguma (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	57.15	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	347.40	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	312.66	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	273891	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	6.04	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.02	Rs. Lac
J	Net Revenue Collected	H+I	6.06	Rs. Lac
K	% revenue return	(J/A)*100	10.6	%
L	Pay Back Period	100/K	9.43	Years

Revenue Return Sheet -Sunki (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	57.15	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	159.31	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	143.37	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	125596	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.77	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.65	Rs. Lac
J	Net Revenue Collected	H+I	3.42	Rs. Lac

K	% revenue return	(J/A)*100	6.0	%
L	Pay Back Period	100/K	16.71	Years

Revenue Return Sheet -Koraput No-2 & Podagada No-2 (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	103.96	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	328.99	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	296.09	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	259372	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.72	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.41	Rs. Lac
J	Net Revenue Collected	H+I	6.13	Rs. Lac
K	% revenue return	(J/A)*100	5.9	%
L	Pay Back Period	100/K	16.96	Years

Revenue Return Sheet -Koraput No-1, 2 & OMP Town/Silk board Feeder (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	80.49	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	241.55	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	217.39	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	190434	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.20	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.50	Rs. Lac
J	Net Revenue Collected	H+I	5.70	Rs. Lac
K	% revenue return	(J/A)*100	7.1	%
L	Pay Back Period	100/K	14.12	Years

Revenue Return Sheet -Koraput No-3 & New Feeder from OMP PSS (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	112.65	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	432.89	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	389.60	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	341289	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	7.53	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.32	Rs. Lac
J	Net Revenue Collected	H+I	7.84	Rs. Lac

K	% revenue return	(J/A)*100	7.0	%
L	Pay Back Period	100/K	14.37	Years

Revenue Return Sheet -Lulla Feeder (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	48.33	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	341.99	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	307.79	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	269625	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.95	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	5.95	Rs. Lac
K	% revenue return	(J/A)*100	12.3	%
L	Pay Back Period	100/K	8.12	Years

Revenue Return Sheet -Champi-Laxmiput Town(New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	44.48	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	161.68	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	145.51	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	127469	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.81	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	2.81	Rs. Lac
K	% revenue return	(J/A)*100	6.3	%
L	Pay Back Period	100/K	15.82	Years

Revenue Return Sheet -Balipeta(New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	39.52	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	127.34	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	114.61	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	100397	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.21	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac

J	Net Revenue Collected	H+I	2.25	Rs. Lac
K	% revenue return	(J/A)*100	5.7	%
L	Pay Back Period	100/K	17.58	Years

Revenue Return Sheet -Kunduli(New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	52.74	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	109.66	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	98.70	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	86459	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.91	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.50	Rs. Lac
J	Net Revenue Collected	H+I	3.41	Rs. Lac
K	% revenue return	(J/A)*100	6.5	%
L	Pay Back Period	100/K	15.48	Years

Revenue Return Sheet -Nuagaon (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	30.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	94.24	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	84.81	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	74296	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.64	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac
J	Net Revenue Collected	H+I	1.67	Rs. Lac
K	% revenue return	(J/A)*100	5.6	%
L	Pay Back Period	100/K	17.99	Years

Revenue Return Sheet - SUNATHARA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	33.01	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	83.49	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	75.14	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	65823	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.45	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.30	Rs. Lac

J	Net Revenue Collected	H+I	1.75	Rs. Lac
K	% revenue return	(J/A)*100	5.3	%
L	Pay Back Period	100/K	18.88	Years

Revenue Return Sheet - BHATAKUMARADA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	24.76	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	81.69	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	73.52	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	64407	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.42	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	1.42	Rs. Lac
K	% revenue return	(J/A)*100	5.7	%
L	Pay Back Period	100/K	17.43	Years

Revenue Return Sheet - PURUSHOTTAMPUR TOWN (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	24.76	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	185.14	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	166.63	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	145968	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.22	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.05	Rs. Lac
J	Net Revenue Collected	H+I	3.27	Rs. Lac
K	% revenue return	(J/A)*100	13.2	%
L	Pay Back Period	100/K	7.57	Years

Revenue Return Sheet - BALICHAI HATIOTA/KALAMBA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	16.50	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	131.47	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	118.33	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	103653	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.29	Rs. Lac

I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.02	Rs. Lac
J	Net Revenue Collected	H+I	2.31	Rs. Lac
K	% revenue return	(J/A)*100	14.0	%
L	Pay Back Period	100/K	7.15	Years

Revenue Return Sheet - CHHELIGADA_New (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	90.63	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	257.09	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	231.38	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	202688	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.47	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac
J	Net Revenue Collected	H+I	4.50	Rs. Lac
K	% revenue return	(J/A)*100	5.0	%
L	Pay Back Period	100/K	20.16	Years

Revenue Return Sheet - PARALAKHEMUNDI TOWN-4_New (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	77.92	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	263.56	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	237.20	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	207790	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.58	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	5.04	Rs. Lac
J	Net Revenue Collected	H+I	9.63	Rs. Lac
K	% revenue return	(J/A)*100	12.4	%
L	Pay Back Period	100/K	8.10	Years

Revenue Return Sheet - RAIGADA_New (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	4.13	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	21.07	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	18.96	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	16612	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.37	Rs. Lac

I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.01	Rs. Lac
J	Net Revenue Collected	H+I	0.38	Rs. Lac
K	% revenue return	(J/A)*100	9.2	%
L	Pay Back Period	100/K	10.83	Years

Revenue Return Sheet - SASANPADAR (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	62.38	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	446.11	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	401.50	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	351716	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	7.76	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.54	Rs. Lac
J	Net Revenue Collected	H+I	9.30	Rs. Lac
K	% revenue return	(J/A)*100	14.9	%
L	Pay Back Period	100/K	6.71	Years

Revenue Return Sheet - GUMUDA-DHODRA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	106.95	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	231.63	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	208.47	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	182621	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.03	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	16.65	Rs. Lac
J	Net Revenue Collected	H+I	20.68	Rs. Lac
K	% revenue return	(J/A)*100	19.3	%
L	Pay Back Period	100/K	5.17	Years

Revenue Return Sheet - GUMUDA-TEMRA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	78.88	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	195.87	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	176.28	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	154423	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.

H	Revenue owing to serving additional load	G*D/(10^5)	3.41	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	10.21	Rs. Lac
J	Net Revenue Collected	H+I	13.62	Rs. Lac
K	% revenue return	(J/A)*100	17.3	%
L	Pay Back Period	100/K	5.79	Years

Revenue Return Sheet - UMERKOT TOWN_NEW (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	79.67	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	296.76	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	267.09	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	233966	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.16	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.18	Rs. Lac
J	Net Revenue Collected	H+I	6.34	Rs. Lac
K	% revenue return	(J/A)*100	8.0	%
L	Pay Back Period	100/K	12.57	Years

Revenue Return Sheet - NABRANGPUR TOWN NO-1_NEW (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	91.23	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	236.75	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	213.07	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	186653	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.12	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	2.40	Rs. Lac
J	Net Revenue Collected	H+I	6.51	Rs. Lac
K	% revenue return	(J/A)*100	7.1	%
L	Pay Back Period	100/K	14.01	Years

Revenue Return Sheet - DONGRA-PAPADAHANDI (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	33.01	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	110.71	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	99.64	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	87282	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.

H	Revenue owing to serving additional load	G*D/(10^5)	1.92	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.10	Rs. Lac
J	Net Revenue Collected	H+I	2.03	Rs. Lac
K	% revenue return	(J/A)*100	6.1	%
L	Pay Back Period	100/K	16.27	Years

Revenue Return Sheet - SURULA-BHAIRABI (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	181.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	542.63	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	488.36	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	427806	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	9.43	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.04	Rs. Lac
J	Net Revenue Collected	H+I	9.47	Rs. Lac
K	% revenue return	(J/A)*100	5.2	%
L	Pay Back Period	100/K	19.12	Years

Revenue Return Sheet - RANDHA-TULU (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	49.30	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	210.66	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	189.59	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	166081	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.66	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	7.35	Rs. Lac
J	Net Revenue Collected	H+I	11.01	Rs. Lac
K	% revenue return	(J/A)*100	22.3	%
L	Pay Back Period	100/K	4.48	Years

Revenue Return Sheet - KUKUDAKHANDI-BOULAJHOLI (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	41.27	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	129.17	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	116.25	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	101835	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.25	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.06	Rs. Lac
J	Net Revenue Collected	H+I	3.30	Rs. Lac
K	% revenue return	(J/A)*100	8.0	%
L	Pay Back Period	100/K	12.50	Years

Revenue Return Sheet - LATHI-SANSAPADAR (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	48.37	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	143.10	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	128.79	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	112821	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.49	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	2.78	Rs. Lac
J	Net Revenue Collected	H+I	5.27	Rs. Lac
K	% revenue return	(J/A)*100	10.9	%
L	Pay Back Period	100/K	9.19	Years

Revenue Return Sheet - BALIGUDA HIGH SCHOOL NEW (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	31.79	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	163.67	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	147.31	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	129040	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.85	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.09	Rs. Lac
J	Net Revenue Collected	H+I	2.93	Rs. Lac
K	% revenue return	(J/A)*100	9.2	%
L	Pay Back Period	100/K	10.84	Years

Revenue Return Sheet - MUSUKULI-SINDRIGAON (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	61.08	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	442.06	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	397.85	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	348517	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	7.68	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	7.68	Rs. Lac
K	% revenue return	(J/A)*100	12.6	%
L	Pay Back Period	100/K	7.95	Years

Revenue Return Sheet - BISIPADA-KATRINGIA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	49.52	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	109.11	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	98.20	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	86024	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.90	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.58	Rs. Lac
J	Net Revenue Collected	H+I	2.48	Rs. Lac
K	% revenue return	(J/A)*100	5.0	%
L	Pay Back Period	100/K	19.97	Years

Revenue Return Sheet - DARSINGIBADI_NEW (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	48.33	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	135.37	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	121.83	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	106727	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.35	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.05	Rs. Lac
J	Net Revenue Collected	H+I	2.40	Rs. Lac
K	% revenue return	(J/A)*100	5.0	%
L	Pay Back Period	100/K	20.14	Years

Revenue Return Sheet - PHULBANI COLLEGE (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	4.95	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	241.70	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	217.53	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	190559	kWH
E	Power Purchase cost per unit	-	2.155	Rs.

F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.20	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	4.20	Rs. Lac
K	% revenue return	(J/A)*100	84.9	%
L	Pay Back Period	100/K	1.18	Years

Revenue Return Sheet - PHULBANI BAZAAR-PHULBANI MEDICAL (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	7.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	230.45	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	207.40	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	181686	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.01	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	4.01	Rs. Lac
K	% revenue return	(J/A)*100	57.3	%
L	Pay Back Period	100/K	1.75	Years

Revenue Return Sheet - KURTAMGADA NEW (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	83.58	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	173.82	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	156.44	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	137037	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.02	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.19	Rs. Lac
J	Net Revenue Collected	H+I	4.21	Rs. Lac
K	% revenue return	(J/A)*100	5.0	%
L	Pay Back Period	100/K	19.85	Years

Revenue Return Sheet - ANKORODA NEW (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	4.13	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	17.49	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	15.74	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	13788	kWH
E	Power Purchase cost per unit	-	2.155	Rs.

F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.30	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.42	Rs. Lac
J	Net Revenue Collected	H+I	0.73	Rs. Lac
K	% revenue return	(J/A)*100	17.6	%
L	Pay Back Period	100/K	5.67	Years

Revenue Return Sheet - Pitala-New (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	30.14	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	122.90	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	110.61	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	96891	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.14	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac
J	Net Revenue Collected	H+I	2.17	Rs. Lac
K	% revenue return	(J/A)*100	7.2	%
L	Pay Back Period	100/K	13.91	Years

Revenue Return Sheet - BADAKODANDA-Gangapur (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	56.42	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	148.55	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	133.70	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	117118	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.58	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.23	Rs. Lac
J	Net Revenue Collected	H+I	2.81	Rs. Lac
K	% revenue return	(J/A)*100	5.0	%
L	Pay Back Period	100/K	20.05	Years

Revenue Return Sheet - BAIBALI (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	13.21	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	40.04	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	36.04	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	31570	kWH

E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.70	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.88	Rs. Lac
J	Net Revenue Collected	H+I	1.58	Rs. Lac
K	% revenue return	(J/A)*100	12.0	%
L	Pay Back Period	100/K	8.36	Years

Revenue Return Sheet - SORADA TOWN (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	42.01	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	131.10	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	117.99	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	103357	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.28	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.22	Rs. Lac
J	Net Revenue Collected	H+I	2.50	Rs. Lac
K	% revenue return	(J/A)*100	5.9	%
L	Pay Back Period	100/K	16.83	Years

Revenue Return Sheet - Tulsi Nagar-New (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	86.71	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	219.72	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	197.75	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	173231	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.82	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.89	Rs. Lac
J	Net Revenue Collected	H+I	4.71	Rs. Lac
K	% revenue return	(J/A)*100	5.4	%
L	Pay Back Period	100/K	18.42	Years

Revenue Return Sheet - City Hospital (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	39.62	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	127.13	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	114.42	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	100231	kWH

E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.21	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.06	Rs. Lac
J	Net Revenue Collected	H+I	2.27	Rs. Lac
K	% revenue return	(J/A)*100	5.7	%
L	Pay Back Period	100/K	17.45	Years

Revenue Return Sheet - KHADAPA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	38.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	127.85	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	115.06	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	100794	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.22	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.07	Rs. Lac
J	Net Revenue Collected	H+I	2.29	Rs. Lac
K	% revenue return	(J/A)*100	6.0	%
L	Pay Back Period	100/K	16.60	Years

Revenue Return Sheet - TOWN (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	26.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	114.36	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	102.92	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	90158	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.99	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.55	Rs. Lac
J	Net Revenue Collected	H+I	3.54	Rs. Lac
K	% revenue return	(J/A)*100	13.6	%
L	Pay Back Period	100/K	7.35	Years

Revenue Return Sheet - JEYPORE-2 (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	4.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	92.04	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	82.84	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	72566	kWH

E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.60	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.02	Rs. Lac
J	Net Revenue Collected	H+I	1.62	Rs. Lac
K	% revenue return	(J/A)*100	40.5	%
L	Pay Back Period	100/K	2.47	Years

Revenue Return Sheet - KARAPALLI (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	41.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	69.08	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	62.17	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	54463	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.20	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.92	Rs. Lac
J	Net Revenue Collected	H+I	2.12	Rs. Lac
K	% revenue return	(J/A)*100	5.2	%
L	Pay Back Period	100/K	19.31	Years

Revenue Return Sheet - DUTIAPADA (New Line)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	145.00	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	387.31	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	348.58	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	305356	kWH
E	Power Purchase cost per unit	-	2.155	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.205	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	6.73	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.99	Rs. Lac
J	Net Revenue Collected	H+I	7.72	Rs. Lac
K	% revenue return	(J/A)*100	5.3	%
L	Pay Back Period	100/K	18.77	Years

8.3. Technical Loss Calculation 11kV Line Upgradation:

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF – 0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	Good shed	GOODSHED	514.39	12.09	7.55	0.17	1480.95	0.03	2255.03	1740.65
After Proposal	Good shed	GOODSHED	514.05	11.75	7.38					
Before Proposal	Good shed	HILPATNA	2040.41	58.62	36.92	1.90	16621.73	0.37	3098.11	1057.69
After Proposal	Good shed	HILPATNA	2036.59	54.79	35.02					
Before Proposal	Good shed	LANJIPALLI	2503.37	71.25	41.22	1.47	12862.24	0.28	2633.04	129.67
After Proposal	Good shed	LANJIPALLI	2496.39	68.28	39.75					
Before Proposal	Good shed	TATABENZ	3720.75	122.84	71.07	49.05	429720.70	9.48	3913.48	192.73
After Proposal	Good shed	TATABENZ	1648.92	34.24	22.01					
Before Proposal	Ambagada	AUTONAGAR	132.15	2.03	1.74	0.01	45.36	0.00	198.23	66.08
After Proposal	Ambagada	AUTONAGAR	132.16	2.02	1.74					
Before Proposal	Ambagada	GANDHINAGAR-I	1713.00	33.72	22.17	1.08	9480.04	0.21	4637.80	2924.80
After Proposal	Ambagada	GANDHINAGAR-I	1710.83	31.55	21.09					
Before Proposal	Ambagada	HOUSING BOARD	3284.76	77.83	47.17	4.08	35730.26	0.79	3435.86	151.10
After Proposal	Ambagada	HOUSING BOARD	3641.97	69.65	43.09					
Before Proposal	Ambagada	ASKA ROAD	2441.71	76.67	43.05	5.12	44874.55	0.99	2554.02	112.32
After Proposal	Ambagada	ASKA ROAD	2431.82	66.40	37.93					
Before Proposal	Ambagada	CITYHOSPITAL-AMBAG	1835.19	52.59	32.21	0.02	177.37	0.00	1919.61	84.42
After Proposal	Ambagada	CITYHOSPITAL-AMBAG	1835.26	52.55	32.19					
Before Proposal	Ambagada	OLD BARHAMPUR	2166.63	61.18	36.93	0.01	54.07	0.00	2766.30	599.67
After Proposal	Ambagada	OLD BARHAMPUR	2166.75	61.17	36.92					
Before Proposal	NKNagar	GANDHINAGAR-2	4449.08	127.08	76.33	0.08	666.31	0.01	4653.74	204.66
After Proposal	NKNagar	GANDHINAGAR-2	4449.11	126.92	76.26					
Before Proposal	Ambapua	AMBAPUA	2709.11	98.99	59.14	5.83	51074.49	1.13	2849.44	140.33
After Proposal	Ambapua	AMBAPUA	2697.51	87.26	53.31					
Before Proposal	Ankuli	NIGAM NAGAR	1183.10	29.23	17.38	2.67	23403.98	0.52	1244.38	61.28
After Proposal	Ankuli	NIGAM NAGAR	1177.54	23.66	14.71					
Before Proposal	Gopalpur	HARIPUR	1508.90	64.23	37.25	0.03	263.98	0.006	1627.06	118.16
After Proposal	Gopalpur	HARIPUR	1508.89	64.17	37.22					

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF – 0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	Medical	COURTPETA	2829.15	78.72	50.13	6.07	53209.94	1.17	3175.70	346.55
After Proposal	Medical	COURTPETA	2816.89	66.46	44.06					
Before Proposal	Medical	KAMAPALLY	2177.58	49.90	29.15	1.55	13537.79	0.30	2290.38	112.80
After Proposal	Medical	KAMAPALLY	2174.48	46.80	27.60					
Before Proposal	Medical	OLD BUS STAND	2023.26	47.90	25.72	24.08	210945.98	4.65	2128.07	104.81
After Proposal	Medical	OLD BUS STAND	355.60	2.28	1.64					
Before Proposal	Medical	MKCG HOSPITAL	1303.08	8.86	6.25	0.53	4659.46	0.10	1370.58	67.50
After Proposal	Medical	MKCG HOSPITAL	1302.00	7.79	5.72					
Before Proposal	Gopalpur	GOLABANDHA	1028.80	78.89	43.51	4.26	37346.37	0.82	1082.09	53.29
After Proposal	Gopalpur	GOLABANDHA	1020.26	70.30	39.25					
Before Proposal	Gopalpur	KARAPALLI	1200.25	51.80	31.45	4.78	41849.13	0.92	1262.42	62.17
After Proposal	Gopalpur	KARAPALLI	1190.72	42.14	26.67					
Before Proposal	Medical	TOWN HALL	3137.85	160.82	82.96	0.50	4355.71	0.10	3471.39	333.54
After Proposal	Medical	TOWN HALL	3142.28	159.83	82.46					
Before Proposal	KS NAGAR	BOLOSARA	1640.41	101.98	54.62	0.40	3519.09	0.08	1684.70	44.29
After Proposal	KS NAGAR	BOLOSARA	1639.78	101.17	54.21					
Before Proposal	KS NAGAR	GUDIALI	1474.80	68.76	41.79	1.20	10471.31	0.23	1514.62	39.82
After Proposal	KS NAGAR	GUDIALI	1472.48	66.38	40.60					
Before Proposal	BUDHAMBA	BUDHAMBA	412.46	9.78	7.32	0.00	0.00	0.00	526.48	114.02
After Proposal	BUDHAMBA	BUDHAMBA	412.46	9.78	7.32					
Before Proposal	BUGUDA	PANGIDI	999.58	37.93	23.05	2.69	23577.01	0.52	1066.57	66.99
After Proposal	BUGUDA	PANGIDI	991.21	32.49	20.36					
Before Proposal	BALIAPADAR	A KADABADI	857.30	25.15	18.74	0.02	175.99	0.00	880.45	23.15
After Proposal	BALIAPADAR	A KADABADI	857.31	25.11	18.72					
Before Proposal	BUDHAMBA	ATHAGADA PATNA	529.26	19.11	11.87	0.02	131.99	0.00	543.55	14.29
After Proposal	BUDHAMBA	ATHAGADA PATNA	529.26	19.08	11.85					
Before Proposal	GUNUPUR	GUNUPUR TOWN	2709.34	102.59	58.53	2.32	20357.70	0.45	2883.01	173.67
After Proposal	GUNUPUR	GUNUPUR TOWN	2704.52	97.92	56.21					
Before Proposal	GUNUPUR	COURT(GUNUPUR)	2486.47	99.16	57.97	0.02	206.72	0.005	2645.86	159.38
After Proposal	GUNUPUR	COURT(GUNUPUR)	2486.19	99.11	57.95					
Before Proposal	GUNUPUR	REGADA	1817.39	79.68	45.53	0.01	94.62	0.002	1933.89	116.49

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF – 0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
After Proposal	GUNUPUR	REGADA	1817.36	79.66	45.52					
Before Proposal	DEKHALI	JAKARA	685.82	23.35	18.32	0.01	44.00	0.001	734.16	48.34
After Proposal	DEKHALI	JAKARA	685.81	23.34	18.32					
Before Proposal	PITATALI	KRUSHNA NAGAR	274.34	9.08	7.91	0.01	44.00	0.001	319.68	45.34
After Proposal	PITATALI	KRUSHNA NAGAR	274.36	9.07	7.91					
Before Proposal	HUMMA	BADAMADHAPUR	1371.73	73.88	42.76	8.56	75028.36	1.654	1532.09	160.36
After Proposal	HUMMA	BADAMADHAPUR	1354.56	56.60	34.19					
Before Proposal	HUMMA	PALUR	1063.07	63.69	40.07	3.94	34509.77	0.761	1197.34	134.27
After Proposal	HUMMA	PALUR	1055.40	55.64	36.13					
Before Proposal	HUMMA	KHANDADEULI	1423.11	81.94	51.09	22.78	199524.80	4.400	1589.47	166.36
After Proposal	HUMMA	KHANDADEULI	1096.42	42.22	28.32					
Before Proposal	KANHEIPUR	KANHEIPUR	2503.42	234.29	126.60	0.04	379.22	0.008	2796.07	292.65
After Proposal	KANHEIPUR	KANHEIPUR	2503.35	234.21	126.56					
Before Proposal	KHALIKOTE	SYAMASUNDARPUR	1815.46	127.99	70.02	8.76	76710.04	1.691	2027.69	212.23
After Proposal	KHALIKOTE	SYAMASUNDARPUR	1798.28	110.38	61.26					
Before Proposal	KHALIKOTE	KHALLIKOTE TOWN	1536.83	42.87	25.71	1.73	15178.81	0.335	1716.49	179.66
After Proposal	KHALIKOTE	KHALLIKOTE TOWN	1533.34	39.38	23.98					
Before Proposal	Sunabeda	SEMILIGUDA TOWN	2091.90	175.63	92.18	1.39	12189.15	0.269	2210.72	118.82
After Proposal	Sunabeda	SEMILIGUDA TOWN	2089.54	172.84	90.79					
Before Proposal	SEMILIGUDA	BILEIGUDA TOWN	1236.52	54.54	42.72	0.99	8662.05	0.191	1306.75	70.23
After Proposal	SEMILIGUDA	BILEIGUDA TOWN	1234.55	52.48	41.73					
Before Proposal	BEGUNIAPADA	ANGARAGAON OLD	1080.23	48.24	30.61	5.31	46540.37	1.026	1152.61	72.38
After Proposal	BEGUNIAPADA	ANGARAGAON OLD	1069.58	37.45	25.30					
Before Proposal	CHIRIKIPADA	PANDIRIPADA	428.66	29.30	19.36	0.00	1.36	0.000	457.38	28.72
After Proposal	CHIRIKIPADA	PANDIRIPADA	428.66	29.30	19.36					
Before Proposal	KODALA	OLD GUDIALI	531.54	17.59	13.47	0.30	2598.05	0.057	567.15	35.61
After Proposal	KODALA	OLD GUDIALI	530.94	16.98	13.18					
Before Proposal	PANDIA	BHUTASARSINGI	1628.88	160.66	90.41	0.29	2538.83	0.056	1738.02	109.14
After Proposal	PANDIA	BHUTASARSINGI	1628.31	160.07	90.12					
Before Proposal	POLASARA	BELAGAON	685.83	16.10	12.46	0.00	0.18	0.000	731.78	45.95
After Proposal	POLASARA	BELAGAON	685.83	16.10	12.46					

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF – 0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	TARATARINI	RANAJHALI	274.34	8.35	6.59	0.00	0.40	0.000	292.72	18.38
After Proposal	TARATARINI	RANAJHALI	274.34	8.35	6.59					
Before Proposal	BALISIRA	NIMINA	1543.15	135.33	74.45	11.01	96410.96	2.126	1645.93	102.77
After Proposal	BALISIRA	NIMINA	1521.75	113.12	63.45					
Before Proposal	NUAGAON	COLLEGE SQUARE	2657.71	174.72	95.17	0.20	1773.95	0.039	2834.72	177.00
After Proposal	NUAGAON	COLLEGE SQUARE	2657.99	174.32	94.96					
Before Proposal	NUAGAON	MUKUNDAPUR	3412.15	317.96	170.79	0.23	2054.24	0.045	3639.39	227.25
After Proposal	NUAGAON	MUKUNDAPUR	3420.08	317.57	170.55					
Before Proposal	CHANDRAGIRI	ANTARBA	1013.68	94.88	59.43	1.42	12412.09	0.274	1069.73	56.06
After Proposal	CHANDRAGIRI	ANTARBA	1010.34	92.21	58.01					
Before Proposal	MOHANA	PITAPANI	462.94	33.76	23.74	0.27	2380.64	0.052	568.54	105.60
After Proposal	MOHANA	PITAPANI	462.54	33.19	23.46					
Before Proposal	NIMAKHANDI	LUCHAPADA	3386.47	193.81	104.25	18.25	159872.92	3.525	3535.14	148.67
After Proposal	NIMAKHANDI	LUCHAPADA	3350.76	157.18	86.00					
Before Proposal	NIMAKHANDI	NIMAKHANDI	2863.98	154.83	84.59	24.98	218835.74	4.825	2989.71	125.73
After Proposal	NIMAKHANDI	NIMAKHANDI	2814.36	104.72	59.61					
Before Proposal	MANTRIDI	NIST	895.52	9.52	6.43	0.00	11.86	0.000	1003.83	108.31
After Proposal	MANTRIDI	NIST	895.51	9.51	6.43					
Before Proposal	KANISI	TULU	2209.00	225.31	123.27	39.61	346948.47	7.650	2305.97	96.98
After Proposal	KANISI	TULU	1807.90	150.50	83.66					
Before Proposal	Jodinga	Turudhi	2006.15	229.58	131.73	1.60	13989.74	0.308	2185.50	179.35
After Proposal	Jodinga	Turudhi	2003.11	226.32	130.13					
Before Proposal	Raighar	Chatabeda	1903.32	274.12	150.72	3.78	33099.34	0.730	2073.48	170.16
After Proposal	Raighar	Chatabeda	1906.45	266.38	146.94					
Before Proposal	Dabugam	Gumuda	1491.73	186.30	115.49	49.70	435343.26	9.599	1625.09	133.36
After Proposal	Dabugam	Gumuda	1144.01	91.69	65.79					
Before Proposal	Jodinga	Hatabharandi	1971.86	242.64	136.64	2.93	25686.03	0.566	2148.15	176.28
After Proposal	Jodinga	Hatabharandi	1973.21	236.63	133.71					
Before Proposal	Jodinga	Parchipara	1063.09	100.23	57.41	7.85	68776.14	1.517	1158.13	95.04
After Proposal	Jodinga	Parchipara	1048.92	84.15	49.56					
Before Proposal	Beheda	Beheda	1285.92	101.73	58.70	7.61	66644.24	1.470	1400.88	114.96

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF – 0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
After Proposal	Beheda	Beheda	1270.95	86.27	51.09					
Before Proposal	Beheda	Burja	943.06	85.11	50.42	8.07	70681.96	1.559	1027.36	84.31
After Proposal	Beheda	Burja	927.76	69.04	42.35					
Before Proposal	BAGHIAPADA	BAGHIAPADA	668.71	35.81	25.38	0.94	8208.66	0.181	727.56	58.85
After Proposal	BAGHIAPADA	BAGHIAPADA	667.33	33.85	24.44					
Before Proposal	RAMBHIKATA	BIRANARASING PUR	462.95	18.87	14.82	0.00	6.64	0.000	503.69	40.74
After Proposal	RAMBHIKATA	BIRANARASING PUR	462.95	18.86	14.82					
Before Proposal	HINJILI	Badakhandi	1063.10	31.38	22.53	0.01	87.99	0.002	1090.21	27.11
After Proposal	HINJILI	Badakhandi	1063.06	31.36	22.52					
Before Proposal	SHEREGADA	Padamanvapur	1003.93	47.19	28.97	4.84	42370.57	0.934	1029.53	25.60
After Proposal	SHEREGADA	Padamanvapur	994.48	37.58	24.14					
Before Proposal	BALIMELA	OLD KORKUNDA	325.78	18.66	13.28	1.35	11837.72	0.261	419.73	93.95
After Proposal	BALIMELA	OLD KORKUNDA	323.49	15.86	11.93					
Before Proposal	MALKANGIRI	MV-7	1543.16	104.45	61.75	0.18	1537.42	0.034	1675.56	132.40
After Proposal	MALKANGIRI	MV-7	1542.81	104.09	61.57					
Before Proposal	MALKANGIRI	MALKANGIRI DNK	2486.86	145.54	81.85	26.24	229857.66	5.068	2700.24	213.37
After Proposal	MALKANGIRI	MALKANGIRI DNK	2434.42	92.67	55.61					
Before Proposal	MALKANGIRI	CHALLANGUDA	685.88	60.97	44.00	3.55	31105.29	0.686	744.73	58.85
After Proposal	MALKANGIRI	CHALLANGUDA	678.28	53.43	40.45					
Before Proposal	MALKANGIRI	TOWN	2899.95	204.36	109.94	34.70	303947.30	6.702	3148.77	248.82
After Proposal	MALKANGIRI	TOWN	2830.79	134.73	75.25					
Before Proposal	AUTONAGAR	AUTO NAGAR TOWN 3	5019.27	395.34	203.34	66.02	578362.31	12.753	5306.37	287.10
After Proposal	AUTONAGAR	AUTO NAGAR TOWN 3	4886.33	263.46	137.32					
Before Proposal	AUTONAGAR	JK PUR	1714.65	86.62	47.23	7.61	66649.87	1.470	1857.73	143.08
After Proposal	AUTONAGAR	JK PUR	1699.32	71.35	39.62					
Before Proposal	AUTONAGAR	AUTO NAGAR TOWN 4	6413.56	770.63	392.04	0.21	1830.20	0.040	6780.42	366.86
After Proposal	AUTONAGAR	AUTO NAGAR TOWN 4	6413.26	770.21	391.83					
Before Proposal	BISAMKATAK	DAKULIGUDA 1	620.70	42.77	29.89	0.00	25.61	0.001	666.20	45.50
After Proposal	BISAMKATAK	DAKULIGUDA 1	620.67	42.77	29.88					
Before Proposal	SERIGUDA	SERIGUDA TOWN 2	548.76	16.90	14.46	0.30	2614.37	0.058	610.15	61.39
After Proposal	SERIGUDA	SERIGUDA TOWN 2	548.07	16.28	14.16					

Stage	PSS	Feeder	Peak Loading (kW)	Losses at peak loading (kW)	Avg. Loss reduction (kW) (LLF – 0.49)	Avg. Loss reduction(kw)	Unit saved annually (kWH)	Annual saving (Rs Lacs) (Rs 2.205/Unit)	LG in kW (Considered for 1 year)	Additional Load in kW
Before Proposal	BHANJANAGAR	GAMUNDI	2066.65	59.33	35.36	0.00	20.39	0.000	2165.23	98.58
After Proposal	BHANJANAGAR	GAMUNDI	2066.65	59.33	35.36					
Before Proposal	BHANJANAGAR	BHANJANAGAR TOWN	2135.22	47.10	29.97	0.66	5819.69	0.128	2457.07	321.85
After Proposal	BHANJANAGAR	BHANJANAGAR TOWN	2133.89	45.77	29.31					
Before Proposal	BHANJANAGAR	BHANJANAGAR COLLAG	2174.15	57.21	35.56	0.25	2173.33	0.048	2277.86	103.71
After Proposal	BHANJANAGAR	BHANJANAGAR COLLAG	2173.65	56.71	35.31					

8.4. Cost Benefit Analysis-11kV Line Upgradation

Revenue Return Sheet -GOODSHED (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	29.40	Rs. Lac
B	Additional load due to load growth		1934.05	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	1740.65	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	1524805.25	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	33.62	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac
J	Net Revenue Collected	H+I	33.65	Rs. Lac
K	% revenue return	(J/A)*100	114.46	%
L	Pay Back Period	100/K	0.87	Years

Revenue Return Sheet -HILPATNA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	45.58	Rs. Lac
B	Additional load due to load growth	Refer Technical Loss Calculation	1175.21	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	1057.69	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	926539.48	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	20.43	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.37	Rs. Lac
J	Net Revenue Collected	H+I	20.80	Rs. Lac
K	% revenue return	(J/A)*100	45.63	%
L	Pay Back Period	100/K	2.19	Years

Revenue Return Sheet -LANJIPALLI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	23.52	Rs. Lac
B	Additional load due to load growth		144.08	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	129.67	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	113594.72	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.50	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.28	Rs. Lac
J	Net Revenue Collected	H+I	2.79	Rs. Lac
K	% revenue return	(J/A)*100	11.85	%
L	Pay Back Period	100/K	8.44	Years

Revenue Return Sheet -TATABENZ (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	59.96	Rs. Lac
B	Additional load due to load growth		214.15	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	192.73	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	168835.51	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.72	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	9.48	Rs. Lac
J	Net Revenue Collected	H+I	13.20	Rs. Lac
K	% revenue return	(J/A)*100	22.01	%
L	Pay Back Period	100/K	4.54	Years

Revenue Return Sheet -AUTONAGAR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	23.52	Rs. Lac
B	Additional load due to load growth		73.42	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	66.08	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	57885.18	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.

H	Revenue owing to serving additional load	G*D/(10^5)	1.28	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	1.28	Rs. Lac
K	% revenue return	(J/A)*100	5.43	%
L	Pay Back Period	100/K	18.42	Years

Revenue Return Sheet -GANDHINAGAR-I (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	22.05	Rs. Lac
B	Additional load due to load growth		3249.78	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	2924.80	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	2562123.23	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	56.49	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.21	Rs. Lac
J	Net Revenue Collected	H+I	56.70	Rs. Lac
K	% revenue return	(J/A)*100	257.12	%
L	Pay Back Period	100/K	0.39	Years

Revenue Return Sheet -HOUSING BOARD (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	10.29	Rs. Lac
B	Additional load due to load growth		167.89	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	151.10	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	132362.58	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.92	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.79	Rs. Lac
J	Net Revenue Collected	H+I	3.71	Rs. Lac
K	% revenue return	(J/A)*100	36.02	%
L	Pay Back Period	100/K	2.78	Years

Revenue Return Sheet -ASKA ROAD (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	27.93	Rs. Lac
B	Additional load due to load growth		124.80	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	112.32	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	98390.96	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.17	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.99	Rs. Lac
J	Net Revenue Collected	H+I	3.16	Rs. Lac
K	% revenue return	(J/A)*100	11.31	%
L	Pay Back Period	100/K	8.84	Years

Revenue Return Sheet -CITYHOSPITAL-AMBAG (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	13.60	Rs. Lac
B	Additional load due to load growth		93.80	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	84.42	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	73950.74	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.63	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	1.63	Rs. Lac
K	% revenue return	(J/A)*100	12.02	%
L	Pay Back Period	100/K	8.32	Years

Revenue Return Sheet -OLD BARHAMPUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	18.57	Rs. Lac
B	Additional load due to load growth		666.29	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	599.67	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	525306.63	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.

H	Revenue owing to serving additional load	G*D/(10^5)	11.58	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	11.58	Rs. Lac
K	% revenue return	(J/A)*100	62.38	%
L	Pay Back Period	100/K	1.60	Years

Revenue Return Sheet -GANDHINAGAR-2 (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	17.60	Rs. Lac
B	Additional load due to load growth		227.40	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	204.66	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	179280.28	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.95	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.01	Rs. Lac
J	Net Revenue Collected	H+I	3.97	Rs. Lac
K	% revenue return	(J/A)*100	22.54	%
L	Pay Back Period	100/K	4.44	Years

Revenue Return Sheet -GANDHINAGAR-2 (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	17.60	Rs. Lac
B	Additional load due to load growth		227.40	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	204.66	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	179280.28	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.95	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.01	Rs. Lac
J	Net Revenue Collected	H+I	3.97	Rs. Lac
K	% revenue return	(J/A)*100	22.54	%
L	Pay Back Period	100/K	4.44	Years

Revenue Return Sheet -AMBAPUA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	12.38	Rs. Lac
B	Additional load due to load growth		155.92	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	140.33	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	122930.84	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.71	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.13	Rs. Lac
J	Net Revenue Collected	H+I	3.84	Rs. Lac
K	% revenue return	(J/A)*100	30.99	%
L	Pay Back Period	100/K	3.23	Years

Revenue Return Sheet -NIGAM NAGAR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	18.57	Rs. Lac
B	Additional load due to load growth		68.09	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	61.28	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	53685.09	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.18	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.52	Rs. Lac
J	Net Revenue Collected	H+I	1.70	Rs. Lac
K	% revenue return	(J/A)*100	9.15	%
L	Pay Back Period	100/K	10.92	Years

Revenue Return Sheet -HARIPUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	42.00	Rs. Lac
B	Additional load due to load growth		131.29	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	118.16	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	103509.19	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.28	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.01	Rs. Lac
J	Net Revenue Collected	H+I	2.29	Rs. Lac
K	% revenue return	(J/A)*100	5.45	%
L	Pay Back Period	100/K	18.36	Years

Revenue Return Sheet -COURTPETA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	152.70	Rs. Lac
B	Additional load due to load growth		385.06	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	346.55	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	303577.58	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	6.69	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.17	Rs. Lac
J	Net Revenue Collected	H+I	7.87	Rs. Lac
K	% revenue return	(J/A)*100	5.15	%
L	Pay Back Period	100/K	19.41	Years

Revenue Return Sheet -KAMAPALLY (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	17.64	Rs. Lac
B	Additional load due to load growth		125.33	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	112.80	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	98811.47	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.18	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.30	Rs. Lac
J	Net Revenue Collected	H+I	2.48	Rs. Lac
K	% revenue return	(J/A)*100	14.04	%
L	Pay Back Period	100/K	7.12	Years

Revenue Return Sheet -OLD BUS STAND (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	59.55	Rs. Lac
B	Additional load due to load growth		116.45	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	104.81	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	91809.25	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.02	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	4.65	Rs. Lac
J	Net Revenue Collected	H+I	6.68	Rs. Lac
K	% revenue return	(J/A)*100	11.21	%
L	Pay Back Period	100/K	8.92	Years

Revenue Return Sheet -MKCG HOSPITAL (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	8.66	Rs. Lac
B	Additional load due to load growth		75.00	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	67.50	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	59129.48	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.30	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.10	Rs. Lac
J	Net Revenue Collected	H+I	1.41	Rs. Lac
K	% revenue return	(J/A)*100	16.24	%
L	Pay Back Period	100/K	6.16	Years

Revenue Return Sheet -GOLABANDHA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	23.52	Rs. Lac
B	Additional load due to load growth		59.21	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	53.29	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	46683.76	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.

H	Revenue owing to serving additional load	G*D/(10^5)	1.03	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.82	Rs. Lac
J	Net Revenue Collected	H+I	1.85	Rs. Lac
K	% revenue return	(J/A)*100	7.88	%
L	Pay Back Period	100/K	12.69	Years

Revenue Return Sheet -KARAPALLI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	23.52	Rs. Lac
B	Additional load due to load growth		69.08	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	62.17	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	54463.41	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.20	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.92	Rs. Lac
J	Net Revenue Collected	H+I	2.12	Rs. Lac
K	% revenue return	(J/A)*100	9.03	%
L	Pay Back Period	100/K	11.08	Years

Revenue Return Sheet -TOWN HALL (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	59.95	Rs. Lac
B	Additional load due to load growth		370.60	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	333.54	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	292181.67	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	6.44	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.10	Rs. Lac
J	Net Revenue Collected	H+I	6.54	Rs. Lac
K	% revenue return	(J/A)*100	10.91	%
L	Pay Back Period	100/K	9.17	Years

Revenue Return Sheet -BOLOSARA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	3.88	Rs. Lac
B	Additional load due to load growth		49.21	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	44.29	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	38798.98	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.86	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.08	Rs. Lac
J	Net Revenue Collected	H+I	0.93	Rs. Lac
K	% revenue return	(J/A)*100	24.05	%
L	Pay Back Period	100/K	4.16	Years

Revenue Return Sheet -GUDIALI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	4.66	Rs. Lac
B	Additional load due to load growth		44.24	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	39.82	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	34881.97	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.77	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.23	Rs. Lac
J	Net Revenue Collected	H+I	1.00	Rs. Lac
K	% revenue return	(J/A)*100	21.46	%
L	Pay Back Period	100/K	4.66	Years

Revenue Return Sheet -BUDHAMBA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	5.58	Rs. Lac
B	Additional load due to load growth		126.69	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	114.02	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	99879.08	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.

H	Revenue owing to serving additional load	G*D/(10^5)	2.20	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	2.20	Rs. Lac
K	% revenue return	(J/A)*100	39.47	%
L	Pay Back Period	100/K	2.53	Years

Revenue Return Sheet -PANGIDI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	33.99	Rs. Lac
B	Additional load due to load growth		74.43	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	66.99	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	58682.07	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.29	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.52	Rs. Lac
J	Net Revenue Collected	H+I	1.81	Rs. Lac
K	% revenue return	(J/A)*100	5.34	%
L	Pay Back Period	100/K	18.74	Years

Revenue Return Sheet -A KADABADI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	3.79	Rs. Lac
B	Additional load due to load growth		25.72	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	23.15	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	20276.86	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.45	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.45	Rs. Lac
K	% revenue return	(J/A)*100	11.90	%
L	Pay Back Period	100/K	8.40	Years

Revenue Return Sheet -ATHAGADA PATNA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	5.58	Rs. Lac
B	Additional load due to load growth		15.88	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	14.29	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	12518.06	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.28	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.28	Rs. Lac
K	% revenue return	(J/A)*100	5.00	%
L	Pay Back Period	100/K	20.00	Years

Revenue Return Sheet -GUNUPUR TOWN (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	49.52	Rs. Lac
B	Additional load due to load growth		192.97	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	173.67	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	152133.93	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.35	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.45	Rs. Lac
J	Net Revenue Collected	H+I	3.80	Rs. Lac
K	% revenue return	(J/A)*100	7.68	%
L	Pay Back Period	100/K	13.02	Years

Revenue Return Sheet -COURT(GUNUPUR) (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	52.00	Rs. Lac
B	Additional load due to load growth		177.09	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	159.38	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	139619.39	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.

H	Revenue owing to serving additional load	G*D/(10^5)	3.08	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	3.08	Rs. Lac
K	% revenue return	(J/A)*100	5.93	%
L	Pay Back Period	100/K	16.87	Years

Revenue Return Sheet -REGADA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	18.57	Rs. Lac
B	Additional load due to load growth		129.44	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	116.49	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	102049.62	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.25	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	2.25	Rs. Lac
K	% revenue return	(J/A)*100	12.13	%
L	Pay Back Period	100/K	8.24	Years

Revenue Return Sheet - JAKARA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	16.75	Rs. Lac
B	Additional load due to load growth		53.71	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	48.34	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	42343.51	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.93	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.93	Rs. Lac
K	% revenue return	(J/A)*100	5.58	%
L	Pay Back Period	100/K	17.92	Years

Revenue Return Sheet -KRUSHNA NAGAR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	16.70	Rs. Lac
B	Additional load due to load growth		50.37	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	45.34	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	39713.99	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.88	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.88	Rs. Lac
K	% revenue return	(J/A)*100	5.25	%
L	Pay Back Period	100/K	19.05	Years

Revenue Return Sheet -BADAMADHAPUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	29.49	Rs. Lac
B	Additional load due to load growth		178.17	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	160.36	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	140471.19	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.10	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.65	Rs. Lac
J	Net Revenue Collected	H+I	4.75	Rs. Lac
K	% revenue return	(J/A)*100	16.11	%
L	Pay Back Period	100/K	6.21	Years

Revenue Return Sheet -PALUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	65.63	Rs. Lac
B	Additional load due to load growth		149.19	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	134.27	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	117623.05	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.59	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.76	Rs. Lac
J	Net Revenue Collected	H+I	3.35	Rs. Lac
K	% revenue return	(J/A)*100	5.11	%
L	Pay Back Period	100/K	19.57	Years

Revenue Return Sheet -KHANDADEULI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	130.28	Rs. Lac
B	Additional load due to load growth		184.85	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	166.36	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	145732.73	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.21	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	4.40	Rs. Lac
J	Net Revenue Collected	H+I	7.61	Rs. Lac
K	% revenue return	(J/A)*100	5.84	%
L	Pay Back Period	100/K	17.11	Years

Revenue Return Sheet - KANHEIPUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	18.65	Rs. Lac
B	Additional load due to load growth		325.17	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	292.65	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	256361.22	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.65	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.01	Rs. Lac
J	Net Revenue Collected	H+I	5.66	Rs. Lac
K	% revenue return	(J/A)*100	30.36	%
L	Pay Back Period	100/K	3.29	Years

Revenue Return Sheet - SYAMASUNDARPUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	15.54	Rs. Lac
B	Additional load due to load growth		235.81	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	212.23	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	185911.09	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.10	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.69	Rs. Lac
J	Net Revenue Collected	H+I	5.79	Rs. Lac
K	% revenue return	(J/A)*100	37.26	%
L	Pay Back Period	100/K	2.68	Years

Revenue Return Sheet - KHALLIKOTE TOWN (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	29.49	Rs. Lac
B	Additional load due to load growth		199.62	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	179.66	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	157378.15	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.47	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.33	Rs. Lac
J	Net Revenue Collected	H+I	3.80	Rs. Lac
K	% revenue return	(J/A)*100	12.90	%
L	Pay Back Period	100/K	7.75	Years

Revenue Return Sheet -SEMILIGUDA TOWN(Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	9.78	Rs. Lac
B	Additional load due to load growth		132.02	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	118.82	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	104086.27	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.30	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.27	Rs. Lac
J	Net Revenue Collected	H+I	2.56	Rs. Lac
K	% revenue return	(J/A)*100	26.20	%
L	Pay Back Period	100/K	3.82	Years

Revenue Return Sheet - BILEIGUDA TOWN(Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	12.58	Rs. Lac
B	Additional load due to load growth		78.04	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	70.23	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	61525.28	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.36	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.19	Rs. Lac
J	Net Revenue Collected	H+I	1.55	Rs. Lac
K	% revenue return	(J/A)*100	12.30	%
L	Pay Back Period	100/K	8.13	Years

Revenue Return Sheet -ANGARAGAON OLD (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	6.98	Rs. Lac
B	Additional load due to load growth		80.42	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	72.38	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	63400.95	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.40	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.03	Rs. Lac
J	Net Revenue Collected	H+I	2.42	Rs. Lac
K	% revenue return	(J/A)*100	34.72	%
L	Pay Back Period	100/K	2.88	Years

Revenue Return Sheet -PANDIRIPADA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	2.80	Rs. Lac
B	Additional load due to load growth		31.91	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	28.72	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	25159.08	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.55	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.55	Rs. Lac
K	% revenue return	(J/A)*100	19.84	%
L	Pay Back Period	100/K	5.04	Years

Revenue Return Sheet -OLD GUDIALI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	3.49	Rs. Lac
B	Additional load due to load growth		39.57	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	35.61	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	31196.88	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.69	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.06	Rs. Lac
J	Net Revenue Collected	H+I	0.75	Rs. Lac
K	% revenue return	(J/A)*100	21.34	%
L	Pay Back Period	100/K	4.69	Years

Revenue Return Sheet -BHUTASARSINGI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	6.98	Rs. Lac
B	Additional load due to load growth		121.26	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	109.14	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	95602.43	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.

H	Revenue owing to serving additional load	G*D/(10^5)	2.11	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.06	Rs. Lac
J	Net Revenue Collected	H+I	2.16	Rs. Lac
K	% revenue return	(J/A)*100	31.00	%
L	Pay Back Period	100/K	3.23	Years

Revenue Return Sheet -BELAGAON (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	2.79	Rs. Lac
B	Additional load due to load growth		51.06	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	45.95	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	40252.81	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.89	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.89	Rs. Lac
K	% revenue return	(J/A)*100	31.78	%
L	Pay Back Period	100/K	3.15	Years

Revenue Return Sheet -RANAJHALI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	2.80	Rs. Lac
B	Additional load due to load growth		20.42	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	18.38	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	16101.70	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.36	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.36	Rs. Lac
K	% revenue return	(J/A)*100	12.70	%
L	Pay Back Period	100/K	7.87	Years

Revenue Return Sheet -NIMINA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	49.24	Rs. Lac
B	Additional load due to load growth		114.19	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	102.77	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	90030.05	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.99	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	2.13	Rs. Lac
J	Net Revenue Collected	H+I	4.11	Rs. Lac
K	% revenue return	(J/A)*100	8.35	%
L	Pay Back Period	100/K	11.98	Years

Revenue Return Sheet -COLLEGE SQUARE (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	27.12	Rs. Lac
B	Additional load due to load growth		196.67	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	177.00	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	155055.32	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.42	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.04	Rs. Lac
J	Net Revenue Collected	H+I	3.46	Rs. Lac
K	% revenue return	(J/A)*100	12.75	%
L	Pay Back Period	100/K	7.84	Years

Revenue Return Sheet - MUKUNDAPUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	13.96	Rs. Lac
B	Additional load due to load growth		252.50	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	227.25	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	199070.03	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.39	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.05	Rs. Lac
J	Net Revenue Collected	H+I	4.43	Rs. Lac
K	% revenue return	(J/A)*100	31.77	%
L	Pay Back Period	100/K	3.15	Years

Revenue Return Sheet - ANTARBA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	16.76	Rs. Lac
B	Additional load due to load growth		62.28	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	56.06	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	49105.36	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.08	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.27	Rs. Lac
J	Net Revenue Collected	H+I	1.36	Rs. Lac
K	% revenue return	(J/A)*100	8.09	%
L	Pay Back Period	100/K	12.35	Years

Revenue Return Sheet - PITAPANI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	41.43	Rs. Lac
B	Additional load due to load growth		117.33	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	105.60	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	92505.87	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.04	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.05	Rs. Lac
J	Net Revenue Collected	H+I	2.09	Rs. Lac
K	% revenue return	(J/A)*100	5.05	%
L	Pay Back Period	100/K	19.80	Years

Revenue Return Sheet - LUCHAPADA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	29.40	Rs. Lac
B	Additional load due to load growth		165.18	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	148.67	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	130231.62	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.87	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	3.53	Rs. Lac
J	Net Revenue Collected	H+I	6.40	Rs. Lac
K	% revenue return	(J/A)*100	21.76	%
L	Pay Back Period	100/K	4.60	Years

Revenue Return Sheet - NIMAKHANDI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	79.70	Rs. Lac
B	Additional load due to load growth		139.70	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	125.73	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	110138.29	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.43	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	4.83	Rs. Lac
J	Net Revenue Collected	H+I	7.25	Rs. Lac
K	% revenue return	(J/A)*100	9.10	%
L	Pay Back Period	100/K	10.99	Years

Revenue Return Sheet - NIST (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	42.10	Rs. Lac
B	Additional load due to load growth		120.35	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	108.31	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	94882.34	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.09	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	2.09	Rs. Lac
K	% revenue return	(J/A)*100	4.97	%
L	Pay Back Period	100/K	20.12	Years

Revenue Return Sheet - TULU (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	42.10	Rs. Lac
B	Additional load due to load growth		107.75	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	96.98	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	84950.12	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.87	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	7.65	Rs. Lac
J	Net Revenue Collected	H+I	9.52	Rs. Lac
K	% revenue return	(J/A)*100	22.62	%
L	Pay Back Period	100/K	4.42	Years

Revenue Return Sheet - Turudhi (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	19.43	Rs. Lac
B	Additional load due to load growth		199.28	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	179.35	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	157110.34	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.46	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.31	Rs. Lac
J	Net Revenue Collected	H+I	3.77	Rs. Lac
K	% revenue return	(J/A)*100	19.42	%
L	Pay Back Period	100/K	5.15	Years

Revenue Return Sheet -Chatabeda (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	14.76	Rs. Lac
B	Additional load due to load growth		189.06	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	170.16	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	149057.53	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.29	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.73	Rs. Lac
J	Net Revenue Collected	H+I	4.02	Rs. Lac
K	% revenue return	(J/A)*100	27.21	%
L	Pay Back Period	100/K	3.68	Years

Revenue Return Sheet -Gumuda (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	38.85	Rs. Lac
B	Additional load due to load growth		148.18	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	133.36	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	116824.22	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.58	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	9.60	Rs. Lac
J	Net Revenue Collected	H+I	12.18	Rs. Lac
K	% revenue return	(J/A)*100	31.34	%
L	Pay Back Period	100/K	3.19	Years

Revenue Return Sheet - Hatabharandi(Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	13.96	Rs. Lac
B	Additional load due to load growth		195.87	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	176.28	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	154425.31	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	3.41	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.57	Rs. Lac
J	Net Revenue Collected	H+I	3.97	Rs. Lac
K	% revenue return	(J/A)*100	28.44	%
L	Pay Back Period	100/K	3.52	Years

Revenue Return Sheet -Parchipara (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	38.85	Rs. Lac
B	Additional load due to load growth		105.60	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	95.04	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	83255.20	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.84	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.52	Rs. Lac
J	Net Revenue Collected	H+I	3.35	Rs. Lac
K	% revenue return	(J/A)*100	8.63	%
L	Pay Back Period	100/K	11.59	Years

Revenue Return Sheet -Beheda (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	38.85	Rs. Lac
B	Additional load due to load growth		127.73	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	114.96	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	100705.93	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.22	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.47	Rs. Lac
J	Net Revenue Collected	H+I	3.69	Rs. Lac
K	% revenue return	(J/A)*100	9.50	%
L	Pay Back Period	100/K	10.53	Years

Revenue Return Sheet -Burja (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	38.85	Rs. Lac
B	Additional load due to load growth		93.68	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	84.31	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	73854.81	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.63	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.56	Rs. Lac
J	Net Revenue Collected	H+I	3.19	Rs. Lac
K	% revenue return	(J/A)*100	8.20	%
L	Pay Back Period	100/K	12.19	Years

Revenue Return Sheet - BAGHIAPADA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	16.76	Rs. Lac
B	Additional load due to load growth		65.38	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	58.85	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	51549.51	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.14	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.18	Rs. Lac
J	Net Revenue Collected	H+I	1.32	Rs. Lac
K	% revenue return	(J/A)*100	7.86	%
L	Pay Back Period	100/K	12.72	Years

Revenue Return Sheet - BIRANARASING PUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	13.96	Rs. Lac
B	Additional load due to load growth		45.27	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	40.74	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	35688.07	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.

G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.79	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.79	Rs. Lac
K	% revenue return	(J/A)*100	5.64	%
L	Pay Back Period	100/K	17.74	Years

Revenue Return Sheet - Badakhandi (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	7.77	Rs. Lac
B	Additional load due to load growth		30.12	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	27.11	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	23747.53	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.52	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.53	Rs. Lac
K	% revenue return	(J/A)*100	6.76	%
L	Pay Back Period	100/K	14.78	Years

Revenue Return Sheet - Padamanvapur (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	12.43	Rs. Lac
B	Additional load due to load growth		28.44	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	25.60	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	22425.79	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.49	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.93	Rs. Lac
J	Net Revenue Collected	H+I	1.43	Rs. Lac
K	% revenue return	(J/A)*100	11.49	%
L	Pay Back Period	100/K	8.70	Years

Revenue Return Sheet - OLD KORKUNDA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	40.21	Rs. Lac
B	Additional load due to load growth		104.39	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	93.95	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	82301.81	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.81	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.26	Rs. Lac
J	Net Revenue Collected	H+I	2.08	Rs. Lac
K	% revenue return	(J/A)*100	5.16	%
L	Pay Back Period	100/K	19.37	Years

Revenue Return Sheet - MV-7 (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	15.54	Rs. Lac
B	Additional load due to load growth		147.11	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	132.40	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	115984.81	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.56	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.03	Rs. Lac
J	Net Revenue Collected	H+I	2.59	Rs. Lac
K	% revenue return	(J/A)*100	16.68	%
L	Pay Back Period	100/K	6.00	Years

Revenue Return Sheet - MALKANGIRI DNK (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	29.71	Rs. Lac
B	Additional load due to load growth		237.08	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	213.37	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	186914.61	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.12	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	5.07	Rs. Lac

J	Net Revenue Collected	H+I	9.19	Rs. Lac
K	% revenue return	(J/A)*100	30.93	%
L	Pay Back Period	100/K	3.23	Years

Revenue Return Sheet - CHALLANGUDA (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	15.54	Rs. Lac
B	Additional load due to load growth		65.39	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	58.85	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	51551.29	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.14	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.69	Rs. Lac
J	Net Revenue Collected	H+I	1.82	Rs. Lac
K	% revenue return	(J/A)*100	11.73	%
L	Pay Back Period	100/K	8.53	Years

Revenue Return Sheet - TOWN (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	15.54	Rs. Lac
B	Additional load due to load growth		276.46	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	248.82	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	217962.86	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	4.81	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	6.70	Rs. Lac
J	Net Revenue Collected	H+I	11.51	Rs. Lac
K	% revenue return	(J/A)*100	74.05	%
L	Pay Back Period	100/K	1.35	Years

Revenue Return Sheet - AUTO NAGAR TOWN 3 (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	24.76	Rs. Lac
B	Additional load due to load growth		319.00	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	287.10	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	251501.61	kWH
E	Power Purchase cost per unit	-	2.16	Rs.

F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	5.55	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	12.75	Rs. Lac
J	Net Revenue Collected	H+I	18.30	Rs. Lac
K	% revenue return	(J/A)*100	73.90	%
L	Pay Back Period	100/K	1.35	Years

Revenue Return Sheet - JK PUR (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	84.69	Rs. Lac
B	Additional load due to load growth		158.98	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	143.08	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	125336.49	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.76	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	1.47	Rs. Lac
J	Net Revenue Collected	H+I	4.23	Rs. Lac
K	% revenue return	(J/A)*100	5.00	%
L	Pay Back Period	100/K	20.01	Years

Revenue Return Sheet - AUTO NAGAR TOWN 4 (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	4.90	Rs. Lac
B	Additional load due to load growth		407.62	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	366.86	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	321365.56	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	7.09	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.04	Rs. Lac
J	Net Revenue Collected	H+I	7.13	Rs. Lac
K	% revenue return	(J/A)*100	145.44	%
L	Pay Back Period	100/K	0.69	Years

Revenue Return Sheet - DAKULIGUDA 1 (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	14.00	Rs. Lac
B	Additional load due to load growth		50.56	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	45.50	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	39861.58	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	0.88	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	0.88	Rs. Lac
K	% revenue return	(J/A)*100	6.28	%
L	Pay Back Period	100/K	15.92	Years

Revenue Return Sheet - SERIGUDA TOWN 2 (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	24.80	Rs. Lac
B	Additional load due to load growth		68.21	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	61.39	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	53776.93	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.19	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.06	Rs. Lac
J	Net Revenue Collected	H+I	1.24	Rs. Lac
K	% revenue return	(J/A)*100	5.01	%
L	Pay Back Period	100/K	19.94	Years

Revenue Return Sheet - GAMUNDI (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	36.33	Rs. Lac
B	Additional load due to load growth		109.53	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	98.58	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	86355.41	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	1.90	Rs. Lac

I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.00	Rs. Lac
J	Net Revenue Collected	H+I	1.90	Rs. Lac
K	% revenue return	(J/A)*100	5.24	%
L	Pay Back Period	100/K	19.07	Years

Revenue Return Sheet - BHANJANAGAR TOWN (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	125.93	Rs. Lac
B	Additional load due to load growth		357.61	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	321.85	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	281940.57	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	6.22	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.13	Rs. Lac
J	Net Revenue Collected	H+I	6.35	Rs. Lac
K	% revenue return	(J/A)*100	5.04	%
L	Pay Back Period	100/K	19.85	Years

Revenue Return Sheet - BHANJANAGAR COLLAG (Upgradation)				
Sr. No.	**Description**	**Formula**	**Value**	**UoM**
A	Total cost of scheme	-	36.33	Rs. Lac
B	Additional load due to load growth		115.23	kVA
C	Total kW due to load growth	Refer Technical Loss Calculation	103.71	kW
D	Total units consumed yearly (Load x days x Hrs x load factor)	C*365*24*LF	90847.41	kWH
E	Power Purchase cost per unit	-	2.16	Rs.
F	Avg. Power Sale cost per unit	-	4.36	Rs.
G	Diff. (Sale-purchase)	F-E	2.21	Rs.
H	Revenue owing to serving additional load	G*D/(10^5)	2.00	Rs. Lac
I	Revenue owing to tech. loss reduction	Refer Technical Loss Calculation	0.05	Rs. Lac
J	Net Revenue Collected	H+I	2.05	Rs. Lac
K	% revenue return	(J/A)*100	5.65	%
L	Pay Back Period	100/K	17.71	Years

9. Distribution Transformer

A	B	C=(B*5 Yr. Load Growth)	D	E=C*D	F= (E*1000*365*24*LF*(Average Selling Price-Average Purchase Price)	G	H=G/F	I
Plan	**Total Load (in MVA)**	**Additional load due to load growth (in MVA)**	**Power factor**	**Total Load Added (in MW)**	**Benefit on account of Energy Charges from New Loads (in INR)**	**Value(in INR)**	**Pay Back Period of Scheme Years**	**% Rate of Return**
Total 142 DTR's are considered including 73 Nos. of Reuse DT's	11.55	3.45	0.95	3.28	₹ 23,052,939	₹ 98,938,144	**4.29**	23.30

ANNEXURE-10

(Details of cost refernce of material items considered)

DETAILS OF COST REFERENCE OF MATERIAL ITEMS CONSIDERED		
Sl No	**Description of Material Item**	**Cost Reference From**
1	WPB 160x152 (30.44KG/Mtr.),13 mtr- with base plate 300x300x12	TATA POWER ODISHA DISCOM RC
2	WPB 160x152 (30.44KG/Mtr.),11 mtr- with base plate 300x300x12	TATA POWER ODISHA DISCOM RC
3	WPB 160x152 (30.44KG/Mtr.),9 mtr- with base plate 300x300x12	TATA POWER ODISHA DISCOM RC
4	H TYPE POLE 200X75MM (13 MTR)	TATA POWER ODISHA DISCOM RC
5	H TYPE POLE 200X75MM (11 MTR)	TATA POWER ODISHA DISCOM RC
6	10 Mtr 330 Kg PSC Pole	CDB+42% Esca. For 7 Yrs
7	9 mtr long 300 kg PSC pole	CDB+42% Esca. For 7 Yrs
8	8 mtr long 200 kg PSC pole	CDB+42% Esca. For 7 Yrs
9	RCC base Plate	TATA POWER ODISHA DISCOM RC
10	33/11kV , 3.15 MVA Power Transformer	TATA POWER ODISHA DISCOM RC
11	33/11kV , 5MVA Power Transformer	TATA POWER ODISHA DISCOM RC
12	33/11kV , 8 MVA Power Transformer	TATA POWER ODISHA DISCOM RC
13	33/11kV 10 MVA Power Transformer	TATA POWER ODISHA DISCOM RC
14	33/11kV 16 MVA Power Transformer	TATA POWER ODISHA DISCOM RC
15	11/0.4kV 25kVA Distribution Transformer (Al) BIS Level-II	TATA POWER ODISHA DISCOM RC
16	11/0.4kV 63kVA Distribution Transformer (Al) BIS Level-II	TATA POWER ODISHA DISCOM RC
17	11/0.4kV 100kVA Distribution Transformer (Al) BIS Level-II	TATA POWER ODISHA DISCOM RC
18	11/0.4kV 250kVA (Cu) Distribution Transformer BIS Level-II	TATA POWER ODISHA DISCOM RC
19	11/0.4kV 500kVA (Cu) Distribution Transformer BIS Level-II	TATA POWER ODISHA DISCOM RC
20	33/0.4kV 100kVA Distribution Transformer (Cu) BIS Level-II	TATA POWER ODISHA DISCOM RC
21	Transformer Monitoring Unit	TATA POWER ODISHA DISCOM RC
22	GI Tower Structure	TATA POWER ODISHA DISCOM RC
23	Top Channel 100X50X5mm, each channel length 1.2 Mtr	CDB+42% Esca. For 7 Yrs
24	Top Channel 100X50X5mm, each channel length 2.3 Mtr	CDB+42% Esca. For 7 Yrs
25	Top Channel 100X50X5mm, each channel length 2.77 Mtr	CDB+42% Esca. For 7 Yrs
26	Top Channel 100X50X5mm, each channel length 3.0 Mtr	CDB+42% Esca. For 7 Yrs
27	Top Channel 100X50X5mm,each channel length 3.25 Mtr	CDB+42% Esca. For 7 Yrs
28	Top Channel 100X50X5mm, each channel length 4.3 Mtr	CDB+42% Esca. For 7 Yrs
29	Top Pin insulator Mounting Channel 75X40X4.8mm of length 0.3Mtr	CDB+42% Esca. For 7 Yrs
30	Transformer Base Channel 100X50X5mm,each channel length 2.77 Mtr	CDB+42% Esca. For 7 Yrs
31	Transformer Side Belting angle 75X40X4.8mm,each channel length 0.5 Mtr	CDB+42% Esca. For 7 Yrs
32	Double Pole Bracing Channel 75X40X4.8mm,each channel length 1.66 Mtr	CDB+42% Esca. For 7 Yrs
33	Double Pole Bracing Channel 75X40X4.8mm,each channel length 2.0 Mtr	CDB+42% Esca. For 7 Yrs
34	Double Pole Belting Channel 75X40X4.8mm.,each channel length 2.77 Mtr	CDB+42% Esca. For 7 Yrs
35	Double Pole Belting Channel 75X40X4.8mm.,each channel length 3.0 Mtr	CDB+42% Esca. For 7 Yrs
36	Double Pole Belting Channel 75X40X4.8mm., each channel length 4.3 Mtr	CDB+42% Esca. For 7 Yrs
37	50X50X6mm.GI Bracing Angle, each angle length 2.671 Mtr	CDB+42% Esca. For 7 Yrs
38	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.432 mtr.	CDB+42% Esca. For 7 Yrs
39	50X50X6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr.	CDB+42% Esca. For 7 Yrs
40	50X50X6mm.GI Bracing Angle, each angle length 4.927 Mtr	CDB+42% Esca. For 7 Yrs
41	Straight Cross Arm Channel 75X40X4.8mm, each channel length 0.725 Mtr	CDB+42% Esca. For 7 Yrs
42	Straight Cross Arm Channel 100X50X5mm, each channel length 1.2 Mtr	CDB+42% Esca. For 7 Yrs
43	Straight Cross Arm Channel 100X50X5mm, each channel length 1.7 Mtr.	CDB+42% Esca. For 7 Yrs
44	Straight Cross Arm Top Channel 100X50X5mm,each channel length 0.306 Mtr.	CDB+42% Esca. For 7 Yrs
45	Auto-reclosure mounting Channel 100X50X5mm GI channel 2.8 Mtr long	CDB+42% Esca. For 7 Yrs
46	Auto-reclosure mounting Channel 100X50X5mm GI channel 3.0 Mtr long	CDB+42% Esca. For 7 Yrs
47	Sectionalizer mounting Channel 100X50X5mm GI channel 3.0 Mtr long	CDB+42% Esca. For 7 Yrs
48	AB Switch mounting Channel 100X50X5mm GI channel 1.2 Mtr long	CDB+42% Esca. For 7 Yrs
49	AB Switch Mounting Channel 100X50X5mm GI Channel 2.77 Mtr long	CDB+42% Esca. For 7 Yrs
50	AB Switch mounting Channel 100X50X5mm GI channel 3.0 Mtr long	CDB+42% Esca. For 7 Yrs
51	Mounting Channel 100X50X5mm GI channel 4.3 Mtr long	CDB+42% Esca. For 7 Yrs
52	Side Support Channel 100X50X5mm,each channel length 0.35 mtr.	CDB+42% Esca. For 7 Yrs
53	Insulator Support Channel 75X40X4.8mm., each channel length 3.0 Mtr	CDB+42% Esca. For 7 Yrs
54	Insulator Support Channel 75X40X4.8mm., each channel length 4.3 Mtr	CDB+42% Esca. For 7 Yrs
55	Isolator Support Channel 75X40X4.8mm., each channel length 4.3 Mtr	CDB+42% Esca. For 7 Yrs
56	Isolator Operating Down Pipe Support Channel 75X40X4.8mm.,of length 0.8 Mtr	CDB+42% Esca. For 7 Yrs
57	AB Switch Bottom Support Channel 75X40X4.8 mm of length 0.330 Mtr	CDB+42% Esca. For 7 Yrs
58	HG fuse mounting channel 75X40X4.8mm,each channel length 1.2 Mtr	CDB+42% Esca. For 7 Yrs
59	HG Fuse mounting channel 75X40X4.8mm of length 2.77 Mtr	CDB+42% Esca. For 7 Yrs
60	HG Fuse mounting channel 75X40X4.8mm of length 4.3 Mtr	CDB+42% Esca. For 7 Yrs
61	LTDB supporting channel 50X50X6mm of length 2.77 Mtr	CDB+42% Esca. For 7 Yrs
62	Transformer Belting angle 50X50X6mm of length 2.77 Mtr with side angle	CDB+42% Esca. For 7 Yrs
63	Transformer Bottom fixing angle 50X50X6mm,each angle length 0.550 Mtr	CDB+42% Esca. For 7 Yrs
64	Down Pipe Diagonal Support Angle 50X50X6mm, each angle length 0.388 Mtr	CDB+42% Esca. For 7 Yrs

DETAILS OF COST REFERENCE OF MATERIAL ITEMS CONSIDERED		
Sl No	**Description of Material Item**	**Cost Reference From**
65	Down Pipe Base Support Angle 50X50X6mm, each angle length 0.34 Mtr	CDB+42% Esca. For 7 Yrs
66	Isolator Support Side Channel 100X50X5mm, each channel length 0.5 Mtr	CDB+42% Esca. For 7 Yrs
67	Isolator Support Side Channel 100X50X5mm, each channel length 0.35 Mtr	CDB+42% Esca. For 7 Yrs
68	Channel Support for down Pipe 75X40X4.8mm., each channel length 0.750 Mtr	CDB+42% Esca. For 7 Yrs
69	Back clamp for Channel Support for down pipe 50X8mm of length 0.681 mtr	CDB+42% Esca. For 7 Yrs
70	Guarding Cross arm of 75X40X4.8mm GI Channel 3.7 Mtr long	CDB+42% Esca. For 7 Yrs
71	Guarding Cross arm of 75X40X4.8mm GI Channel 2.2 Mtr long	CDB+42% Esca. For 7 Yrs
72	Fish Plate 50X6 mm.,each 0.280 mtr. Length	CDB+42% Esca. For 7 Yrs
73	Fish Plate 50X6 mm.,each 0.300 mtr. Length	CDB+42% Esca. For 7 Yrs
74	Fish Plate 50X6 mm.,each 0.400 mtr. Length	CDB+42% Esca. For 7 Yrs
75	Welded Flat for Insulator Support 50X8mm of length 0.05Mtr	CDB+42% Esca. For 7 Yrs
76	Braking Support Channel for operating pipe 50X8mm of length 0.55 Mtr	CDB+42% Esca. For 7 Yrs
77	Back Clamp for LTDB 50X8 holding angle of length 0.681 Mtr	CDB+42% Esca. For 7 Yrs
78	Support Clamp for Transformer base Channel 50X8 of length 0.561 mtr	CDB+42% Esca. For 7 Yrs
79	Back Clamp for Transformer belting angle of length 0.545 Mtr	CDB+42% Esca. For 7 Yrs
80	LT Cable Supporting Channel(GI) 100X50X6 MM GI Channel(GI) (2000 mm long)	CDB+42% Esca. For 7 Yrs
81	LT Cable Supproting Angle(GI), 50x50x6mm.GI 4.5Kg./mtr., each Angle(GI) length 2 mtr	CDB+42% Esca. For 7 Yrs
82	Cable holding Clamp 50X6 for DT pole	CDB+42% Esca. For 7 Yrs
83	Cable holding Clamp 50X6 for riser pole Type-A	CDB+42% Esca. For 7 Yrs
84	EARTHING PIPE GI 3 MTR 40MM DIA	TATA POWER ODISHA DISCOM RC
85	PIPE HDPE 200 MM DIA PN8 PE 80	TATA POWER ODISHA DISCOM RC
86	PIPE HDPE 160 MM DIA PE80-PN8	TATA POWER ODISHA DISCOM RC
87	PIPE HDPE 110 MM DIA PE80-PN8	TATA POWER ODISHA DISCOM RC
88	Phase Plate (R,Y,B)	TATA POWER ODISHA DISCOM RC
89	Tower Number Plate	TATA POWER ODISHA DISCOM RC
90	Tower Circuit plate	TATA POWER ODISHA DISCOM RC
91	Danger Plate for Tower Structure	TATA POWER ODISHA DISCOM RC
92	Danger Plate, 33kV	CDB+42% Esca. For 7 Yrs
93	Danger Plate, 11kV	CDB+42% Esca. For 7 Yrs
94	BOARD DANGER 400/440 VOLT	CDB+42% Esca. For 7 Yrs
95	Back Clamp (25X3 mm. flat) for danger Plate H-pole	CDB+42% Esca. For 7 Yrs
96	Back Clamp (25X3 mm. flat) for danger Plate WPB pole	CDB+42% Esca. For 7 Yrs
97	Back Clamp (25X3 mm. flat) for danger Plate PSC pole	CDB+42% Esca. For 7 Yrs
98	GI barbed wire(2.50x2.50 mm) anticlimbing device	CDB+42% Esca. For 7 Yrs
99	Anticlimbing device Spike Type	TATA POWER ODISHA DISCOM RC
100	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for H-Pole	CDB+42% Esca. For 7 Yrs
101	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for WPB Pole	CDB+42% Esca. For 7 Yrs
102	Back Clamp (25X3mm. Flat) for Barbed wire anticlimbing device for PSC Pole	CDB+42% Esca. For 7 Yrs
103	Anticlimbing device for Tower (Bracket)	TATA POWER ODISHA DISCOM RC
104	11kV,5kN pin insulator polymer	CDB+42% Esca. For 7 Yrs
105	33kV,10kN pin insulator polymer	CDB+42% Esca. For 7 Yrs
106	33KV Post Insulator	CDB+42% Esca. For 7 Yrs
107	11KV Post Insulator	CDB+42% Esca. For 7 Yrs
108	11kV V cross Arm (GI)-10.5Kg-75x40x4.8	CDB+42% Esca. For 7 Yrs
109	33kV V cross Arm (GI)-20Kg (Approx)-100X50X5	CDB+42% Esca. For 7 Yrs
110	FRP CROSS ARM 1070MM 415V	TATA POWER ODISHA DISCOM RC
111	GI Back Clamp for 33kV 'V' Cros Arm WPB Pole-50X8	CDB+42% Esca. For 7 Yrs
112	GI Back Clamp for 11kV 'V' Cros Arm	CDB+42% Esca. For 7 Yrs
113	GI Back Clamp for 11kV 'V' Cros Arm WPB Pole-50X8	TATA POWER ODISHA DISCOM RC
114	GI Back Clamp for 11kV 'V' Cros Arm PSC Pole-50X8	TATA POWER ODISHA DISCOM RC
115	Top bracket 100X50X5mm GI channel for 33KV	CDB+42% Esca. For 7 Yrs
116	CLAMP F TYPE GI FOR 33KV	CDB+42% Esca. For 7 Yrs
117	CLAMP F TYPE GI FOR 11KV	CDB+42% Esca. For 7 Yrs
118	EYE HOOK CLAMP FOR 8M PSC POLE	TATA POWER ODISHA DISCOM RC
119	EYE HOOK CLAMP FOR 9M PSC POLE	TATA POWER ODISHA DISCOM RC
120	Pole clamp for EYE hook for XLPE Aerial bunched Cable	CDB+42% Esca. For 7 Yrs
121	NFC Suspension Clamp for ABC 25-50 Sqmm	TATA POWER ODISHA DISCOM RC
122	NFC Suspension Clamp for ABC 50-70 Sqmm	TATA POWER ODISHA DISCOM RC
123	NFC Suspension Clamp for ABC 70-95 Sqmm	TATA POWER ODISHA DISCOM RC
124	Flat Eye Hook for AB cable	CDB+42% Esca. For 7 Yrs
125	NFC IPC Type-B-main 16 to 150 sq.mm & Tap-4 to 50 sq.mm	TATA POWER ODISHA DISCOM RC
126	NFC IPC Type-B-main 10 to 95 sq.mm & Tap-1.5 to 10(16) sq.mm	TATA POWER ODISHA DISCOM RC
127	NFC IPC Type-B-main 25 to 150 sq.mm & Tap-25 to 150 sq.mm	TATA POWER ODISHA DISCOM RC

DETAILS OF COST REFERENCE OF MATERIAL ITEMS CONSIDERED		
Sl No	**Description of Material Item**	**Cost Reference From**
128	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(25-35 sq mm)	TATA POWER ODISHA DISCOM RC
129	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(50-70 sq mm)	TATA POWER ODISHA DISCOM RC
130	NFC Conductor Dead End Clamp suitable for bare messenger XLPE Aerial bunched cable(70-95sq mm)	TATA POWER ODISHA DISCOM RC
131	Single Tension H/W	TATA POWER ODISHA DISCOM RC
132	Compression type double tension H/W fittings	TATA POWER ODISHA DISCOM RC
133	Earth wire tension fittings	CDB+42% Esca. For 7 Yrs
134	Tension Clamp for Tower Structure	TATA POWER ODISHA DISCOM RC
135	Disc Insulator Hardware Fittings (70KN) B&S	CDB+42% Esca. For 7 Yrs
136	Disc Insulator Hardware Fittings (90KN) B&S	CDB+42% Esca. For 7 Yrs
137	Disc Insulator Hardware Fittings (120KN) B&S	TATA POWER ODISHA DISCOM RC
138	Tension Assembly Wedge Type with Anchoring Clamp for 33 kV covered conductor	TATA POWER ODISHA DISCOM RC
139	Tension Assembly Wedge Type with Anchoring Clamp for 11 kV covered conductor	TATA POWER ODISHA DISCOM RC
140	11KV Polymeric Disc Insulator 70KN B&S	CDB+42% Esca. For 7 Yrs
141	33KV Polymeric Disc Insulator 90KN B&S	CDB+42% Esca. For 7 Yrs
142	33KV Polymeric Disc Insulator 120KN B&S	TATA POWER ODISHA DISCOM RC
143	Coil Earthing	CDB+42% Esca. For 7 Yrs
144	8 SWG GI wire (4mm)-(Heavy)	CDB+42% Esca. For 7 Yrs
145	10 SWG GI wire(3.15mm)-(Heavy)	TATA POWER ODISHA DISCOM RC
146	CLAMP PG FOR 232 SQMM AAA COND	CDB+42% Esca. For 7 Yrs
147	CLAMP PG FOR 148 SQMM AAA COND	CDB+42% Esca. For 7 Yrs
148	CLAMP PG FOR 100 SQMM AAA COND	CDB+42% Esca. For 7 Yrs
149	CLAMP PG FOR 80 SQMM AAAC	CDB+42% Esca. For 7 Yrs
150	12 bolted (M-12) "T" clamp for 232 mm² conductor	CDB+42% Esca. For 7 Yrs
151	IPC for 33kV 148sqmm Covered Conductor	TATA POWER ODISHA DISCOM RC
152	IPC for 33kV 100sqmm Covered Conductor	TATA POWER ODISHA DISCOM RC
153	IPC for 11KV 100sqmm Covered Conductor	TATA POWER ODISHA DISCOM RC
154	GI Nut , Bolt & Washer of different sizes	CDB+42% Esca. For 7 Yrs
155	POLE CLAMP FOR STAY SET	TATA POWER ODISHA DISCOM RC
156	HT Stay Clamp Type-A for WPB Pole	TATA POWER ODISHA DISCOM RC
157	HT Stay Clamp Type-B for WPB Pole	TATA POWER ODISHA DISCOM RC
158	HT STAY CLAMP TYPE-A(9m PSC 600mm)	CDB+42% Esca. For 7 Yrs
159	HT STAY CLAMP TYPE-B(9m PSC 600mm)	TATA POWER ODISHA DISCOM RC
160	H.T 33kV Stay set (Complete)	CDB+42% Esca. For 7 Yrs
161	H.T 11kV Stay set (Complete)	CDB+42% Esca. For 7 Yrs
162	HT stay (Guy) insulator	CDB+42% Esca. For 7 Yrs
163	7/8 SWG Stay Wire(4mm)-(Heavy)	CDB+42% Esca. For 7 Yrs
164	7/10 SWG Stay Wire(3.15mm)-(Heavy)	CDB+42% Esca. For 7 Yrs
165	LT Stay Set (Complete)	CDB+42% Esca. For 7 Yrs
166	LT Stay (Guy) Insulator	CDB+42% Esca. For 7 Yrs
167	LT STAY CLAMP TYPE-A(9m PSC 1000mm)	CDB+42% Esca. For 7 Yrs
168	LT STAY CLAMP TYPE-B(9m PSC 1000mm)	TATA POWER ODISHA DISCOM RC
169	7/12 SWG Stay Wire(2.5mm)-(Heavy)	CDB+42% Esca. For 7 Yrs
170	Earth wire 7/3.25mm	TATA POWER ODISHA DISCOM RC
171	Vibration damper for earth wire	TATA POWER ODISHA DISCOM RC
172	Vibration damper for Conductor	TATA POWER ODISHA DISCOM RC
173	Flexible Cu. Earth bond	TATA POWER ODISHA DISCOM RC
174	Loop Connector	TATA POWER ODISHA DISCOM RC
175	LA-33KV,10KA-CL-III WITH SURGE COUNTER	TATA POWER ODISHA DISCOM RC
176	LA 9KV 10KA Polymer Distribut class(DH)	TATA POWER ODISHA DISCOM RC
177	LA 33KV 10KA 30KV	TATA POWER ODISHA DISCOM RC
178	11kV 1250 Amp Outdoor VCB	TATA POWER ODISHA DISCOM RC
179	33kV 1250 Amp Outdoor VCB	TATA POWER ODISHA DISCOM RC
180	11KV Oil Cooled CT with CTR (400-200/1-1)A	CDB+42% Esca. For 7 Yrs
181	CT 11KV OIL COOL 800-400-200/1-1-1A, 0.5	TATA POWER ODISHA DISCOM RC
182	CT 33KV 1P OILCOOLED 800-400-200/1-1-1 A	TATA POWER ODISHA DISCOM RC
183	CT 33KV 1P O/D OIL 600-300-150/1-1-1A	TATA POWER ODISHA DISCOM RC
184	33kV CT Structure with foundation Bolt	TATA POWER ODISHA DISCOM RC
185	Indoor CR PANEL FOR Feeder PROTECTION 33KV Outdoor VCB	TATA POWER ODISHA DISCOM RC
186	Indoor CR PANEL FOR Transformer PROTECTION FOR 33KV VCB	TATA POWER ODISHA DISCOM RC
187	Indoor CR PANEL FOR Feeder PROTECTION 11KV Outdoor VCB	TATA POWER ODISHA DISCOM RC
188	SITC of 33 KV feeder CR Panel (Outdoor Type)	TATA POWER ODISHA DISCOM RC

DETAILS OF COST REFERENCE OF MATERIAL ITEMS CONSIDERED		
Sl No	**Description of Material Item**	**Cost Reference From**
189	SITC of 11 KV feeder CR Panel (Outdoor Type)	TATA POWER ODISHA DISCOM RC
190	SITC of Transformer CRP (33Kv) (Outdoor Type)	TATA POWER ODISHA DISCOM RC
191	SITC of Transformer CRP (11Kv) (Outdoor Type)	TATA POWER ODISHA DISCOM RC
192	SITC of 11 kV Bus Coupler CR Panel (Outdoor Type)	TATA POWER ODISHA DISCOM RC
193	11 KV IVT(11 KV/√3/110 V/√3)	TATA POWER ODISHA DISCOM RC
194	PT 33KV O/D OIL FILLED	TATA POWER ODISHA DISCOM RC
195	33 KV PT STRU WITH FOUNDATION BOLT	TATA POWER ODISHA DISCOM RC
196	11 KV PT STRU WITH FOUNDATION BOLT	TATA POWER ODISHA DISCOM RC
197	11KV 630 AMP DBCR ISOLATOR W/O ES	TATA POWER ODISHA DISCOM RC
198	ISOLATOR 11KV 630A DOUBLE BREAK,EARTHS/W	TATA POWER ODISHA DISCOM RC
199	11KV,800 Amp without earth switch with PI(Polymer)	CDB+42% Esca. For 7 Yrs
200	11KV,1250 Amp without earth switch with PI(Polymer)	CDB+42% Esca. For 7 Yrs
201	33KV 1250 Amp DBCR Isolator W E/S	TATA POWER ODISHA DISCOM RC
202	33KV 1250 Amp DBCR Isolator W/O E/S	TATA POWER ODISHA DISCOM RC
203	ISOLATOR 33KV 1250A MOT DOUB BRK W/ES	TATA POWER ODISHA DISCOM RC
204	ISOLATOR 33KV 1250A MOT DOUB BRK W/O ES	TATA POWER ODISHA DISCOM RC
205	Junction Box for CT or PT Structure	TATA POWER ODISHA DISCOM RC
206	Junction Box for 33kV isolator & ES	TATA POWER ODISHA DISCOM RC
207	LT Distribution Box Polycarbonate	TATA POWER ODISHA DISCOM RC
208	LT ACB 400A	TATA POWER ODISHA DISCOM RC
209	LT Distribution Box with MCCB for 25KVA S/S	CDB+42% Esca. For 7 Yrs
210	LT Distribution Box with MCCB for 63KVA S/S	CDB+42% Esca. For 7 Yrs
211	LT Distribution Box with MCCB for 100KVA S/S	CDB+42% Esca. For 7 Yrs
212	LT Distribution Box with MCCB for 250KVA S/S	CDB+42% Esca. For 7 Yrs
213	LT Distribution Box with MCCB for 315KVA S/S	CDB+42% Esca. For 7 Yrs
214	LT Distribution Box with MCCB for 500KVA S/S	CDB+42% Esca. For 7 Yrs
215	33kV AB switch 400A Polymer	CDB+42% Esca. For 7 Yrs
216	11kV AB switch 400A Polymer	CDB+42% Esca. For 7 Yrs
217	11 kV AB switch 200A Polymer	CDB+42% Esca. For 7 Yrs
218	11kV H.G Fuse 400A,3Pole with PI	CDB+42% Esca. For 7 Yrs
219	11kV H.G Fuse 200A,3Pole with PI	CDB+42% Esca. For 7 Yrs
220	11KV SECTIONALIZER	TATA POWER ODISHA DISCOM RC
221	11kV Auto Reclosure	TATA POWER ODISHA DISCOM RC
222	33kV Auto Reclosure	TATA POWER ODISHA DISCOM RC
223	Pre-Wired FRTU Panel with FRTU	TATA POWER ODISHA DISCOM RC
224	Managed Layer2 Ethernet Switch (FRTU Panel)	TATA POWER ODISHA DISCOM RC
225	Networking Accessories	TATA POWER ODISHA DISCOM RC
226	CMR with Mounting Base for Digital Inputs	TATA POWER ODISHA DISCOM RC
227	Interposing Relay for Digital Output	TATA POWER ODISHA DISCOM RC
228	Battery Charger	TATA POWER ODISHA DISCOM RC
229	Battery	TATA POWER ODISHA DISCOM RC
230	4G Modem cum Router	TATA POWER ODISHA DISCOM RC
231	Instrumentation Cable 12 C X 0.5 mm2, Armored cable for Status and Indications	TATA POWER ODISHA DISCOM RC
232	Instrumentation Cable 7 C X 1.5 mm2, Armored for Control Output	TATA POWER ODISHA DISCOM RC
233	Twisted Pair Shielded & Over all shielded Instrumentation Cable 5 P X 1.0 mm2, Armored for Analog Input	TATA POWER ODISHA DISCOM RC
234	4 C X 4 mm2 Copper cable for extension of CT & PT	TATA POWER ODISHA DISCOM RC
235	2 C X 4 mm2 Cable for DC Power Supply	TATA POWER ODISHA DISCOM RC
236	4P X 0.36 mm2, Armored Communication Cable for MFM	TATA POWER ODISHA DISCOM RC
237	Armored CAT6 SFTP Cable	TATA POWER ODISHA DISCOM RC
238	Un-Armored CAT6 SFTP Cable	TATA POWER ODISHA DISCOM RC
239	Multi Function Meter	TATA POWER ODISHA DISCOM RC
240	SECTIONALIZER 33KV	TATA POWER ODISHA DISCOM RC
241	COMMUNICABLE FPI 11KV O/H	TATA POWER ODISHA DISCOM RC
242	DATA CONTROL UNIT FOR 11KV O/H COMM. FPI	TATA POWER ODISHA DISCOM RC
243	COMMUNICABLE FPI 33KV O/H	TATA POWER ODISHA DISCOM RC
244	DATA CONTROL UNIT FOR 33KV O/H COMM. FPI	TATA POWER ODISHA DISCOM RC
245	11KV,4WAY,Motorized,630A,21kA/3 sec, Outdoor Type LLVV (2 ISO+2 BKR) + AUX PT + FRTU	TATA POWER ODISHA DISCOM RC
246	33KV,4WAY,Motorized, 630A,25kA/1sec, Outdoor Type LLVV (2ISO+2 BKR) + AUX PT	TATA POWER ODISHA DISCOM RC
247	261.5 sqmm conductor (ACSR)	TATA POWER ODISHA DISCOM RC

DETAILS OF COST REFERENCE OF MATERIAL ITEMS CONSIDERED		
Sl No	**Description of Material Item**	**Cost Reference From**
248	AAA conductor,232 mm2	CDB+42% Esca. For 7 Yrs
249	AAA conductor,148 mm2	CDB+42% Esca. For 7 Yrs
250	AAA conductor,100 mm2	CDB+42% Esca. For 7 Yrs
251	AAA Conductor- 80 mm2	CDB+42% Esca. For 7 Yrs
252	Conductor 62 mm sq ACSR Rabbit	TATA POWER ODISHA DISCOM RC
253	33kV 148sqmm XLPE Covered Conductor	TATA POWER ODISHA DISCOM RC
254	33kV 100sqmm XLPE Covered Conductor	TATA POWER ODISHA DISCOM RC
255	11kV 100sqmm XLPE Covered Conductor	TATA POWER ODISHA DISCOM RC
256	11kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	TATA POWER ODISHA DISCOM RC
257	11kV AL 1CX1000 Sqmm XLPE Cable armoured-FRLSH	TATA POWER ODISHA DISCOM RC
258	33kV AL 3CX400 Sqmm XLPE Cable armoured-FRLSH	TATA POWER ODISHA DISCOM RC
259	33kV AL 1CX630 Sqmm XLPE Cable armoured-FRLSH	TATA POWER ODISHA DISCOM RC
260	1.1KV LT AB Cable 4x35+1x35+1x16mm2	TATA POWER ODISHA DISCOM RC
261	1.1KV LT AB Cable 4x50+1x50+1x16mm2	TATA POWER ODISHA DISCOM RC
262	1.1KV LT AB Cable 4x95+1x95+1x16mm2	TATA POWER ODISHA DISCOM RC
263	1.1KV LT AB Cable 4x150+1x150+1x16mm2	TATA POWER ODISHA DISCOM RC
264	1.1kV Al 2CX16 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
265	1.1kV Al 4CX25 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
266	1.1kV Al 4CX35 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
267	1.1kV Al 4CX50 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
268	1.1kV Al 4CX95 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
269	1.1kV Al 4CX150 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
270	1.1kV Al 4CX300 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
271	1.1kV Al 1CX50 Sq.mm Cable -FRLSH	TATA POWER ODISHA DISCOM RC
272	1.1kV Al 1CX95 Sq.mm Cable -FRLSH	TATA POWER ODISHA DISCOM RC
273	1.1kV Al 1CX150 Sq.mm Cable -FRLSH	TATA POWER ODISHA DISCOM RC
274	1.1kV Al 1CX300 Sq.mm Cable -FRLSH	TATA POWER ODISHA DISCOM RC
275	1.1kV Al 1CX630 Sq.mm Cable -FRLSH	TATA POWER ODISHA DISCOM RC
276	Gland for 1.1kV Al 2CX16 Sq.mm Double Compression Heavy Duty Ni Plated	TATA POWER ODISHA DISCOM RC
277	Gland for 1.1kV Al 4CX25 Sq.mm Double Compression Heavy Duty Ni Plated	TATA POWER ODISHA DISCOM RC
278	Gland for 1.1kV Al 4CX150 Sq.mm	TATA POWER ODISHA DISCOM RC
279	Gland AL 1CX50 Sq.mm DC Heavy Duty NI PLA	TATA POWER ODISHA DISCOM RC
280	Gland for 1.1kV Al 1CX95 Sq.mm Double Heavy Duty Ni Plated	TATA POWER ODISHA DISCOM RC
281	Gland for 1.1kV Al 1CX150 Sq.mm Double Heavy Duty Ni Plated	TATA POWER ODISHA DISCOM RC
282	Gland for 1.1kV Al 1CX300 Sq.mm Double Compression Heavy Duty Ni Plated	TATA POWER ODISHA DISCOM RC
283	Gland for 1.1kV Al 1CX630 Sq.mm Double Compression Heavy Duty Ni Plated	TATA POWER ODISHA DISCOM RC
284	Lug AL Crimping 25 Sqmm XLPE Single hole	TATA POWER ODISHA DISCOM RC
285	Lug AL Crimping 50 Sqmm XLPE Single hole	TATA POWER ODISHA DISCOM RC
286	Lug AL Crimping 95 Sqmm XLPE Single hole	TATA POWER ODISHA DISCOM RC
287	Lug AL Crimping 150 Sqmm XLPE Single hole	TATA POWER ODISHA DISCOM RC
288	Lug AL Crimping 300 Sqmm XLPE Single hole	TATA POWER ODISHA DISCOM RC
289	Lug AL Crimping 630 Sqmm XLPE Single hole	TATA POWER ODISHA DISCOM RC
290	LED STREET LIGHT 120W	TATA POWER ODISHA DISCOM RC
291	Battery Charger 24V 80A with DCDB	TATA POWER ODISHA DISCOM RC
292	ACDB,400A with CT 400/5A 15VA, Cl-0.5S	TATA POWER ODISHA DISCOM RC
293	48V, 100AH, VRLA Battery,(4NosX12V)	TATA POWER ODISHA DISCOM RC
294	MIDSPAN JOINT 33KV COVERED CONDUCTOR 148SQMM	TATA POWER ODISHA DISCOM RC
295	MIDSPAN JOINT 33KV COVERED CONDUCTOR 100SQMM	TATA POWER ODISHA DISCOM RC
296	MIDSPAN JT FOR 100 SQ.MM INSL. AAAC-11KV	TATA POWER ODISHA DISCOM RC
297	33KV 148 SQMM Covered Conductor JT. Kit End Termination	TATA POWER ODISHA DISCOM RC
298	JT KIT END TERM. For 33KV 100 SQMM Covered Conductor	TATA POWER ODISHA DISCOM RC
299	JT KIT END TERM for 11KV 100 Sqmm Covered Conductor	TATA POWER ODISHA DISCOM RC
300	JT. KIT ST.TH.1.1KV XLPE 4X300 HS	TATA POWER ODISHA DISCOM RC
301	JT. KIT O/D 1.1KV XLPE 4X300 SQ.MM HS	TATA POWER ODISHA DISCOM RC
302	JT. KIT O/D 1.1KV XLPE 4X150 SQ.MM HS	TATA POWER ODISHA DISCOM RC
303	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(outdoor type)	CDB+42% Esca. For 7 Yrs
304	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(Straight type)	CDB+42% Esca. For 7 Yrs
305	Heat shrinkable jointing kit for 3Cx400 mm² 11KV XLPE Cable(indoor type)	CDB+42% Esca. For 7 Yrs
306	Heat shrinkable jointing kit for 3Cx300mm² 11KV XLPE Cable(outdoor type)	CDB+42% Esca. For 7 Yrs
307	Heat shrinkable jointing kit for 3Cx300 mm² 11KV XLPE Cable(Straight type)	CDB+42% Esca. For 7 Yrs
308	Heat shrinkable jointing kit for 3Cx300mm² 11KV XLPE Cable(indoor type)	CDB+42% Esca. For 7 Yrs
309	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(outdoor type)	CDB+42% Esca. For 7 Yrs
310	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(Straight type)	CDB+42% Esca. For 7 Yrs
311	Heat shrinkable jointing kit for 3Cx400 mm² 33KV XLPE Cable(Indoor type)	CDB+42% Esca. For 7 Yrs

DETAILS OF COST REFERENCE OF MATERIAL ITEMS CONSIDERED		
Sl No	**Description of Material Item**	**Cost Reference From**
312	JT Kit 33KV I/D 3CX400SQMM SCREEN TYPE TOUCH PROF	TATA POWER ODISHA DISCOM RC
313	Heat shrinkable jointing kit for 1Cx630 mm² 33KV XLPE Cable(Outdoor type)	TATA POWER ODISHA DISCOM RC
314	Heat shrinkable jointing kit for 1Cx630 mm² 33KV XLPE Cable(Straight type)	TATA POWER ODISHA DISCOM RC
315	TIE INSULATED HELICAL F/33KV INSL. COND.	TATA POWER ODISHA DISCOM RC
316	TIE INSULATED HELICAL F/11KV INSL. COND.	TATA POWER ODISHA DISCOM RC
317	Eye Bolt	TATA POWER ODISHA DISCOM RC
318	GI Flat 75X10 mm(5.89kg/mtr)	TATA POWER ODISHA DISCOM RC
319	GI Flat 50X6 mm(2.36kg/mtr)	CDB+42% Esca. For 7 Yrs
320	GI Flat 25X6 mm(1.18kg/mtr)	CDB+42% Esca. For 7 Yrs
321	GI Flat 25X3 mm(0.589kg/mtr)	TATA POWER ODISHA DISCOM RC
322	CABLE TRAY(LADDER) 450MM*100MM*20MM GI	TATA POWER ODISHA DISCOM RC
323	1.1KV PVC insulated, FRLSH type, ARMRD, CU CONTROL CABLE-1CX16SQMM	TATA POWER ODISHA DISCOM RC
324	1.1KV PVC insulated, FRLSH type, ARMRD, CU CONTROL CABLE-2Cx2.5SQMM.	TATA POWER ODISHA DISCOM RC
325	1.1KV PVC insulated, FRLSH type, ARMRD, CU CONTROL CABLE-2CX4 SQMM	TATA POWER ODISHA DISCOM RC
326	4 Core x 2.5 mm2 -FRLSH	CDB+42% Esca. For 7 Yrs
327	7 Core x 2.5 mm2 -FRLSH	CDB+42% Esca. For 7 Yrs
328	10 Core x 2.5 mm2 -FRLSH	CDB+42% Esca. For 7 Yrs
329	12 Core x 2.5 mm2 -FRLSH	TATA POWER ODISHA DISCOM RC
330	16 Core x 2.5 mm2	TATA POWER ODISHA DISCOM RC
331	1.1kV Al 2CX4 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
332	1.1kV Al 2CX10 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
333	1.1kV Al 4CX10 Sq.mm Round Armoured Cable -FRLSH	TATA POWER ODISHA DISCOM RC
334	CONTROL CABLE 4Cx16 mm2 YWY-FRLSH	TATA POWER ODISHA DISCOM RC
335	1.1KV Control Cable,2C×50SQMM,PVC CU Ins	TATA POWER ODISHA DISCOM RC
336	Cap cable end for ABC 35SQMM	TATA POWER ODISHA DISCOM RC
337	Cap cable end for ABC 50SQMM	TATA POWER ODISHA DISCOM RC
338	Cap cable end for ABC 95SQMM	TATA POWER ODISHA DISCOM RC
339	STEEL STRAP SIZE 20 MMX50 M LONG	TATA POWER ODISHA DISCOM RC
340	BUCKLES FOR STEEL STRAP (1 EA = 100 NOS)	TATA POWER ODISHA DISCOM RC
341	Tie Plastic Black size 7.6mmX380mm	TATA POWER ODISHA DISCOM RC
342	Tie Plastic size 9mmX265mm	TATA POWER ODISHA DISCOM RC
343	Black Paint	CDB+42% Esca. For 7 Yrs
344	Yellow Colour Paint for Background	TATA POWER ODISHA DISCOM RC
345	Concreting of poles in ratio 1:1.5:3 for 13MTR POLE	TATA POWER ODISHA DISCOM RC
346	Couping of poles in ratio 1:1.5:3 for 13MTR POLE	TATA POWER ODISHA DISCOM RC
347	Concreting of poles in ratio 1:1.5:3 for 11MTR POLE	TATA POWER ODISHA DISCOM RC
348	Couping of poles in ratio 1:1.5:3 for for 11MTR POLE	TATA POWER ODISHA DISCOM RC
349	Concreting of poles in ratio 1:1.5:3 for 10MTR POLE	TATA POWER ODISHA DISCOM RC
350	Couping of poles in ratio 1:1.5:3 for 10MTR POLE	TATA POWER ODISHA DISCOM RC
351	Concreting of poles in ratio 1:1.5:3 for 9MTR WPB POLE	TATA POWER ODISHA DISCOM RC
352	Couping of poles in ratio 1:1.5:3 for 9MTR WPB POLE	TATA POWER ODISHA DISCOM RC
353	Concreting of poles in ratio 1:1.5:3 for 9MTR PSC POLE	TATA POWER ODISHA DISCOM RC
354	Couping of poles in ratio 1:1.5:3 for 9MTR PSC POLE	TATA POWER ODISHA DISCOM RC
355	Concreting of poles in ratio 1:1.5:3 for 8MTR PSC POLE	TATA POWER ODISHA DISCOM RC
356	Couping of poles in ratio 1:1.5:3 for 8MTR PSC POLE	TATA POWER ODISHA DISCOM RC
357	Concreting of poles in ratio 1:1.5:3 for 5MTR POLE	TATA POWER ODISHA DISCOM RC
358	Couping of poles in ratio 1:1.5:3 for 5MTR POLE	TATA POWER ODISHA DISCOM RC
359	Stay concreting in ratio 1:2:4	TATA POWER ODISHA DISCOM RC
360	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per specification including supply of material	TATA POWER ODISHA DISCOM RC
361	Sand Work	TATA POWER ODISHA DISCOM RC
362	Laying PCC M20	TATA POWER ODISHA DISCOM RC
363	Reinforce RCCwork includ straight etc.	TATA POWER ODISHA DISCOM RC
364	12 mm Cement Plaster of mix -1.6 mm	TATA POWER ODISHA DISCOM RC
365	Backfilling with same earth	TATA POWER ODISHA DISCOM RC
366	Survey and digitization of New PTR/BAY/CB and its internals including attrubutes	TATA POWER ODISHA DISCOM RC
367	Survey and digitization of New DSS and its internals including attrubutes	TATA POWER ODISHA DISCOM RC
368	Survey and digitization of New MCCB/LTDB and its internals including attrubutes	TATA POWER ODISHA DISCOM RC
369	Dismantling of RSJ/ WPB pole(150x150mm/R	TATA POWER ODISHA DISCOM RC
370	Dismantling of RSJ/WPB pole(116x100mm)	TATA POWER ODISHA DISCOM RC
371	Dismantling of PSC pole (9mtr)& return	TATA POWER ODISHA DISCOM RC
372	Dismantling of 11KV 'V' Cross arm & retu	TATA POWER ODISHA DISCOM RC
373	Dismantling of 11KV GI pin with insulato	TATA POWER ODISHA DISCOM RC
374	Dismantling of 11KV Disc insulator with	TATA POWER ODISHA DISCOM RC

DETAILS OF COST REFERENCE OF MATERIAL ITEMS CONSIDERED		
Sl No	**Description of Material Item**	**Cost Reference From**
375	Dismantling of MS Channel& Return store	TATA POWER ODISHA DISCOM RC
376	Dismantl of 80/100mm2 AAA Conductor&retu	TATA POWER ODISHA DISCOM RC
377	Dismant of 34/55mm2 AAA Conductor& retu	TATA POWER ODISHA DISCOM RC
378	Dismantling and restringing- 100SQmm	TATA POWER ODISHA DISCOM RC
379	Dismantling of LT ABC Cable with accesso	TATA POWER ODISHA DISCOM RC
380	LAY CBL PWR XLPE 11KV TREN/PIPE	TATA POWER ODISHA DISCOM RC
381	LAY CBL PWR XLPE 11KV TOW/TRAY/Pole	TATA POWER ODISHA DISCOM RC
382	Constr of TRF Plinth for upto 500KVA	TATA POWER ODISHA DISCOM RC
383	Civil cost. for mak. plinth 630-1000KVA	TATA POWER ODISHA DISCOM RC
384	Const Plinth L.T. DB BOX for 250-500KVA	TATA POWER ODISHA DISCOM RC
385	Const of plinth for LT ACB 400-800A	TATA POWER ODISHA DISCOM RC
386	Construct of Boundary wall Fencing(inRM)	TATA POWER ODISHA DISCOM RC
387	Chain Link Fence	TATA POWER ODISHA DISCOM RC
388	Construction of FRP fencing	TATA POWER ODISHA DISCOM RC
389	Construction of RMU foundation O/D	TATA POWER ODISHA DISCOM RC
390	LAY CBL XLPE 33KV TREN/PIPE	TATA POWER ODISHA DISCOM RC
391	LAY CBL PWR XLPE 33KV TOW/TRAY	TATA POWER ODISHA DISCOM RC
392	LAY 1C CBL PVC/XLPE440V/1.1KVTRENCH/PIPE	TATA POWER ODISHA DISCOM RC
393	LAY 1C CBL PVC/XLPE440V/1.1KV TOWER/POLE	TATA POWER ODISHA DISCOM RC
394	Laying of HDPE from size 110mm to 200mm	TATA POWER ODISHA DISCOM RC
395	Supply and Install of cable Route marker	TATA POWER ODISHA DISCOM RC
396	Detail GPS Survey of 33KV/11kv/1.1 Kv	TATA POWER ODISHA DISCOM RC
397	Detail GPS and GPR Survey	TATA POWER ODISHA DISCOM RC
398	Trenchless Duct UPTO 200mm dia	TATA POWER ODISHA DISCOM RC
399	SITC of OFC-24 F in joint chamber/loop	TATA POWER ODISHA DISCOM RC
400	BREAKING OF ASPHALT	TATA POWER ODISHA DISCOM RC
401	GIS Mapping, indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing as per requirement.%_1	TATA POWER ODISHA DISCOM RC
402	GIS coordinate mapping, drawing preparation and submission of the same for DTR,ABS,AR	TATA POWER ODISHA DISCOM RC
403	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line%_1	TATA POWER ODISHA DISCOM RC
404	Statutory Charges	TATA POWER ODISHA DISCOM RC
405	Road Restoration (Bituminous portion) . Cutting road and making good the same including supply of extra quantities of materials i.e. stone aggregate, moorum screening, red bajri, bitumen and labour required.	TATA POWER ODISHA DISCOM RC
406	BA will provide necessary Tools, Machinary, Manpower for laying of 1.1KV 4C/1C/2C XLPE Cable (16sqmm to 630Sqmm) in Trench / HDPE Pipe/ Hum pipe .%_1	TATA POWER ODISHA DISCOM RC
407	Demolish/removal of debris of PCC	TATA POWER ODISHA DISCOM RC
408	Dismantling of PTR upto 5MVA	TATA POWER ODISHA DISCOM RC
409	Dismantling of PTR Above 5 to12.5MVA	TATA POWER ODISHA DISCOM RC
410	Transport through Tractor upto 40KM	TATA POWER ODISHA DISCOM RC
411	Transport through Truck upto 70KM	TATA POWER ODISHA DISCOM RC
412	Transport thru Tractor perKM beyond 40KM	TATA POWER ODISHA DISCOM RC
413	Transport thru Trailer perKM beyond 70KM	TATA POWER ODISHA DISCOM RC
414	Transport thru Tempo per KM beyond 70 KM	TATA POWER ODISHA DISCOM RC
415	Transport thruTATA 407epr KM beyond 70Km	TATA POWER ODISHA DISCOM RC
416	Construction of Baffle Wall	TATA POWER ODISHA DISCOM RC
417	Construction of Oil Sump Pit for Power Transformer	TATA POWER ODISHA DISCOM RC
418	Construction of Foundation for Power Transformer 5MVA	TATA POWER ODISHA DISCOM RC
419	Construction of Foundation for Power Transformer 8MVA	TATA POWER ODISHA DISCOM RC
420	Construction of Foundation for Power Transformer 12.5/16MVA	TATA POWER ODISHA DISCOM RC
421	Gravel spreading over Bay/GSS/other	TATA POWER ODISHA DISCOM RC
422	Laying of cable trench with supply of GI Cable Trench material & all Civil works	TATA POWER ODISHA DISCOM RC
423	BrickWork-FPS brick-class 75Cmortar 1:6	TATA POWER ODISHA DISCOM RC
424	ITC 12.5/16MVATRF ,50MtrTransport Manual	TATA POWER ODISHA DISCOM RC
425	ITC for 10MVA PTR with NIFPS	TATA POWER ODISHA DISCOM RC
426	ITC 5/8MVATRF ,50MtrTransport Manual	TATA POWER ODISHA DISCOM RC
427	Prov40 TonFaranaService marchig upto50KM	TATA POWER ODISHA DISCOM RC
428	Prov90 TonFaranaService marchig upto50KM	TATA POWER ODISHA DISCOM RC
429	Prov 120 Ton Farana s- upto 50 KM	TATA POWER ODISHA DISCOM RC
430	Prov 200 Ton farana- upto 50 KM	TATA POWER ODISHA DISCOM RC
431	Marching of Farrana/Crane beyond 50 KM	TATA POWER ODISHA DISCOM RC
432	Dismantling of 16KVA Dist TRF	TATA POWER ODISHA DISCOM RC

DETAILS OF COST REFERENCE OF MATERIAL ITEMS CONSIDERED		
Sl No	**Description of Material Item**	**Cost Reference From**
433	Dismantling of 25KVA Dist TRF	TATA POWER ODISHA DISCOM RC
434	Dismantling of 63KVA Dist TRF	TATA POWER ODISHA DISCOM RC
435	Dismantling of 100KVA Dist TRF	TATA POWER ODISHA DISCOM RC
436	Dismantling of 250KVA Dist TRF	TATA POWER ODISHA DISCOM RC
437	Dismantling of Dist TRF 250KVA- 500KVA	TATA POWER ODISHA DISCOM RC
438	Dismantling of Dist TRF 500-1000KVA	TATA POWER ODISHA DISCOM RC
439	Dismantling /Removal from single pole	TATA POWER ODISHA DISCOM RC
440	Dis. of faulty equipment CB, etc.	TATA POWER ODISHA DISCOM RC
441	Dismantl of GO/AB Switch/istr (11 /33KV)	TATA POWER ODISHA DISCOM RC
442	ITCof 25KVA, 11/0.433KV DT	TATA POWER ODISHA DISCOM RC
443	ITC of 63KVA, 11/0.433KV DT	TATA POWER ODISHA DISCOM RC
444	ITC of 100KVA, 11/0.433KV DT	TATA POWER ODISHA DISCOM RC
445	ITC of 250KVA, 11/0.433V DT	TATA POWER ODISHA DISCOM RC
446	ITC of 500KVA, 11/0.433V DT	TATA POWER ODISHA DISCOM RC
447	ITC 500KVA-1000KVA 11/0.433V DT	TATA POWER ODISHA DISCOM RC
448	ITC of Out Door33KVVCB on exist struct	TATA POWER ODISHA DISCOM RC
449	ITC of CR PANEL Feeder on existing str	TATA POWER ODISHA DISCOM RC
450	ITC CR PANEL Transformer on exist str	TATA POWER ODISHA DISCOM RC
451	Erection of NBLS Tower Super Structure including tighting,punching & with transporttation etc.%_1	TATA POWER ODISHA DISCOM RC
452	Erection of PC + 6 Tower Super Structure including tighting,punching & with transporttation etc.%_1	TATA POWER ODISHA DISCOM RC
453	Erection of UR + 6 Tower Super Structure including tighting,punching & with transporttation etc.%_1	TATA POWER ODISHA DISCOM RC
454	Soil investigation Tower/River Crossing	TATA POWER ODISHA DISCOM RC
455	Survey of plotting, spotting and marking	TATA POWER ODISHA DISCOM RC
456	SITC of Anticlimbing device for Tower	TATA POWER ODISHA DISCOM RC
457	SITC of Tower Plate Number	TATA POWER ODISHA DISCOM RC
458	SITC of Tower Circuit plate	TATA POWER ODISHA DISCOM RC
459	SITC of phase plate (R,Y and B)	TATA POWER ODISHA DISCOM RC
460	SITC of Copper Earth bond	TATA POWER ODISHA DISCOM RC
461	SITC of Earth wire (Size 7/3.25mm)	TATA POWER ODISHA DISCOM RC
462	String -Tower 261/232/200 sqmm AAAC/ACSR	TATA POWER ODISHA DISCOM RC
463	SITC of Vibration Damper	TATA POWER ODISHA DISCOM RC
464	SITC of Vibration Damper for earth wire	TATA POWER ODISHA DISCOM RC
465	SITC of poly carbonated Bird gurad	TATA POWER ODISHA DISCOM RC
466	Earth Work-excluding hard roack	TATA POWER ODISHA DISCOM RC
467	Earth Work-hard roack	TATA POWER ODISHA DISCOM RC
468	PCC 1:3:6	TATA POWER ODISHA DISCOM RC
469	Laying PCC M15	TATA POWER ODISHA DISCOM RC
470	RCC M20 (Foundation & Plinth)	TATA POWER ODISHA DISCOM RC
471	SITC of T Connect-for moose to zebraCond	TATA POWER ODISHA DISCOM RC
472	SITC of T ConnectFor wolf to pantherCond	TATA POWER ODISHA DISCOM RC
473	SITC-Pad clmp25m stud CT/PT/PTR/ISTR	TATA POWER ODISHA DISCOM RC
474	SITC-Padclm upto19mmstud/CT/PT/PTR/ISLTR	TATA POWER ODISHA DISCOM RC
475	SITC of CU Flat 50X6	TATA POWER ODISHA DISCOM RC
476	SITC of Deep Bore Earthing	TATA POWER ODISHA DISCOM RC
477	SITC of HYSD Bar	TATA POWER ODISHA DISCOM RC
478	BA will supply & lay B Class 150mm GI pipe(SAIL/TATA/JINDAL/RANL).BA will provide necessary Tools,Machinery & Manpower for the activity.%_1	TATA POWER ODISHA DISCOM RC
479	Dewatering pump bet 5HP / 10 HP shift	TATA POWER ODISHA DISCOM RC
480	Centring and shuttering incl. strut	TATA POWER ODISHA DISCOM RC
481	Provid matls / Shoring up to 2.5M	TATA POWER ODISHA DISCOM RC
482	Transportation (Head-Loading)	TATA POWER ODISHA DISCOM RC
483	Boring with Steel Liner Casing	TATA POWER ODISHA DISCOM RC
484	Red colour LDPE warning tape	TATA POWER ODISHA DISCOM RC
485	OPENCAST (FOR DOUBLE CIRCUIT TOWER)M-20	TATA POWER ODISHA DISCOM RC
486	Fixing of Mid Span Compression Joints s	TATA POWER ODISHA DISCOM RC
487	SITC of SS S/Y & C/R Lighting	TATA POWER ODISHA DISCOM RC

ANNEXURE-11

(Location)

Capex Head	Activity of Location	LOCATION SL NO.
STATUTORY & SAFETY	33 KV CRADLE GUARD	1
	11KV CRADLE GUARD	2
	DSS FENCING	3
	SWITCHYARD DEVELOPMENT AT PSS	4
	33 KV INTERMEDIATE POLE	5
	11 KV INTERMEDIATE POLE	6
	LT INTERMEDIATE POLE	7
LOSS REDUCTION	POLYCARBONATE BOX	8
	LT BARE TO AB CABLE	9
NETWORK RELIABILITY	PSS REFURBISHMENT	10
	LOCATION OF BATTERY REQUIREMENT AT PSS	11
	LOCATION OF RELAY REQUIREMENT AT PSS	12
	LOCATION OF EARTHING REQUIREMENT AT PSS	13
	33KV NEW LINE	14
	11 KV NEW LINE	15
	33 KV UPGRADATION	16
	11 KV CONDUCTOR UPGRADATION	17
	33 KV COVER CONDUCTOR	18
	11 KV COVER CONDUCTOR	19
	33 KV AB SWITCH	20
	33 KV ISOLATOR	21
	11KV AB SWITCH	22
	33 KV & 11 KV UG Cable	23
	33 KV AUTO RECLOSER	24
	11 KV AUTO RECLOSER	25
	33KV FPI	26
	11KV FPI	27
	DSS REFURBISHMENT	28
	LV PROTECTION	29
	RIVER CROSSING	30
LOAD GROWTH	PTR NEW-AUGMENTATION	31
	DT AUGMENTATION	32
	NEW DT	33
	UPGRADATION OF LT ABC FEEDER	34

Sl No.Location : 1

LOCATION FOR 33KV CRADLE GUARDING

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	VOLTAGE LEVEL	NAME OF FEEDER	QUANTITY
1	ASKA	AED-II	33KV	33KV- K. S. NAGAR	1
2	ASKA	AED-II	33KV	33KV- BUGUDA	1
3	ASKA	AED-II	33KV	33KV- K. S. NAGAR	1
4	ASKA	AED-II	33KV	33KV- BUDHAMBA	1
5	ASKA	AED-II	33KV	33KV- PAIKAJAMUNA	1
6	CITY	BED-II	33KV	BERHAMPUR 2	1
7	CITY	BED-II	33KV	BERHAMPUR 2	1
8	RAYAGADA	GED	33KV	33KV GUNUPUR LINE	1
9	RAYAGADA	GED	33KV	33KV BIKRAMPUR LINE	1
10	RAYAGADA	GED	33KV	33KV KHANDWA LINE	1
11	BHANJANAGAR	BNED	33KV	33 KV BELLAGUNTHA	1
12	BHANJANAGAR	BNED	33KV	33 KV BD PUR	1
13	BHANJANAGAR	BNED	33KV	33 KV J N PRASAD	1
14	ASKA	AED-I	33KV	SORODA	1
15	ASKA	AED-I	33KV	KHARIGUMA	1
16	CITY	BED-1	33KV	MKCG EXPRESS	1
17	CITY	BED-1	33KV	KANIS - GOOD SHED	1
18	JEYPORE	NED	33KV	BEHEDA TO RAIGHAR	1
19	CITY	BED-II	33KV	33KV BERHAMPUR-2	1
20	CITY	BED-II	33KV	33KV BERHAMPUR-2	1
21	CITY	BED-II	33KV	33KV BERHAMPUR-2	1
22	CITY	BED-II	33KV	33KV BERHAMPUR-2	1
23	RAYAGADA	PKED	33KV	33KV I/C FEEDER PARALAKHEMUNDI RURAL	1
24	RAYAGADA	PKED	33KV	33KV I/C FEEDER PARALAKHEMUNDI URBAN	1
25	RAYAGADA	RED	33KV	MUNIGUDA	1
26	RAYAGADA	RED	33KV	HATADAHIKHAL	1
27	RAYAGADA	RED	33KV	AMBADOLA	1
28	RAYAGADA	RED	33KV	DANGASARODA	1
29	RAYAGADA	RED	33KV	BISSAMCUTTACK-1	1
30	RAYAGADA	RED	33KV	BISSAMCUTTACK-2	1
31	RAYAGADA	RED	33KV	KUMARDHAMUNI	1
32	RAYAGADA	RED	33KV	KUMARDHAMUNI	1
33	RAYAGADA	RED	33KV	KUMARDHAMUNI	1
34	RAYAGADA	PKED	33KV	PARALAKHEMUNDI	1
35	RAYAGADA	PKED	33KV	BADAPADA	1
36	ASKA	AED-I	33KV	ASKA	1
37	ASKA	AED-I	33KV	NUAGAM (FROM ASKA OLD GSS)	1
38	ASKA	AED-I	33KV	HATIOTTA	1
39	ASKA	AED-I	33KV	HATIOTTA	1
40	ASKA	AED-I	33KV	BALISIRA	1
41	ASKA	AED-I	33KV	BALISIRA	1
42	ASKA	AED-I	33KV	BALISIRA	1
43	BHANJANAGAR	PED	33KV	KALINGA	1
44	BHANJANAGAR	PED	33KV	TIKABALI	1
45	BHANJANAGAR	PED	33KV	CHAKAPAD	1
46	JEYPORE	MED	33KV	BADILI	1
47	JEYPORE	MED	33KV	MV-79	1
48	JEYPORE	MED	33KV	PODIA	1
49	JEYPORE	MED	33KV	GOMPHAKONDA	1
50	JEYPORE	JED	33KV	KOTPAD	1
51	CITY	BED-II	33KV	BAM-1	1
52	BERHAMPUR	GNED	33KV	BADAMADHAPUR	1
53	BERHAMPUR	GNED	33KV	BAULAGAON	1
54	BERHAMPUR	GNED	33KV	CHATRAPUR	1
55	BERHAMPUR	GNED	33KV	TISCO	1
56	BERHAMPUR	GNED	33KV	33KV KHALLIKOTE	1
57	BERHAMPUR	GNED	33KV	33KV KHALLIKOTE	1
58	BERHAMPUR	GNED	33KV	33KV KESHPUR	1
59	BERHAMPUR	GNED	33KV	33KV KESHPUR	1
60	BERHAMPUR	GNED	33KV	KESHPUR	1
61	BERHAMPUR	GNED	33KV	MALUDA	1

LOCATION FOR 33KV CRADLE GUARDING

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	VOLTAGE LEVEL	NAME OF FEEDER	QUANTITY
62	BERHAMPUR	GNED	33KV	MALUDA	1
63	BERHAMPUR	GNED	33KV	TITIPA	1
64	BERHAMPUR	GNED	33KV	33 KV RAMBHA	1
65	ASKA	GSED	33KV	NUAPADA	1
66	BERHAMPUR	PSED	33KV	33 KV KHALIKOTE-BEGUNIAPADA	1
67	BERHAMPUR	PSED	33KV	BEGUNIAPADA-SUMANDALA LINE	1
68	BERHAMPUR	PSED	33KV	KODALA LINK LINE	1
69	BERHAMPUR	PSED	33KV	KODALA LINK LINE	1
70	BERHAMPUR	PSED	33KV	BUDHAMBA	1
71	BERHAMPUR	PSED	33KV	LINK LINE BEGUNIAPADA	1
72	JEYPORE	MED	33KV	33 KV K.GUMMA O/G	1
73	JEYPORE	MED	33KV	33 KV K.GUMMA O/G (RING MAIN)	1
74	JEYPORE	MED	33KV	33 KV CHITRAKONDA O/G	1
75	JEYPORE	MED	33KV	33 KV GOVINPALLY O/G	1

Location Sl No. 2

LOCATION FOR 11KV CRADLE GUARDING

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	FEEDER NAME	VOLTAGE LEVEL (33KV/11KV/LT)	TYPE OF POLE REQUIREMENT (MTR)	QUANTITY IN NOS.
1	ASKA	AED-I	SHERAGADA	11KV	13	1
2	ASKA	AED-I	MUKUNDAPUR	11KV	11	1
3	ASKA	AED-I	MUKUNDAPUR	11KV	11	1
4	ASKA	AED-I	MUKUNDAPUR	11KV	11	1
5	ASKA	AED-I	MUKUNDAPUR	11KV	11	1
6	ASKA	AED-I	MUKUNDAPUR	11KV	11	1
7	ASKA	AED-I	MUKUNDAPUR	11KV	13	1
8	ASKA	AED-I	MUKUNDAPUR	11KV	11	1
9	ASKA	AED-I	MUKUNDAPUR	11KV	11	1
10	ASKA	AED-I	MUKUNDAPUR	11KV	11	1
11	BERHAMPUR	GNED	SANTOSHPUR	11KV	11	1
12	BERHAMPUR	GNED	SANTOSHPUR	11KV	11	1
13	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
14	BERHAMPUR	GNED	SANTOSHPUR	11KV	11	1
15	BERHAMPUR	GNED	SANTOSHPUR	11KV	11	1
16	BERHAMPUR	GNED	SANTOSHPUR	11KV	11	1
17	BERHAMPUR	GNED	SANTOSHPUR	11KV	11	1
18	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
19	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
20	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
21	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
22	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
23	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
24	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
25	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
26	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
27	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
28	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
29	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
30	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
31	BERHAMPUR	GNED	KHANDADEULI	11KV	11	1
32	BERHAMPUR	GNED	KHANDADEULI MEDICAL	11KV	11	1
33	BERHAMPUR	GNED	NUAPALI	11KV	11	1
34	BERHAMPUR	GNED	PALLUR	11KV	11	1
35	BERHAMPUR	GNED	ABRA	11KV	11	1
36	BERHAMPUR	GNED	ABRA	11KV	11	1
37	BERHAMPUR	GNED	ABRA	11KV	11	1
38	BERHAMPUR	GNED	ABRA	11KV	11	1
39	BERHAMPUR	GNED	ABRA	11KV	11	1
40	BERHAMPUR	GNED	ABRA	11KV	11	1
41	BERHAMPUR	GNED	ABRA	11KV	11	1
42	BERHAMPUR	GNED	ABRA	11KV	11	1
43	BERHAMPUR	GNED	ABRA	11KV	11	1
44	BERHAMPUR	GNED	ABRA	11KV	11	1
45	BERHAMPUR	GNED	ABRA	11KV	11	1
46	BERHAMPUR	GNED	ABRA	11KV	11	1
47	BERHAMPUR	GNED	ABRA	11KV	11	1
48	BERHAMPUR	GNED	ABRA	11KV	11	1
49	BERHAMPUR	GNED	ABRA	11KV	11	1
50	BERHAMPUR	GNED	ABRA	11KV	11	1
51	BERHAMPUR	GNED	ABRA	11KV	11	1
52	BERHAMPUR	GNED	ABRA	11KV	11	1
53	BERHAMPUR	GNED	ABRA	11KV	11	1
54	BERHAMPUR	GNED	ABRA	11KV	11	1
55	BERHAMPUR	GNED	ABRA	11KV	11	1
56	BERHAMPUR	GNED	ABRA	11KV	11	1

LOCATION FOR 11KV CRADLE GUARDING

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	FEEDER NAME	VOLTAGE LEVEL (33KV/11KV/LT)	TYPE OF POLE REQUIREMENT (MTR)	QUANTITY IN NOS.
57	BERHAMPUR	GNED	ABRA	11KV	11	1
58	BERHAMPUR	GNED	ABRA	11KV	11	1
59	BERHAMPUR	GNED	ABRA	11KV	11	1
60	BERHAMPUR	GNED	ABRA	11KV	11	1
61	BERHAMPUR	GNED	ABRA	11KV	11	1
62	BERHAMPUR	GNED	ABRA	11KV	11	1
63	BERHAMPUR	GNED	ABRA	11KV	11	1
64	BERHAMPUR	GNED	ABRA	11KV	11	1
65	BERHAMPUR	GNED	ABRA	11KV	11	1
66	BERHAMPUR	GNED	ABRA	11KV	11	1
67	BERHAMPUR	GNED	ABRA	11KV	11	1
68	BERHAMPUR	GNED	ABRA	11KV	11	1
69	BERHAMPUR	GNED	ABRA	11KV	11	1
70	BERHAMPUR	GNED	PALLUR	11KV	11	1
71	BERHAMPUR	GNED	PALLUR	11KV	11	1
72	BERHAMPUR	GNED	PALLUR	11KV	11	1
73	BERHAMPUR	GNED	PALLUR	11KV	11	1
74	BERHAMPUR	GNED	PALLUR	11KV	11	1
75	BHANJANAGAR	BOED	BAGHIAPADA	11 KV	13	1

Location Sl No. 3

LOCATION OF DSS FENCING

S.no	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OFSECTION	DSS LOCATION NAME	DT RATING IN KVA
1	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	WOMEN'S COLLEGE	100KVA
2	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	OLD GUNUPUR	25KVA
3	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	IN FRONT GPS SCHOOL	250KVA
4	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	BEBARTA FARM OIL MILL	100KVA
5	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	IN FRONT OF CHURCH	100KVA
6	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	GIRLS HIGH SCHOOL	2*100KVA
7	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	BRAHMMIN SAHI	100KVA
8	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	JAIL PETA	100KVA
9	Rayagada	GED	GUNUPUR	GUNUPUR TOWN	TRENDS SHOWROOM	2*100KVA
10	Rayagada	GED	GUNUPUR	GUNUPUR RURAL	PUTTASING BUS STAND	100KVA
11	Rayagada	GED	GUMUDA	GUDARI	BAINAGUDA	63KVA
12	Rayagada	GED	GUMUDA	GUDARI	DHEPAGUDA	100KVA
13	Rayagada	GED	GUMUDA	GUDARI	DHEPAGUDA	63KVA
14	Rayagada	GED	GUMUDA	PADMAPUR	DIBRISINGH	63KVA
15	Rayagada	GED	GUMUDA	PADMAPUR	CHALKHAMBA	100KVA
16	Rayagada	GED	GUMUDA	PADMAPUR	JEERA	100KVA
17	Rayagada	GED	GUMUDA	GUMUDA	KHALO GUMUDA	100KVA
18	Rayagada	GED	GUMUDA	GUMUDA	BHALERI	100KVA
19	Rayagada	GED	GUMUDA	GUMUDA	MUTYALAMMA MODERN RICE MILL	100KVA
20	Rayagada	GED	GUMUDA	GUMUDA	SANA KUJENDRI HIGH SCHOOL	100KVA
21	Rayagada	RED	BISSAMCUTTACK	BCTC	CHANCHADAGUDA CLUSTER COLONY	63KVA
22	Rayagada	RED	BISSAMCUTTACK	BCTC	CHANCHADAGUDA JAIL	63KVA
23	Rayagada	RED	BISSAMCUTTACK	BCTC	DSS NO-5	100KVA
24	Rayagada	RED	BISSAMCUTTACK	BCTC	SKILL DEVELOPMENT CENTRE	63KVA
25	Rayagada	RED	BISSAMCUTTACK	MUNIGUDA	MERING	63KVA
26	Rayagada	RED	BISSAMCUTTACK	MUNIGUDA	JAGDALPUR GOUDASAHI	63KVA
27	Rayagada	RED	BISSAMCUTTACK	MUNIGUDA	STATION DAIKHAL	100KVA
28	Rayagada	RED	BISSAMCUTTACK	MUNIGUDA	SARDHAPUR	63KVA
29	Rayagada	RED	RAYAGADA	JK PUR	RAMA RICE MILL	100 KVA
30	Rayagada	RED	RAYAGADA	JK PUR	BHAKURGUDA CHOWK	63 KVA
31	Rayagada	RED	RAYAGADA	JK PUR	BHATIPADA	250 KVA
32	Rayagada	RED	RAYAGADA	JK PUR	KOLONARA	250 KVA
33	Rayagada	RED	RAYAGADA	JK PUR	ASHRAM SCHOOL PENTA	25 KVA
34	Rayagada	RED	RAYAGADA	RAYAGADA SEC-1	BRAHMIN STREET	250 KVA
35	Rayagada	RED	RAYAGADA	RAYAGADA SEC-1	MMG TEMPLE PUJARI STREET	100 KVA
36	Rayagada	RED	RAYAGADA	RAYAGADA SEC-1	KAMINI TEMPLE	250 KVA
37	Rayagada	RED	RAYAGADA	RAYAGADA SEC-1	NEAR BUSTAND OFFICE	315 KVA
38	Rayagada	RED	RAYAGADA	RAYAGADA SEC-1	ROHIT COLONY 10th LANE	250 KVA
39	Rayagada	RED	RAYAGADA	RAYAGADA SEC-1	ROHIT COLONY SIVA TEMPLE	100 KVA
40	Rayagada	RED	RAYAGADA	RAYAGADA RURAL	KODESU	63 KVA
41	Rayagada	PKED	MOHANA	ADAVA	BRAHMANIGAON	100 KVA+63 KVA
42	Rayagada	PKED	MOHANA	ADAVA	BRAHMANIGAON	100 KVA
43	Rayagada	PKED	MOHANA	ADAVA	DAMADUA	63 KVA
44	Rayagada	PKED	MOHANA	MOHANA	FOREST OFFICE	100 KVA
45	Rayagada	PKED	MOHANA	MOHANA	PETROL PUMP MOHANA	100 KVA
46	Rayagada	PKED	MOHANA	CHANDRAGIRI	OLD SBI,MAHENDRAGADA	250 KVA
47	Rayagada	PKED	MOHANA	CHANDRAGIRI	NEAR CHURCH,CHANDIPUT	100 KVA
48	Rayagada	PKED	MOHANA	CHANDRAGIRI	POLABANDHA	25 KVA
49	Rayagada	PKED	KASINAGAR	KASINAGAR	KHURIGAON	250 KVA
50	Rayagada	PKED	KASINAGAR	KASINAGAR	B.JAYPUR	100 KVA
51	CITY	BED-2	SDO-1	ASKA ROAD	MAYUR MAJESTIC	500
52	CITY	BED-2	SDO-3	G.NUAGAM-2	N K NAGAR MOSANI	500
53	CITY	BED-2	SDO-1	GATE BAZAR	BIJU PATNAIK PARK IPDS -1	500
54	CITY	BED-2	SDO-1	GATE BAZAR	BIJU PATNAIK PARK IPDS-2	500
55	CITY	BED-2	SDO-1	GATE BAZAR	SOMANATH NAGAR MAIN ROAD	500
56	CITY	BED-2	SDO-1	OLD BERHAMPUR	AINA BANDHA SAHI	500
57	CITY	BED-2	SDO-1	OLD BERHAMPUR	UTTARAMUKHI RAY PROJECT	500
58	CITY	BED-2	SDO-1	GATE BAZAR	JURIA SAHOO MILL IPDS	315
59	CITY	BED-2	SDO-1	ASKA ROAD	VEGETABLE MARKET	250
60	CITY	BED-2	SDO-1	ASKA ROAD	CHANDAN BIHAR	100
61	CITY	BED-2	SDO-3	GANDHINAGAR	BHUBANESWARI RESIDENCY	100
62	CITY	BED-2	SDO-3	GANDHINAGAR	PREM NAGAR MAIN ROAD	100
63	CITY	BED-2	SDO-1	OLD BERHAMPUR	ADAMJEE STREET BADA BAZAR	100
64	CITY	BED-2	SDO-1	OLD BERHAMPUR	BAURI SUKUNDA	100
65	CITY	BED-2	SDO-1	OLD BERHAMPUR	SUKUNDA CHHAK	100
66	CITY	BED-2	SDO-3	G.NUAGAM-2	SPECTRUM COLONY PHD	63
67	CITY	BED-3	KANISI	KANISI	TULU MAIN ROAD KANISI	500

LOCATION OF DSS FENCING

S.no	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OFSECTION	DSS LOCATION NAME	DT RATING IN KVA
68	CITY	BED-3	KANISI	GOLANTHARA	CHIKARADA ROAD	250
69	CITY	BED-3	KANISI	GOLANTHARA	PALURU VILLAGE 1	250
70	CITY	BED-3	KANISI	KANISI	DUMDUMI VILLAGE	250
71	CITY	BED-3	KANISI	KANISI	MARKANDI THAKURANI TEMPLE	250
72	CITY	BED-3	KANISI	JAGAPUR	BADA SAHI GIRISOLA	500
73	CITY	BED-3	KANISI	JAGAPUR	A SONPUR VILLAGE	100
74	CITY	BED-3	SDO-4	KUKUDAKHANDI	MASIAKHALI VILLAGE	250
75	CITY	BED-3	SDO-4	LUCHAPADA	ADISAKTI NAGAR	250
76	CITY	BED-3	SDO-4	LUCHAPADA	SHAKTI NAGAR 2 ND LN	250
77	CITY	BED-3	SDO-4	KUKUDAKHANDI	ANKUSHPUR MAIN ROAD	200
78	CITY	BED-3	SDO-4	LATHI	AMBAGADA CHAWK 3	100
79	CITY	BED-3	SDO-4	LATHI	BENDALIA BRAMHAN SAHI	100
80	CITY	BED-1	INDUSTRIAL	CITY HOSPITAL	BERHAMPUR STADIUM 1	500
81	CITY	BED-1	SDO-2	MEDICAL	BHABINIPUR	400
82	CITY	BED-1	SDO-2	MEDICAL	BAGHDEVI	315
83	CITY	BED-1	SDO-2	AMBAPUA	RAMAKRUSHNANAGAR	315
84	CITY	BED-1	INDUSTRIAL	CITY HOSPITAL	GANDHI NAGAR-KALKI MANDIRA	250
85	CITY	BED-1	INDUSTRIAL	LANJIPALLI	HILLPATNA-3RD LN EXTN	100
86	CITY	BED-1	INDUSTRIAL	LANJIPALLI	VIJAYA TOWER-1	100
87	CITY	BED-1	GOPALPUR	GOPALPUR	BASANAPUTTY VILLAGE	100
88	CITY	BED-1	GOPALPUR	HEAD QUARTER	BADAPUR	100
89	CITY	BED-1	GOPALPUR	HEAD QUARTER	SINDHIGAON RK TEMPLE	100
90	Berhampur	GNED	CHATRAPUR	CHATRAPUR-I	ORT FEEDER- TARAI PATAPUR NEAR GAS OFFIC	100
91	Berhampur	GNED	CHATRAPUR	CHATRAPUR-I	PORT FEEDER- BHAGYALAXMINAGAR 1ST LINE	63
92	Berhampur	GNED	CHATRAPUR	CHATRAPUR-I	BHAGYALAXMI NAGAR 3RD LINE	63
93	Berhampur	GNED	CHATRAPUR	CHATRAPUR-I	HAGYALAXMI NAGAR NEAR CASHEW FACTOR	100
94	Berhampur	GNED	RAMBHA	MALUD	BUDHIBAR	250
95	Berhampur	GNED	RAMBHA	MALUD	MORADA	100
96	Berhampur	GNED	RAMBHA	MALUD	BADANALA	100
97	Berhampur	GNED	KHALIKOTE	KHALIKOTE	SHYAMASUNDARPUR ODIYA STREET	100
98	Berhampur	GNED	KHALIKOTE	KHALIKOTE	SHYAMASUNDARPUR NEAR SCHOOL	100
99	Berhampur	GNED	KHALIKOTE	KHALIKOTE	BALUKESWAR	100
100	Berhampur	GNED	KHALIKOTE	KESHPUR	BIKRAMPUR	100
101	Berhampur	GNED	KHALIKOTE	KESHPUR	BIKRAMPUR NEAR SCHOOL	100
102	BERHAMPUR	PSED	POLASARA	POLASARA	KALAMBA SHANTI NAGAR	63 KVA
103	BERHAMPUR	PSED	POLASARA	POLASARA	RUKHAKANA	63 KVA
104	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	KHAIRACHATTA	63 KVA
105	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	GAREIJHULI	63 KVA
106	BERHAMPUR	PSED	KODALA	BEGUNIUAPADA	GOPALPUR	100 KVA
107	BERHAMPUR	PSED	KODALA	BEGUNIUAPADA	SALABANA SCHOOL	63 KVA
108	BERHAMPUR	PSED	KODALA	KODALA	JAIL	63 KVA
109	BERHAMPUR	PSED	KODALA	KODALA	LACHHIPUR	100 KVA
110	BERHAMPUR	PSED	PURUSOTTAMPUR	TARATARINI	ANGU	100+63 KVA
111	BERHAMPUR	PSED	PURUSOTTAMPUR	PURUSOTTAMPUR	KUMARI	500 KVA
112	BERHAMPUR	PSED	PURUSOTTAMPUR	PURUSOTTAMPUR	KUMARI	250 KVA
113	BERHAMPUR	PSED	PURUSOTTAMPUR	PURUSOTTAMPUR	JALESWARAKHANDI TEMPLE	100 KVA
114	BERHAMPUR	HED	SHERAGADA	SHERAGADA	RAMAKRUSHNAPUR	100KVA
115	BERHAMPUR	HED	SHERAGADA	SHERAGADA	CASAMAHULI	100KVA
116	BERHAMPUR	HED	SHERAGADA	KANKARADA	ALARIGADA NEAR SCHOOL	100KVA
117	BERHAMPUR	HED	SHERAGADA	KANKARADA	GOVINDAPUR	150KVA
118	BERHAMPUR	HED	SHERAGADA	KANKARADA	DENGAPADAR	100KVA
119	BERHAMPUR	HED	SHERAGADA	PATTAPUR	D.AMBATHA	100KVA
120	BERHAMPUR	HED	SHERAGADA	PATTAPUR	D.AMBATHA	100KVA
121	BERHAMPUR	HED	HINJILI	HINJILI	RAJA SAHI	315+100KVA
122	BERHAMPUR	HED	HINJILI	HINJILI	MANIKANAGAR	250KVA
123	BERHAMPUR	HED	HINJILI	PITALA	RAMCHANDRAPUR	250KVA
124	BERHAMPUR	HED	HINJILI	KANCHURU	B.P NPUR	250KVA
125	Jeypore	NED	UMERKOTE	UMERKOTE	DHODRA ROAD SIDE	100 KVA
126	Jeypore	NED	UMERKOTE	UMERKOTE	DHODRA MACHA MARKET	100 KVA
127	Jeypore	NED	UMERKOTE	UMERKOTE	SANA BHARANDI PANI TANKI	100 KVA
128	Jeypore	NED	UMERKOTE	RAIGHAR	ITI	100 KVA
129	Jeypore	NED	UMERKOTE	RAIGHAR	GANJNAPARA	100 KVA
130	Jeypore	NED	UMERKOTE	RAIGHAR	DHARAMVEER	100 KVA
131	Jeypore	NED	UMERKOTE	RAIGHAR	KUMBHAPARA	100 KVA
132	Jeypore	NED	Nabrangpur	Nabrangpur	WOMEN'S COLLEGE	500 KVA
133	Jeypore	KED	Koraput	Koraput No-1	CHAPPER ROAD-UMURI	250 KVA
134	Jeypore	KED	Koraput	Koraput No-1	CHAPPER ROAD	63 KVA
135	Jeypore	KED	Koraput	Koraput No-1	Ambedkar College	100 KVA

LOCATION OF DSS FENCING

S.no	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OFSECTION	DSS LOCATION NAME	DT RATING IN KVA
136	Jeypore	KED	Koraput	Koraput No-2	MEGHRAJ	250 KVA
137	Jeypore	KED	Koraput	Koraput No-2	Lankaput	63 KVA
138	Jeypore	KED	Laxmipur	Bandhugaon	Nilabadi	100 KVA
139	Jeypore	KED	Laxmipur	Bandhugaon	Nilabadi Padia	100 KVA
140	Jeypore	KED	Laxmipur	Bandhugaon	Palkonda Sahi	100 KVA
141	Jeypore	KED	Laxmipur	Bandhugaon	Harijan Sahi	100 KVA
142	Jeypore	KED	Laxmipur	Laxmipur	Laxmipur Section	100 KVA
143	Jeypore	KED	Laxmipur	Kakriguma	Killar	100 KVA
144	Jeypore	KED	Laxmipur	Kakriguma	Nua sahi Dasmantpur	100 KVA
145	Jeypore	KED	Laxmipur	Kakriguma	Mujang	100 KVA
146	JEYPORE	KED	SUNABEDA	SUNABEDA	DRIVER COLONY	100 KVA
147	JEYPORE	KED	SUNABEDA	SUNABEDA	SANTINAGAR	100 KVA
148	JEYPORE	KED	SUNABEDA	SUNABEDA	GANJAM COLONY	500 KVA
149	JEYPORE	KED	SUNABEDA	SIMILIGUDA	MATHALPUT PANCHAYAT OFFICE	100 KVA
150	JEYPORE	KED	SUNABEDA	SIMILIGUDA	KALHANDI COLONY	100 KVA
151	Jeypore	JED	Jeypore Sub div-2	Section no-1	Town Hall	315 KVA
152	Jeypore	JED	Jeypore Sub div-2	Section no-1	OLD LIC	250 KVA
153	Jeypore	JED	Jeypore Sub div-1	Section no-3	Toshniwal	250 KVA
154	Jeypore	JED	Jeypore Sub div-1	Section no-3	Hatapada	500 KVA
155	Jeypore	JED	Jeypore Sub div-1	Baipariguda	Kenduguda	100 KVA
156	Jeypore	JED	Jeypore Sub div-1	Baipariguda	Brhamanguda	100 KVA
157	Jeypore	JED	Jeypore Sub div-2	Kundra	Sagarguda	100 KVA
158	Jeypore	JED	Jeypore Sub div-2	Kundra	Sastri Maidan	100 KVA
159	Jeypore	JED	Jeypore Sub div-2	Randapalli	BJ2	2100 KVA
160	Jeypore	JED	Jeypore Sub div-2	Randapalli	Umuri	100 KVA
161	Jeypore	JED	Boriguma	Boriguma	Niranjan Nagar	100 KVA
162	Jeypore	JED	Boriguma	Boriguma	Mill Sahi	250 KVA
163	Jeypore	JED	Boriguma	Kotpad	Gandhi Chaka	100 KVA
164	Jeypore	JED	Boriguma	Kotpad	Kunjapada	250 KVA
165	Jeypore	MED	Malkangiri	Balimela	Near Balimela Chowk	100 KVA
166	Jeypore	MED	Malkangiri	Balimela	Ambedakar Chowk	100 KVA
167	Jeypore	MED	Malkangiri	Balimela	SDPO Office	100 KVA
168	Jeypore	MED	Malkangiri	Mathili Town	Mathili Medical	100 KVA
169	Jeypore	MED	Malkangiri	Mathili Town	Mathili Block	100 KVA
170	Jeypore	MED	Malkangiri	MALKANGIRI	MV-17	100 KVA
171	Jeypore	MED	Malkangiri	MALKANGIRI	DRDA COLONY	100 KVA
172	Jeypore	MED	Malkangiri	MALKANGIRI	PANDIRIPANI MEDICAL	100 KVA
173	Jeypore	MED	Malkangiri	KALIMELA	MPV-81	63 KVA
174	Jeypore	MED	Malkangiri	KALIMELA	MV-72	63 KVA
175	Jeypore	MED	Malkangiri	KALIMELA	MV-72	63 KVA
176	Bhanjanagar	BNED	Belaguntha	Bellaguntha	BANKA	100KVA
177	Bhanjanagar	BNED	Belaguntha	Bellaguntha	KUSHAPALI	100KVA
178	Bhanjanagar	BNED	Belaguntha	J N PRASAD	Jirabadi 100 KVA	100KVA
179	Bhanjanagar	BNED	Belaguntha	Bellaguntha	CHILDREN PARK	100KVA
180	Bhanjanagar	BNED	Soroda	Soroda	KALI MANDIRA	100KVA
181	Bhanjanagar	BNED	Soroda	Soroda	BADAGOCHA HARIJAN SAHI	100KVA
182	Bhanjanagar	BNED	Soroda	Soroda	DABIKI	100KVA
183	Bhanjanagar	BNED	Soroda	Soroda	UPPER DANTILINGI	100KVA
184	Bhanjanagar	BNED	Soroda	Soroda	BHAGABANPUR	63+100KVA
185	Bhanjanagar	BNED	Soroda	BADAGADA	JAGANNATH TEMPLE	100 KVA
186	Bhanjanagar	BNED	Soroda	BADAGADA	NUAGANA	63 KVA
187	Bhanjanagar	BNED	Soroda	BADAGADA	PADAMPUR	100 KVA
188	Bhanjanagar	BNED	Soroda	BADAGADA	SURAKHYADEPUR	100 KVA
189	Bhanjanagar	Boudh	Manamunda	Baunsuni	CHHATRANGA KANDHASAHI	63 KVA
190	Bhanjanagar	Boudh	Manamunda	Baunsuni	TIKIRASAHI	63 KVA
191	Bhanjanagar	Boudh	Manamunda	Baunsuni	SANKULE	63*2 KVA
192	Bhanjanagar	Boudh	Manamunda	Manamunda	BHEJIGORA	63 KVA
193	Bhanjanagar	Boudh	Manamunda	Manamunda	DANGAPADA	63 KVA
194	Bhanjanagar	Boudh	Manamunda	Manamunda	BADHIGAON	100 KVA
195	Bhanjanagar	Boudh	Manamunda	Manamunda	BAGHIAPADA	100 KVA
196	Bhanjanagar	Boudh	Boudh	Purunakatak	OLANDA	63 KVA
197	Bhanjanagar	Boudh	Boudh	Purunakatak	DEULI HARIJANPADA	63 KVA
198	Bhanjanagar	Boudh	Manamunda	Manamunda	BASUDBAPALI	250 KVA
199	Bhanjanagar	Boudh	Boudh	Boudh	JOGINDERPUR	63 KVA
200	Bhanjanagar	Boudh	Boudh	Boudh	GUDAVELIPADAR	63 KVA
201	Bhanjanagar	PHULBANI	BALIGUDA	BALIGUDA	KATARIBHATA	25 KVA
202	Bhanjanagar	PHULBANI	BALIGUDA	BALIGUDA	SUDRA	16 KVA
203	Bhanjanagar	PHULBANI	BALIGUDA	BALIGUDA	NUAGAON HIGH SCHOOL FRONT	63 KVA
204	Bhanjanagar	PHULBANI	BALIGUDA	BALIGUDA	SIRTIGUDA	25 KVA

LOCATION OF DSS FENCING

S.no	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OFSECTION	DSS LOCATION NAME	DT RATING IN KVA
205	Bhanjanagar	PHULBANI	BALIGUDA	DARINGIBADI	PANGALI	25 KVA
206	Bhanjanagar	PHULBANI	BALIGUDA	DARINGIBADI	TARABADI	25 KVA
207	Bhanjanagar	PHULBANI	BALIGUDA	DARINGIBADI	DANDIMAHA	63 KVA
208	Bhanjanagar	PHULBANI	G.UDAYAGIRI	G.UDAYAGIRI	RUDANGIA	63 KVA
209	Bhanjanagar	PHULBANI	G.UDAYAGIRI	G.UDAYAGIRI	GRESSINGIA CHHAKA	100 KVA
210	Bhanjanagar	PHULBANI	G.UDAYAGIRI	G.UDAYAGIRI	GADAGUDA	63 KVA
211	Bhanjanagar	PHULBANI	G.UDAYAGIRI	TIKABALI	CHHATIJHAR	63 KVA
212	Bhanjanagar	PHULBANI	G.UDAYAGIRI	TIKABALI	CHAKAPADA	100 KVA
213	Bhanjanagar	PHULBANI	PHULBANI	PHIRINGIA	GOCHHAPADA	63 KVA
214	Aska	AED-II	K.S.Nagar	**K.S.Nagar**	**BOLOSARA 100**	100 KVA
215	Aska	AED-II	K.S.Nagar	**K.S.Nagar**	**BALIAPALI 100**	100KVA
216	Aska	AED-II	K.S.Nagar	**K.S.Nagar**	**SAMANTARAPALLI**	100KVA
217	Aska	AED-II	K.S.Nagar	**K.S.Nagar**	**BHETASINGI**	100KVA
218	Aska	AED-II	K.S.Nagar	**K.S.Nagar**	**PANKALABADI**	100KVA
219	Aska	AED-II	K.S.Nagar	**K.S.Nagar**	**KANIARI 100KVA**	100KVA
220	Aska	AED-II	**K.S.Nagar**	**Budhamba**	**GAUDABANDHA,BADAAGULA**	100KVA
221	Aska	AED-II	**Buguda**	**Buguda**	**NAGUDU-2 100KVA**	100KVA
222	Aska	AED-II	**Buguda**	**Balipadar**	**DASIPUR-1**	100KVA
223	Aska	AED-II	**Buguda**	**Balipadar**	**KALAMBA-1**	100KVA
224	Aska	GSED	CHIKITI	CHIKITI	RAJAPALLI	63KVA
225	Aska	GSED	CHIKITI	CHIKITI	ANNUPURNA BIHAR	500KVA
226	Aska	GSED	CHIKITI	CHIKITI	CHILLADI	100KVA
227	Aska	GSED	CHIKITI	SURANGI	TANDIPUR NUASAHI	63KVA
228	Aska	GSED	CHIKITI	SURANGI	HUKAMA	63KVA
229	Aska	GSED	CHIKITI	NUAPADA	BALRAMPUR TEMPLE	100KVA
230	Aska	GSED	CHIKITI	NUAPADA	PUHUNDI DSS	63KVA
231	Aska	GSED	CHIKITI	PATRAPUR	SABARDIPETA	100KVA
232	Aska	GSED	CHIKITI	PATRAPUR	PATRAPUR DSS	100KVA
233	Aska	GSED	GSED	PUDAMARI	TAPTAPANI	100KVA
234	Aska	GSED	GSED	DIGAPAHANDI	SOUCHAL	500KVA
235	Aska	GSED	GSED	DIGAPAHANDI	BLN PUR	200KVA
236	Aska	GSED	GSED	BOMKEI	SINDHUKHALI	100KVA
237	Aska	AED-I	Aska	Dharakote	Nandigore near School	100KVA
238	Aska	AED-I	Aska	Dharakote	Bhaliapalli	100KVA
239	Aska	AED-I	Aska	Dharakote	Badula School	100KVA
240	Aska	AED-I	Nuagam	Nuagam-I	Montapada	250KVA
241	Aska	AED-I	Nuagam	Nuagam-I	Sandhinuapalli	100KVA
242	Aska	AED-I	Nuagam	Nuagam-I	Bajrakote	100KVA
243	Aska	AED-I	Aska	Balisira	Jagannath Palli	100KVA
244	Aska	AED-I	Aska	Balisira	Kesarapalli	63KVA
245	Aska	AED-I	Aska	Balisira	Chatula	63KVA
246	Aska	AED-I	Nuagam	Nuagam-II	Kendupadar	63KVA
247	Aska	AED-I	Nuagam	Nuagam-II	Kendupadar	100KVA
248	Aska	AED-I	Nuagam	Nuagam-II	Mahachai	100KVA
249	Aska	AED-I	Aska	Aska	New Bus Stand	100KVA
250	Aska	AED-I	Aska	Aska	Lachhman Palli	315KVA

Location Sl No. 4

LOCATION OF SWITCHYARD DEVELOPMENT

Sr. no.	NAME OF CIRCLE	DIVISION	PSS NAME
1	CITY	BED-I	BHANJABIHAR
2	BERHAMPUR	GNED	KHALLIKOTE
3	BERHAMPUR	GNED	MALUD
4	BERHAMPUR	PSED	BEGUNIPADA
5	BERHAMPUR	PSED	PANDIA
6	BHANJANAGAR	BOED	BOUDH
7	BHANJANAGAR	BOED	CHARICHAKA
8	BHANJANAGAR	PED	KHAJURIPADA
9	BHANJANAGAR	PED	PHIRINGIA
10	BHANJANAGAR	PED	TIKABALI
11	JEYPORE	JED	RANDAPALLI
12	JEYPORE	KED	ANALA BADI
13	JEYPORE	KED	BILEIGUDA/SEMILIGUDA
14	JEYPORE	NED	RAIGHAR
15	JEYPORE	NED	UMERKOTE
16	RAYAGADA	PKED	KHANDVA
17	RAYAGADA	PKED	RAIGADA
18	RAYAGADA	RED RAYAGADA	MUNIGUDA
19	RAYAGADA	RED RAYAGADA	THERUBALI
20	RAYAGADA	GED GUNUPUR	BIKRAMPUR

Location Sl No. 5

LOCATION OF 33KV INTERMEDIATE POLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	33 KV FEEDER NAME	FROM(GIS LOCATION)	TO(GIS LOCATION)	TYPE OF INTERMEDIATE POLE REQUIRED(RSJ/RAIL/PSC/WPB)	HEIGHT OF INTERMEDIATE POLE REQUIRED	NO. OF INTERMEDIATE POLES REQ.
1	BHANJANAGAR	BNED	BELLAGUNTHA	JN PRASAD	BELLAGUNTHA PSS	J N PRASAD PSS	WPB	11MTR	6
2	RAYAGADA	GED	GUMUDA	33KV GUMUDA	ANKUSING GRID	GUMUDA PSS	WPB	11MTR	6
3	ASKA	GSED	CHIKITI	JARADA	JILUNDA	JARADA PSS	WPB	11MTR	2
4	ASKA	GSED	CHIKITI	CHIKITI (DIGAPAHANDI)	DEHKALI	CHIKITI PSS	WPB	11MTR	4
5	JEYPORE	JED	JESD-1	NO-1	TOWN	TOWN	WPB	11MTR	3
6	JEYPORE	JED	JESD-1	NO-2	TOWN	TOWN	WPB	11MTR	3
7	BERHAMPUR	GNED	CHATRAPUR	TISCO	CHATRAPUR GSS	TATA SEZ	WPB	13MTR	6
8	JEYPORE	KED	KORAPUT	KOLAB	OLD KORAPUT PSS	KOLAB PSS	WPB	11MTR	6
9	JEYPORE	MED	KALIMELA	KALIMELA	MALKANGIRI PSS	NEAR BODILI PSS	WPB	13MTR	6
10	JEYPORE	NED	NABARANGPUR	PAPADAHANDI FROM NPUR GSS	PAPADAHANDI FROM NPUR GSS	PAPADAHANDI FROM NPUR GSS	WPB	11MTR	3
11	JEYPORE	NED	UMERKOTE	JHARIGAON TO CHANDAHANDI	19.724286,82.371655	19.832542,82.477529	WPB	11MTR	3
12	BHANJANAGAR	PED	PHULBANI	KHAJURIPADA	KHAJURIPADA	PADASAHI	WPB	11MTR	3
13	BHANJANAGAR	PED	G.UDAYAGIRI	RAIKIA	LAT 20.092378*LONG 84.259991*	LAT 20.092378*LONG 84.259991*	WPB	11MTR	1
14	BHANJANAGAR	PED	G.UDAYAGIRI	RAIKIA	LAT20.080443*LONG84.34238*	LAT20.080443*LONG84.34238*	WPB	11MTR	1
15	BHANJANAGAR	PED	G.UDAYAGIRI	KARADA	LAT19.953705*LONG84.272750*	LAT19.953705*LONG84.272750*	WPB	11MTR	1
16	RAYAGADA	PKED	UPPALADA	GARABANDHA	GURANDI	GURANDI	WPB	11MTR	6

LOCATION OF 33KV INTERMEDIATE POLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	33 KV FEEDER NAME	FROM(GIS LOCATION)	TO(GIS LOCATION)	TYPE OF INTERMEDIATE POLE REQUIRED(RSJ/RAIL/PSC/WPB)	HEIGHT OF INTERMEDIATE POLE REQUIRED	NO. OF INTERMEDIATE POLES REQ.
17	RAYAGADA	RED	BISSAMCUTTACK	BISSAMCUTTACK-I (HATAMUNIGUDA GSS TO BISSAMCUTTACK PSS)	BISSAMCUTTACK-I (HATAMUNIGUDA GSS TO BISSAMCUTTACK PSS)	BISSAMCUTTACK-I (HATAMUNIGUDA GSS TO BISSAMCUTTACK PSS)	WPB	11MTR	2
18	RAYAGADA	RED	BISSAMCUTTACK	DANGASORADA	DANGASORADA	DANGASORADA	WPB	11MTR	2
19	RAYAGADA	RED	BISSAMCUTTACK	AMBADOLA	AMBADOLA	AMBADOLA	WPB	13MTR	2
20	ASKA	AED-I	ASKA	SORODA	G D PALLI (33KVA1103-951/215)	DHARAKOTE(33KV1103-951/332)	WPB	13MTR	6
21	BERHAMPUR	PSED	KODALA	BHUDAMBA TO KODALA	ASKA OLD	KODALA	WPB	11MTR	6
22	BERHAMPUR	HED	HINJILICUT	33KV HINJLI (PURUSATTOMPUR	GANDALA TAPPING	NANDIKA NEW AB SWITCH	WPB	11MTR	4
23	BERHAMPUR	HED	HINJILICUT	33KV HINJLI (PURUSATTOMPUR	NANDIKA NEW AB SWITCH	NANDIKA PANCHAYATA OFFICE AB SWITCH	WPB	13MTR	2
84	CITY	BED-I	GOPALPUR	BHANJABIHAR	BHANJABIHAR	BHANJABIHAR	WPB	13MTR	2
85	CITY	BED-I	INDUSTRIAL	MKCG EXPRESS	GSS	4-POLE	WPB	13MTR	4
86	CITY	BED-III	KANISI	CHIKTI	JAGAPUR PSS	GOLANTHARA (DANDAKALI TEMPLE) EP	WPB	11MTR	6
87	ASKA	AED-II	K S NAGAR	33KV- BUGUDA	BALIPADAR PSS	BUGUDA PSS	WPB	11MTR	6
88	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	NUAPADA	NUAPADA	WPB	11MTR	3
89	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	LOIGAON	LOIGAON	WPB	11MTR	1
90	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	RADHANAGAR	RADHANAGAR	WPB	11MTR	1
91	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	BNPUR	BNPUR	WPB	11MTR	1

Location Sl No. 6

LOCATION OF 11kV INTERMEDIATE POLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	FROM	TO LOCATION	TYPE OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	HEIGHT OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	NO. OF INTERMEDIATE POLES REQ.
1	CITY	BED-II	SSD-III	GOSANINUAGAM	HIG	RAJARANI APARTMENT	NEW POLICE STATION	WPB	11MTR	7
2	CITY	BED-II	SSD-III	GOSANINUAGAM	GOSANINUAGAM	DHAMANA SAHI CHOWK	GUPTA BRUNDABAN	WPB	11MTR	2
3	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	DASARATHI APARTMENT	KHASPA SAHI	WPB	11MTR	4
4	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHI NAGAR-I	DAIMOND TANK ROAD	KANJIVARI SAHI,SANA BAZAR CHHAK	WPB	11MTR	4
5	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	HARIDAKHANDI KALI MANDIR	UTTARAMUKHI & BAURI SUKUNDA	WPB	11MTR	9
6	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	PANCHANAN NAGAR	LN STREET 12TH LANE,MALUANI TEMPLE RELIANCE TOWER	WPB	11MTR	8
7	CITY	BED-II	SSD-I	ASKAROAD	CITY HOSPITAL	AMABAGADA PSS	HARSHA VIHAR	WPB	11MTR	6
8	BHANJANAGAR	BNED	BHANJANAGAR-II	KANTEIPALLY	GOBARA	SADANGIPALLI	GOBARA	PSC	10MTR	3
9	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	GAM (UNDER BELLAGUNTHA	PSS	NUAGAON	PSC	10MTR	8
10	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	APUA (UNDER BELLAGUNTHA	PSS	AMBAPUA	PSC	10MTR	5
11	BHANJANAGAR	BNED	BELLAGUNTHA	J N PRASAD	JHADABHUMI	PSS	JHADABHUMI VILLAGE	PSC	10MTR	10
12	BHANJANAGAR	BNED	BELLAGUNTHA	J N PRASAD	KADUA	PSS	KADUA	PSC	10MTR	10
13	BHANJANAGAR	BNED	SORODA	SORODA	ASURABANDHA	PATAPALI	HUKUMA	PSC	10MTR	5
14	RAYAGADA	GED	GUNUPUR	GUNUPUR- RURAL	JAGANNATHPUR	JAGANNATHPUR	GOTHLOPADAR	PSC	10MTR	5
15	RAYAGADA	GED	GUMUDA	GUMUDA	GUMUDA	GUMUDA	BHAMINI	WPB	11MTR	5
16	RAYAGADA	GED	GUNUPUR	GUNUPUR-TOWN	REGADA	BANDHU GUDA	BADO GUDA	WPB	11MTR	5
17	RAYAGADA	GED	GUNUPUR	GUNUPUR-TOWN	GUNUPUR TOWN	HALDIYA NALA	RING ROAD	WPB	11MTR	5
18	RAYAGADA	GED	GUMUDA	GUDARI	DHEPAGUDA	UTABADI	BABARI	WPB	11MTR	5
19	RAYAGADA	GED	GUMUDA	RAMANAGUDA	RAMANAGUDA	RAMANAGUDA PSS TO	DEVAGA VILLAGE	WPB	11MTR	5
20	RAYAGADA	GED	GUNUPUR	GUNUPUR- RURAL	KULSING	KULSING	NEAR KULSING VILLAGE	PSC	10MTR	5
21	RAYAGADA	GED	GUMUDA	PADAMPUR	PADAMPUR	PADAMPUR TOWN	PADAMPUR TOWN	WPB	11MTR	5
22	ASKA	GSED	CHIKITI	PATRAPUR	BADAPUR	19.1076,84.5410	19.1290,84.5660	WPB	9MTR	8
23	ASKA	GSED	DIGAPAHANDI	BOMKAI	DUMULA	SUMANTAPUR	NIJA BANKESWARI	PSC	9MTR	2
24	ASKA	GSED	CHIKITI	CHIKITI	KRUSHNAPUR	BALIPADAR TAPPING	BALIPADAR	WPB	9MTR	4
25	ASKA	GSED	CHIKITI	CHIKITI	KOTILINGI	KHAJURIA TAPPING	KHAJURIA	PSC	10MTR	4
26	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	KOTINADA	19.4204,84.6744	19.4339,84.6642	WPB	9MTR	6
27	ASKA	GSED	CHIKITI	NUAPADA	CHANDAPUR	PATRACHUDI VILLAGE AREA 19.2392/84.5019	DEULIAPADA 19.2410/84.5180	WPB	9MTR	8
28	ASKA	GSED	CHIKITI	SURANGI	TALPADA	19.1639, 84.5283	19.1880, 84.4808	WPB	9MTR	8
29	JEYPORE	JED	JESD-2	NO-1	JEYPORE TOWN 2	CHANDAN BADA	JAIN MANDIR	WPB	11MTR	3
30	JEYPORE	JED	JESD-2	RANDAPALI	HADIA	PSS	HADIA	PSC	9MTR	7
31	JEYPORE	JED	JESD-2	KUNDRA	LIMA	HERIGUDA	CHILIGUDA	PSC	9MTR	5
32	JEYPORE	JED	JESD-1	JYP NO. 3	JEYPORE TOWN 1	ORE STORE,POWER HOUSE 4 TH L	KHAJURIBANDHA	WPB	11MTR	3
33	JEYPORE	JED	JESD-1	JYP NO. 3	JAYANAGAR	PSS	CHILIGUDA	WPB	11MTR	3

LOCATION OF 11kV INTERMEDIATE POLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	FROM	TO LOCATION	TYPE OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	HEIGHT OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	NO. OF INTERMEDIATE POLES REQ.
34	JEYPORE	JED	JESD-1	JYP NO. 3	KORAPUT	JEYPORE STORE	PHD TO YELLOW BRIDGE	WPB	9MTR	2
35	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	KHADAPA	DHARNAHANDI	SOLOPA	PSC	9MTR	15
36	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	BAMNIGAON	PSS	JEYPORE STORE	WPB	13MTR	1
37	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	JEYPORE RE	PSS	JEYPORE STORE	WPB	13MTR	1
38	BERHAMPUR	GNED	RAMBHA	GANJAM	PALUR	NALAKUDA	AGI/NEW PODAMPETTA/ALLE	WPB	11MTR	40
39	JEYPORE	KED	LAXMIPUR	KAKRIGUMA	PANCHADA FEEDER	KAKIRIGUMA PSS TO	KENDRIGUDA	WPB	11MTR	6
40	JEYPORE	KED	SUNABEDA	POTTANGI	SUNKI	POTTANGI PSS	SUNKI	WPB	11MTR	8
41	JEYPORE	KED	SUNABEDA	POTTANGI	NUAGAON	POTTANGI PSS	NUAGAON	WPB	11MTR	8
42	JEYPORE	KED	SUNABEDA	SIMLIGUDA	DAMNJODI RURAL	BELEIGUDA PSS	DAMANJODI	PSC	9MTR	5
43	JEYPORE	KED	SUNABEDA	NANDAPUR	CHATWA HATAGUDA	PADUA PSS	CHATUA	PSC	9MTR	5
44	JEYPORE	KED	SUNABEDA	NANDAPUR	BADEL	PADUA PSS	BADEL	PSC	9MTR	7
45	JEYPORE	MED	MALKANGIRI	MALKANGIRI	CHALLANGUDA	HTJ3101-2/506	17154968	PSC	9MTR	10
46	JEYPORE	MED	BALIMELA	MATHILI	SALIMI	Mathili Chowk	Mahupadar	PSC	9MTR	5
47	JEYPORE	MED	MALKANGIRI	KALIMELA	MPV-83	MPV-81	MPV-83	PSC	9MTR	10
48	JEYPORE	MED	BALIMELA	BALIMELA	KORUKONDA	Balimela Chowk	MV-37	PSC	9MTR	5
49	JEYPORE	MED	BALIMELA	BALIMELA	BALIMELA TOWN	Balimela	PHD	PSC	9MTR	3
50	JEYPORE	MED	BALIMELA	MATHILI	MATHILI	Mathili	Baldiaguda	PSC	9MTR	5
51	JEYPORE	MED	BALIMELA	BALIMELA	BALIMELA TOWN	Balimela	OHPC	WPB	11MTR	2
52	JEYPORE	NED	NABARANGPUR	NABARANGPUR RURAL	J.N.PUR	JHADIAGUDA	MURLABAI	PSC	9MTR	4
53	JEYPORE	NED	PAPADAHANDI	DABUGAM	GUMUDA	SINDHIGUDA	GHODAKHUNTA	PSC	9MTR	11
54	JEYPORE	NED	NABARANGPUR	NABARANGPUR NO-I	PODALGUDA	Majhiguda	SP office	PSC	9MTR	4
55	JEYPORE	NED	NABARANGPUR	TENTULIKHUNTI	ANCHALGUMA	Anchalguma	Hirimunda	PSC	9MTR	4
56	JEYPORE	NED	UMERKOTE	JHARIGAM	EKAMBA	19.7052,82.2599	HTJ2304-1/1806	PSC	9MTR	1
57	JEYPORE	NED	UMERKOTE	JHARIGAM	EKAMBA	HTJ2304-1/1756	HTJ2304-1/1779	PSC	9MTR	3
58	JEYPORE	NED	UMERKOTE	JHARIGAM	EKAMBA	HTJ2304-1/1720	HTJ2304-1/1660	PSC	9MTR	1
59	JEYPORE	NED	UMERKOTE	JHARIGAM	EKAMBA	HTJ2304-1/83	HTJ2304-1/99	PSC	9MTR	2
60	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	BAIDAPADA	GODAJHARIA	PSC	9MTR	2
61	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	SAGADIAPADA	PATAKHALIA	PSC	9MTR	2
62	JEYPORE	NED	UMERKOTE	CHANDAHANDI	BEHERAMUNDA	KHAIRABADITAPING	KHAPARADIHI	PSC	9MTR	2
63	JEYPORE	NED	UMERKOTE	CHANDAHANDI	BEHERAMUNDA	SARADHAPUR	JAMPADA	PSC	9MTR	2
64	JEYPORE	NED	UMERKOTE	CHANDAHANDI	BEHERAMUNDA	JHALIPADA	TELATENDI	PSC	9MTR	2
65	BHANJANAGAR	PED	PHULBANI	KHAJURIPADA	DUTIPADA	JAMJHIRI	KHUMUNDA	PSC	9MTR	5
66	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	BANDHAGADA	PANDUPADAR	PANDUPADAR	PSC	9MTR	3
67	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	RUAJNGI	NEDIGUDA	RAJKHAMAR	PSC	9MTR	3
68	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	MUSULIPANGA	AKAPADA	AKAPADA	PSC	9MTR	2
69	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	MUSULIPANGA	BANDULI	BANDULI	PSC	9MTR	2

LOCATION OF 11kV INTERMEDIATE POLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	FROM	TO LOCATION	TYPE OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	HEIGHT OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	NO. OF INTERMEDIATE POLES REQ.
70	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	MUSULIPANGA	SAPTINGIA	SAPTINGIA	PSC	9MTR	3
71	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	MUSULIPANGA	MUSULIPANGA	MUSULIPANGA	PSC	9MTR	6
72	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	SALAGUDA	MADAPADA	MADAPADA	PSC	9MTR	2
73	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	SALAGUDA	JALAPADAR	JALAPADAR	PSC	9MTR	3
74	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	SADINGIA	KALADI	KALADI	PSC	9MTR	2
75	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	SADINGIA	LENDRIGAON	LENDRIGAON	PSC	9MTR	2
76	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	SADINGIA	KATAPANGA	KATAPANGA	PSC	9MTR	3
77	BHANJANAGAR	PED	BALIGUDA	DARINGBADI	DARSINGIBADI	MAKPATA	TEPARI	PSC	9MTR	4
78	RAYAGADA	PKED	MOHANA	ADAVA	ALIGANDA	ADAVA PSS	ALIGANDA	PSC	9MTR	8
79	RAYAGADA	PKED	MOHANA	MOHANA	KAMALAPUR	TIAMA	KAMALAPUR	PSC	9MTR	5
80	RAYAGADA	PKED	MOHANA	MOHANA	KAMALAPUR	KECHAPANKA	LUHAGUDI	PSC	9MTR	1
81	RAYAGADA	PKED	R.UDAYAGIRI	R.UDAYAGIRI	PUTRUPADA	FLYASH BRICKS	MAHULAPADA	PSC	9MTR	7
82	RAYAGADA	PKED	UPPALADA	RAIGADA	BHURJANGA	PEGADA	GIRA	PSC	9MTR	7
83	RAYAGADA	PKED	UPPALADA	GARABANDHA	LABYANGADA	JAGANATHPUR	JAGANATHPUR	WPB	11MTR	2
84	RAYAGADA	PKED	UPPALADA	GARABANDHA	LABYANGADA	BALAJIPUR	KOYAPONDA	PSC	9MTR	10
85	RAYAGADA	RED	RESD	RURAL	KEREDA	Ramchrandra pur tapping	Attada	PSC	9MTR	10
86	RAYAGADA	RED	THERUBALI	KASIPUR	TIKIRI TOWN	RAMUGUDA AB SWITCH	MAILIGUDA VILLAGE	PSC	9MTR	2
87	RAYAGADA	RED	THERUBALI	KASIPUR	TIKIRI TOWN	SOROSHAPADAR PSS	SANKARADA	PSC	9MTR	3
88	RAYAGADA	RED	THERUBALI	KASIPUR	TIKIRI TOWN	SOROSHAPADAR PSS	SORISHAPADAR VILLAGE	PSC	9MTR	1
89	RAYAGADA	RED	THERUBALI	KASIPUR	KASIPUR TOWN	KASIPUR PSS	PHD	PSC	9MTR	5
90	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	DAHIKHALA BACK	PATRAGUDA	DORABARIGUDA	PSC	9MTR	9
91	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	AMBADOLA TOWN	Ambadola PSS	Ambadola Railway station	WPB	11MTR	4
92	RAYAGADA	RED	RAYAGADA	RAYAGADA-I	INDUSTRIAL	SERIGUDA PSS	OMC BARIJHOLA	WPB	11MTR	2
93	RAYAGADA	RED	RAYAGADA	RAYAGADA-I	TOWN-1	SERIGUDA PSS	SRIRAM NAGAR	PSC	9MTR	2
94	RAYAGADA	RED	RAYAGADA	RAYAGADA-I	TOWN-1	SERIGUDA PSS	MEDICAL	WPB	11MTR	2
95	ASKA	AED-I	ASKA	DHARAKOTE	MUNDAMARAI	MUNDAMARAI HADI SAHI	MUNDAMARAI GIRLS SCHOOL	WPB	11MTR	10
96	ASKA	AED-I	ASKA	NUAGAON-1	BHETANAI	CHARMILE SQUARE	BANSIDHAR RICE MILL	WPB	11MTR	5
97	ASKA	AED-I	ASKA	NUAGAON-1	BHETANAI	GOAT FIRM BABANPUR	BHEANAI	WPB	11MTR	2
98	ASKA	AED-I	ASKA	NUAGAON-1	COLLEGE SQAURE	KUMBHARI	B NUAPALLI	WPB	11MTR	4
99	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	PSS	KARANJEI	WPB	11MTR	3
100	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	KALASANDPUR	NALABANTHA/KHADABAGA	WPB	11MTR	3
101	ASKA	AED-I	NUAGAM	NUAGAM-II	MAKUNDAPUR	PATHARA	JADABHAGADA/MANCHACH	WPB	11MTR	2
102	ASKA	AED-I	NUAGAM	NUAGAM-II	MAKUNDAPUR	JAYAPUR	JAYAPUR 100 KVA MAIN ROAD	WPB	11MTR	2
103	ASKA	AED-I	ASKA	BALISIRA	GUNTHAPADA	GUNTHAPADA	GOLANBANDHAPALII	PSC	10MTR	2
104	ASKA	AED-I	ASKA	BALISIRA	GUNTHAPADA	BALISRA	SUMANTHAPALLI	WPB	11MTR	2
105	ASKA	AED-I	ASKA	BALISIRA	NIMINA	KHARIPALLI	KHARIPALLI ASHRAM	WPB	11MTR	5

LOCATION OF 11kV INTERMEDIATE POLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	FROM	TO LOCATION	TYPE OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	HEIGHT OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	NO. OF INTERMEDIATE POLES REQ.
106	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	PSPUR	PSS	KUMARI	WPB	11MTR	3
107	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	BALIA	PSS	UDS PUR	WPB	9MTR	4
108	BERHAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	BHATAKUMARAD	PSS	BHATAKUMARADA	WPB	11MTR	4
109	BERHAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	RANJHALI	PSS	RANJHALI VILLAGE	WPB	11MTR	3
110	BERHAMPUR	PSED	POLASARA	POLASARA	BALICHAI	KARTALI AB CHACK	GHODAPALANA VIA JENAPUR	WPB	11MTR	2
111	BERHAMPUR	PSED	POLASARA	POLASARA	BELAGAON	PSS	DIMIRIA	WPB	11MTR	4
112	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	RUMAGADA	RWSS	KHAPARAKHANDA	PSC	10MTR	2
113	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BALLICHAI	PSS	DUNGURI	PSC	10MTR	4
114	BERHAMPUR	PSED	KODALA	KODALA	OLD GUDIALI	PSS	GHODAPADA	WPB	11MTR	6
115	BERHAMPUR	PSED	KODALA	KODALA	PHASI	PSS	REGUTIPALLY	WPB	11MTR	2
116	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	ODONAI	CHINGUDIKHOLA	MANGALAPUR	WPB	11MTR	6
117	BERHAMPUR	HED	HINJILICUT	KANCHURU	BADAKHANDI	NEW MAKARJHOLA DD FUSE POINT	PALI PADNAPUR OLD RWSS	WPB	11MTR	10
118	BERHAMPUR	HED	HINJILICUT	KANCHURU	SARU	RWSS KANTEIKOLI	RWSS CHAITANPADA	PSC	10MTR	5
119	BERHAMPUR	HED	HINJILICUT	KANCHURU	DARUBHADRA	DARUBHADRA	KHAJIPALI	WPB	11MTR	5
120	BERHAMPUR	HED	HINJILICUT	KANCHURU	DARUBHADRA	DARUBHADRA	MAHONAPALI	WPB	11MTR	3
121	BERHAMPUR	HED	HINJILICUT	KANCHURU	D.PATPUR	KALIMAA STONE CRUSHER	DHOBADI LINE AB	WPB	11MTR	4
122	BERHAMPUR	HED	HINJILICUT	KANCHURU	D.PATPUR	GANDALA PSS	KALIMAA STONE CRUSHER	WPB	11MTR	8
123	BERHAMPUR	HED	SHERAGADA	KONKARADA	GOVINDAPUR	GOVINDAPUR	DENGAPADAR	PSC	10MTR	5
124	CITY	BED-I	GOPALPUR	GOPALPUR	BAXIPALLI	NEW BAXIPALLI	GOLABANDHA	WPB	11MTR	2
125	CITY	BED-I	GOPALPUR	GOPALPUR	HARIPUR	HARIPUR UPPULAPUTTY	KAUNAPALLI	WPB	11MTR	4
126	CITY	BED-I	GOPALPUR	GOPALPUR	NARAYANPUR	NEAR NARAYANPUR	NILAKANTHESWAR TEMPLE	WPB	11MTR	3
127	CITY	BED-I	GOPALPUR	GOPALPUR	OLD GOPALPUR	RAMGEILUNDA KARAPALLI	GOPALPUR	WPB	11MTR	3
128	CITY	BED-I	GOPALPUR	BHANJABIHAR	GOLABANDHA	Near bhabeswar temple	GOLABANDHA	WPB	11MTR	3
129	CITY	BED-I	GOPALPUR	BHANJABIHAR	KARAPALLI	BIKRAMPUR	BIJIPUR	WPB	11MTR	3
130	CITY	BED-I	GOPALPUR	BHANJABIHAR	DURA	PSS	MAIN ROAD RAMCHANDRAPU	WPB	11MTR	2
131	CITY	BED-I	GOPALPUR	BHANJABIHAR	GAUNJU	DURA	AURUAPPLI	WPB	11MTR	3
132	CITY	BED-I	GOPALPUR	BHANJABIHAR	RAMACHANDRAPUR	RAMACHANDRAPUR MAIN ROAD	RAMCHANDRAPUR PSS	WPB	11MTR	2
133	CITY	BED-I	GOPALPUR	HEADQUARTER	NARENDRAPUR	IOB BANK NARENDRAPUR	PANCHAYAT OFFICE SQUARE	WPB	11MTR	2
134	CITY	BED-I	GOPALPUR	HEADQUARTER	NARENDRAPUR	HATA STREET	PANDARA STREET	WPB	11MTR	2
135	CITY	BED-I	GOPALPUR	HEADQUARTER	JHADANKULI	NEAR NARENDRAPUR PSS	BADAKUSASTHALI VILLAGE	WPB	11MTR	3
136	CITY	BED-I	GOPALPUR	HEADQUARTER	JHADANKULI	JHADANKULI LINE AB	JHADANKULI VILLAGE	WPB	11MTR	3
137	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	PUTTABAGADA IAY COLONY	PUTTABAGADA MAIN STREET	WPB	11MTR	2
138	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	BACK SIDE OF NARENDRAPUR PSS	GANAPALLI HARIHARA RICE M	WPB	11MTR	3
139	CITY	BED-III	SDO-IV	LATHI	MOHUDA	PSS	Tail End	PSC	10MTR	10
140	CITY	BED-III	KANISI	JAGAPUR	SOROLA	Near sonepur beach	Near sonepur beach	WPB	11MTR	10
141	CITY	BED-III	KANISI	JAGAPUR	SOROLA	PSS	Tail End	WPB	11MTR	4

LOCATION OF 11kV INTERMEDIATE POLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	FROM	TO LOCATION	TYPE OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	HEIGHT OF INTERMEDIATE POLE REQUIRED (WPB/PSC)	NO. OF INTERMEDIATE POLES REQ.
142	CITY	BED-III	SDO-IV	LOCHAPADA	GURANTHI	GURANTHI FEEDER NEAR STRAT	END	WPB	11MTR	16
143	ASKA	AED-II	BUGUDA	BUGUDA	MANITARA	GOLABANDHA	MANITARA	WPB	11MTR	2
144	ASKA	AED-II	BUGUDA	BUGUDA	KARCHULI	B. KARDABADI	KARCHULLI	WPB	11MTR	2
145	ASKA	AED-II	BUGUDA	BUGUDA	MOTABADI	BUGUDA PSS	MOTABADI	PSC	10MTR	1
146	ASKA	AED-II	BUGUDA	BALIPADAR	MOTABADI	TALASAKARA	BELAPADA	WPB	11MTR	2
147	ASKA	AED-II	BUGUDA	BUGUDA	PANGIDI	BUGUDA PSS	ANTRAPADA	WPB	11MTR	1
148	ASKA	AED-II	BUGUDA	BALIPADAR	PANGIDI	PANGIDI	PD PUR	WPB	11MTR	2
149	ASKA	AED-II	BUGUDA	BUGUDA	BUGUDA TOWN	BIRANCHIPUR	BUDHAKHOLA	WPB	11MTR	2
150	ASKA	AED-II	BUGUDA	BUGUDA	GOLIA	BUGUDA PSS	KATAKALA	WPB	11MTR	2
151	ASKA	AED-II	BUGUDA	BALIPADAR	GAHANGU	BISHNUCHAKRA	GAHANGU	WPB	11MTR	3
152	ASKA	AED-II	BUGUDA	BALIPADAR	A KARADABADI	KALAMBA	BANAPALLI	WPB	11MTR	3
153	ASKA	AED-II	K S NAGAR	BUDHAMBA	PAIKAJAMUNA	PAIKAJAMAUNA	BAUNSI	WPB	11MTR	2
154	ASKA	AED-II	K S NAGAR	K S NAGAR	KANIARI	PAIKAJAMAUNA	KANIARY	WPB	11MTR	2
155	ASKA	AED-II	K S NAGAR	K S NAGAR	BARIDA	PAIKAJAMAUNA	BARIDA	WPB	11MTR	2
156	ASKA	AED-II	K S NAGAR	K S NAGAR	KS NAGAR TOWN	IB SQUARE	WINE SHOP	WPB	11MTR	1
157	ASKA	AED-II	K S NAGAR	BUDHAMBA	GUDIALI	GUDIALI	JARADA	WPB	11MTR	2
158	ASKA	AED-II	K S NAGAR	K S NAGAR	GUDIALI	K S NAGAR PSS	SB NUAGAON	WPB	11MTR	1
159	ASKA	AED-II	K S NAGAR	K S NAGAR	BOLOSARA	K S NAGAR PSS	BALIASARA	WPB	11MTR	2
160	ASKA	AED-II	K S NAGAR	BUDHAMBA	SIALIA	K S NAGAR PSS	SIALIA	WPB	11MTR	2
161	ASKA	AED-II	K S NAGAR	K S NAGAR	SIALIA	K S NAGAR PSS	SIALIA	WPB	11MTR	1
162	ASKA	AED-II	K S NAGAR	K S NAGAR	PATHARA	K S NAGAR PSS	PATHRA	WPB	11MTR	1
163	ASKA	AED-II	K S NAGAR	BUDHAMBA	ATHAGADA PATANA	BUDHAMBA	BADAGAULA	WPB	11MTR	1
164	ASKA	AED-II	K S NAGAR	BUDHAMBA	BADAMAHURI	BUDHAMBA PSS	BADAMAHURI	WPB	11MTR	1
165	ASKA	AED-II	K S NAGAR	BUDHAMBA	GUDIAPALI	BUDHAMBA PSS	GUDIAPALLI	WPB	11MTR	1
166	ASKA	AED-II	K S NAGAR	BUDHAMBA	BUDHAMBA	BUDHAMBA PSS	DEOGAM	WPB	11MTR	1
167	BHANJANAGAR	BOED	MANMUNDA	BAUNSUNI	TELIBANDHA	PSS	Telibandha	PSC	10MTR	5
168	BHANJANAGAR	BOED	MANMUNDA	BAUNSUNI	BAHIRA	PSS	Bahira	WPB	11MTR	5
169	BHANJANAGAR	BOED	MANMUNDA	BAUNSUNI	JANAPANK	PSS	janapank	WPB	11MTR	5
170	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	BNPUR	PSS	Bnpur	WPB	11MTR	4
171	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	KARADI	PSS	Karadi	WPB	11MTR	3
172	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	BAMANDA	PSS	Bamanda	PSC	10MTR	10
173	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	BILASPUR	PSS	bilaspur	WPB	11MTR	4
174	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	DANDAMUNDA	PSS	DANDAMUNDA	WPB	11MTR	4

Location Sl No. 7

LOCATION OF LT INTERMEDIATE POLE

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	NO. OF INTERMEDIATE POLES REQ.	TYPE OF POLE	HIGHT OF POLE
1	CITY	BED-II	SSD-III	GOSANI NUAGAON	GANDHINAGAR-II	AMBIKANAGAR NEW	3	WPB	9MTR
2	CITY	BED-II	SSD-III	GOSANI NUAGAON	GANDHINAGAR-II	AMBIKANAGAR NEW	4	WPB	9MTR
3	CITY	BED-II	SSD-III	GOSANI NUAGAON	GANDHINAGAR-II	BILO SAHI	4	WPB	9MTR
4	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	HARIDAKHANDI KALI MANDIR	4	WPB	9MTR
5	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	HARIDAKHANDI BYPASS	3	WPB	9MTR
6	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	BAURI SUKUNDA	3	WPB	9MTR
7	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	BARIA BILLA SAHI	3	WPB	9MTR
8	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	KATHAMENTU CHHAK	3	WPB	9MTR
9	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	LN STREET 3RD LANE	2	WPB	9MTR
10	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	PANDAB NAGAR	2	WPB	9MTR
11	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	GANESH NAGAR PARK	1	WPB	9MTR
12	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	PANCHANAN NAGAR	2	WPB	9MTR
13	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	LN STREET 11TH LANE	2	WPB	9MTR
14	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	KUTHARI MANDIR SAHI	2	WPB	9MTR
15	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	AMBAPUA LT	3	PSC	9MTR
16	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	KHAJURIAPLLI LT	4	PSC	9MTR
17	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	KEBIRPALLI LT	3	PSC	9MTR
18	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	SADARA LT	4	PSC	9MTR
19	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	MANGALPUR+BALJHIRI LT	5	PSC	9MTR
20	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	BANKA+KELPANGALA LT	10	PSC	9MTR
21	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	SORODO LT	5	PSC	9MTR
22	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	JILIBA LT	8	PSC	9MTR
23	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA	ALIASAHI LT	5	PSC	8MTR
24	RAYAGADA	GED	GUNUPUR	GUNUPUR- RURAL	BIKRAMPUR	KARABAN 100 KVA	3	PSC	8MTR
25	RAYAGADA	GED	GUNUPUR	GUNUPUR- RURAL	BIKRAMPUR	PUJARIGUDA 100 KVA	2	PSC	8MTR
26	RAYAGADA	GED	GUNUPUR	GUNUPUR- RURAL	PUTTASING	PUTTASING 100 KVA	3	PSC	8MTR
27	RAYAGADA	GED	GUNUPUR	GUNUPUR- RURAL	GADHIYA KHALA	GADHIYA KHALA 100KVA	3	PSC	8MTR
28	RAYAGADA	GED	GUMUDA	GUMUDA	KUJENDRI	HADUGUDA 100 KVA	2	PSC	9MTR
29	RAYAGADA	GED	GUMUDA	GUMUDA	GUMUDA	GOPALPUR 100 KVA	2	PSC	9MTR
30	RAYAGADA	GED	GUMUDA	RAMANAGUDA	RAMANAGUDA	RAMANAGUDA 250 & 100 KVA	3	PSC	9MTR
31	RAYAGADA	GED	GUMUDA	GUMUDA	NAIRA	PUJA VELO 100 KVA	2	PSC	8MTR
32	RAYAGADA	GED	GUNUPUR	RAMANAGUDA	RAMANGUDA	MEDICAL COLONY 63KVA	3	PSC	9MTR
33	RAYAGADA	GED	GUNUPUR	RAMANAGUDA	RAMANGUDA	SAMPARGUDA 63 KVA	3	PSC	9MTR
34	RAYAGADA	GED	GUNUPUR	PADMAPUR	PADMAPUR	BHULUSUNDHA 63 KVA	3	PSC	9MTR
35	RAYAGADA	GED	GUNUPUR	PADMAPUR	PADMAPUR	KHAIRYA 100 KVA	3	PSC	9MTR
36	ASKA	GSED	CHIKITI	NUAPADA	KHARIAGUDA	100KVA BALARAMPUR	4	PSC	8MTR

LOCATION OF LT INTERMEDIATE POLE

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	NO. OF INTERMEDIATE POLES REQ.	TYPE OF POLE	HIGHT OF POLE
37	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	SIDESHWAR	GANIANALA 250 KVA	3	PSC	8MTR
38	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	SIDESHWAR	SIDHESWAR MEDICAL 250 KVA	2	WPB	9MTR
39	ASKA	GSED	CHIKITI	NUAPADA	NUAPADA	100 KVA BADAKELAJHURI	4	PSC	8MTR
40	ASKA	GSED	CHIKITI	CHIKITI	KRUSHNA NAGAR	HINJALIGAM 100 KVA	3	PSC	9MTR
41	ASKA	GSED	CHIKITI	CHIKITI	BAHANPATI	JAGANNATHPUR 63 KVA	3	PSC	9MTR
42	ASKA	GSED	CHIKITI	CHIKITI	BAHANPATI	OLLAPUR 100 KVA	2	PSC	9MTR
43	ASKA	GSED	CHIKITI	SURANGI	RAJPUR	NEWPENTHA	2	PSC	9MTR
44	ASKA	GSED	CHIKITI	SURANGI	KELUA	KELUA	2	PSC	9MTR
45	ASKA	GSED	CHIKITI	SURANGI	KELUA	NEW MAISHANPUR	2	PSC	9MTR
46	ASKA	GSED	CHIKITI	SURANGI	MANDARADA	SOLABHAGAPENTHO	2	PSC	9MTR
47	ASKA	GSED	CHIKITI	PATRAPUR	TUMBA	SARADPUR C	2	PSC	8MTR
48	ASKA	GSED	CHIKITI	PATRAPUR	JAYANTIPUR	JAYANTIPUR NEAR MEDICAL	2	PSC	8MTR
49	ASKA	GSED	CHIKITI	PATRAPUR	PATRAPUR	PATRAPUR NO-2	2	PSC	8MTR
50	ASKA	GSED	CHIKITI	PATRAPUR	TUMBA	SARADAPUR B	2	PSC	8MTR
51	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KANHEIPUR	KAIRASI 500KVA	2	PSC	8MTR
52	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KANHEIPUR	BEGUNIAPADA SAHI/KAIRASI 250K	1	PSC	8MTR
53	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KANHEIPUR	BHIKAPADA/MAINROAD 315KVA	2	PSC	8MTR
54	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KANHEIPUR	KHOJAPALLI/SHIVA MANDIR SAHI	1	PSC	8MTR
55	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KANHEIPUR	KHOJAPALLI/TIKAR SAHI 100KVA	1	PSC	8MTR
56	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	BHARASA 100KVA	1	PSC	8MTR
57	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	BHARASA NUAPALLI 25KVA	1	PSC	8MTR
58	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	MATHURA 250KVA	1	PSC	8MTR
59	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	N BERHAMPUR 100KVA	1	PSC	8MTR
60	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	G MATHURA 100KVA	1	PSC	8MTR
61	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	PUSTAPUR 250KVA	2	PSC	8MTR
62	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	KANCHNA 100KVA	1	PSC	8MTR
63	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	AMBAJHARANUAPALLI 100KVA	1	PSC	8MTR
64	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	A NUAPALLI MATIA SAHI 16KVA	1	PSC	8MTR
65	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	NAIKANIPALLI BAURI SAHI 63KVA	1	PSC	8MTR
66	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KODALA REC	RANIPADA MAIN ROAD 100KVA	1	PSC	8MTR
67	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	CHIKILI BANIA	CHIKILI 100KVA	2	PSC	8MTR
68	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KHALLIKOTE TOWN	SABARA COLONY 315KVA	1	WPB	9MTR
69	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KHALLIKOTE TOWN	SWASTYAPURI 100KVA	4	WPB	9MTR
70	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KHALLIKOTE TOWN	NEW FASULA 100KVA	1	WPB	9MTR
71	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KHALLIKOTE TOWN	BLOCK 100KVA	1	WPB	9MTR
72	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KHALLIKOTE TOWN	NIRMALHARA 250KVA	1	WPB	9MTR
73	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	POLICE STATION	IN FRONT OF KHALLIKOTE PSS 100K	2	WPB	9MTR
74	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	POLICE STATION	PHULAJHARA 100KVA	1	WPB	9MTR

LOCATION OF LT INTERMEDIATE POLE

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	NO. OF INTERMEDIATE POLES REQ.	TYPE OF POLE	HIGHT OF POLE
75	JEYPORE	MED	BALIMELA	BALIMELA	BALIMELA TOWN	NALA CHOWK	3	PSC	8MTR
76	JEYPORE	MED	BALIMELA	BALIMELA	KORUKONDA	KENDRAGANPHA	5	PSC	8MTR
77	JEYPORE	MED	BALIMELA	MATHILI	MATHILI	MAULIMAA 100KVA	5	PSC	8MTR
78	JEYPORE	MED	BALIMELA	MATHILI	MATHILI	HATAPADA	3	PSC	8MTR
79	JEYPORE	MED	MALKANGIRI	KALIMELA	MV-79	MV-79	8	PSC	8MTR
80	JEYPORE	MED	MALKANGIRI	MALKANGIRI	MALKANGIRI TOWN	MALIKESWAR COLONY	8	PSC	8MTR
81	JEYPORE	NED	PAPADAHANDI	PAPADAHANDI	MAIDALPUR	NEAR PANCHAYAT OFC	3	PSC	9MTR
82	JEYPORE	NED	PAPADAHANDI	PAPADAHANDI	TUMBORLA	RAM MANDIR SAHI	3	PSC	9MTR
83	JEYPORE	NED	PAPADAHANDI	PAPADAHANDI	MAIDALPUR	OLD MAIDALPUR TALA SAHI	3	PSC	9MTR
84	JEYPORE	NED	PAPADAHANDI	PAPADAHANDI	MAIDALPUR	NEAR GATE DHABA	3	PSC	9MTR
85	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	BANAMAHUL 25 KVA	3	PSC	9MTR
86	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	JHARABAHAL 16 KVA	1	PSC	9MTR
87	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	GUNASAGARPADA (DHODIPANI) 25	1	PSC	9MTR
88	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	MATHURAPADA 25 KVA	1	PSC	9MTR
89	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	DHODIPANI PUJARIPADA 16 KVA	2	PSC	8MTR
90	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	DAHIMAL GUDIPADA 25 KVA	1	PSC	9MTR
91	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	LUHABAHILI 25 KVA	1	PSC	9MTR
92	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	PALASAPADA 25 KVA	1	PSC	9MTR
93	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	ANTIPADA 16 KVA	2	PSC	8MTR
94	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	BHATIPADA BANUAPADA 16 KVA	3	PSC	9MTR
95	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	BHATIPADA MANDEIPADA 16 KVA	2	PSC	9MTR
96	JEYPORE	NED	NABARANGPUR	NPUR TOWN	NO-I	BAJRANGI RICE MILL 250 KVA	1	PSC	9MTR
97	JEYPORE	NED	NABARANGPUR	NPUR TOWN	NO-I	WOMEN COLLEGE 500 KVA	1	PSC	9MTR
98	BHANJANAGAR	PED	PHULBANI	PHULBANI	BAZAR	SAKTIDAYINI TEMPLE	2	WPB	9MTR
99	BHANJANAGAR	PED	PHULBANI	PHULBANI	BAZAR	MAA MANGALASAHI	2	WPB	9MTR
100	BHANJANAGAR	PED	PHULBANI	PHULBANI	BAZAR	BHANJASAHI	4	WPB	9MTR
101	BHANJANAGAR	PED	PHULBANI	PHULBANI	TOWN NO-3	AUROBINDA SCHOOL	4	WPB	9MTR
102	BHANJANAGAR	PED	PHULBANI	PHULBANI	PHULBANISAHI	BARALDEBI	3	PSC	8MTR
103	BHANJANAGAR	PED	PHULBANI	TUMUDIBANDHA	TUMUDIBANDHA TOWN	CIVIL CRIMINAL COURT 2	4	PSC	8MTR
104	BHANJANAGAR	PED	G.UDAYAGIRI	TIKABALI	TIKABALI	BLOCK COLONY	5	PSC	8MTR
105	BHANJANAGAR	PED	G.UDAYAGIRI	G.UDAYAGIRI	TOWN-1	MEDICAL	3	WPB	9MTR
106	BHANJANAGAR	PED	G.UDAYAGIRI	G.UDAYAGIRI	TOWN-1	TREASURY	3	WPB	9MTR
107	BHANJANAGAR	PED	G.UDAYAGIRI	G.UDAYAGIRI	TOWN-1	INDIRAPADIA	2	WPB	9MTR
108	RAYAGADA	PKED	UPPALADA	GARABANDHA	MAGADA	MAHADEVPUR	2	PSC	8MTR
109	RAYAGADA	PKED	UPPALADA	GARABANDHA	GURANDI	GURANDI VILLAGE	4	PSC	8MTR
110	RAYAGADA	PKED	UPPALADA	GARABANDHA	MAGADA	ENGLISHPETA	4	PSC	8MTR
111	RAYAGADA	PKED	UPPALADA	RAYAGADA	RAYAGADA	ABASING	8	PSC	8MTR
112	RAYAGADA	PKED	UPPALADA	RAYAGADA	KOINPUR	JALLO	7	PSC	8MTR

LOCATION OF LT INTERMEDIATE POLE

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	NO. OF INTERMEDIATE POLES REQ.	TYPE OF POLE	HIGHT OF POLE
113	RAYAGADA	PKED	UPPALADA	GARABANDHA	MAGADA	GOSANI	7	PSC	8MTR
114	BERHAMPUR	HED	HINIJICUT	PITALA	PITALA	KANJIAMA 1	4	PSC	9MTR
115	BERHAMPUR	HED	HINIJICUT	PITALA	PITALA	KHANDRA	5	PSC	9MTR
116	BERHAMPUR	HED	HINIJICUT	PITALA	BURUPADA	KHANDRA	5	PSC	9MTR
117	BERHAMPUR	HED	HINIJICUT	PITALA	PITALA	B NUAPALLI	5	PSC	9MTR
118	BERHAMPUR	HED	HINIJICUT	KANCHURU	BADAKHANDI	NEAR BALARAMPUR NEAR TRINATI	3	PSC	9MTR
119	BERHAMPUR	HED	HINIJICUT	KANCHURU	BADAKHANDI	KHAMBEYADORA COLLEGE	5	PSC	9MTR
120	BERHAMPUR	HED	HINIJICUT	KANCHURU	BADAKHANDI	P.RAMACHANDRAPUR CHHOWK TC	5	PSC	9MTR
121	BERHAMPUR	HED	SHERAGADA	KONKARADA	KONKARADA	MEDICAL CHHAKA	2	PSC	8MTR
122	BERHAMPUR	HED	SHERAGADA	KONKARADA	KONKARADA	LENKAKHALI	2	PSC	8MTR
123	BERHAMPUR	HED	SHERAGADA	KONKARADA	KURULA	INDIRAWASH	2	PSC	8MTR
124	ASKA	AED-I	ASKA	BALISIRA		GUNTHAPADA 100KVA	3	PSC	9MTR
125	ASKA	AED-I	ASKA	BALISIRA		JAHADEI 63KVA	4	PSC	9MTR
126	ASKA	AED-I	ASKA	BALISIRA		NIMINA 250KVA	3	PSC	9MTR
127	ASKA	AED-I	NUAGAON	NUAGAON 1		BHETANAI DORA BANDHA SAHI	2	PSC	8MTR
128	ASKA	AED-I	NUAGAON	NUAGAON 1		KOTINADA VILLAGE	3	PSC	8MTR
129	ASKA	AED-I	NUAGAM	NUAGAM-LL		KARATALI 100+100 KVA	2	PSC	9MTR
130	ASKA	AED-I	NUAGAM	NUAGAM-LL		TARASING 100+100 KVA	2	PSC	8MTR
131	ASKA	AED-I	NUAGAM	NUAGAM-LL		KENDUPADARA 100+100+63 KVA DS	2	PSC	8MTR
132	ASKA	AED-I	NUAGAM	NUAGAM-LL		JAYAPUR 100+100+63 KVA DSS	1	PSC	8MTR
133	ASKA	AED-I	NUAGAM	NUAGAM-LL		KARNOLI 100+100 KVA	3	PSC	8MTR
134	ASKA	AED-I	ASKA	DHARAKOTE		MUNDAMARI-250+100KVA	7	PSC	9MTR
135	CITY	BED-I	GOPALPUR	BHANJABIHAR	DURA	PATHARA	3	PSC	9MTR
136	CITY	BED-I	GOPALPUR	BHANJABIHAR	DURA	DURA HANUMAN MANDIR	10	PSC	9MTR
137	CITY	BED-I	GOPALPUR	BHANJABIHAR	MANDIAPALLI	SABAT COLONY	5	PSC	9MTR
138	CITY	BED-I	GOPALPUR	BHANJABIHAR	MANDIAPALLI	MANDIAPALLI	2	PSC	9MTR
139	CITY	BED-I	GOPALPUR	BHANJABIHAR	KARAPALLI	KITCHEN KING	2	PSC	9MTR
140	CITY	BED-I	GOPALPUR	BHANJABIHAR	KARAPALLI	NEW KARAPALLI	3	PSC	9MTR
141	CITY	BED-I	GOPALPUR	BHANJABIHAR	KARAPALLI	BIKRAMPUR	5	PSC	9MTR
142	CITY	BED-I	GOPALPUR	BHANJABIHAR	KARAPALLI	RAKHSHA VIHAR	4	PSC	9MTR
143	CITY	BED-III	KANISI	JAGAPUR	SOROLA	PATI SONPUR AUTO STAND	4	PSC	9MTR
144	CITY	BED-III	KANISI	JAGAPUR	SUMANDI	K.SUMANDI ROAD SAHI DSS	8	PSC	9MTR
145	CITY	BED-III	KANISI	JAGAPUR	SUMANDI	BALIBANDHA	7	PSC	9MTR
146	CITY	BED-III	KANISI	JAGAPUR	SUMANDI	R.SUMANDI	3	PSC	9MTR
147	CITY	BED-III	KANISI	JAGAPUR	SOROLA	BUS STAND	6	PSC	9MTR
148	CITY	BED-III	KANISI	JAGAPUR	SOROLA	KAITHA SOUBHAGYA DSS	5	PSC	9MTR
149	CITY	BED-III	KANISI	JAGAPUR	SOROLA	KAITHA VILLAGE DSS	3	PSC	9MTR
150	ASKA	AED-II	BUGUDA	BALIPADAR	GAHANGU	GAHANGU_250KVA	1	PSC	9MTR

LOCATION OF LT INTERMEDIATE POLE

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	NO. OF INTERMEDIATE POLES REQ.	TYPE OF POLE	HIGHT OF POLE
151	ASKA	AED-II	BUGUDA	BALIPADAR	BALIPADAR TOWN	ASKA ROAD NEAR NELIA BANDHA_16-KVA	2	PSC	9MTR
152	ASKA	AED-II	BUGUDA	BALIPADAR	A KARADABADI	JHOLORI THAKURANI TEMPLE_63-KVA	1	PSC	9MTR
153	ASKA	AED-II	BUGUDA	BUGUDA	KARCHULI	NUAGA COLONY_25-KVA	1	PSC	9MTR
154	ASKA	AED-II	BUGUDA	BUGUDA	MANITARA	BETARSINGI 4_63-KVA	1	PSC	9MTR
155	ASKA	AED-II	BUGUDA	BUGUDA	MOTABADI	MOTABADI 4_100-KVA	1	PSC	9MTR
156	ASKA	AED-II	BUGUDA	BALIPADAR	MOTABADI	BELAPADA_25-KVA	1	PSC	9MTR
157	ASKA	AED-II	BUGUDA	BALIPADAR	MOTABADI	BELAPADA-1_63-KVA	1	PSC	9MTR
158	ASKA	AED-II	BUGUDA	BUGUDA	GOLIA	BHAMASIALI 3_315 KVA-11/0.415KV	2	PSC	9MTR
159	ASKA	AED-II	BUGUDA	BUGUDA	PANGIDI	SOLAMAIL_1_100-KVA	1	PSC	9MTR
160	ASKA	AED-II	BUGUDA	BALIPADAR	PANGIDI	PANKARBADI MAIN ROAD_100-KVA	1	PSC	9MTR
161	ASKA	AED-II	BUGUDA	BALIPADAR	PANGIDI	KHOLAKHALI HADISAHI_100-KVA	1	PSC	9MTR
162	ASKA	AED-II	BUGUDA	BUGUDA	BUGUDA TOWN	OPPOSITE MAGISTRATE RES*_100-KVA	2	PSC	9MTR
163	ASKA	AED-II	K S NAGAR	K S NAGAR	KANIARI	DUNGARI_100-KVA	1	PSC	9MTR
164	ASKA	AED-II	K S NAGAR	K S NAGAR	BARIDA	BADACHADHIAPADA 2_63-KVA	1	PSC	9MTR
165	ASKA	AED-II	K S NAGAR	K S NAGAR	BARIDA	BORASINGI 2_250-KVA	1	PSC	9MTR
166	ASKA	AED-II	K S NAGAR	K S NAGAR	BARIDA	BARIDA PANCHIYET OFFICE_100-KV	1	PSC	9MTR
167	ASKA	AED-II	K S NAGAR	K S NAGAR	KS NAGAR TOWN	SIKHARAPUR SAHI-2	2	PSC	9MTR
168	ASKA	AED-II	K S NAGAR	BUDHAMBA	GUDIALI	JARADA 1_250-KVA	1	PSC	9MTR
169	ASKA	AED-II	K S NAGAR	BUDHAMBA	GUDIALI	JARADA 4_100-KVA	1	PSC	9MTR
170	ASKA	AED-II	K S NAGAR	BUDHAMBA	GUDIALI	JARADA CHOWK 1_100-KVA	1	PSC	9MTR
171	ASKA	AED-II	K S NAGAR	BUDHAMBA	GUDIALI	JARADA 3_100-KVA	1	PSC	9MTR
172	ASKA	AED-II	K S NAGAR	K S NAGAR	BOLOSARA	DENGAPADA 1_63-KVA	1	PSC	9MTR
173	ASKA	AED-II	K S NAGAR	K S NAGAR	BOLOSARA	WATER SUPPLY 2_100-KVA	1	PSC	9MTR
174	ASKA	AED-II	K S NAGAR	BUDHAMBA	ATHAGADA PATANA	ATHAGADA KALIMANDIR_200-KVA	1	PSC	9MTR
175	ASKA	AED-II	K S NAGAR	BUDHAMBA	ATHAGADA PATANA	ATHAGADA PATNA NEAR SBI_200-KVA	1	PSC	9MTR
176	ASKA	AED-II	K S NAGAR	BUDHAMBA	BADAMAHURI	BADAMAHURI SHIV MANDIR_100-KVA	1	PSC	9MTR
177	ASKA	AED-II	K S NAGAR	BUDHAMBA	BUDHAMBA	CHANCHAL_100-KVA	1	PSC	9MTR
178	BHANJANAGAR	BOED	BOUDH	BOUDH	BADHIGAON	PANKHIMAL	2	PSC	8MTR
179	BHANJANAGAR	BOED	BOUDH	BOUDH	BADHIGAON	BADHIGAON	2	PSC	8MTR

LOCATION OF LT INTERMEDIATE POLE

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	NO. OF INTERMEDIATE POLES REQ.	TYPE OF POLE	HIGHT OF POLE
180	BHANJANAGAR	BOED	BOUDH	BOUDH	BADHIGAON	BADHIGAON	2	PSC	8MTR
181	BHANJANAGAR	BOED	BOUDH	BOUDH	BAMANDA	SARSARA	2	PSC	8MTR
182	BHANJANAGAR	BOED	BOUDH	BOUDH	BAMANDA	GAMBHARIPADAR	2	PSC	8MTR
183	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	BNPUR	BISNPUR HARIJANSAHI	1	PSC	8MTR
184	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	KARADI	HATAGAON	1	PSC	8MTR
185	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	KARADI	SAMPOOCH	1	PSC	8MTR
186	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	TILESWAR	KOILISUTA	2	PSC	8MTR
187	BHANJANAGAR	BOED	BOUDH	BAUNSUNI	TELIBANDHA	TELIBANDHA	3	PSC	8MTR
188	BHANJANAGAR	BOED	BOUDH	BAUNSUNI	DAHYA	DAHYA-1	3	PSC	8MTR
189	BHANJANAGAR	BOED	BOUDH	BAUNSUNI	JANAPANK	JANAPANK	2	PSC	8MTR
190	BHANJANAGAR	BOED	BOUDH	MANAMUNDA	DEULI	DEULI (MANAMUNDA)	3	PSC	8MTR
191	BHANJANAGAR	BOED	BOUDH	MANAMUNDA	GHANTAPADA	GHANTAPADA TOWN	3	PSC	8MTR
192	BHANJANAGAR	BOED	BOUDH	MANAMUNDA	KANTAMAL	KANTAMAL TOWN	3	PSC	8MTR
193	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	BEGUNIAPADA	KHANDIANAI	1	PSC	9MTR
194	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	BEGUNIAPADA	JANATA HIGH SCHOOL	2	PSC	9MTR
195	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	BEGUNIAPADA	TANTISAHI	1	PSC	9MTR
196	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	OLD ANGARAGAON	M.BARIDA	2	PSC	9MTR
197	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	OLD ANGARAGAON	BELAPADA	1	PSC	9MTR
198	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	OLD ANGARAGAON	PIHANIA	1	PSC	9MTR
199	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	OLD ANGARAGAON	M.CHANCHARA	1	PSC	9MTR
200	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	OLD ANGARAGAON	CHHACHINA	1	PSC	9MTR
201	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BHABARADA	HIGH SCHOOL	2	PSC	9MTR
202	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	DHUNKAPADA	KANIAPALLI	3	PSC	8MTR
203	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	GOLIA	KANACHHAI	3	PSC	8MTR
204	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	GOLIA	KHUNTIKUNTA	3	PSC	9MTR
205	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	CHIRIKIPADA	BELEI JHURI	2	PSC	9MTR
206	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	PANDIRIPADA	KHAIKHATA	2	PSC	8MTR
207	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	RUMAGADA	PATNA SAHI	3	PSC	9MTR
208	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BALLICHAI	HATIOTA	2	PSC	9MTR
209	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BARTINI	BARTINI	2	PSC	9MTR
210	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BALLICHAI	KARATALI	2	PSC	9MTR
211	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	LUNIGHATI	2	PSC	9MTR
212	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	KHANDIA SAHI	2	PSC	9MTR
213	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA RURAL	KONKARADA	2	PSC	9MTR
214	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA RURAL	MARADARJPUR	2	PSC	9MTR
215	BERHAMPUR	PSED	POLASARA	POLASARA	BELAGAON	CHANACHIPALLY	2	PSC	9MTR
216	BERHAMPUR	PSED	POLASARA	POLASARA	BELAGAON	MANASILA	1	PSC	9MTR
217	BERHAMPUR	PSED	PSPUR	TARATARANI	SUNATHARA	ARJUNPALLI	3	PSC	9MTR

LOCATION OF LT INTERMEDIATE POLE

S.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	NO. OF INTERMEDIATE POLES REQ.	TYPE OF POLE	HIGHT OF POLE
218	BERHAMPUR	PSED	PSPUR	TARATARANI	SUNATHARA	SUNATHARA	3	PSC	9MTR
219	BERHAMPUR	PSED	PSPUR	TARATARANI	BHATAKUMURADA	BHATAKUMURADA	5	PSC	9MTR
220	BERHAMPUR	PSED	PSPUR	TARATARANI	JAMUNI	HIGH SCHOOL	3	PSC	9MTR
221	BERHAMPUR	PSED	PSPUR	TARATARANI	SOLAGHARA	ANGU	2	PSC	9MTR
222	BERHAMPUR	PSED	PSPUR	TARATARANI	SOLAGHARA	HINDULA	3	PSC	9MTR
223	BERHAMPUR	PSED	KODALA	KODALA	PHASI	RAGHUNATHPALLI	3	PSC	8MTR
224	BERHAMPUR	PSED	KODALA	KODALA	KODALA	GORADEIPUR	3	PSC	9MTR
225	BERHAMPUR	PSED	KODALA	KODALA	KODALA	BHAIGASAHI	3	PSC	9MTR
226	BERHAMPUR	PSED	KODALA	KODALA	MATHASARSINGHI	KALIMEGHI	2	PSC	8MTR
227	BERHAMPUR	PSED	PURUSHOTTAMPUR	PURUSHOTTAMPUR	BARAGAON	SAMA	2	PSC	8MTR
228	BERHAMPUR	PSED	PURUSHOTTAMPUR	PURUSHOTTAMPUR	PSPUR TOWN	SWAPNESHWAR	2	PSC	9MTR
229	BERHAMPUR	PSED	PURUSHOTTAMPUR	PURUSHOTTAMPUR	BALIA	BHUABHUIN	2	PSC	9MTR
230	BERHAMPUR	PSED	PURUSHOTTAMPUR	PURUSHOTTAMPUR	PANDIA	PANDIA	3	PSC	9MTR
231	BERHAMPUR	PSED	PURUSHOTTAMPUR	PURUSHOTTAMPUR	BALIA	ALADIGAON	3	PSC	9MTR
232	BERHAMPUR	PSED	PURUSHOTTAMPUR	PURUSHOTTAMPUR	ACHULI	ACHUILI	4	PSC	8MTR

LOCATION FOR POLYCARBONATE BOX

SL NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SECTION	11KV FEEDER NAME	DSS NAME	QTY (NO.S)
1	CITY	BED-I	AMBAPUA	AMBAPUA	BANCHANIDHINAGAR 500KVA	30
2	CITY	BED-I	MEDICAL	KAMAPALLI	BHABA NAGAR 500KVA	30
3	CITY	BED-I	CITY HOSPITAL	TATA BENZ	AUROBINDO NAGAR 315KVA	30
4	CITY	BED-I	CITY HOSPITAL	TATA BENZ	ASHOK NAGAR 500KVA	30
5	CITY	BED-I	LANJIPALLI	HILLPATNA	HILL PATNA 3RD LN 500KVA	30
6	CITY	BED-I	CITY HOSPITAL	TATA BENZ	ANANTA NAGAR 250KVA	30
7	CITY	BED-I	CITY HOSPITAL	TATA BENZ	ANANTA NAGAR 315KVA	30
8	CITY	BED-I	CITY HOSPITAL	TATA BENZ	TATA BENZ CHOWK 315KVA	30
9	CITY	BED-I	CITY HOSPITAL	OLD BUSSTAND	BAIKUNTHA NAGAR 500KVA	30
10	CITY	BED-I	CITY HOSPITAL	OLD BUSSTAND	MICOWAVE 250KVA	30
11	CITY	BED-I	CITY HOSPITAL	OLD BUSSTAND	BAIKUNTHA NAGAR 250KVA	30
12	CITY	BED-I	CITY HOSPITAL	TATA BENZ	RAMA HARI NAGAR 250KVA	30
13	CITY	BED-I	CITY HOSPITAL	TATA BENZ	GODAVARISH NAGAR 500KVA	30
14	CITY	BED-I	CITY HOSPITAL	TATA BENZ	GODAVARISH NAGAR 250KVA	30
15	CITY	BED-I	CITY HOSPITAL	TATA BENZ	HATIBANDHA STREET 200KVA	30
16	CITY	BED-I	CITY HOSPITAL	TATA BENZ	CHRISTIAN HOSPITAL 500KVA	30
17	CITY	BED-I	CITY HOSPITAL	TATA BENZ	SCIENTIFIC NAGAR 500KVA	30
18	CITY	BED-I	CITY HOSPITAL	TOWN HALL	PANI TANK 500KBA	30
19	CITY	BED-I	CITY HOSPITAL	TOWN HALL	GOLAPALLI STREET 250KVA	30
20	CITY	BED-I	MEDICAL	COURTPETA	AYODHYA NAGAR 500KVA	30
21	CITY	BED-I	MEDICAL	KAMAPALLI	HANDI SHOP 500KVA	30
22	CITY	BED-I	MEDICAL	KAMAPALLI	KAMAPALLI BADA STREET 500KVA	30
23	CITY	BED-I	MEDICAL	BANKCOLONY	BANKCOLONY 250KVA	30
24	CITY	BED-I	LANJIPALLI	LANJIPALLI	MUNICIPALITY 500KVA	30
25	CITY	BED-I	LANJIPALLI	NIGAM NAGAR	NIGAM NAGAR SAI TEMPLE 315KVA	30
26	CITY	BED-I	CITY HOSPITAL	TOWN HALL	BABAJI TOTA STREET 500KVA	30
27	CITY	BED-I	AMBAPUA	GAJAPATI NAGAR	GAJAPATI NAGAR 5TH LN	30
28	CITY	BED-I	AMBAPUA	GAJAPATI NAGAR	GAJAPATI NAGAR 8TH LN 500KVA	30
29	CITY	BED-I	AMBAPUA	GAJAPATI NAGAR	BASUDEV NAGAR 1ST LN 100KVA	30
30	CITY	BED-I	AMBAPUA	GAJAPATI NAGAR	BASUDEV NAGAR 3RD LN 100KVA	30
31	BAM	PSED	CHIRIKIPADA	BALLICHHAI	BALLICHHAI 500KVA	25
32	BAM	PSED	CHIRIKIPADA	BALLICHHAI	M.DHIASAHI 250KVA	14
33	BAM	PSED	CHIRIKIPADA	BALLICHHAI	JEMADEIPUR 63KVA	13
34	BAM	PSED	CHIRIKIPADA	BALLICHHAI	HATIOTA 250KVA	15
35	BAM	PSED	CHIRIKIPADA	RUMAGADA	BHATAKHHALI 250KVA	16
36	BAM	PSED	CHIRIKIPADA	RUMAGADA	BHATAKHHALI 100KVA	17
37	BAM	PSED	CHIRIKIPADA	RUMAGADA	MANDARA 250KVA	11
38	BAM	PSED	CHIRIKIPADA	RUMAGADA	MANDARA100KVA	12
39	BAM	PSED	CHIRIKIPADA	RUMAGADA	MALATIBADI 100KVA	11
40	BAM	PSED	CHIRIKIPADA	RUMAGADA	RUMAGADA 250 KVA	8
41	BAM	PSED	CHIRIKIPADA	RUMAGADA	RUMAGADA 100 KVA	9
42	BAM	PSED	CHIRIKIPADA	BARTINI	BARTINI 250 KVA	10
43	BAM	PSED	CHIRIKIPADA	PANDIRIPADA	PATALASING 100KVA	18
44	BAM	PSED	CHIRIKIPADA	PANDIRIPADA	PATALASING 63KVA	12
45	BAM	PSED	CHIRIKIPADA	PANDIRIPADA	PANDIRIPADA 63 KVA	18
46	BAM	PSED	CHIRIKIPADA	PANDIRIPADA	ICHHAPUR 63KVA	16
47	BAM	PSED	CHIRIKIPADA	CHIRIKIPADA	JILUNDA 100KVA	9
48	BAM	PSED	CHIRIKIPADA	CHIRIKIPADA	BELEIJHURI 100KVA	11
49	BAM	PSED	CHIRIKIPADA	CHIRIKIPADA	MADHUPALLI 250 KVA	19
50	BAM	PSED	CHIRIKIPADA	CHIRIKIPADA	NIMINA 250 KVA	18
51	BAM	PSED	CHIRIKIPADA	CHIRIKIPADA	S.BARAGAON 100KVA	13
52	BAM	PSED	CHIRIKIPADA	BHABARADA	HANSARALI 250KVA	17
53	BAM	PSED	CHIRIKIPADA	BALLICHHAI	KARATALI 100KVA	7
54	BAM	PSED	CHIRIKIPADA	PANDIRIPADA	JOKABANDHA 63KVA	8
55	BAM	PSED	CHIRIKIPADA	CHIRIKIPADA	B.NUAPALLI 63 KVA	5
56	BAM	PSED	CHIRIKIPADA	GOLIA	KENDUBADI 250 KVA	7
1	BAM	PSED	TARATARANI	11KV TARATARANI JUNCTION	TANVI SCHOOL 100KVA	25
2	BAM	PSED	TARATARANI	11KV TARATARANI JUNCTION	TT JAMUNI CHAKA 100KVA	18
3	BAM	PSED	TARATARANI	11KV TARATARANI JUNCTION	63KVA CHAKA MAIN ROAD	15
4	BAM	PSED	TARATARANI	11KV TARATARANI JUNCTION	63KVA SARASWATI NAGAR	10
5	BAM	PSED	TARATARANI	11KV TARATARANI JUNCTION	100KVA JAGATESWAR TEMPLE	16
6	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	250KVA PICHULI	25
7	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	100KVA PICULI	10
8	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	2*100KVA HUNDATA	15
9	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	100KVA HOTAPUR	11
10	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	63KVA HOTAPUR VILLAGE	8
11	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	16KVA HUNDATA TOTA	5
12	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	63KVA KHASALAPALLI	12
13	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	BURTULU 100KVA	18
14	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	BURTULU 100KVA MAIN ROAD	12
15	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	315KVA JAMUNI	30
16	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	100KVA PANIA BANDHA	10

LOCATION FOR POLYCARBONATE BOX

SL NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SECTION	11KV FEEDER NAME	DSS NAME	QTY (NO.S)
17	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	100KVA HIGH SCHOOL	10
18	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	100KVA DNPUR	10
19	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	315KVA GANGADAHANI	25
20	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	100KVA GANGADAHANI	15
21	BAM	PSED	TARATARANI	11KV JAMUNI FEEDER	100KVA SHIVA TEMPLE	13
22	BAM	PSED	TARATARANI	11KV RANJHALI FEEDER	100KVA KESHPUR VILLAGE	20
23	BAM	PSED	TARATARANI	11KV RANJHALI FEEDER	100KVA SHIVA TEMPLE	15
24	BAM	PSED	TARATARANI	11KV RANJHALI FEEDER	25KVA MAIN ROAD KESHPUR CHAKA	10
25	BAM	PSED	TARATARANI	11KV RANJHALI FEEDER	63KVA MUKUNDAPUR	10
26	BAM	PSED	TARATARANI	11KV RANJHALI FEEDER	63KVA MUKUNDAPUR MAINROAD	7
27	BAM	PSED	TARATARANI	11KV RANJHALI FEEDER	RANJHALI 315	30
28	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	63KVA NARSINGHAPUR	10
29	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	250KVA GOBINDAPUR	22
30	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	250KVA MAINDIRA	15
31	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	100KVA GOBINDAPUR	10
32	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	100KVA BADABANDHA	10
33	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	RAIPUR 100KVA	15
34	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	63KVA RAIPUR MAIN ROAD	10
35	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	SOLAGHARA 250KVA	20
36	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	100KVA SOLAGHARA	10
37	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	ANGU CHAKA 100KVA	15
38	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	HINDULA 100KVA	20
39	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	63KVA HINDULA	10
40	BAM	PSED	TARATARANI	11KV SOLAGHARA FEEDER	ANGU 100+63KVA	20
41	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	ANGU DEMPA 63KVA	7
42	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	BHAGHALA 315KVA	20
43	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	BHAGHALA 100KVA	15
44	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	PANCHAMUKHI 63KVA	10
45	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	PALLIAMA 100KVA	15
46	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	KUSHAPUR 250KVA	20
47	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	PALLIAMA MAUN RAOD 100KVA	10
48	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	SUNATHARA 100KVA	10
49	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	RI OFFICE 2*100KVA	20
50	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	HIGH SCHOOL 100KVA	10
51	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	DHIMIRA 100KVA	15
52	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	PADMABAITI 100KVA	15
53	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	ARJUNAPALLI 63KVA	15
54	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	DUANPALLI 250KVA	20
55	BAM	PSED	TARATARANI	11KV SUNATHARA FEEDER	DUANAPALLI 100KVA	10
56	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	JAGANATHAPUR 250KVA	25
57	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	NUAPALLI 16KVA	5
58	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	NUAPALLI 100KVA	20
59	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	DAMADARPUR 100KVA	10
60	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	SITARAMPALLI 100KVA	10
61	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	TARAINIPALLI 100KVA	10
62	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	GOPINATHPUR 63KVA	10
63	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	NIMAPALLI 63KVA	10
64	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	BHATAKUMARADA 100KVA -1	15
65	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	BHATAKUMARADA 100KVA -2	15
66	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	BHATAKUMARADA CHANDI SAHI 100KVA	15
67	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	SBI 250KVA	30
68	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	SBI 63KVA	15
69	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	LATH 63KVA	10
70	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	100KVA MAINROAD BHATAKUMARADA	10
71	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	BADASAHI 100KVA	10
72	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	MEDICAL 100KVA	15
73	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	RANGUNU BANDHA 100KVA	10
74	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	KANDALAPLLAI 100KVA	10
75	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	SAGUNAPALLI 63KVA	8
76	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	SAGUNAPLLI 100KVA	10
77	BAM	PSED	TARATARANI	11KV BHATAKUMARADA FEEDER	NAIDUPALLI 63KVA	10

Location Sl No. 9

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
1	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	BHAIRABGADA	AGULO	100KVA	DSS	AGULO SCHOOL	50	0.1
2	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	AMBADOLA TOWN	MEDICAL CHHACK	100KVA	DSS	BISWAL COLONY	50	0.3
3	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	AMBADOLA TOWN	BADAPADA	100KVA	DSS	BADAPADA SAHI	50	0.2
4	RAYAGADA	RED	RESD	RAYAGADA-2	TOWN-4	SUB COLLECTOR OFFICE (DT028	250	SUB COLLECTOR	RANI COMPLEX	95	0.1
5	RAYAGADA	RED	RAYAGADA	JK PUR	JK PUR	RAMA RICE MILL	100	RAMA RICE MILL	PETROL PUMP	50	0.4
6	RAYAGADA	RED	RAYAGADA	JK PUR	PENTA	BAPUJI NAGAR	25	BAPUJI NAGAR	MAIN ROAD	35	0.3
7	RAYAGADA	RED	RAYAGADA	NO-I	TOWN-2	MUNICIPALITY 100KVA	100	MUNICIPALITY S/S	KORAPUT JUNCTION	50	0.2
8	RAYAGADA	GED	GUNUPUR	GUNUPUR-RURAL	JALTAR	JALTAR	100	JALTAR COLONY	WILSON CHURCH	50	0.7
9	RAYAGADA	GED	GUMUDA	RAMANAGUDA	JHORADI	RABADI	63	DSS	RABADI	50	0.6
10	RAYAGADA	GED	GUMUDA	PADMAPUR	PADMAPUR	NO-02	250	DSS	NO-2	95	0.1
11	BHANJANAGAR	BNED	BHANJANAGAR-II	ESO-II	SANAKODANDA	JOGIMARI VILLAGE 1	100	JOGIMARI CHHAKA	JOGIMARI VILLAGE	50	0.2
12	BHANJANAGAR	BNED	BHANJANAGAR-II	ESO-II	SANAKODANDA	BINJIGIRI VILLAGE 1	100	BINJIGIRI CHHAKA	BANJIGIRI HARIJANA SAHI	50	0.2
13	BHANJANAGAR	BNED	BHANJANAGAR-II	KANTEIPALLI	JILUNDI	BUDULI VILLAGE	16	BUDULI DSS	VILLAGE END	35	0.3
14	BHANJANAGAR	BNED	BHANJANAGAR-II	KANTEIPALLI	JILUNDI	PURNAPANI VILLAGE	16	PURUNAPANI	VILLAGE END	35	0.2

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
15	BHANJANAGAR	BNED	BHANJANAGAR-II	KANTEIPALLI	JILUNDI	KANTEIPALLY VIDYUT NAGAR	63	KANTEIPALLY	BIDYUT COLONY	50	0.4
16	BHANJANAGAR	BNED	BHANJANAGAR-II	KBPUR	GANGAPUR	SITAPALLI	100	SITAPALI	VILLAGE	50	0.2
17	BHANJANAGAR	BNED	BHANJANAGAR-II	KBPUR	LUNIPADA	DODANGA	63	DODANGA	VILLAGE	50	0.2
18	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	AMBAPUA	TIKARAPADA BHANDARI SAHI	100	LAST SPAN	END POLE	35	0.1
19	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	TOWN	PANTHA SAHI	500	DSS	VASUDEV	95	0.2
20	ASKA	GSED	CHIKITI	PATRAPUR	JAYANTIPUR	JAYANTAPUR HANUMAN NAGAR SAHU	25	DSS	END POINT	35	0.2
21	ASKA	GSED	CHIKITI	PATRAPUR	JAYANTIPUR	JAYANTIPUR BANK SAHI	25	DSS	END POINT	35	0.2
22	ASKA	GSED	CHIKITI	CHIKITI	KOTILINGI	KAMAGAM	100	DTR	ACROSS VILLAGE	50	0.4
23	ASKA	GSED	CHIKITI	CHIKITI	PITATALI	PITATALI	100	DTR	ACROSS VILLAGE	50	0.5
24	ASKA	GSED	CHIKITI	CHIKITI	KRUSHNANAGAR	HINJALIGAM	63	DTR	ACROSS VILLAGE	50	0.5
25	BHANJANAGAR	PED	PHULBANI	PHULBANI	COLLEGE	RTO OFFICE	100	DSS	SOIL CONSERVATION COLONY	50	0.5
26	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	RUJANGI	PAKANAGAON	25	DSS	PAKANAGAON	35	0.3
27	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	RUJANGI	BARPADA	10	DSS	BARPADA	35	0.1
28	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	SADINGIA	KALIPANGA	63	DSS	KALIPANGA	35	0.2

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
29	BHANJANAGAR	PED	BALLIGUDA	BALLIGUDA	HIGH SCHOOL	MI OFC HTN2301-1/231	63	MI OFC	SAHI	50	0.4
30	BHANJANAGAR	PED	G.UDAYAGIRI	TIKABALI	TIKABALI	POLICE STATION	63	POLICE STATION	MEDICAL	50	0.5
31	BHANJANAGAR	PED	G.UDAYAGIRI	TIKABALI	TIKABALI	KEUTASAHI	100	KEUTASAHI	MEDICAL	50	0.4
32	JEYPORE	KED	KORAPUT	KORAPUT-1	KORAPUT NO 2	ANWESHA HOSTEL, ID=12522253	25	DSS	ANWESHA HOSTEL	35	0.1
33	JEYPORE	KED	KORAPUT	KORAPUT-1	KORAPUT NO I	DIVISION OFFICE, ID=14117403	100	DSS	DIVISION OFFICE	50	0.1
34	JEYPORE	KED	KORAPUT	KORAPUT-1	KORAPUT NO I	PUJARIPUT JIO TOWER, ID=12523883	25	DSS	PUJARIPUT JIO TOWER	35	0.2
35	JEYPORE	KED	KORAPUT	KORAPUT-1	KORAPUT NO I	SOG 3, ID=12521806	25	DSS	SOG 3	35	0.2
36	JEYPORE	KED	KORAPUT	KORAPUT-1	KORAPUT NO-3	FIRE STATION, ID=14115534	63	DSS	FIRE STATION	35	0.1
37	JEYPORE	KED	SUNABEDA	SIMILIGUDA	BILAIGUDA TOWN	BHRAT SAHU RICE MILL, ID=19473023	315	DSS	BHRAT SAHU RICE MILL	50	0.7
38	JEYPORE	KED	SUNABEDA	SUNABEDA	BILAIGUDA TOWN	SEMILIGUDA WIDA OFFICE 2, ID=19473249	315	DSS	SEMILIGUDA WIDA OFFICE 2	50	0.3
39	JEYPORE	KED	SUNABEDA	SUNABEDA	JADAGUDA	SHANTI NAGAR 1, ID=10176815	315	DSS	SHANTI NAGAR 1	50	0.3
40	ASKA	AED-II	K.S. NAGAR	BUDHAMBA	11KV-GUDIAPALLI	ID-3405047_ GUDIAPALLI	100-KVA	GUDIAPALLI	JAGANNATH TEMPLE BOTH SIDE	50	0.4
41	ASKA	AED-II	K.S. NAGAR	K. S. NAGAR	11KV- PATHRA	ID-3404473_ PATHARA 4	100-KVA	PATHARA 4_100-KVA	TAIL END	50	0.4
42	ASKA	AED-II	K.S. NAGAR	K. S. NAGAR	11KV-BARIDA_BOLOSARA	ID-4042245_AMBAPUA 2	63-KVA	AMBAPUA 2_63-KVA	TAIL END	50	0.2

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
43	ASKA	AED-II	BUGUDA	BALIPADAR	11KV- PANGIDI	ID-4390601_PANGDI ANTARPADA ROAD	16-KVA	PANGDI ANTARPADA ROAD_16 KVA-	TAIL END	35	0.2
44	ASKA	AED-II	BUGUDA	BALIPADAR	11KV- PANGIDI	ID-4391103_KHOLAKHALI VILLAGE	100-KVA	KHOLAKHALI VILLAGE_100 KVA-11/0.415KV	TAIL END	50	0.2
45	ASKA	AED-II	BUGUDA	BALIPADAR	11KV- PANGIDI	ID-4391351_KHOLAKHOLI SHIV TEMPLE	63-KVA	KHOLAKHOLI SHIV TEMPLE_63 KVA-	TAIL END	50	0.2
46	ASKA	AED-II	BUGUDA	BUGUDA	11KV- GOLIA	ID-4390373_TALSARA	16-KVA	TALSARA_16-KVA	TAIL END	35	0.1
47	ASKA	AED-II	BUGUDA	BUGUDA	11KV- GOLIA	LACHHIPUR	250	LACHHIPUR_250-KVA	DSS TAIL END	95	0.2
48	ASKA	AED-II	K.S. NAGAR	BUDHAMBA	11KV-PAIKAJAMUNA	ID-4041573_PAIKAJAMUNA 1	100-KVA	PAIKAJAMUNA 1_100-KVA	TAIL END	50	0.00
49	JEYPORE	JED	JESD-1	JYP 3	JEYPORE NO 1	TP LANE	250	TP LANE	TP LANE	95	0.3
50	JEYPORE	JED	JESD-2	NO-I	TOWN	PRINCESS DP	250	TRAFIC CHAK	GURUDWAR	50	0.3
51	JEYPORE	JED	JESD-2	RANDAPALI	AMBAGUDA	AMBAGUDA	250	ANUMAN TEMPL	NEW COLONY END	50	0.5
52	JEYPORE	JED	JESD-1	JYP 3	KORAPUT	BABU SUNARI	100	DSS	4TH LANE	50	0.5
53	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	SAHUPADA	SAHUPADA OLIC	63	KHAIRMAL CHAWK	RIVER	35	0.1
54	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	KANTAMAL MEDICAL	MEDICAL	25	MEDICAL	MEDICAL	50	0.3
55	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	AMBAGAON	UMA	63	SCHOOL	VILLAGE END	50	0.3
56	BHANJANAGAR	BOED	BOUDH	BOUDH	BADHINGAON	BANDHAPATHAR	63	DSS	VILLAGE END	50	0.2

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
57	BHANJANAGAR	BOED	BOUDH	BOUDH	OLONDA	NUAPALI	25	DSS	VILLAGE END	50	0.2
58	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	BAUNSUNI	OLD SBI	63	SUB-STATION	THANA CHAWK	50	0.1
59	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	KAMALPUR	SAHAJPAL	250	SUB-STATION	VILLAGE END	95	0.1
60	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	DHALPUR	MALLIKPADA	63	MALLIKPADA	VILLAGE END	50	0.2
61	ASKA	AED-I	ASKA	DHARAKOTE	NUAGADA	NUAGADA HIGH SCHOOL	100	S/S	NUAGADA TALA SAHI	50	0.3
62	ASKA	AED-I	ASKA	DHARAKOTE	JHARAPARI	KANTEIKOLIAPALLI	25	S/S	VILLAGE END	35	0.3
63	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	CHERAMARIA	100			50	0.1
64	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	NALABANTA	100	NALABANTA BAURI SAHI 100KVA DTR	NURSINGHA MANDIR BACK SIDE	50	0.1
65	ASKA	AED-I	NUAGAM	NUAGAM-II	MUKUNDAPUR	GUDRIBADI	100	DTR	HARIJANA SAHI	50	0.1
66	ASKA	AED-I	NUAGAM	NUAGAM-II	MUKUNDAPUR	TANKACHAII	100+100KVA	BADA DANDA SAHI	TANKACHAII CHAKK	50	0.1
67	ASKA	AED-I	NUAGAM	NUAGAM-1	COLLEGE SQ	VR PALLI	250	VR PALLI KOTHAGHARA SQ.	HARIJANA SAHI	50	0.1
68	ASKA	AED-I	NUAGAM	NUAGAM-1	BHETANAI	BHETANAI VILLAGE	315	FROM S/S	RAM TEMPLE	95	0.1
69	ASKA	AED-I	NUAGAM	NUAGAM-1	BHETANAI	BHEJIPUT	100	DSS	INSIDE VILLAGE	50	0.1
70	ASKA	AED-I	NUAGAM	NUAGAM-1	COLLEGE SQ	COUDHURY NAGAR	100	DSS	BRUNDABAN NAGAR	50	0.1

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
71	ASKA	AED-I	ASKA	BALISIRA	GUNTHAPADA	GUNTHAPADA	100	VILLAGE END		50	0.1
72	ASKA	AED-I	ASKA	BALISIRA	GANGAPUR	BHALIAPALLI	100 KVA	VILLAGE END		50	0.1
73	ASKA	AED-I	ASKA	BALISIRA	BALISIRA	BALISIRA	100 + 100 KVA	VILLAGE END		50	0.1
74	JEYPORE	MED	BALIMELA	BALIMELA	K.GUMMA TOWN	BLOCK COLONY	100	OLD BLOCK COLONY	RAJA SAHI	50	0.3
75	JEYPORE	MED	BALIMELA	MATHILI	PANGAM	PAGAMSCHOOL	63	MAIN ROAD	SCHOOL	35	0.2
76	JEYPORE	MED	BALIMELA	MATHILI	GOVINDPALI	MARKET	250	BADADURAL CHHAK	HIGH SCHOOL	50	0.3
77	JEYPORE	MED	BALIMELA	MATHILI	MENDUKULI	KENDUGUDA	25	MAIN ROAD	VILLAGE END	35	0.1
78	JEYPORE	MED	MALKANGIRI	MALKANGIRI	PADMAGIRI	PADMAGIRI	100	BUSSTAND	VILLAGE END	50	0.3
79	JEYPORE	MED	MALKANGIRI	KALIMELA	MV-79	MV-79	100KVA	DTR	STREET	50	0.3
80	BERHAMPUR	PSED	PURUSHOTTAMPUR	P S PUR	B N PUR	GOPALPUR	100	SUB-STATION	SAHI	50	0.2
81	BERHAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	SUNATHARA	SHIVA TEMPLE	25	KESHPUR CHAKA	PLIPOINT	50	0.25
82	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	RAM MANDIR	100	ETA FACTORY	JOGYNDRA SWAIN LI	50	0.07
83	BERHAMPUR	PSED	POLASARA	POLASARA	BELGAON	DIMIRIA	100	SIVA MANDIR CHAWK	HARI SAHU OLI	50	0.3
84	BERHAMPUR	PSED	KODALA	KODALA	OLD GUDIALI	25 KVA DHOBABANIA	25	DSS	VILLAGE END	35	0.3

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
85	BERHAMPUR	PSED	KODALA	BEGUNIAPADA		SANKHABHUMI	63	DSS	SANKHABHUMI	50	0.2
86	BERHAMPUR	PSED	POLOSARA	CHIRIKIPADA	BARTINI	PRANADEIPUR	63	DP	ANIKAT	50	0.2
87	RAYAGADA	PKED	MOHANA	CHANDRAGIRI	CHANDRAGIRI	250KVA, MAHENDRAGADA	250KVA	COLONY MARKET	COLONY END	35	0.3
88	RAYAGADA	PKED	MOHANA	CHANDRAGIRI	PITAPANI	CHANDIPUT	100KVA	CHRISTIAN SAHI	CHRISTIAN SAHI	35	0.3
89	RAYAGADA	PKED	KASINAGAR	KASINAGAR	HADUBHANGI	HADUBHANGI	500			50	0.5
90	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-1	KATIKIYA	100	DSS	VIKENTESH TEMPLE & SAHI NAGAR CHAWK	50	0.6
91	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-1	VIKENTESH TEMPLE	500	DSS	KARANA STREET CHAWK	95	0.1
92	RAYAGADA	PKED	UPPALADA	GARABANDHA	GARABANDHA	INDIAN BANK	315	POLICE STATION	KAJU FACTORY	50	0.5
93	BERHAMPUR	HED	HINJILICUT	KANCHURU	BADAKHANDI	SAMARHOL VILLAGE100 KVA GOLIAGHAI NAYAK	100 KVA	GOLIAGHAI S/S	NAYAK SAHI	50	0.3
94	BERHAMPUR	HED	HINJILICUT	KANCHURU	BADAKHANDI	MOHANAPALI NEAR DSS	100 KVA	NEAR DSS	TOWARDS VILLAGE	50	0.2
95	BERHAMPUR	HED	HINJILICUT	KANCHURU	BADAKHANDI	MAKARJHOLA 250+100	250KV+100K VA	DSS	BADA SAHI CHHOWK	50	0.4
96	BERHAMPUR	HED	HINJILICUT	KANCHURU	BADAKHANDI	MAKARJHOLA 250+100	250KV+100K VA	KUMBHAR SHI	DANDASI SAHI	50	0.1
97	BERHAMPUR	HED	SHERAGADA	SHERAGADA	MANIKPUR	25 KVA DURGAMADHABPUR	25	DTR TO	VILLAGE	50	0.4
98	BERHAMPUR	HED	SHERAGADA	KONKARADA	KURULA	KARAKHANDI DHOBA SAHI	100	KARAKHANDI DHOBA SAHI 100 KVA DSS	KARAKHANDI SCHOOL	35	0.3

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
99	JEYPORE	NED	NABARANGPUR	NPUR NO-I	NPUR NO-I	GANDHI NAGAR	2X100	NEAR RMC	LAXHMI TRADERS	50	0.2
100	JEYPORE	NED	NABARANGPUR	NPUR NO-I	NPUR NO-I	MAA MANGALA	250+100	NEAR RABI PATANAIK MILL	GANDHI CHOWK	50	0.3
101	JEYPORE	NED	NABARANGPUR	NPUR NO-I	NPUR NO-I	GORAMUNDA	100	SUNARI STREET	DAILY OLD MARKET	50	0.3
102	JEYPORE	NED	NABARANGPUR	NPUR NO-I	NPUR NO-II	NUABANDHA SAHI	500	SANTARA SAHI	NUABANDHA SAHI GALI	95	0.2
103	JEYPORE	NED	NABARANGPUR	NPUR NO-I	NPUR NO-I	DASAHARA PADA	100	PODALGODA ROAD	MAIN MEDICAL ROAD	50	0.4
104	JEYPORE	NED	NABARANGPUR	NPUR NO-I	NPUR NO-II	PADALGUDA	100	DSS	PODALGUDA COLONY	35	0.1
105	JEYPORE	NED	NABARANGPUR	NABARANGPUR RURAL	B.MALIGUDA	TURUNJIAGUDA	63	MAIN ROAD	MAIN ROAD	35	0.4
106	JEYPORE	NED	PAPADAHANDI	DABUGAM	TOWN	TOWN	250/100 KVA	BUS STAND	BUS STAND	50	0.3
107	CITY	BED-I	GOPALPUR	BHANJABIHAR	DURA	GANAPATI DHABA	100	FROM DSS	HIGHWAY MOTOR SHOP	50	0.3
108	CITY	BED-I	GOPALPUR	BHANJABIHAR	GAUNJU	NADIA TOTA SAHI	100	MAIN ROAD	PANDA COLONY	50	0.1
109	CITY	BED-I	GOPALPUR	BHANJABIHAR	GAUNJU	MISHRAPALLI	100	FROM DSS	MISHRAPALLI	50	0.2
110	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANTANA	HILLPATANA 3RD LINE	500	SS	SCHOOL	50	0.5
111	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TOWN HALL	CANAL STREET	250	DSS	CANAL STREET	95	0.2
112	CITY	BED-III	SDO-IV	KUKUDAKHANDI	ANKUSHPUR	NUA SAHI	100	NUA SAHI VILLAGE	NUA SAHI VILLAGE	50	0.3

LOCATION OF BARE TO ABC CONVERSION

SL.NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUBDIVISION	NAME OF SECTION	NAME OF 11 KV FEEDER	DSS NAME (GIS ID-GIS NAME OF DTR)	RATING OF DSS IN KVA	LOCATION FROM	LOCATION TO	CABLE SIZE (SQ.MM)	PROPOSED CKT. KM
113	CITY	BED-III	SDO-IV	KUKUDAKHANDI	ANKUSHPUR	ANKUSHPUR MAIN	100	ANKUSHPUR MEDICAL AREA	ANKUSHPUR MEDICAL AREA	50	0.3
114	CITY	BED-III	SDO-IV	LATHI	BALIPADA	TIKARPADA	63	HARIJAN SAHI	HARIJAN SAHI	50	0.5
115	CITY	BED-III	KANIS	JAGAPUR	SOROLA	KAITHA	63	KAITHA	KAITHA	35	0.3
116	CITY	BED-III	KANISI	JAGAPUR	SURALA	KAITHA	63 KVA	ANUMAN STATU	CHILIKA ROAD	35	0.1
117	CITY	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	DASAGHARIA	250	DSS	ADARSHA MARG	95	0.2
118	CITY	BED-II	SSD-III	GOSANINUAGAON	GOSANINUAGAON	KC HIGH SCHOOL	500	DSS	NEHURNAGAR 7TH LINE	95	0.1
119	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	SHYAMASUNDARPUR	GHUMUSARA	25KVA	DTR	STREET	35	0.3
120	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	TOWN FEEDER	SWASTYAPURI 100KVA	100KVA	DTR	STREET	50	0.6
121	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	TOWN FEEDER	NEW STREET	315KVA	DTR	STREET	95	0.1
122	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	TOWN FEEDER	BLOCK 100KVA	100KVA	DTR	STREET	50	0.5
123	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	POLICE STATION	INFRONT OF KHALLIKOTE PSS	100KVA	DTR	STREET	50	0.2

LOCATION OF PSS REFURBISHMENT

SR NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF PSS
1	BERHAMPUR	GNED	GANJAM
2	BERHAMPUR	GNED	RAMBHA
3	BERHAMPUR	GNED	KHALLIKOTE
4	BERHAMPUR	PSED	PURSHOTTAMPUR
5	BERHAMPUR	PSED	TARATARINI
6	BERHAMPUR	PSED	KODALA
7	BERHAMPUR	PSED	BEGUNIAPADA
8	BERHAMPUR	PSED	POLASARA
9	BERHAMPUR	HED	HINJILI
10	BERHAMPUR	HED	SHERAGADA
11	BERHAMPUR	HED	ADAPADA
12	CITY	BED-1	BHANJABIHAR
13	CITY	BED-1	NARENDRAPUR
14	CITY	BED-1	GOODSHED
15	CITY	BED-1	NEW MEDICAL
16	CITY	BED-1	MEDICAL
17	BHANJANAGR	BNED	BHEJIPUT
18	BHANJANAGR	BOED	CHARI CHAKA
19	BHANJANAGR	PED	G UDAIGIR
20	BHANJANAGR	PED	KHAJULIPARA
21	BHANJANAGR	BOED	MANMUNDA
22	BHANJANAGR	PED	PHULBANI
23	BHANJANAGR	PED	SANKARAKHOL
24	BHANJANAGR	BNED	SORODA
25	BHANJANAGR	PED	TIKABALI
26	BHANJANAGR	BNED	TILISINGI
27	ASKA	AED-II	BALIPADAR
28	ASKA	AED-I	NUAGAON
29	ASKA	AED-II	KS NAGAR
30	ASKA	AED-II	BUDHAMBA
31	ASKA	AED-II	BUGUDA
32	ASKA	AED-I	BALISIRA
33	ASKA	AED-I	DHARAKOT
34	JEYPORE	JED	DANGAGUDA
35	JEYPORE	JED	BOIPARIGUDA
36	JEYPORE	JED	RANDAPALI
37	JEYPORE	JED	KUNDRA
38	JEYPORE	JED	BORIGUMA
39	JEYPORE	JED	B SINGPUR
40	JEYPORE	MED	BALIMELA
41	JEYPORE	KED	OLD KORAPUT
42	JEYPORE	KED	KOLAB
43	JEYPORE	KED	BILEIGUDA

SR NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF PSS
44	JEYPORE	KED	ANLABADI
45	JEYPORE	KED	NARAYANPATNA
46	JEYPORE	KED	BANDHUGAON
47	JEYPORE	NED	NABARANGPUR
48	JEYPORE	NED	UMERKOTE
49	JEYPORE	NED	RAIGHAR
50	JEYPORE	NED	DABUGAON
51	JEYPORE	MED	KALIMELA
52	RAYAGADA	PKED	PARALAKHEMUNDI NEW
53	RAYAGADA	PKED	PARALAKHEMUNDI OLD
54	RAYAGADA	PKED	KASINAGAR
55	RAYAGADA	PKED	KHANDVA
56	RAYAGADA	PKED	KHARADA
57	RAYAGADA	PKED	GUMMA
58	RAYAGADA	PKED	UPALADA
59	RAYAGADA	PKED	GARABANDHA
60	RAYAGADA	PKED	SOBARA
61	RAYAGADA	PKED	JEERANGO(TAPING FROM RAMGIRI)
62	RAYAGADA	PKED	RAIGADA
63	RAYAGADA	PKED	CHHELIGADA
64	RAYAGADA	PKED	R.UDAYGIRI
65	RAYAGADA	PKED	NUAGADA
66	RAYAGADA	PKED	BADAPADA
67	RAYAGADA	PKED	MOHANA
68	RAYAGADA	PKED	CHANDRAGIRI
69	RAYAGADA	PKED	ADABA
70	RAYAGADA	RED	MITS FOOD PARK
71	CITY	BED-2	N K NAGAR
72	CITY	BED-2	AMBAGADA
73	CITY	BED-3	KUKUDAKHANDI

Location Sl No. 11

LOCATION OF BATTERY REQUIREMENT AT PSS

Sr No.	NAME OF CIRCLE	NAME OF DIVISION	PSS NAME	DC VOLTAGE (IN V)	REQUIREMENT 150 AH
1	CITY	BED-1	OLD MEDICAL	24	2
2	CITY	BED-1			2
3	CITY	BED-1	AMBAPUA	24	2
4	CITY	BED-1	ANKULI	24	2
5	CITY	BED-1	GOODSHED	24	2
6	CITY	BED-1	GOPALPUR	48	4
7	CITY	BED-1	BHANJABIHAR	24	2
8	CITY	BED-1			2
9	CITY	BED-1	NARENDRAPUR	24	2
10	CITY	BED-2	AMBAGADA	24	2
11	CITY	BED-2	LOCHAPADA	24	2
12	CITY	BED-2	CORPORATION ROAD	24	2
13	CITY	BED-2	NK NAGAR	24	2
14	CITY	BED-3	KANISI	24	2
15	RAYAGADA	PKED	PKED NEW	24	2
16	RAYAGADA	PKED	ADAVA	48	4
17	RAYAGADA	GED	GUNUPUR	24	2
18	RAYAGADA	GED	PADAMPUR	24	2
19	RAYAGADA	GED	RAMANAGUDA	24	2
20	RAYAGADA	RED	AMLABHATA	48	4
21	RAYAGADA	RED	SERIGUDA	24	2
22	RAYAGADA	RED	BISSAM CUTTAK	24	2
23	RAYAGADA	RED	AUTONAGAR	24	2
24	RAYAGADA	RED	SIKHARPAI	24	2
25	RAYAGADA	RED	MUNIGUDA	24	2
26	BERHAMPUR	PSED	TARATARINI PSS	24	2
27	BERHAMPUR	PSED	POLASARA PSS	24	2
28	BERHAMPUR	PSED	BALIA PRATAPPUR PSS	48	4
29	BERHAMPUR	HED	HINJILI PSS	24	2
30	BERHAMPUR	HED	GANDALA PSS	24	2
31	BERHAMPUR	HED	SHERAGADA PSS	24	2
32	BERHAMPUR	HED	ADAPADA PSS	24	2
33	BERHAMPUR	GNED	CHATRAPUR	24	2
34	BERHAMPUR	GNED	RAMACHANDRAPUR	24	2
35	BERHAMPUR	GNED	RAMBHA	24	2
36	BERHAMPUR	GNED	TITIPA	24	2
37	BERHAMPUR	GNED	MALUD	24	2
38	BERHAMPUR	GNED	GANJAM	24	2
39	JEYPORE	JED	BORIGUMMA	24	2
40	JEYPORE	JED	DANGAGUDA	24	2
41	JEYPORE	JED	KOTPAD	24	2
42	JEYPORE	JED	LAMTAPUT	24	2
43	JEYPORE	JED	NEW BUS STAND	24	2
44	JEYPORE	JED	OLD CONTROL ROOM	24	2
45	JEYPORE	JED	RANDAPALLI	24	2
46	JEYPORE	NED	CHANDAHANDI	24	2
47	JEYPORE	NED	DHODRA	48	4
48	JEYPORE	NED	DUMURIMUNDA	48	4
49	JEYPORE	NED	JHODINGA	48	4

50	JEYPORE	NED	KOSAGUMUDA	24	2
51	JEYPORE	NED	NABARANGPUR	24	2
52	JEYPORE	NED	RAIGARH	24	2
53	JEYPORE	NED	PODAGAD (KHATIGUDA)	24	2
54	JEYPORE	NED	UMERKOTE	24	2
55	JEYPORE	KED	KORAPUT OLD	24	2
56	JEYPORE	KED	SUNABEDA	24	2
57	JEYPORE	KED	LAXMIPUR	24	2
58	JEYPORE	KED	NANDAPUR	24	2
59	JEYPORE	KED	OMP	24	2
60	JEYPORE	KED	POTTANGI	24	2
61	JEYPORE	MED	MALKANGIRI	24	2
62	JEYPORE	MED	PANDRIPANI	24	2
63	JEYPORE	MED	KALIMELA	24	2
64	JEYPORE	MED	MATHILI	24	2
65	JEYPORE	MED	BALIMELA	24	2
66	ASKA	DIGHAPANDI	DIGHAPANDI	24	2
67	ASKA	DIGHAPANDI	PUDAMARI	24	2
68	ASKA	DIGHAPANDI	BHISMAGIRI	24	2
69	ASKA	DIGHAPANDI	DEKHALI	24	2
70	ASKA	DIGHAPANDI	CHIKTI	24	2
71	ASKA	DIGHAPANDI	PATRAPUR	24	2
72	ASKA	DIGHAPANDI	JARADA	48	4
73	ASKA	AED-1	ASKA	24	2
74	ASKA	AED-1	JAHADA	48	4
75	ASKA	AED-1	BALISIRA	24	2
76	ASKA	AED-1	NUAGAM	24	2
77	ASKA	AED-2	KS NAGAR	24	2
78	ASKA	AED-2	BUDHAMBA	24	2
79	ASKA	AED-2	BUGUDA	24	2
80	BHANJANAGAR	PED	PHULBANI	24	2
81	BHANJANAGAR	PED	DAHAPADAR	48	4
82	BHANJANAGAR	PED	PHIRINGIA	24	2
83	BHANJANAGAR	PED	BALIGUDA	24	2
84	BHANJANAGAR	PED	G. UDAYAGIRI	24	2
85	BHANJANAGAR	BNED	LALSINGI PSS	24	2
86	BHANJANAGAR	BNED	JN PRASAD PSS	24	2
87	BHANJANAGAR	BNED	BANKA PSS	48	4
88	BHANJANAGAR	BNED	DAHA PSS	48	4
89	BHANJANAGAR	BNED	ASURABANDHA PSS	48	4
90	BHANJANAGAR	BNED	BADAGADA PSS	24	2
91	BHANJANAGAR	BOED	BOUDH	24	2
92	BHANJANAGAR	BOED	BAUNSUNI	24	2
93	BHANJANAGAR	BOED	MANMUNDA	24	2

TOTAL ESTIMATD EXPENDITURE

BATTERY TYPE	TOTAL QTY.	UNIT COST IN RS.	TOTAL COST. RS. IN CR.
48 V 150 AH SET	52 NOS.	82,647.78	0.51
24 V 150 AH SET	160 NOS.	41,521.98	0.78
		TOTAL	**1.29**

DIVISION WISE BREAKUP

Sr No	DIVISION	24 V 150 AH	48 V 150 AH
1	AED-1	6	4
2	AED-2	6	
3	GSED	12	4
4	GNED	12	
5	HED	8	
6	PSED	4	4
7	BNED	6	12
8	BOED	6	
9	PED	8	4
10	BED-1	16	4
11	BED-2	8	
12	BED-3	2	
13	JED	14	
14	KED	12	
15	MED	10	
16	NED	12	12
17	GED	6	
18	PKED	2	4
19	RED	10	4
GRAND TOTAL		160	52

Location Sl No. 12

LOCATION OF RELAY REQUIREMENT AT PSS

SL. NO.	NAME OF CIRCLE	TYPE OF RELAY	REQUIRED QTY.	NAMES OF PSS ALONG WITH BIFURCATION OF QTY.	TOTAL
1	BERHAMPUR	OCEF	4	ADAPADA, KHALLIKOTE,SHERAGADA, TARA TARINI (1 NO. IN EACH PSS)	4
2	BERHAMPUR	DIFFERENTIAL	4	ADAPADA, KHALLIKOTE,POLASARA, TARA TARINI (1 NO. IN EACH PSS)	4
3	BERHAMPUR	DIFFERENTIAL	4	CHATRAPUR, GANDALA, GANJAM, HINJLI (1 NO. IN EACH PSS)	4
4	BERHAMPUR	OC/EF	2	BEGUNIAPADA, KODALA(1 NO. IN EACH PSS)	2
5	BERHAMPUR	OC/EF	4	S.AMBAGAON, BALIA, BAULAGAON, SAKIRI ((1 NO. IN EACH PSS))	4
6	BERHAMPUR	OC/EF	4	S.AMBAGAON, BALIA, BAULAGAON, SAKIRI ((1 NO. IN EACH PSS))	4
7	BERHAMPUR	OC/EF	2	HINJLI PSS(2 NO.S)	2
8	BERHAMPUR	OC/EF	4	MALUD,RAMBHA,RAMCHANDRAPUR,TITIPA(1 NO.IN EACH PSS)	4
9	CITY	OCEF	5	BHANJABIHAR(2),NARENDRAPUR(2),NEWMEDICAL(1)	5
10	CITY	DIFFERENTIAL	4	BHANJABIHAR(1),NARENDRAPUR(1),JAGAPUR(1),KUKUDAKHANDI(1)	4
11	CITY	DIFFERENTIAL	4	MEDICAL(2),CORPORATIONROAD(1),KANISI(1)	4
12	CITY	OC/EF	3	KUKUDAKHANDI,LATHI,JAGAPUR(EACH 1)	3
13	CITY	OC/EF	4	NIMAKHANDI(2),MANTRIDI(2)	4
14	CITY	OC/EF	4	NIMAKHANDI(2),MANTRIDI(2)	4
15	CITY	OC/EF	1	DURA	1
16	CITY	OC/EF	2	DURA	2
17	BNED, BHANJANAGAR	OCEF	4	BADAGADA- 8 NOS, JN PRASAD- 9 NOS	4
18	BNED, BHANJANAGAR	DIFFERENTIAL	3	LALSINGH- 2 NOS, BADAGADA- 2 NOS, JN PRASAD- 3 NOS, TILISINGH - 2 NOS	3
19	BNED, BHANJANAGAR	OC/EF	2	TILISINGH- 8 NOS	2
20	BNED, BHANJANAGAR	OC/EF	4	LALSINGH - 8 NOS, KB PUR- 2 NOS	4

SL. NO.	NAME OF CIRCLE	TYPE OF RELAY	REQUIRED QTY.	NAMES OF PSS ALONG WITH BIFURCATION OF QTY.	TOTAL
21	BNED, BHANJANAGAR	OC/EF	2	BHEJIPUT - 2 NOS, KANTEIPALLY -1 NO, BELAGUNTHA- 2 NOS	2
22	BNED, BHANJANAGAR	OC/EF	4	KANTEIPALLY- 5 NOS, BD PUR- 5 NOS	4
23	BNED, BHANJANAGAR	OC/EF	3	KANTEIPALLY- 3 NOS., BD PUR- 4 NOS	3
24	BNED, BHANJANAGAR	OC/EF	1	KANTEIPALLY- 1 NO.	1
25	BNED, BHANJANAGAR	OC/EF	1	SORODA - 1 NO.	1
26	PED, BHANJANAGAR	OCEF	6	PHULBANI, BALIGUDA, G.UDAYGIRI, KHAJURIPADA, PHIRINGIA, CHAKAPADA, TUMDIBONDHA, KOTAGADA	6
27	PED, BHANJANAGAR	DIFFERENTIAL	5	PHULBANI, BALIGUDA, G.UDAYGIRI, KHAJURIPADA, PHIRINGIA, CHAKAPADA, TUMDIBONDHA, KOTAGADA, RAIKIA, K-NUAGAON, DARINGBADI, SANKARAKHOL, TIKABALI, KALINGA	5
28	PED, BHANJANAGAR	OC/EF	5	A, K-NUAGAON, DARINGBADI, SANKARAKHOL, TIKA	5
29	PED, BHANJANAGAR	OC/EF	2	KALINGA PSS	2
30	BOED, BHANJANAGAR	OCEF	2	BOUDH PSS-(12)	2
31	BOED, BHANJANAGAR	DIFFERENTIAL	2	BOUDH(3) ,KANTAMAL(2),MANMUNDA(3)+BAUNSUNI(2)+CHHATRANGA (2)CHARICHHAK (1)JANAHAPANKH-(2)-TOTAL-15	2
32	BOED, BHANJANAGAR	OC/EF	5	KANTAMAL(9)+MANMUNDA(13)+CHHATRANGA(9) +JANHAPANKH(7)+CHARICHHAK(8)-TOTAL-46	5
33	BOED, BHANJANAGAR	OC/EF	1	BAUNSUNI-9	1
34	JED, JEYPORE	OCEF	4	KOTPAD, BORIGUMMA	4
35	JED, JEYPORE	DIFFERENTIAL	6	RANDAPALLI, DONGAGUDA, BOIPARIGUDA, B SINGHPUR, KUNDRA, KUSUMI, BORIGUMMA, KOTPAD	6
36	JED, JEYPORE	DIFFERENTIAL	4	NEW BUS STAND, OLD CONTROL ROOM	4
37	JED, JEYPORE	OC/EF	6	DONGAGUDA, BOIPARIGUDA, B SINGHPUR, KUNDRA, KUSUMI	6

SL. NO.	NAME OF CIRCLE	TYPE OF RELAY	REQUIRED QTY.	NAMES OF PSS ALONG WITH BIFURCATION OF QTY.	TOTAL
38	JED, JEYPORE	OC/EF	4	OLD CONTROL ROOM, NEW BUS STAND, RANDAPALLI	4
39	JED, JEYPORE	OC/EF	4	RANDAPALLI	4
40	KED, JEYPORE	OCEF	4	LAXMIPUR,OMP	4
41	KED, JEYPORE	DIFFERENTIAL	10	LAXMIPUR,OMP,BILEIGUDA,KAKIRIGUMA,N.PATNA ,BANDHUGAON,NANADHAPUR, ANALABADI	10
42	KED, JEYPORE	DIFFERENTIAL	4	KORAPUT OLD ,SUNABEDA,BILEIGUDA	4
43	KED, JEYPORE	DIFFERENTIAL	1	BILEIGUDA	1
44	KED, JEYPORE	OC/EF	8	BILEIGUDA,KAKIRIGUMA,N.PATNA,BANDHUGAON, NANADHAPUR, ANALABADI	8
45	KED, JEYPORE	OC/EF	4	KORAPUT OLD ,SUNABEDA,BILEIGUDA	4
46	NED, JEYPORE	OCEF	2	NABRANGPUR-1,UMERKOTE-1	2
47	NED, JEYPORE	DIFFERENTIAL	8	KHATIGUDA-1,TENTILIKUNTI-1,DONGARBHEJA-1,PAPADAHANDI-1,TANDAGUDA-1, KOSAGUMDA-1,DABUGAON-1,JHARIGAON-1	8
48	NED, JEYPORE	DIFFERENTIAL	2	NABRANGPUR-1,UMERKOTE-1	2
49	NED, JEYPORE	OC/EF	8	KHATIGUDA-1,TENTILIKUNTI-1,DONGARBHEJA-1,PAPADAHANDI-1,TANDAGUDA-1, KOSAGUMDA-1,DABUGAON-1,JHARIGAON-1	8
50	PKED, RAYAGADA	OCEF	4	KHANDAVA PSS, KASHINAGAR PSS	4
51	PKED, RAYAGADA	DIFFERENTIAL	4	PKED NEW, PKED OLD, KASHINAGAR PSS, KHANDAVA PSS	4
52	PKED, RAYAGADA	OC/EF	4	NUAGADA PSS, RUDAYGIRI PSS, ADAVA PSS	4
53	PKED, RAYAGADA	OC/EF	4	NUAGADA PSS, RUDAYGIRI PSS, ADAVA PSS , SOBARA PSS	4
54	PKED, RAYAGADA	OC/EF	2	MOHANA PSS, BADAPADA PSS,	2
55	RED, RAYAGADA	OCEF	2	MITS :1 NO., THERUBALI:1 NO.	2
56	RED, RAYAGADA	DIFFERENTIAL	1	MUNIGUDA:1 NO.	1
57	RED, RAYAGADA	DIFFERENTIAL	2	BISSAMCUTTAK :1 NO., SERIGUDA:1 NO.	2
58	RED, RAYAGADA	OC/EF	2	AMLABHATA:1 NO., RANIGUDA:1 NO.	2
59	RED, RAYAGADA	OC/EF	2	AMLABHATA:1 NO., RANIGUDA:1 NO.	2

SL. NO.	NAME OF CIRCLE	TYPE OF RELAY	REQUIRED QTY.	NAMES OF PSS ALONG WITH BIFURCATION OF QTY.	TOTAL
60	GED, RAYAGADA	OCEF	6	GUNUPUR:2 NO., PADMAPUR:2 NO., GUDARI:2 NO.	6
61	GED, RAYAGADA	DIFFERENTIAL	8	GUNUPUR:1 NO., PADMAPUR:1 NO., GUDARI:1 NO., MINAJHOLA:1 NO. ,RAMNAGUDA:1 NO. ,BIKRAMPUR:1 NO. ,UKUMBA:1 NO. ,GUMUDA:1 NO.	8
62	GED, RAYAGADA	DIFFERENTIAL	3		3
63	GED, RAYAGADA	OC/EF	5	MINAJHOLA:1 NO. ,RAMNAGUDA:1 NO. ,BIKRAMPUR:1 NO. ,UKUMBA:1 NO. ,GUMUDA:1 NO.	5
64	GED, RAYAGADA	OC/EF	4		4
65	GED, RAYAGADA	OC/EF	2	SIRIGUDA PSS	2
66	GED, RAYAGADA	OC/EF	1	SIRIGUDA PSS	1
67	AED-I & AED-II, ASKA	OCEF	6	KS NAGAR , NUAGAM, BUGUDA, DHARAKOTE PSS	6
68	AED-I & AED-II, ASKA	DIFFERENTIAL	3	KS NAGAR , NUAGAM,BUDHAMBA	3
69	AED-I & AED-II, ASKA	DIFFERENTIAL	1	ASKA PSS	1
70	AED-I & AED-II, ASKA	OC/EF	1	BALISIRA PSS	1
71	AED-I & AED-II, ASKA	OC/EF	1	BUDHAMBA PSS	1
72	AED-I & AED-II, ASKA	OC/EF	2	KHARIGUMA & PAIKAJAMUNA PSS	2
73	AED-I & AED-II, ASKA	OC/EF	2	KHARIGUMA & PAIKAJAMUNA PSS	2
74	GSED, ASKA	OCEF	2	DIGAPAHANDI,CHIKITI	2
75	GSED, ASKA	DIFFERENTIAL	3	DIGAPAHANDI,CHIKITI,PATRAPUR	3
76	GSED, ASKA	OC/EF	2	PUDAMARI,PATRAPUR	2
77	GSED, ASKA	OC/EF	2	BHISMAGIRI,DEKHALI	2
78	GSED, ASKA	OC/EF	3	SIDHESWAR,SURANGI,JARADA	3
79	GSED, ASKA	OC/EF	3	SIDHESWAR,SURANGI,JARADA	3

Location Sl No. 13

LOCATION OF EARTHING REQUIREMENT AT PSS

SR NO.	NAME OF CIRCLE	NAME OF DIVISION	PSS NAME
1	CITY	BED-I	DURA RAMACHANDRAPUR
2	CITY	BED-III	JAGAPUR
3	CITY	BED-III	KUKUDAKHANDI
4	BERHAMPUR	GNED	HUMMA
5	BERHAMPUR	GNED	RAMACHANDRAPUR
6	BERHAMPUR	PSED	PANDIA/ PS PUR
7	BERHAMPUR	PSED	POLOSARA
8	BERHAMPUR	HED	ADAPADA
9	BERHAMPUR	GNED	KESHPUR
10	BERHAMPUR	HED	SHERAGADA
11	BERHAMPUR	GNED	KHALLIKOTE
12	BERHAMPUR	PSED	KODALA
13	BERHAMPUR	HED	HINJILI
14	ASKA	AED-I	NUAGAON
15	ASKA	AED-II	BALIPADAR
16	ASKA	AED-II	BUDHAMBA
17	ASKA	AED-II	DHARAKOTE
18	ASKA	AED-II	K.S.NAGAR
19	ASKA	GSED	PATRAPUR
20	BHANJANAGAR	BNED	BHANJANAGAR
21	BHANJANAGAR	BNED	K. B. PUR
22	BHANJANAGAR	BNED	LALSING
23	BHANJANAGAR	BNED	SORADA
24	BHANJANAGAR	BNED	TILISINGI
25	BHANJANAGAR	BOED	BAUNSUNI
26	BHANJANAGAR	BOED	CHATRANGA
27	BHANJANAGAR	BOED	KANTAMAL
28	BHANJANAGAR	BOED	MANAMUNDA
29	BHANJANAGAR	PED	DARINGBADI
30	BHANJANAGAR	PED	K. NUAGAON
31	BHANJANAGAR	PED	KHAJURIPADA
32	RAYAGADA	GED GUNUPUR	GUMUDA
33	RAYAGADA	GED GUNUPUR	GUNUPUR
34	RAYAGADA	PKED	BRAHMANIGAM
35	RAYAGADA	PKED	CHHELIGADA
36	RAYAGADA	PKED	GARABANDHA
37	RAYAGADA	PKED	GUMMA
38	RAYAGADA	PKED	KHANDVA
39	RAYAGADA	PKED	MOHANA
40	RAYAGADA	PKED	PARAKHEMUNDI NEW
41	RAYAGADA	PKED	PARALAKHEMUNDI OLD
42	RAYAGADA	PKED	RAIGADA
43	RAYAGADA	PKED	UPALADA
44	RAYAGADA	RED RAYAGADA	KASIPUR
45	RAYAGADA	RED RAYAGADA	NUAPADA

SR NO.	NAME OF CIRCLE	NAME OF DIVISION	PSS NAME
46	RAYAGADA	RED RAYAGADA	SORISAPADAR
47	JEYPORE	JED	DANGAGUDA
48	JEYPORE	KED	ANALA BADI
49	JEYPORE	KED	BILEIGUDA/SEMILIGUDA
50	JEYPORE	KED	DASMANTPUR
51	JEYPORE	KED	KAKRIGUMA
52	JEYPORE	KED	KOLAB NAGAR
53	JEYPORE	KED	KORAPUT OMP
54	JEYPORE	KED	LAXMIPUR
55	JEYPORE	KED	NANDAPUR
56	JEYPORE	KED	POTTANGI
57	JEYPORE	KED	SUNABEDA
58	JEYPORE	NED	DABUGAON
59	JEYPORE	NED	JHARIGAM
60	JEYPORE	NED	KHATIGUDA
61	JEYPORE	NED	KOSAGUMUDA
62	JEYPORE	NED	NANDAHANDI/DONGERBHEJA
63	JEYPORE	NED	TANDAGUDA
64	JEYPORE	NED	TENTULIKHUNTI
65	JEYPORE	KED	KORAPUT OLD

Location Sl No. 14

LOCATION OF 33KV NEW LINE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	EXISTING LENGTH OF FEEDER (CKM)	LINK LINE LOCATION FROM	LINK LINE LOCATION TO	PROPOSED CONDUCTOR SIZE	PROPOSED COVERED CONDUCTOR	PROPOSED UNDER GROUND CABLE SIZE	LINK LINE LENGTH WITH BARE CONDUCTOR (CKM)	LINK LINE LENGTH WITH COVER CONDUCTOR (CKM)	LINK LINE LENGTH WITH UNDER GROUND CABLE (CKM) FOR EHV CROSSINGS/NH/RLY CROSSINGS	BAY REUIRED AT PSS (0/1)	33KV RMU REUIRED AT PSS (0/1)	33KV FOUR POLE WITH 2 NOS AB SWITCH REQUIRED (0/1)	NH CROSSING (Y/N)	RAILWAY CROSSING (Y/N)
1	ASKA	AED-I	NUGAM FEEDER	NUGAM PSS	ASKA PSS	148	148		3.5	1		1	1	1		
2	ASKA	GSED	PATRAPUR FEEDER	PITATLI PSS	PITATALI FOUR POLE STRUCTURE	148			0.8			1				
3	BERHAMPUR	GNED	CHATRAPUR FEEDER(2CKM)	CHATRAPUR GSS	CHATRAPUR PSS			UG 3CX400			2.5					
4	BERHAMPUR	HED	HINJLI- SHERAGADA 33KV (NEWLY CONSTRUCTED WIP)- 25KM	NEAR MJPUR	NEAR MJPUR	148			0.2					1		
5	BERHAMPUR	PSED	PANDIA(5CKM)	PANDIA PSS	BALIA (PRATAPUTR) PSS	148			9			1	1			
6	BHANJANAGAR	BNED	SORODA (23.53 CKM)	LATHIPADA LOCATION	BIBHUTIA LOCATION			UG 3CX400			0.4			1		
7	CITY	BED-1	AMBAPUA -2.5 CKM	NARENDRAPUR PSS	AMBAPUA PSS			UG 3CX400			2.5	1	1			
8	CITY	BED-1	MKCG EXPRESS,NARENDRAPUR GSS(30 CKM)	START POINT OG RLY CROSSINGS	END POINT OF RLY CROSSINGS			UG 3CX400			0.3			1		1
9	JEYPORE	JED	33 KV BOIPARIGUDA (79 CKM)	BALIA PSS	PALKAPUT LOCATION	148			1.5			1				
10	JEYPORE	JED	33 KV KUNDRA FEEDER (73 CKM)	NEAR KALIAGAON LOCATION	KALIAGAON PSS	148			0.1			1				
11	JEYPORE	JED	33 KV NABARANGPUR FEEDER (45 CKM)	CHALANGUDA PSS	BANABASI	148			0.5			1				
12	JEYPORE	JED	33 BORIGUMMA FEEDER (JAYANAGAR) (35 CKM)	KEBIDI PSS	KUDIGUDA	148			8	0	0	1				
13	JEYPORE	JED	33 KV NABARANGPUR FEEDER (45 CKM)	CHALANGUDA PSS	KAMTA PSS	148			12			2				
14	JEYPORE	JED	33 KV BOIPARIGUDA (79 CKM)	FP NEAR BOIPARIGUDA PSS	BOIPARIGUDA PSS	148			0.8			1				

LOCATION OF 33KV NEW LINE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	EXISTING LENGTH OF FEEDER (CKM)	LINK LINE LOCATION FROM	LINK LINE LOCATION TO	PROPOSED CONDUCTOR SIZE	PROPOSED COVERED CONDUCTOR	PROPOSED UNDER GROUND CABLE SIZE	LINK LINE LENGTH WITH BARE CONDUCTOR (CKM)	LINK LINE LENGTH WITH COVER CONDUCTOR (CKM)	LINK LINE LENGTH WITH UNDER GROUND CABLE (CKM) FOR EHV CROSSINGS/NH/RLY CROSSINGS	BAY REUIRED AT PSS (0/1)	33KV RMU REUIRED AT PSS (0/1)	33KV FOUR POLE WITH 2 NOS AB SWITCH REQUIRED (0/1)	NH CROSSING (Y/N)	RAILWAY CROSSING (Y/N)
15	JEYPORE	KED	MEDICAL FEEDER (22 CKM)	PODAGADA PSS FRONT	FOUR POLE OF MEDICAL FEEDER		148			0.25		1				
16	JEYPORE	KED	KPT MEDICAL FEEDER	MEDICAL FOUR POLE AT SLNH MEDICAL	NEW FOUR POLE BACK SIDE OF DIVISION OFFICE		148			1		0	1	1		
17	JEYPORE	MED	MALKANGIRI (DANIGUDDA)(30 CKM)	PUMPING STATION	4P STRUCTURE NEAR NH	148		UG 3CX400	4		0.1	0	1		1	
18	JEYPORE	NED	NEW FEEDER -1 FROM RAIGARH GSS	RAIGHAR GSS	RAIGHAR PSS	232		UG 3CX400	5.5		0.5	1				
19	RAYAGADA	PKED	KASINAGAR (40 CKM)	FP NEAR KHARADA PSS	KHARADA PSS	148			0.5			1				
20	RAYAGADA	PKED	PARLAKHEMUNDI (134 CKM)	FP NEAR CHANDRAGIRI PSS	CHANDRAGIRI PSS	148			0.5			1				
21	RAYAGADA	PKED	DARINGBADI (40 CKM)	FP NEAR ADAVA PSS	ADAVA PSS	148			0.5			1				
22	RAYAGADA	PKED	DARINGBADI (40 CKM)	4P STR NEAR PANIGANDA PSS	PANIGANDA PSS	148			0.5			1				
23	RAYAGADA	RED	SILIPUT FEEDER	KEUTAGUDA PSS	RAMPUR FOUR POLE	148			4			1				
24	JEYPORE	KED	OMP FEEDER	NEAR OMP PSS	OMP PSS	148						1				
25	BERHAMPUR	GNED	RAMBHA FEEDER	NEAR HUMMA PSS	HUMMA PSS	148						2				
26	BERHAMPUR	PSED	PANDI FEEDER	NEAR PANDIA (PURUSOTTAMPUR) PSS	PANDIA (PURUSOTTAMPUR) PSS	148						1				
27	BHANJANAGAR	BNED	KANTEIPALLI FEEDER	NEAR KANTEIPALLI PSS	KANTEIPALLI PSS	148						1				
28	BHANJANAGAR	BNED	SORODA FEEDER	NEAR SORODA PSS	SORODA PSS	148						1				

Location Sl No. 15

LOCATION OF 11KV NEW LINES

S.NO	NAME OF CIRCLE	NAME OF DIVISION	EXISTING 11 KV FEEDER	CATEGORY(LOAD BIFURCATION/LOAD SHIFTING/ROUTE DIVERSION/N-1)	LOCATION FROM-TO	TYPE	LENGTH (CKM)	NH CROSSING	RAILWAY CROSSING	NO. OF BAY REQUIRED	NO. OF RMU REQUIRED
1	ASKA	AED-I	NUAGAM	LOAD SHIFTING	INSIDE THE PSS	100	0.5	0	0	1	0
2	ASKA	AED-II	K S NAGAR TOWN	LOAD BIFURCATION	K S NAGAR PSS TO NAI SAHI	100	1	1	0	1	0
3	ASKA	AED-II	BUGUDA TOWN	LOAD BIFURCATION	BUGUDA PSS TO TOWARDS ADIPUR	100	1	0	0	1	0
4	ASKA	AED-II	GOLIA	LOAD BIFURCATION	INSIDE BUGUDA PSS	100	0.1	0	0	1	0
5	CITY	BED-III	TULU -SANSAPADAR	LOAD SHIFTING	PSS - NEAR AMIT HOSPITAL	100	2.5	0	0	0	1
6	CITY	BED-III	SOROLA	ROUTE DIVERSION	RAMAYAPANTA LIQUOR SHOP - RAMAYAPATNA VILLAGE	100	1	0	0	0	0
7	CITY	BED-III	SOROLA	ROUTE DIVERSION	ELIGAFIELD- BADHURPENTHA	100	1.5	0	0	0	0
8	CITY	BED-III	RANDHA-TULU	LOAD SHIFTING	TULU ROAD (RANDHA FEEDER) - PATNAYAK CRUSHER - NEAR BALMIRA INDUSTRIES	100	1.2	0	0	0	0
9	CITY	BED-III	SOROLA	ROUTE DIVERSION	AURASONEPUR CHOWK- KASIBISWANTHPUR HIGH SCHOOL SONEPUR	100	0.4	0	0	0	0
10	CITY	BED-II	CITY HOSPITAL	ROUTE DIVERSION	NEAR TRUCK UNION TO AUTO NAGAR 1ST LANE	148	1.8	0	0	0	0
11	CITY	BED-II	TULSI NAGAR	LOAD SHIFTING	CORPORATION ROAD PSS SOMNATH NAGAR	UG 3CX400	1	0	0	0	1
12	BHANJANAGAR	BNED	GANGAPUR(BHANJANAGAR)	ROUTE DIVERSION	DHUDHUA KALI TEMPLE - DHUDHUA BYPASS	100	1	0	0	0	0
13	BHANJANAGAR	BNED	BAIPALI-SANAKODANDA	N-1	RAIPALII-MAHAGUDA	100	0.8	0	0	0	0
14	BHANJANAGAR	BNED	GANGAPUR(BHANJANAGAR)	ROUTE DIVERSION	SANAPATHARA- JAGANNATH RICE MILL	100	0.5	0	0	0	0
15	BHANJANAGAR	BNED	SORODA TOWN-LATHIPADA	N-1	HADI SAHI -SANA SORODA	100	0.3	0	0	0	0
16	RAYAGADA	GED	PADMAPUR	LOAD BIFURCATION	PADMAPU PSSR TO SUNARGHAI CHAKK TO KHAMBAPADAR RAOD TO MASANI TO INDRANAGAR TO INDRANAGAR	100	4.2	0	0	1	0
17	BERHAMPUR	GNED	KHANDADEULI MEDICAL	LOAD SHIFTING	KHANDADUELI-BIRULIGADA/PATAPUR	100	1.3	0	0	0	0
18	ASKA	GSED	DUMULA	ROUTE DIVERSION	33/11 PSS TO LINE AB SWITCH ON 11 KV DUMULA FEEDER	100	1.5	1	0	0	0
19	BERHAMPUR	HED	PITALA	LOAD BIFURCATION	PODINGI PSS TO NARSHINGHA MANDIR	100	0.5	0	0	1	0
20	BERHAMPUR	HED	ANKORADA-SAHASPUR	LOAD SHIFTING	JALAMARA TO PALASPUR BRIDGE	100	0.25	0	0	0	0
21	JEYPORE	JED	KHADAPA	ROUTE DIVERSION	SALPA SCHOOL TO SALPA RWSS	100	1.5	0	0	0	0

LOCATION OF 11KV NEW LINES

S.NO	NAME OF CIRCLE	NAME OF DIVISION	EXISTING 11 KV FEEDER	CATEGORY(LOAD BIFURCATION/LOAD SHIFTING/ROUTE DIVERSION/N-1)	LOCATION FROM-TO	TYPE	LENGTH (CKM)	NH CROSSING	RAILWAY CROSSING	NO. OF BAY REQUIRED	NO. OF RMU REQUIRED
22	JEYPORE	JED	KHADAPA	ROUTE DIVERSION	BADAJEUNA TO BADAJIUNA VILLAGE	100	0.8	0	0	0	0
23	JEYPORE	JED	NO-2	ROUTE DIVERSION	VD COLLEGE TO MAIN ROAD	100	0.25	0	0	0	0
24	JEYPORE	JED	TOWN	ROUTE DIVERSION	PSS TO LIC OFFICE	100	0.1	0	0	0	0
25	JEYPORE	KED	DASMANTAPUR-GIRLIGUMA	LOAD BIFURCATION	DASMANTPUR PSS TO CHIKAMBO	100	4	0	0	1	0
26	JEYPORE	KED	POTTANGI-SUNKI	LOAD BIFURCATION	POTTANGI PSS TO PADALGUDA & SATRAI12 63KVA TO TANGIRI 19 25 KVA	100	4	0	0	1	0
27	JEYPORE	KED	KORAPUT NO-2 & PODAGADA NO-2 FEEDER	LOAD SHIFTING	NEAR CHINDI, CHINDRI TO MANBAR	100	3.2	0	1	0	0
28	JEYPORE	KED	DASMANTAPUR-LULLA	FEEDER SEGREGATION	DASMANTPUR PSS TO HTJ4303-9/66	100	3	0	0	1	0
29	JEYPORE	KED	KORAPUT NO-3 & NEW FEEDER FROM OMP PSS	LOAD SHIFTING	NEAR RAILWAY STATION	100	2.4	0	1	1	0
30	JEYPORE	KED	LAXMIPUR-CHAMPI-LAXMIPUT TOWN	LOAD SHIFTING	LAXMIPUR RAILWAY STATION CHHAK TO SULACHANA NAGAR	100	1.2	1	0	0	0
31	JEYPORE	KED	NARAYANPTNA-BALIPETA	FEEDER SEGREGATION	NARAYANPATNA PSS-PALAPUT	100	2	0	0	1	0
32	JEYPORE	KED	DASMANTAPUR-KUNTESH-DASMANTPUT TOWN	LOAD SHIFTING	GOUDABARIKANTA(10) 25KVA TO GOUDABARIKANTA(01) 25 KVA	100	1.2	0	0	0	0
33	JEYPORE	KED	KORAPUT NO-1, 2 & OMP TOWN/SILK BOARD FEEDER	LOAD SHIFTING	NEAR RAILWAY OVER BRIDGE	100	0.5	0	1	0	1
34	JEYPORE	KED	KUNDULI	LOAD BIFURCATION	PSS TO HATAPADA RENGA TAP	100	3.5	0	0	1	0
35	JEYPORE	NED	GUMUDA-DHODRA	LOAD SHIFTING	OLMAGUDA(DHODRA FEEDER) TO SINGISARI (GUMUDA FEEDER)	100	5.2	0	0	0	1
36	JEYPORE	NED	NEW FEEDER FROM ADHIKARI GUDA PSS	N-1	ADHIKARIGUDA PSS-UMERKOTE TOWN	100	2	0	0	1	0
37	JEYPORE	NED	NPUR NO-I	LOAD BIFURCATION	PSS TO NEAR HIRLI	100	4.2	0	0	1	0
38	JEYPORE	NED	GUMUDA-TEMERA	LOAD SHIFTING	KOTAGAM5 (GUMUDA FEEDER) TO LANDUGUDA (TEMERA FEEDER)	100	3.5	0	0	0	1
39	JEYPORE	NED	DONGRA	LOAD BIFURCATION	HTJ22401-9/9 TO HTJ2401-6/18 & HTJ2401-6/2 TO HTJ2401-6/31	100	2	0	0	0	0
40	BHANJANAGAR	PED	DUTIPADA	LOAD BIFURCATION	KHAJURIPADA PSS TO BARAPALIYA SAMAR DEGA ROAD	100	8	3	0	0	0
41	BHANJANAGAR	PED	SINDRIGAON-MUSUKULI	LOAD SHIFTING	DAHALPADI TO DAMIKIA	100	3.7	0	0	0	0
42	BHANJANAGAR	PED	DASINGBADI	LOAD BIFURCATION	DARINGBADI PSS- KANYA ASHRAM	100	3	0	0	1	0
43	BHANJANAGAR	PED	HIGH SCHOOL	LOAD BIFURCATION	BALIGUDA PSS TO ELECTRI SAHI	100	0.6	0	0	1	0

LOCATION OF 11KV NEW LINES

S.NO	NAME OF CIRCLE	NAME OF DIVISION	EXISTING 11 KV FEEDER	CATEGORY(LOAD BIFURCATION/LOAD SHIFTING/ROUTE DIVERSION/N-1)	LOCATION FROM-TO	TYPE	LENGTH (CKM)	NH CROSSING	RAILWAY CROSSING	NO. OF BAY REQUIRED	NO. OF RMU REQUIRED
44	BHANJANAGAR	PED	PHUBANI MEDICAL	LOAD BIFURCATION	FROM BYAGHRA DEVI DSS TO COURT DSS	100	0.4	0	0	0	0
45	BHANJANAGAR	PED	PHULBANI COLLEGE-PHULBANI BAZAR	N-1	FROM ANWESHA HOSTEL TO GARBAGE UNIT	100	0.3	0	0	0	0
46	RAYAGADA	PKED	CHELIGADA	LOAD BIFURCATION	CHELIGADA PSS TO CHELAGADA CHAKA	100	5	1	0	1	0
47	RAYAGADA	PKED	TOWN-4	LOAD BIFURCATION	PARALAKHEMUNDI PSS TO 4 POLE DIVISION OFFICE	100	2.5	0	0	0	1
48	RAYAGADA	PKED	RAYAGADA	ROUTE DIVERSION	RAIGADA PSS TO HATAPADA	100	0.25	0	0	0	0
49	BERHAMPUR	PSED	SUNATHAR	ROUTE DIVERSION	HOTABANDHA TO SUNATHARA BHANDILINGARAJ BOILER	100	2	0	0	0	0
50	BERHAMPUR	PSED	BHATAKUMARADA	ROUTE DIVERSION	BHATAKUMARADA TO BADASAHI DP	100	1.5	0	0	0	0
51	BERHAMPUR	PSED	BALICHAI-KALAMBA	LOAD SHIFTING	KALAMBA MANDIR SAHI CHAWK 16KVA TO JENAPUR 2*63KVA DSS	100	1	0	0	0	0
52	RAYAGADA	RED	JK PUR	ROUTE DIVERSION	JYOTI CARD BOARD TO COTTON SPINNING	100	0.6	0	0	0	0
53	RAYAGADA	RED	JK PUR	ROUTE DIVERSION	AMALABHATA CHHOWK TO AIRTEL AB SWITH	100	0.3	1	0	0	0
54	RAYAGADA	RED	JK PUR	ROUTE DIVERSION	PENTA ROAD TAPPING TO VILLAGE AB SWITCH	100	0.3	1	0	0	0
55	BHANJANAGAR	PED	KATRINGAI-BISIPADA	LOAD SHIFTING	HTN2102-17/2675 TO HTN2102-17/2675	100	3	0	0	0	0
56	BHANJANAGAR	PED	KURTAMGARH	LOAD BIFURCATION	TUMUDIBANDHA PSS TO HTN2303-6/2885	100	7	0	0	1	0
57	CIRCLE	BED-III	SURULA(JAGAPUR PSS) - BHAIRABI (MANTRIDI PSS)	LOAD BIFURCATION	HTC3103-812/196 (NEAR N SAI SATISH 250 KVA DTR CONSUMER OWNED)-HTC3102-198/1 (SANA EKSINGH CHAKA ODRP)	100	1	0	0	0	0
58	CITY	BED-III	11KV KUKUDAKHANDI - 11KV BOULAJHOLI (KUKUDAKHANDI PSS)	LOAD BIFURCATION	BAGRADEVI 100KVA TO BOULAJHOLI TAPPING POINT	100	0.7	0	0	0	0
59	CITY	BED-III	LATHI (LATHI PSS)-SANSAPADAR (MANTRIDI PSS)	LOAD BIFURCATION	HTC3202-55/9 (NEAR RESEDANCY COLLEGE 25 KVA) - HTC3103-119/12 (NEAR CHANDRAPUR GRAM PANCHYAT)	100	0.4	0	0	0	0
60	CITY	BED-I	DURA	ROUTE DIVERSION	BAHADURPETA TO DURA GP OFFICE	148	1	1	0	0	0
61	CITY	BED-I	SIDHARTH NAGAR	LOAD BIFURCATION	MEDICAL PSS TO AYUSHMAN MEDIC LANE NO. 7B (3CX400 UG) (CANAL CROSSING)	UG 3CX400	0.5	0	0	1	1
62	CITY	BED-I	KARAPALLI	N-1	SATYANARAYANPUR TO KARAPALLI	100	1	1	0	0	0
63	CITY	BED-I	RAGHUNATHPUR	ROUTE DIVERSION	HANUMAN TEMPLE TO NTTF COLLEGE	100	0.7	0	0	0	0
64	CITY	BED-I	RAGHUNATHPUR-MANDIAPALLI	LOAD SHIFTING	SANTOSHI MAA 100KVA - PREM OFFICE 100KVA	100	1	0	0	0	0
65	CITY	BED-I	HILLPATANA-LANJIPALLI-GOODSHED	N-1	GOODSHED PSS TO GURUKUL THROUGH FCI. (ADDITIONAL RAILWAY CROSSING FOR HILPATNA FEEDER	148	1.5	0	1	0	0

LOCATION OF 11KV NEW LINES

S.NO	NAME OF CIRCLE	NAME OF DIVISION	EXISTING 11 KV FEEDER	CATEGORY(LOAD BIFURCATION/LOAD SHIFTING/ROUTE DIVERSION/N-1)	LOCATION FROM-TO	TYPE	LENGTH (CKM)	NH CROSSING	RAILWAY CROSSING	NO. OF BAY REQUIRED	NO. OF RMU REQUIRED
66	CITY	BED-I	TOWN HALLL-TATA BENZ	LOAD SHIFTING	RAMAKRISHNA LANE 3 TO HATIBANDHA STREET	148	0.4	0	0	0	0
67	CITY	BED-I	AMBAPUA	LOAD SHIFTING	RADHA MOHAN NAGER TO SARADABALLI	100	0.5	0	0	0	0
68	CITY	BED-I	NILANCHAL NAGAR-GAJPATI NAGAR	N-1	NILANCHAL NAGAR 5TH LANE EXTENSION - BASUDEV NAGER	148	0.5	0	0	0	0
69	CITY	BED-I	AMBAPUA	LOAD BIFURCATION	AMBAPUA PSS TO PAKS ROYAL VENTURE	UG 3CX400	3	1	0	1	2
70	CITY	BED-I	NEW UG LINE OLD BUS STAND FEEDER	LOAD SHIFTING	LOCHAPADA PSS - GOKARNESWAR TEMPLE OLD BUS STAND TAPPING POINT (SH CROSSING) 3CX400 XLPE	UG 3CX400	0.6	0	0	1	1
71	CITY	BED-I	NEW UG LINE LANJIPALLI-TATA BENZ	LOAD SHIFTING	RAM NAGAR-SHIVA TEMPLE-ANANT NAGAR LN 6 250KVA DSS	UG 3CX400	1.2	0	1	0	1
72	CITY	BED-I	NEW UG LINE ANKULI NH	LOAD SHIFTING	PSS -CHANDIMANDIR NH(63KVA)	UG 3CX400	3.3	1	0	1	1
73	BERHAMPUR	PSED	PURUSHOTTAMPUR TOWN	N-1	1)GOPALBANDHA- BLOCK 2)KUMHARI-RMU	100	1.5	0	0	0	0
74	RAYAGADA	GED	JALTAR-PUTTASING	N-1	JALTAR ROAD	100	0.5	0	0	0	0
75	RAYAGADA	GED	GUMUDA-SUBDRAPUR	N-1	IRBN CAMPUS-SUBDRAPUR	100	0.5	0	0	0	0
76	RAYAGADA	GED	REGADA-COURT	N-1	COLLEGE ROAD-COLLEGE ROAD	100	0.5	0	0	0	0
77	RAYAGADA	GED	COURT-TOWN	N-1	CHURCH ROAD-CHURCH ROAD	100	0.5	0	0	0	0
78	RAYAGADA	GED	BANKILI-TANDIKONA	N-1	BANKILI-BANKILI MANDIR	100	0.5	0	0	0	0

Location Sl No. 16

LOCATION OF 33KV UPGRADATION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	33KV FEEDER NAME	PROPOSED CONDUCTOR SIZE	LOCATION FROM	LOCATION TO	CONSIDERED LENGTH FOR PROPOSED BARE CONDUCTOR (CKM)	CONSIDERED LENGTH FOR PROPOSED COVER CONDUCTOR (CKM)	CONSIDERED LENGTH FOR PROPOSED UNDER GROUND CABLE(CKM)	NH CROSSING(Y/N)	RAILWAY CROSSING(Y/N)
1	ASKA	AED-I	ASKA	ASKA	ASKA FEEDER (IPDS LINE)	148	UR+6 TOWER	TALUKA ROAD	2.2				
2	ASKA	AED-I	ASKA	DHARAKOTE	SORADA FEEDER	148	ASKA BUS STAND 4P STR	DHARAKOTE PSS	5				
3	ASKA	AED-II	K S NAGAR	BUDHAMBA	BUDHAMABA FEEDER	148	K S NAGAR SECTION POINT	BUDHAMBA PSS	10				
4	CITY	BED-I	MEDICAL	MEDICAL	MEDICAL-AMBAPUA (D/C) FEEDER	232	AMBAPUA	MEDICAL	6				
5	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KHALIKOTE FEEDER	148	BALUGAON GSS	KHALIKOTE PSS	20				
6	BERHAMPUR	HED	HINJILICUT	HINJLICUT	HINJILI FEEDER (HINJILI GSS)	232	HINJLI GSS	HINJILI PSS	2.3				
7	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	KHALIKOTE FEEDER	148	BEGUNIAPADA PSS	PUSTAPUR AB SWICH	1				
8	BHANJANAGAR	BNED	SORODA	SORODA	SORODA FEEDER	REFURBISHMENT ONLY	BHANJANAGAR GSS	SORODA PSS	5				
9	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	BOUDH FEEDER	148	JANHAPANK PSS	BAUNSUNI PSS	18				
10	BHANJANAGAR	PED	PHULBANI	PHULBANI	PHULBANI FEEDER	148	PHULBANI GSS	PHULBANI PSS	4				
11	RAYAGADA	GED	GUNUPUR	GUNUPUR RURAL	BIKRAMPUR FEEDR	148	AFTER BANSADHARA RIVER CROSSING DP STR	BIKRAMPUR PSS	1.5				
12	RAYAGADA	GED	GUMUDA	RAMANAGUDA	GUMUDA FEEDER	148	LABAGUDA	BANGI CANAL	1				
13	RAYAGADA	PKED	PARALAKHEMUNDI	PARALAKHEMUNDI RURA	PARLAKHEMUNDI NEW FEEDER	148	PARALAKHEMUNDI GSS	PARALAKHEMUNDI NEW PSS	5				
14	RAYAGADA	RED	RESD	NO-II	RAYAGADA -1 FEEDER	232	RAYAGADA GSS	AUTONAGAR PSS	8				
15	JEYPORE	KED	KORAPUT	KORAPUT NO-1	KORAPUT FEEDER	148	SUNABEDA PSS	KANHEIPUT AB SWITCH	17				
16	JEYPORE	NED	NABARANGPUR	UMERKOTE	JHARIGAON FEEDER	148	UMERKOTE GSS	MENDABEDA 4P STR TO UMERKOTE PSS	9				
17	JEYPORE	NED	PAPADAHANDI	KOSAGUMUDA	KODINGA FEEDER	148	KODINGA PSS	KOSAGUMUDA PSS	11				

LOCATION OF 33KV UPGRADATION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	33KV FEEDER NAME	PROPOSED CONDUCTOR SIZE	LOCATION FROM	LOCATION TO	CONSIDERED LENGTH FOR PROPOSED BARE CONDUCTOR (CKM)	CONSIDERED LENGTH FOR PROPOSED COVER CONDUCTOR (CKM)	CONSIDERED LENGTH FOR PROPOSED UNDER GROUND CABLE(CKM)	NH CROSSING(Y/N)	RAILWAY CROSSING(Y/N)
18	ASKA	AED-I	ASKA	BALISIRA	KBPUR FEEDER	148	KB PUR LINE -MBC COLA	BALISIRA PSS	4				
19	BERHAMPUR	GNED	CHATRAPUR	CHATRAPUR-1	TISCO FEEDER	148	RAMCHANDRAPUR PSS	UNIVERSITY PSS	11				
20	BERHAMPUR	HED	HINJILICUT	KANCHURU	HINJILI FEEDER (PURUSOTTAM PUR GSS)	148	PURUSOTTAM PUR GSS	HINJILI PSS	5		0	**1**	0
21	BHANJANAGAR	BNED	NO-II	KBPUR	KBPUR FEEDER	148	GOBARA AB SWICH NEAR KBPUR PSS	KBPUR PSS	5.7				
22	BHANJANAGAR	BNED	SORODA	SORODA	SORODA FEEDER	232	BHANJANAGAR GSS	MAREIPATA	0.3				
23	JEYPORE	KED	SUNABEDA	POTTANGI	POTTANGI GSS- TOSALI CEMENT INDUSTRY	148	POTTANGI PSS	TOSALI CEMENT INDUSTRY	10				

Location Sl No. 16

LOCATION OF 11KV CONDUCTOR UPGRADTION

SL.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	UPGRADED CONDUCTOR(SQ.MM)	TYPE POLE REQUIRED	LOCATION FROM-TO	NH CROSSING	RAILWAY CROSSING
1	CITY	BED-III	11KV TULU	3.4	100	11MTR WPB	TULU VILLAGE - MARKANDI		
2	CITY	BED-III	11KV LOCHAPADA	2	148	11MTR WPB	PSS- HANUMAN TEMPLE		
3	CITY	BED-III	NIMAKHANDI	2.4	100	11MTR WPB	SHRIKHETRA VIHAR AREA		
4	CITY	BED-III	KUKUDAKHANDI	2.4	100	11MTR WPB	BUDHIGHERA TEMPLE - THAKURNI TEMPLE TO JAGANATH TEMPLE		
5	CITY	BED-III	SOROLA	3.4	100	11MTR WPB	PSS-BADI CHAKARWSS		
6	CITY	BED-III	SOROLA	1	100	11MTR WPB	SOROLA VILLAGE		
7	CITY	BED-III	SOROLA	1	80	11MTR WPB	KUMARBANDHA - RAMYAPATANA LIQUOR SHOP		
8	CITY	BED-III	LATHI	3.4	80	11MTR WPB	MAHONARA- BAGALHATI KUMARPUR- BADAKUSUMI		
9	CITY	BED-III	NIMAKHANDI	3.4	148	11MTR WPB	PSS- WATER SUPPLY 25KVA		
10	CITY	BED-III	SOROLA	2.5	100	9MTR PSC	SANAEKSINGH HANUMAN TEMPLE - PARA PENTHA ODRP		
11	CITY	BED-III	RANDHA	2.4	80	11MTR WPB	PSS- NEAR OBSC BERHAMPUR ODISHA TULU ROAD NEAR OM BBS COLLEGE OF NURSING- TAIL END		
12	CITY	BED-III	BHAIRABI	2.5	100	11MTR WPB	PSS- FEEDER TAIL END NEAR BISWANATHPUR ROAD		
13	CITY	BED-III	11KV NIST	3.4	100	11MTR WPB	PSS TO TAPPING OF NIST & GOLANTHARA FEEDERHTC3103-813/265		
14	ASKA	AED-I	MUKUNDPUR	2	80	9MTR PSC	DHOBAPALLI LINE AB SWITCH TO VILLAGE		
15	ASKA	AED-I	NIMINA	2	80	11MTR WPB	BALISIRA PSS-KENDUPADAR	1	
16	ASKA	AED-I	COLLEGE SQUARE	0.2	80	11MTR WPB	CHOUDHURY NGAR SQUARE TO DSS	1	
17	ASKA	AED-II	BOLOSARA	0.5	100	9MTR PSC	HINDAL NEAR HTA2201-17/24		
18	ASKA	AED-II	GUDAYALI	0.6	100	9MTR PSC	PSS-HARIJAN SAHI		
19	ASKA	AED-II	GOLIA	1.4	100	9MTR PSC	BUGUDA PSS-BANJAR		
20	ASKA	AED-II	BUDHAMBA	0.8	80	9MTR PSC	NEAR DEOGAM		
21	ASKA	AED-II	PANGIDI	1.2	100	9MTR PSC	PANGIDI AB SWITCH TO SAKUNTLA VIHAR	1	
22	ASKA	AED-II	A. KARDABADI	0.4	80	9MTR PSC	KHARIDA VILLAGE - DSS END POINT		
23	ASKA	AED-II	ATHAGADA PATNA	0.3	80	9MTR PSC	ATHAGADA SBI_POND NEAR HTA2202-12/25/3		
24	ASKA	AED-II	ATHAGADA PATNA	0.5	80	9MTR PSC	PATHRAPALLI CP NEAR HTA2202-13/22		
25	CITY	BED-II	GANDHINAGAR-2	1.2	148	11MTR WPB	NK NAGAR PSS TO PANCHANAN NAGAR 4 POLE		
26	CITY	BED-II	OLD BERHAMPUR	1.5	100	11MTR WPB	JASODA NAGAR TO GOURANGA VIHAR		
27	CITY	BED-II	HOUSING BOARD	0.7	148	11MTR WPB	NK NAGAR PSS TO PRUSTY COLONY		
28	CITY	BED-II	GANDHINAGAR-1	1.5	148	11MTR WPB	PSS TO SUBREGISTRAR OFFICE		
29	CITY	BED-II	ASKAROAD	1.9	148	11MTR WPB	AMBAGADA PSS TO 1ST GATE CHHAKA TO DIGAPAHANDI DSS + 1ST GATE CHHAKA TO BSNL TOWER		
30	CITY	BED-II	CITY HOSPITAL	0.6	100	11MTR WPB	HARSHA VIHAR 3RD LANE TO SANJIVANI VIHAR		
31	CITY	BED-II	CITY HOSPITAL	0.5	100	11MTR WPB	GAYATRI VIHAR CHHAKA TO CITY BAR		
32	CITY	BED-II	AUTO NAGAR	1.9	100	11MTR WPB	AMBAGADA PSS TO BHARAT PETROL PUMP		
33	BHANJANAGAR	BNED	BHANJANAGAR TOWN	0.6	100	11MTR WPB	HATIBANDO CUT POINT TO LINE AB SWITCH	1	
34	BHANJANAGAR	BNED	BHANJANAGAR TOWN	0.4	100	11MTR WPB	SUB COLLECTOR OFFICE TO UB HIGH SCHOOL	2	
35	BHANJANAGAR	BNED	BHANJANAGAR TOWN	0.6	100	11MTR WPB	BODOTUTA SHAI TO TPWN 500 KVA S/S	1	
36	BHANJANAGAR	BNED	BHANJANAGAR TOWN	0.6	100	11MTR WPB	GIRLS HS SQ -TOWN HALL BACK SIDE		
37	BHANJANAGAR	BNED	GAMUNDI	1.5	100	9MTR PSC	BLOCK OFFICE SQURE TO NIYARA PETROL PUMP	1	
38	BHANJANAGAR	BNED	BHANJANAGAR COLLEGE	1.5	100	9MTR PSC	CHEDABHUMI ROAD TO SIV MANDIR	1	
39	BHANJANAGAR	BNED	SORODA TOWN	1	100	11MTR WPB	PSS TO GANICHAKA	1	
40	BHANJANAGAR	BNED	GANGAPUR (BHANJANAGAR)	1	80	9MTR PSC	DHUDHUA RICEMILL- 4POLE DEFENCE COLONY	1	
41	BHANJANAGAR	BOED	BAGHIAPADA	2.4	80	9MTR PSC	KANAKPUR -KATAMSINGH		
42	BHANJANAGAR	BOED	BNPUR	2.00	80	9MTR PSC	NUAPADA -BARAJHULI		

LOCATION OF 11KV CONDUCTOR UPGRADTION

SL.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	UPGRADED CONDUCTOR(SQ.MM)	TYPE POLE REQUIRED	LOCATION FROM-TO	NH CROSSING	RAILWAY CROSSING
43	RAYAGADA	GED	GUNUPUR TOWN	2	100	11MTR WPB	KARANJANAL (HTR3101-1/115) TO RINGROAD LINE AB SWITCH (HTR3101-1/297)		
44	RAYAGADA	GED	GUNUPUR TOWN	1	100	11MTR WPB	GHANDI NAGAR LINE AB SWITCH (HTR3101-1/128) TO TOWN FCC (HTR3101-1/132)		
45	RAYAGADA	GED	GUNUPUR TOWN	1	100	11MTR WPB	CHURCH ROAD (HTR3101-1/ 401) TO HANUMAN MANDIR (HTR3101-1/431)		
46	RAYAGADA	GED	GUNUPUR COURT	1.1	100	11MTR WPB	PAKWAAN CHOWK (HTR3101-2/225) TO VATENARY STREET (HTR3101-2/ 269)		
47	RAYAGADA	GED	GUNUPUR COURT	1	100	11MTR WPB	RAMESHWAR TO RAMESHWAR		
48	RAYAGADA	GED	GUNUPUR COURT	2.1	100	11MTR WPB	GIRLS HIGH SCHOOL CHOWK (HTR 3101-1/399) TO OIL MILL BABATARA FROM ROAD (HTR3101-1/390)		
49	RAYAGADA	GED	PADMAPUR	2	100	9MTR PSC	NO-1 TO FOURPOLE TO MEDICIAL TO JAGMUNDA TO TO INDRA NAGAR		
50	RAYAGADA	GED	PADMAPUR	2	100	9MTR PSC	JATALI CHAKK TO JATALI PAT		
51	RAYAGADA	GED	REGADA	1.5	100	11MTR WPB	BITS COLLEGE (HTR3101-2/504) TO OMPERA (HTR3101-2/560)		
52	BERHAMPUR	GNED	KANHEIPUR	2.4	100	9MTR PSC	KHOJAPALLI-MALAKHOJAPALLI		
53	BERHAMPUR	GNED	BADAMADHAPUR	2.4	80	11MTR WPB	BADAMADHAPUR VILLAGE-HANSAPUR VILLAGE		
54	BERHAMPUR	GNED	KHALLIKOTE TOWN	2.4	80	11MTR WPB	KHALLIKOTE PSS-NIRAMJHAR/MATIA SAHI		
55	BERHAMPUR	GNED	KHANDADEULI	4.4	100	11MTR WPB	HUMMA PSS TO LAUPUT INDUSTRIAL AREA	1	1
56	BERHAMPUR	GNED	SHYAM SUNDARPUR	2	100	9MTR PSC	PSS-BALUKESHWARPUR 100KVA		
57	BERHAMPUR	GNED	PALUR	9.4	80	9MTR PSC	HUMMA PANCHAYAT OFFICE TO ARUNPUR		
58	ASKA	GSED	JAKARA FEEDER	2.4	80	9MTR PSC	KARAPADA TAPPING TO HATIADI TO NUA BANDHAPALLI		
59	ASKA	GSED	KRUSHNANAGAR	2.4	80	9MTR PSC	KRUSHNANAGAR TO ERENDRA		
60	BERHAMPUR	HED	BADAKHANDI	1	100	9MTR PSC	BADAKHANDI DSS TORANGUNIPALLI DSS		
61	BERHAMPUR	HED	PADMANAVPUR	1.6	100	9MTR PSC	SHERAGADA BLOCK TO PALLI PADNAVPUR		
62	JEYPORE	JED	TOWN	2	100	11MTR WPB	PSS TO VD COLLEGE		
63	JEYPORE	MED	MALKANGIRI TOWN	2	100	9MTR PSC	SAFETY YARD TO MALIKESWAR		
64	JEYPORE	MED	DNK	2.4	100	11MTR WPB	PSS TO MAHINSIPADA		
65	JEYPORE	MED	MV-7	2	100	9MTR PSC	MV-7 TO CHIDIPALLY AND MV13		
66	JEYPORE	MED	CHALLANGUDA	2	100	9MTR PSC	PSS TO CHALLANGUDA		
67	JEYPORE	MED	OLD KORUKONDA	2	100	9MTR PSC	BALIMELA PSS-MV-37	1	
68	JEYPORE	NED	TURUDHI	2.5	100	9MTR PSC	HTJ2302-5/2853 TO HTJ2301-5/2734		
69	JEYPORE	NED	CHATABEDA	1.9	100	9MTR PSC	HTJ2302-6/152 TO KUMULI		
70	JEYPORE	NED	GUMUDA	5	100	9MTR PSC	PSS TO JUNAPANI		
71	JEYPORE	NED	UMERKOTE TOWN	2	100	11MTR WPB	HTJ2301-1/292 TO NEAR PSS		
72	JEYPORE	NED	HATABHARANDI	2	80	9MTR PSC	HATABHARANDI TO MARIGAM		
73	JEYPORE	NED	PARCHIPARA	5	100	9MTR PSC	HTJ2302-5/3631 TO HTJ2301-5/4035		
74	JEYPORE	NED	BEHEDA	5	100	9MTR PSC	NEAR PSS TO HTJ2301-10/935		
75	JEYPORE	NED	BURJA	5	100	9MTR PSC	NEAR PSS TO HTJ2301-11/520		
76	RAYAGADA	PKED	TOWN 4	2	100	9MTR PSC	4 POLE TO SANJAY GANDHI COLONY		
77	RAYAGADA	PKED	ANTARABA	2.4	80	9MTR PSC	DENGAMA-JHARANAPUR		
78	RAYAGADA	PKED	PITAPANI	2.4	80	9MTR PSC	MOHANA PSS TO CHANDIPUT CHAWK	1	
79	BERHAMPUR	PSED	BHUTASARSING	0.5	80	9MTR PSC	BADAKHARIDA CHOWK TO SASAN		
80	BERHAMPUR	PSED	ARAKHAPUR	0.5	80	9MTR PSC	ARAKHAPUR CHAKK TO PANCHAYAT OFFICE		
81	BERHAMPUR	PSED	BELAGAON	0.4	80	9MTR PSC	CHANDIPUR MILL CHAWK TO BUDHA TOTA		
82	BERHAMPUR	PSED	OLD ANGARAGAON	1	80	9MTR PSC	BEGUNIAPADA PSS TO P.NUAGAON		
83	BERHAMPUR	PSED	OLD GUDIALI	0.5	80	9MTR PSC	PSS TO KHOLIKOTE ROAD		
84	RAYAGADA	RED	TOWN-3	2	100	11MTR WPB	AUTO NAGAR PSS TO GANDHINAGAR 6 POLE		
85	RAYAGADA	RED	TOWN-4	0.4	80	11MTR WPB	AUTOSTAND TO DFO 4TH LINE		

LOCATION OF 11KV CONDUCTOR UPGRADTION

SL.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	UPGRADED CONDUCTOR(SQ.MM)	TYPE POLE REQUIRED	LOCATION FROM-TO	NH CROSSING	RAILWAY CROSSING
86	RAYAGADA	RED	DAKULUGUDA-I	1	80	9MTR PSC	JUGAPADAR TO KACHAPAJU		
87	RAYAGADA	RED	DAKULUGUDA-I	1	80	9MTR PSC	SAHADA TO KHUNTABADI		
88	RAYAGADA	RED	JK PUR	2	100	9MTR PSC	PSS -COVID HEALTH CENTRE		
89	RAYAGADA	RED	SERIGUDA TOWN 2	2	100	11MTR WPB	PSS-ANJANI PETA		
90	CITY	BED-I	HARIPUR	3.4	100	11MTR WPB	AGRAHAM TO HARIAPALLI TO S PAIKAPADA TO B PAIKAPADA		
91	CITY	BED-I	AMBAPUA	1	100	11MTR WPB	SRADHABALLI 2ND LANE 315KVA TO SAMRAT VIDYA MANDIR		
92	CITY	BED-I	GOLABANDHA	1.9	100	11MTR WPB	PSS-MAIN LINE		
93	CITY	BED-I	KARAPALLI	1.9	100	11MTR WPB	PSS-MAIN LINE		
94	CITY	BED-I	NIGAM NAGAR	1.5	100	11MTR WPB	OVERBRIDGE TO NIGAM NAGAR 4T LANE		
95	CITY	BED-I	GOODSHED	2	148	11MTR WPB	PSS TO OVERBRIDGE		
96	CITY	BED-I	HILLPATANA	3.1	148	11MTR WPB	PSS TO RAILWAY CROSSING		
97	CITY	BED-I	LANJIPALLI	1.6	148	11MTR WPB	PSS TO SHIV TEMPLE		
98	CITY	BED-I	TATABENZ	2.4	148	11MTR WPB	1. PSS TO NEW BUSSTAND AND 2. NATABAR NAGAR - KC PUBLIC SCHOOL	1	
99	CITY	BED-I	OLD BUS STAND	2.4	148	11MTR WPB	MEDICAL PSS -ABHIRAM MATHA AND BERHAMPUR STADIUM	1	
100	CITY	BED-I	TOWN HALL	2.4	148	11MTR WPB	1. PSS TO GATE BAZAR CHOWK. 2. VISHAL CHOWK TO KARGIL PETROL PUMP 3.CANAL ST, SWARNAMAYEE NAGAR	1	
101	CITY	BED-I	MKCG HOSPITAL	0.7	100	11MTR WPB	NEW MEDICAL PSS-MAIN ROAD		
102	CITY	BED-I	KAMAPALLI	1.2	148	11MTR WPB	PSS - BHABANAGAR POND		
103	CITY	BED-I	COURTPETA	2	148	11MTR WPB	PSS TO AUDITORIUM JUNCTION AND KAMAPALLI CHOWK TO PANTALOON	5	

Location Sl No. 18

LOCATION OF 33KV COVERED CONDUCTOR

S.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 33KV FEEDER	LOCATION FROM-TO	CONSIDERED LENGTH (CKM)	PROPOSED COVER CONDUCTOR(SQ.MM)	PROPOSED TYPE POLE
1	JEYPORE	JED	BORIGUMMA	SANAKAUDI	0.8	100	13MTR WPB
2	ASKA	AED-II	33KV- BUGUDA	HVAC LINE CROSSING 33KVA2301-958/18	0.12	148	13MTR WPB
3	ASKA	AED-II	33KV- K. S. NAGAR	HVAC LINE CROSSING 33KVA2201-954/60	0.2	148	13MTR WPB
4	ASKA	AED-II	33KV- K. S. NAGAR	HVDC LINE CROSSING 33KVA2201-954/30	0.12	148	13MTR WPB
5	ASKA	GSED	JAGAPUR	DHANGHARA	0.2	148	13MTR WPB
6	BERHAMPUR	HED	33KV HINJLI (PURUSATTOMPUR GSS)	TRARATARINI GSS TO GSS BOUNDARY	0.2	148	13MTR WPB
7	BERHAMPUR	HED	33KV HINJLI (PURUSATTOMPUR GSS)	NEAR TRARATARINI GSS	0.08	148	13MTR WPB
8	BERHAMPUR	HED	33KV HINJLI (PURUSATTOMPUR GSS)	NEAR KHOSALAPALI CANAL	0.08	148	13MTR WPB
9	BERHAMPUR	HED	33KV HINJLI (PURUSATTOMPUR GSS)	HINJILI TO SIKIRI ROAD	0.08	148	13MTR WPB
10	BERHAMPUR	HED	33KV HINJLI (PURUSATTOMPUR GSS)	NEAR PUTIPADAR VILLAGE	0.08	148	13MTR WPB
11	BERHAMPUR	HED	33KV ADAPADA	PALASPUR	0.2	148	13MTR WPB
12	JEYPORE	NED	KODINGA	KODINGA TO GANDAGUDA	0.2	148	11MTR WPB
13	JEYPORE	NED	KODINGA	HATIBEDA TO KHUTIGUDA	0.25	148	11MTR WPB
14	JEYPORE	NED	PAPADAHANDI	CHINGIDISOR RESERVE FOREST TO IT DHEPOGUDA	0.3	148	11MTR WPB
15	JEYPORE	NED	PAPADAHANDI	BARIGUDA TO BHATIKOTE	0.6	148	11MTR WPB
16	BHANJANAGAR	PED	KALINGA FEEDER	TIKABALI TOWN NEAR POLICE STATION	0.1	148	11MTR WPB
17	BHANJANAGAR	PED	KALINGA FEEDER	TIKABALI HARSH NAGAR	0.3	148	11MTR WPB
18	BHANJANAGAR	PED	KHAJURIPADA	MEGHA NARSARY TO SADHANA	0.5	148	11MTR WPB
19	RAYAGADA	RED	DANGASORADA	NITU FARM TO DEOKUPULI CHHACK	0.2	100	11MTR WPB
20	RAYAGADA	RED	DANGASORADA	IN FRONT OF CLUSTER HOUSE	0.2	100	11MTR WPB

LOCATION OF 33KV COVERED CONDUCTOR

S.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 33KV FEEDER	LOCATION FROM-TO	CONSIDERED LENGTH (CKM)	PROPOSED COVER CONDUCTOR(SQ.MM)	PROPOSED TYPE POLE
21	RAYAGADA	RED	BISSAMCUTTACK-I (HATAMUNIGUDA GSS TO BISSAMCUTTACK PSS)	NEAR MUNDABANDHA	0.08	100	11MTR WPB
22	RAYAGADA	RED	BISSAMCUTTACK-I (HATAMUNIGUDA GSS TO BISSAMCUTTACK PSS)	NEAR PETROL PUMP, BARDELIGUDA	0.07	100	11MTR WPB
23	RAYAGADA	RED	BISSAMCUTTACK-I (HATAMUNIGUDA GSS TO BISSAMCUTTACK PSS)	NEAR BANDHUGUDA	0.07	100	11MTR WPB
24	RAYAGADA	RED	BISSAMCUTTACK-II (THERUBALI GSS TO BISSAMCUTTACK PSS)	NEAR INDIRA COLONY	0.06	100	11MTR WPB
25	RAYAGADA	RED	BISSAMCUTTACK-II (THERUBALI GSS TO BISSAMCUTTACK PSS)	NEAR GOTIGUDA	0.1	100	11MTR WPB
26	CITY	BED-III	KANISI	SHISHUMANDIR-ANUPARANA NAGAR TO SHREE CHAMAN APARMENT	0.8	148	11MTR WPB

Location Sl No. 19

CONVERSION OF 11KV BARE TO COVERED CONDUCTOR

S.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	TYPE POLE REQUIRED	LOCATION FROM-TO
1	JEYPORE	JED	BORIGUMMA TOWN	0.2	9MTR WPB	BORIGUMMA PSS TO CINEMAHAL S/S
2	ASKA	AED-I	BHETANAI	0.1	9MTR PSC	DHOBAPALLI ROAD-HARIOM NAGAR
3	ASKA	AED-I	COLLEGE SQUARE	0.1	9MTR PSC	PRABHAT ELECTRONICS-NUAPALLI SMASAN
4	ASKA	AED-I	COLLEGE SQUARE	0.1	9MTR PSC	PANDA COLONY DP- NEAR PANDA COLONY
5	ASKA	AED-I	COLLEGE SQUARE	0.1	9MTR PSC	GOLAPALLI SQUARE-KHARIA LINE AB SWITCH
6	ASKA	AED-I	BHETANAI	0.1	9MTR PSC	RWSS, HARADAPADAR-HARDAPADAR
7	ASKA	AED-I	NUAGAON	0.1	9MTR PSC	NUAGAON KALIMUKHI LINE AB SWITCH-BABANPUR CUT POINT
8	ASKA	AED-I	BHETANAI	0.1	9MTR PSC	NUAGAON KALIMUKHI LINE AB SWITCH-BABANPUR CUT POINT
9	ASKA	AED-I	BHETANAI	0.1	9MTR PSC	NEAR RK RICE MILL-WELDING SHOP
10	ASKA	AED-I	BHETANAI	0.1	9MTR PSC	DUANPALLI LINE AB SWITCH-NEAR SIBA TEMPLE
11	ASKA	AED-I	BHETANAI	0.1	9MTR PSC	SIDHANAI LINE AB SWITCH-BEFORE BANAPALLI
12	ASKA	AED-I	BHETANAI	0.1	9MTR PSC	CHARIMAILI CUT POINT-RANGER OFFICE
13	ASKA	AED-I	GUNTHAPADA	0.07	11MTR WPB	GUNTHAPADA TO RAIPALLI
14	ASKA	AED-I	GANGAPUR	0.07	11MTR WPB	ASKA TO JHAGADEI
15	ASKA	AED-II	BOLOSARA	0.1	9MTR WPB	HVDC LINE CROSSING HTA2301-72/34

CONVERSION OF 11KV BARE TO COVERED CONDUCTOR

S.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	TYPE POLE REQUIRED	LOCATION FROM-TO
16	ASKA	AED-II	BOLOSARA	0.15	9MTR WPB	HVAC LINE CROSSING HTA2301-72/35
17	ASKA	AED-II	K S NAGAR TOWN	0.05	9MTR WPB	HVAC LINE CROSSING HTA2301-71/18
18	ASKA	AED-II	K S NAGAR TOWN	0.1	9MTR WPB	HVDC LINE CROSSING HTA2301-69/2
19	BHANJANAGAR	BOED	KARADI	0.1	9MTR PSC	GHRADA AREA-2 SPAN
20	BHANJANAGAR	BOED	KARADI	0.1	9MTR PSC	KELAKATA AREA-2 SPAN
21	BHANJANAGAR	BOED	PURUNAKATAK	0.1	9MTR PSC	COLLEGE S/S-COLLEGE CHHAK
22	BHANJANAGAR	BOED	LUNIBAHAL	0.1	9MTR PSC	BADABANDHA-KANYASHRAM TAPPING
23	BHANJANAGAR	BOED	KARANJAKATA	0.05	9MTR PSC	BAGAHACHAPRA PALMOLIN FARM CROSSING
24	BHANJANAGAR	BOED	KARANJAKATA	0.05	9MTR PSC	GANAPATI STONE CRUSHER CROSSING
25	BHANJANAGAR	BOED	KARANJAKATA	0.05	9MTR PSC	LOKAPADA 11 KV TO 33 KV CROSSING
26	BHANJANAGAR	BOED	KARANJAKATA	0.05	9MTR PSC	BANKARJUNA 11KV LINE CROSSING
27	BHANJANAGAR	BOED	ADENIGARH	0.05	9MTR PSC	JHADRAJONG 11 KV CROSSING
28	BHANJANAGAR	BOED	ADENIGARH	0.05	9MTR PSC	BHOMAKHOL
29	BHANJANAGAR	BNED	KULANGI	0.1	11MTR WPB	MAREIPATTA ROAD- PADDEY AREA
30	BHANJANAGAR	BNED	NETENGA	0.1	11MTR WPB	BALIBHAGA- ROAD SIDE
31	BHANJANAGAR	BNED	NETENGA	0.1	11MTR WPB	BORAPOLLI- DENGAPODAR

CONVERSION OF 11KV BARE TO COVERED CONDUCTOR

S.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	TYPE POLE REQUIRED	LOCATION FROM-TO
32	BHANJANAGAR	PED	TOWN-1	0.15	9MTR PSC	COURT CHOWK TO COURT BUILDING
33	BHANJANAGAR	PED	TOWN-1	0.2	9MTR PSC	MEDICAL TO PARK
34	BHANJANAGAR	PED	TOWN-1	0.12	9MTR PSC	TELEPHONE BHABAN TO HATISALA
35	BHANJANAGAR	PED	TOWN-1	0.06	9MTR PSC	BANDHA CHOWK
36	BHANJANAGAR	PED	TOWN-1	0.3	9MTR PSC	HABAK HIGHSCHOOL TO BADA SAHI
37	BHANJANAGAR	PED	TOWN-1	0.15	9MTR PSC	MAHAKUDA SAHI
38	BHANJANAGAR	PED	TOWN-1	0.5	9MTR PSC	FOREST RANGE OFFICE TO COLLEGE
39	BHANJANAGAR	PED	TOWN-2	0.4	9MTR PSC	CLUB SAHI TO NADISAHI TO OLD HATAPADA
40	BHANJANAGAR	PED	DUNGI	0.05	9MTR PSC	SABERKELA (33 KV TIKABALI LINE CROSSING)
41	BHANJANAGAR	PED	MICROWAVE	0.06	9MTR PSC	KANIKUTI SAHI (NEAR CHECK GATE)
42	BHANJANAGAR	PED	MICROWAVE	0.1	9MTR PSC	UP SCHOOL PREMICES
43	BHANJANAGAR	PED	KARADA	0.05	9MTR PSC	KARADA
44	RAYAGADA	PKED	TABARADA	0.5	9MTR PSC	JANAPDA TO JANAPADA COLONY
45	RAYAGADA	PKED	TABARADA	0.5	9MTR PSC	RAGEIJHULI VILLAGE TO NEW LENGE
46	RAYAGADA	PKED	LUDUPANKA	0.05	9MTR PSC	CHAPADAPANKA AND SUKILAAMBACHAKA
47	RAYAGADA	PKED	CHANDIPUT	0.5	9MTR PSC	INFORNT OF SCHOOL MUDMUDIA HIGH SCHOOL

CONVERSION OF 11KV BARE TO COVERED CONDUCTOR

S.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	TYPE POLE REQUIRED	LOCATION FROM-TO
48	RAYAGADA	PKED	CHANDIPUT	0.5	9MTR PSC	KIRAMA VILLAGE
49	RAYAGADA	PKED	CHANDIPUT	0.5	9MTR PSC	LUDRU VILLAGE
50	RAYAGADA	PKED	CHANDIPUT	0.5	9MTR PSC	SIRSIPADA VILLAGE
51	RAYAGADA	PKED	CHANDIPUT	0.5	9MTR PSC	MADHURAAMBA
52	RAYAGADA	PKED	CHANDIPUT	0.5	9MTR PSC	INFORNT OF SCHOOL MERAPALI HIGH SCHOOL
53	RAYAGADA	PKED	CHANDIPUT	0.8	9MTR PSC	KIRAMA TO MERAPALI
54	RAYAGADA	PKED	CHANDIPUT	0.5	9MTR PSC	ANGANWADI & BADAPUR HIGH SCHOOL
55	RAYAGADA	PKED	CHANDIPUT	0.5	9MTR PSC	ANGANWADI & BANDHAGUDA HIGH SCHOOL
56	RAYAGADA	PKED	KAMALAPUR	0.5	9MTR PSC	NERA KAMALAPUR SCHOOL
57	RAYAGADA	PKED	KAMILIGUDA	0.6	9MTR PSC	RAMAGADA TO DENGASARGI
58	RAYAGADA	PKED	KAMILIGUDA	0.6	9MTR PSC	DHEPAPADAR
59	RAYAGADA	PKED	KAMILIGUDA	0.2	9MTR PSC	KIRTINGI
60	RAYAGADA	PKED	TOWN-4	0.5	9MTR PSC	FOUR POLE(DIVISION OFFICE) TO FILTER HOUSE(PHD)
61	RAYAGADA	PKED	UPPALADA	0.4	9MTR PSC	BARASIRIPUR RIVER SIDE
62	RAYAGADA	PKED	BAGHASALA	0.6	9MTR PSC	UPPALADA PSS FRONT
63	RAYAGADA	PKED	UPPALADA	0.4	9MTR PSC	MS PUR

CONVERSION OF 11KV BARE TO COVERED CONDUCTOR

S.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	TYPE POLE REQUIRED	LOCATION FROM-TO
64	RAYAGADA	PKED	UPPALADA	0.4	9MTR PSC	BUGUDA
65	RAYAGADA	PKED	BAGHASALA	0.3	9MTR PSC	KUMBHARAMA
66	RAYAGADA	PKED	GURANDI	0.3	9MTR PSC	RI DSS TO COLLEGE HOSTEL
67	RAYAGADA	PKED	LABAYANGADA	0.7	9MTR PSC	LABYANGADA TO JAGANATHPUR
68	RAYAGADA	PKED	LABAYANGADA	0.3	9MTR PSC	ROUTHPUR CP TO PILIGAON VILLAGE
69	RAYAGADA	PKED	LABAYANGADA	0.1	9MTR PSC	DEBPUR VILLAGE
70	RAYAGADA	PKED	LABAYANGADA	0.5	9MTR PSC	MARINGI VILLAGE TO DURGAM
71	BERHAMPUR	PSED	PSPUR	0.2	9MTR WPB	COLLEGE SQR TO DHOBA SAHI
72	BERHAMPUR	PSED	PANDRIPADA	0.2	9MTR WPB	KHUMULA TAPPING TO PALBA
73	BERHAMPUR	PSED	RANJHALI	0.2	9MTR WPB	KESHPURVILLAGE
74	BERHAMPUR	PSED	OLD GUDIALI	0.2	9MTR WPB	KHOLIKOTE ROAD
75	RAYAGADA	RED	TOWN-1	0.25	9MTR PSC	ROHIT COLONY 2ND LINE TO XCELL
76	RAYAGADA	RED	TOWN-1	0.25	9MTR PSC	ROHIT COLINY 9TH LANE TO JASWIN RESIDENCY
77	RAYAGADA	RED	TOWN-4	0.05	9MTR PSC	WOMEN SCHOOL
78	RAYAGADA	RED	RANIGUDA	0.1	9MTR PSC	MANGALA MANDIRA
79	RAYAGADA	RED	BISSAMCUTTACK TOWN	0.06	9MTR PSC	AIRTEL TOWER-+2 COLLEGE

CONVERSION OF 11KV BARE TO COVERED CONDUCTOR

S.NO	NAME OF CIRCLE	NAME OF DIVISION	NAME OF 11KV FEEDER	CONSIDERED LENGTH (CKM)	TYPE POLE REQUIRED	LOCATION FROM-TO
80	RAYAGADA	RED	DAKULUGUDA-II	0.1	9MTR PSC	KUSUMGUDI-
81	RAYAGADA	RED	KUMARDHAMUNI	0.07	9MTR PSC	KUMARDHAMUNI ROAD-LINE AB SWITCH
82	JEYPORE	NED	JHARIGAM TOWN	0.8	11MTR WPB	HTJ2304-3/151 TO 19.7222,82.3702
83	JEYPORE	NED	NO-II	0.8	11MTR WPB	NUABANDHA SAHI TO LINE AB SWITCH & BACK SIDE OF CHRISTIAN HOSPITAL
84	JEYPORE	KED	SEMILIGUDA TOWN	0.7	9MTR WPB	WIDA OFFICE
85	JEYPORE	KED	BILEIGUDA TOWN	0.9	9MTR WPB	BILEIGUDA MEDICAL TO COLEGE ROAD
86	CITY	BED-III	SOROLA	1.4	9MTR PSC	SOROLA VILLAGE- SOROLA VILLAGE

Location Sl No. 20

LOCATION FOR 33KV AB SWITCH

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	33 KV FEEDER NAME	LOCATION OF PROPOSED AB SWITCH	NO. OF LINE AB SWITCH REQUIRED(IN SET)
1	ASKA	AED-I	ASKA	BALISIRA	BALISIRA (SORDA)	K.NUAGAON/GUNTHAPADA	2
2	ASKA	GSED	CHIKITI	CHIKITI	PATRAPUR	RAMCHANDRAPUR	1
3	ASKA	GSED	CHIKITI	CHIKITI	CHIKITI	KARABALUA	1
4	BERHAMPUR	GNED	KHALLIKOTE	KHALLIKOTE	KHALLIKOTE	BIKRAMPUR	1
5	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	KESHPUR	ODIALPUR	1
6	BERHAMPUR	HED	HINJILICUT	KANCHURU	TARA TARINI -HINJILI	I BETWEEN NANDIKA & AMBAGAC	1
7	BERHAMPUR	HED	HINJILICUT	KANCHURU	TARA TARINI -HINJILI	NEAR GANDOLA TAPPING	1
8	BERHAMPUR	HED	HINJILICUT	KANCHURU	TARA TARINI -HINJILI	NEAR KUREISUNI TEMPLE	1
9	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	KHALIKOTE BEGUNIAPADA 33 KV FEEDER	TIRIDA	1
10	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	BEGUNIPADA SUMANDALA 33 KV LINE	BANIABADI	1
11	BHANJANAGAR	BNED	BHANJANAGAR-I	TILISING	TILISING	1.GOLAPADA2.KOTIBIRADI	2
12	BHANJANAGAR	BNED	BHANJANAGAR-I	TILISING	GALLERY	1.BORIBANDHA2.SORISAMULI	2
13	BHANJANAGAR	BNED	BHANJANAGAR-I	TILISING	GAYAGANDA	NJARA SAHI	2
14	BHANJANAGAR	BOED	BOUDH	BOUDH	33KV PHULBANI FEEDER	PENJISAHI	1
15	BHANJANAGAR	BOED	BOUDH	BAUNSUNI	33KV BAUNSUNI FEEDER	KHAIRAMAL	1
16	BHANJANAGAR	BOED	BOUDH	BAUNSUNI	33KV JANHAPANK FEEDER	JANHAPANK	1
17	BHANJANAGAR	BOED	BOUDH	MANAMUNDA	33KV GHANTAPADA FEEDER	UDAYPUR	1
18	BNEC	PED	PHULBANI	KHAJURIPADA	KHAJURIPADA	SAMARDEGA RAOD	1
19	BNEC	PED	PHULBANI	PHIRINGIA	NUAPADAR	DIMIRIGUDA	1
20	BNEC	PED	PHULBANI	PHIRINGIA	PHIRINGIA	DINDIRAGAON	1
21	BNEC	PED	PHULBANI	PHIRINGIA	BALIGUDA	DINDIRAGAON	1
22	BNEC	PED	BALLIGUDA	BALLIGUDA	BALLIGUDA	1.DASIGUDA2.KATARI SAHI	1
23	BNEC	PED	BALIGUDA	DARINGBADI	DARINGBADI	LAKATI,PATANGI	1
24	BNEC	PED	G.UDAYAGIRI	TIKABALI	CHAKAPAD	BHURTANGA	1
25	BNEC	PED	G.UDAYAGIRI	TIKABALI	TIKABALI(FROM G.UDAYAGIRI GSS)	DUNGI	1
26	BNEC	PED	G.UDAYAGIRI	RAIKIA	KARADA	MANIKESWAR	1
27	BNEC	PED	G.UDAYAGIRI	RAIKIA	RAIKIA	RAIKIA	1
28	JEYPORE	JED	BORIGUMMA	B.SINGHPUR	B.SINGHPUR	OLD BORIGUMMA	1
29	JEYPORE	JED	BORIGUMMA	B.SINGHPUR	B.SINGHPUR	MUNDAGUDA	1
30	JEYPORE	JED	JESD-1	NO3	DONGAGUDA (JEYPORE NO III)	EKTAGUDA	1
31	JEYPORE	JED	JESD-1	NO3	JEYPORE.1	DIGAPUR ROAD & JAYANAGAR	1
32	JEYPORE	JED	JESD-1	BOIPARIGUDA	RAMAGIRI	MAJHIGUDA	1

LOCATION FOR 33KV AB SWITCH

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	33 KV FEEDER NAME	LOCATION OF PROPOSED AB SWITCH	NO. OF LINE AB SWITCH REQUIRED(IN SET)
33	JEYPORE	JED	JESD-1	BOIPARIGUDA	BOIPARIGUDA	GHASARDA	1
34	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	LAMATAPUT FEEDER	KHUJEL,NANDAPUR HATAPADA	1
35	JEYPORE	JED	JESD-1	NO3	JEYPORE.2	DIGAPUR ROAD&JAYANAGAR	1
36	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	MATAMPUT FEEDER	DUDIPADAR, CHANGUDIPADA	1
37	JEYPORE	JED	JESD-1	BOIPARIGUDA	MANTRIAMBA	GHANIPUT	1
38	JEYPORE	KED	KORAPUT	KORAPUT NO-1	SUNABEDA PSS-OLD KORAPUT PSS	APER PLATE FACTORY, MOHANPAI	1
39	JEYPORE	KED	KORAPUT	KORAPUT NO-1	PODAGADA GSS-MEDICAL	BARIGUDA, LENRIMALIGUDA	1
40	JEYPORE	KED	SUNABEDA	SEMILIGUDA	SUNABEDA GSS-ANLABADA PSS	AR BHARATMALA ROAD SIDE, DAM	1
41	JEYPORE	KED	LAXMIPUR	BANDHUGAON	NARAYANPATNA PSS-BANDHUGAON PSS	BAGAM CHAKKA, KATRAGADA	1
42	JEYPORE	KED	SUNABEDA	NANDAPUR	BELEIGUDA PSS-NANDAPUR PSS	PITAGUDA, JANIGUDA	1
43	JEYPORE	KED	SUNABEDA	POTTANGI	POTTANGI GSS-TOSALI	SUNKI GHATI	1
44	JEYPORE	KED	LAXMIPUR	KAKRIGUMA	PODAGADA GSS-KAKRIGUMA PSS	AMBOGUDA, NEAR PANCHADA CH	1
45	JEYPORE	KED	LAXMIPUR	KAKRIGUMA	PODAGADA GSS-DASMANTAPUR PSS	BALIGHAT	1
46	JEYPORE	KED	SUNABEDA	NANDAPUR	NANDAPUR PSS-PADWA PSS	NDAPUR BLOCK OFFICE, BANJARAI	1
47	JEYPORE	KED	LAXMIPUR	BANDHUGAON	BANDHUGAON PSS-KUMBHARIPUT PSS	NALABADI, MADAPADAR	1
48	JEYPORE	MED	MALKANGIRI	MALKANGIRI	MALKANGIRI_PANDRIPANI & PADMAGIRI	DAMSITE PETROL PUMP (CHAMPAI	1
49	JEYPORE	MED	MALKANGIRI	MALKANGIRI	MALKANGIRI_PANDRIPANI & PADMAGIRI	JHARAPALLI	1
50	JEYPORE	MED	BALIMELA	BALIMELA	MATHILI (BALIMELA)	SUNANAGAR	1
51	JEYPORE	MED	MALKANGIRI	KALIMELA	PODIA	GOLAGUDA	1
52	JEYPORE	NED	UMERKOTE	CHANDAHANDI	JHARIGAON TO CHANDAHANDI	ADURGA MANDIR,HALDI KHALIAI	2
53	RAYAGAD	PKED	UPPALADA	RAIGADA	JEERANG	SUBULUDA	1
54	RAYAGAD	PKED	UPPALADA	GARABANDHA	GARABANDHA	GOSANI	1
55	RAYAGAD	PKED	R UDAYAGIRI	KHAJURIPADA	NUAGADA	NEAR BUS STAND	1
56	RAYAGAD	PKED	R UDAYAGIRI	R UDAYAGIRI	RAMAGIRI	NEAR GRID	1
57	RAYAGADA	GED	GUNUPUR	GUDUMA	33KV PADMAPUR	BAHUPADAR VILLAGE	1
58	RAYAGADA	GED	GUNUPUR	GUDUMA	33KV GUDARI	BABADI CHAKK & BANTOGUDA RO	1
59	RAYAGADA	GED	GUNUPUR	GUDUMA	RAMANAGUDA	BANGI CHOWK	1
60	RAYAGADA	GED	GUNUPUR	GUNUPUR RURAL	BIKRAMPU	NEAR ARBINDO SCHOOL	1
61	RAYAGADA	GED	GUNUPUR	GUNUPUR RURAL	JALTAR	IN JALTAR	1
62	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	GADHIYAKHALA-2(MEGALIFT)	GADHIYAKHALA-2(MEGALIFT)	1
63	RAYAGADA	GED	GUNUPUR	GUDUMA	MINAJHOLA	TANDIKONA	1
64	RAYAGADA	RED	RAYAGADA	JK PUR	AMALABHATA	MUNISING & JHINJILIBADI	2

Location Sl No. 21

LOCATION FOR 33KV 1250AMP ISOLATOR

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	33 KV FEEDER NAME	LOCATION OF PROPOSED AB SWITCH	NO. OF ISOLATOR
1	ASKA	AED-I	ASKA	DHARAKOTE	SORDA	IN BETWEEN KARIGUMA AND SORDA PSS	2
2	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	KHALIKOTE BEGUNIAPADA 33 KV LINE	TIRIDA	1
3	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	KANTAMAL FEEDER	JALAPALLI	1
4	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	GHANTAPADA FEEDER	SRIMAL	1
5	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	MANAMUNDA FEEDER	RT OFFICE(WATER TANK)	1
6	ASKA	GSED	CHIKITI	CHIKITI	JAGAPUR	PITATALI 4 POLE	2
7	BHANJANAGAR	BNED	BHANJANAGAR-I	BHEJIPUT	BHANJANAGAR	1.SATYA SAI LINE AB SWITCH 2.BHALIYA GHUCHA 4 P0LE JUNCTION	2
8	ASKA	AED-II	K S NAGAR	BUDHAMBA	33KV- BUDHAMBA	K S NAGAR MEDICAL ROAD	1

Location Sl No. 22

LOCATION FOR 11KV AB SWITCH

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	LOCATION OF PROPOSED AB SWITCH	QTY(NO.S)
1	ASKA	AED-I	ASKA	DHARAKOTE	SINGIPUR	SINGIPUR SAPTASILA NAGAR , KAITHURA , JAHADA	1
2	ASKA	AED-I	ASKA	DHARAKOTE	MUNDAMARAI	DHAUGAM KALI TEMPLE	1
3	ASKA	AED-I	ASKA	NUAGAON-1	COLLEGE SQUARE	BENIA	1
4	ASKA	AED-I	NUAGAM	NUAGAM-LL	SHERAGADA	KARNOLI TAP	1
5	ASKA	AED-I	ASKA	BALISIRA	GUNTHAPADA	GUNTHAPADA,GOLABANDHAPALLI,LANDAJUALI	2
6	ASKA	AED-I	ASKA	BALISIRA	NIMINA	KHUKUNDIA,PANASAPALLI,NAHADA	3
7	ASKA	AED-II	K S NAGAR	K S NAGAR	BARIDA	OSING VILLAGE	1
8	ASKA	AED-II	K S NAGAR	K S NAGAR	GUDIALLI	BHALUKHALA	1
9	ASKA	AED-II	BUGUDA	BUGUDA	BUGUDA TOWN	BADASANKHA BUGUDA	1
10	ASKA	AED-II	BUGUDA	BUGUDA	GOLIA	KUSHAPALLI CANAL HUDA	1
11	ASKA	AED-II	BUGUDA	BALIPADAR	PANGIDI	MANIBANDHA HADA	1
12	ASKA	AED-II	K S NAGAR	BUDHAMBA	PAIKAJAMINA	TOWARDS BANAPALLI VILLAGE	1
13	ASKA	GSED	CHIKITI	PATRAPUR	BOMKEI	BABANAPUR TAPPING	1
14	ASKA	GSED	CHIKITI	PATRAPUR	KESARIPADA SAGY	KESARIPADA	1
15	ASKA	GSED	CHIKITI	CHIKITI	RAMPA-BARADA	POLOSARA	1
16	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	DIGAPAHANDI RURAL	TURUBUDI	1
17	ASKA	GSED	CHIKITI	NUAPADA	KHARIAGUDA	MUKUNDAPUR TAKURANI TEMPLE	1
18	ASKA	GSED	DIGAPHANDI	PODAMARI	PHASIGUDA	NEAR RAMOJI MATHA TOTA	1
19	ASKA	GSED	CHIKITI	SURANGI	MANDARDA	BUDAGADA TAPPING	1
20	ASKA	GSED	CHIKITI	SURANGI	KELUA	BADABARANGA	1
21	BERHAMPUR	HED	HINJLICUT	KANCHURU	SARU	SHARADHAPUR TOKAITHAKHANDI,KANTEIKOLI TO RWSS CHAITANYAPADA	2
22	BERHAMPUR	HED	HINJLICUT	PITALA	PITALA	KIRTIPUR	1

LOCATION FOR 11KV AB SWITCH

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	LOCATION OF PROPOSED AB SWITCH	QTY(NO.S)
23	BERHAMPUR	HED	SHERAGADA	KONKARADA	KURULA	NEAR THAKURANI TEMPLE,KARAKHANDI	1
24	BERHAMPUR	HED	SHERAGADA	KONKARADA	GOVINDAPUR	NEAR PATHARAPUNJI LINE CROSSING,GOVINDAPUR	1
25	BERHAMPUR	HED	SHERAGADA	PATTAPUR	JURA	PIPILIGUDA	1
26	BERHAMPUR	HED	SHERAGADA	PATTAPUR	ANKORADA	AMBAGAN	1
27	BERHAMPUR	HED	SHERAGADA	PATTAPUR	PADMANAVPUR	PATRAPGIRI	1
28	BERHAMPUR	PSED	PURUSOTTAMPUR	PURUSOTTAMPUR	PSPUR	KUMARI	1
29	BERHAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	RABJHALI	KESHPUR SHIVA TEMPLE AND MUKUNDAPUR, NEAR NIRUPAMA CUTPOINT	1
30	BERHAMPUR	PSED	POLASARA	POLASARA	BELAGAON	NEAR CHANDIPUR MILL	1
31	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	CHIRIKIPADA	2.NEAR ANDRA WALA TAPPING	1
32	BERHAMPUR	PSED	POLASARA	CHIRKIPADA	PANDIRIPADA	NEAR SABITRI BAGADA	1
33	BERHAMPUR	PSED	KODALA	KODALA	OLDGUDIALI	GHODAPADA	1
34	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	BEGUNIAPADA	BASANTABANA	1
35	BERHAMPUR	PSED	KODALA	POLASARA	KALAMBA	BALIBANDHA CHAKK	1
36	BERHAMPUR	GNED	RAMBHA	GANJAM	NUAPALLI	BADACHAKATA,BALRAMPUR	2
37	BERHAMPUR	GNED	RAMBHA	GANJAM	PLAUR	SANI MANDIR PALUR,	1
38	BERHAMPUR	GNED	RAMBHA	GANJAM	KHANDADUELI	PANIBANDHA	1
39	BERHAMPUR	GNED	RAMBHA	GANJAM	PALANG	AMBLI JHAR	1
40	BERHAMPUR	GNED			PATHARA	PATHARA KENDRASAHI	1
41	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	KANHEIPUR	BHIKAPADA WATER TANK LANE	1
42	BERHAMPUR	GNED	KHALIKOTE	KHALIKOTE	SHYAMASUNDARPUR	SHYAMASUNDARPUR ROAD CROSS NEAR HILL	1
43	BHANJANAGAR	BNED	BHANJANAGAR-II	ESO-II	DURGAPRASAD	BIRIPADAR	1
44	BHANJANAGAR	BNED	BHANJANAGAR-II	ESO-II	BAIBALLI	BAIBALLI CHHAKA	1
45	BHANJANAGAR	BNED	BHANJANAGAR-I	TILLISINGI	TURUMU	BERAUANABADI,KUTUNIKUMPA, TURUMU HORIZONASAHI,	1
46	BHANJANAGAR	BNED	BHANJANAGAR-II	KANTEIPALLY	KULANGI	POLASAPOLLI ROAD	1
47	BHANJANAGAR	BNED	BELLAGUNTHA	JN PRASAD	11 KV JHADABHUMI	JHADABHUMI	1
48	BHANJANAGAR	BNED	BELLAGUNTHA	BELAGUNTHA	11 KV UDHURA	NUA KOKALUNDA	1
49	BHANJANAGAR	BNED	SORADA	BADAGADA	GOUDAGOTHA	SUNAKHANDI	1
50	BHANJANAGAR	BNED	SORADA	BADAGADA	GANGAPUR	SADHANGIPALI	1
51	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	BAHIRA	SADEIPUR	1
52	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	TELIBANDHA	ANANDAPUR CUT POINT	1
53	BHANJANAGAR	BOED			SULIA	BAGHAMUNDA (PALSAGORA BACK SIDE)	1
54	BHANJANAGAR	BOED			SULIA	DAMM CHHAKA (LAMBSERI GP)	1
55	BHANJANAGAR	BOED	BOUDH	BOUDH	KARADI	KRUSHNAMOHANPUR	1
56	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	PURUNAKATAK	DIGISIRA REST HOUSE	1
57	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	TILESWAR	CHHELENDI TAPPING	1
58	BHANJANAGAR	BOED	BOUDH	BOUDH	BAMANDA	TANGARIPALLI	1
59	BHANJANAGAR	PED	PHULBANI	PHULBANI	TOWN NO -3	NEAR FISH MARKET	1
60	BHANJANAGAR	PED	PHULBANI	KHAJURIPADA	DUTIPADA	SAKADI	1
61	BHANJANAGAR	PED	PHULBANI	PHIRINGIA	KATRINGIA	BUDHADANI	1
62	BHANJANAGAR	PED			SALAGUDA	1.JAYAMUNDA	1
63	BHANJANAGAR	PED	BALLIGUDA	BALLIGUDA	HIGHSCHOOL	ST JOHN SCHOOL	1
64	BHANJANAGAR	PED	BALIGUDA	DARINGBADI	PRATAMAHA	DALABADI	1
65	BHANJANAGAR	PED	BALIGUDA	DARINGBADI	GADAPUR	RANGAGUDA CHAWK	1
66	BHANJANAGAR	PED			KAINJHAR	RATAKHANDI	1
67	BHANJANAGAR	PED	BALLIGUDA	TUMUDIBANDHA	DURGAPANGA FEEDER	MADHURUKUPA	1
68	BHANJANAGAR	PED	BALLIGUDA	TUMUDIBANDHA	KURTAMGARH FEEDER	DANGESHIGUDA	1
69	CITY	BED-I	GOPALPUR	GOPALPUR	HARIPUR	ANUSKA HATCHERY JN	1
70	CITY	BED-I	GOPALPUR	GOPALPUR	HARIPUR	BHAGINIPETA	1
71	CITY	BED-I	GOPALPUR	BHANJABIHAR	GOLABANDHA	1. RAMNAGAR 2. KADARPALLI 3.GOLABANDHA	1
72	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	NARENDRAPUR MAUSI MAA TEMPLE,LAXMIPUR CHOWK CUT POINT,SITALAPALLI CHOWK	1
73	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANA	NEAR RAILWAY CROSSING, DURGA HOTEL,GOPABANDHUNAGARA,KIDZEE , 3RD LANE	1
74	CITY	BED-I	INDUSTRIAL	BIJIPUR	TOWN HALL	SBI -2NO., MASANI-2NO., JAGANNATH MANDIR	1

LOCATION FOR 11KV AB SWITCH

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	LOCATION OF PROPOSED AB SWITCH	QTY(NO.S)
75	CITY	BED-I	MEDICAL	AMBAPUA	AMBAPUA	KALINGA NAGER PUMP HOUSE	1
76	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	RC DAS LANE	1
77	CITY	BED-III	KANISI	KANISI	RANDHA	TULU ROAD (RANDHA FEEDER) - PATNAYAK CRUSHER - NEAR BALMIRA INDUSTRIES	1
78	CITY	BED-III	SDO-IV	LATHI	SUKUNDA	LANGALDEI - MOHUDA	1
79	CITY	BED-III	KANISI	JAGAPUR	SOROLA	KUMARBANDHA CUT POINTH	1
80	CITY	BED-III	KANISI	GOLANTHARA	NIST	NEAR NIST COLLEGE	1
81	CITY	BED-III	SDO-IV	LOCHAPADA	LOCHAPADA	1- SHAKTI NAGAR 2ND LANE 2- LOCHAPADA MAIN ROIAD NEAR PANCHYAT OFFICE	1
82	CITY	BED-III	SDO-IV	KUKUDAKHANDI	ANKUSHPUR	SHRIKHETRA BIHAR MAIN ROAD	1
83	CITY	BED-III	KANISI	JAGAPUR	GOLANTHARA	MYCON INSTITUE OF HARIPUR	1
84	CITY	BED-III	SDO-IV	KUKUDAKHANDI	INDUSTRIAL	1.NEAR VIKASH GRANAIT IN FRONT DEEPOL NAGAR KUKUDAKHANDI 2.BANSAL GRANAIT BAULAJHOLI	1
85	CITY	BED-II	SSD-III	GANDHINAGAR	SANABZAR	OLD FCC GANDHINAGAR	1
86	CITY	BED-II	SSD-III	GANDHINAGAR	GANDHINAGAR-II	JAGANNATH TEMPLE 7TH LANE	1
87	CITY	BED-II	SSD-III	GANDHINAGAR	HOUSING BOARD	PATHARGHAR	1
88	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	KATHAMENTU CHAKKA	1
89	CITY	BED-II	SDO-I	GATE BAZAR	GATE BAZAR	FISH MARKET	1
90	CITY	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	DHANAMERA SAHI, TARINI VIHAR	1
91	CITY	BED-II	SSD-I	ASKA ROAD	ASKA ROAD	NEAR 1ST GATE CHHAKA	1
92	JEYPORE	JED	JESD-2	RANDAPALI	UMRI	OMFED	1
93	JEYPORE	JED	JESD-2	KUNDRA	BAGDERI	BAGDERI VILLAGE	1
94	JEYPORE	JED	JESD-1	JYP 3	JEYPORE NO 2	PANCHANAN TEMPLE	1
95	JEYPORE	JED	JESD-1	JYP 3	JAYANAGAR	CHILIGUDA	1
96	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	GODIHANJAR	GODIHANJAR	1
97	JEYPORE	JED	JESD-1	BOIPARIGUDA	DIGAPUR(BOIPARIGUDA)	MUNDIGUDA	1
98	JEYPORE	JED	BORIGUMMA	BORIGUMMA	BLOCK	KENDUGUDA	1
99	JEYPORE	JED	BORIGUMMA	BORIGUMMA	KEBIDI	MANDIKOTA	1
100	JEYPORE	JED	BORIGUMMA	KOTPAD	KOTPAD TOWN	HATAPADA	1
101	JEYPORE	JED	BORIGUMMA	B.SINGHPUR	KATHARAGADA	DUARSUNI	1
102	JEYPORE	MED	BALIMELA	BALIMELA	KHEMAGURU	CHAPALPADA	1
103	JEYPORE	MED	BALIMELA	MATHILI	MATHILI	UPARSAHI	1
104	JEYPORE	MED	BALIMELA	MATHILI	SALIMI	TEMRUPALI	1
105	JEYPORE	MED	MALKANGIRI	MALKANGIRI	UDUPA	JADUGUDA	1
106	JEYPORE	MED	MALKANGIRI	KALIMELA	PODIA TOWN	GOPI SAHI	1
107	JEYPORE	MED	MALKANGIRI	KALIMELA	MV-79 TOWN	MARKET	1
108	JEYPORE	KED	LAXMIPUR	KAKIRIGUMA	PANCHADA	KANJARIGUDA	1
109	JEYPORE	KED	LAXMIPUR	KAKIRIGUMA	NALCO	DANGAMUDI, KUSUMGUDA	1
110	JEYPORE	KED	LAXMIPUR	LAXMIPUR	LAXMIPUR TOWN	RANJITGUDA, NEAR BSNL TOWER, GHODATIKIRI SQUARE	1
111	JEYPORE	KED	SUNABEDA	NANDAPUR	NANDAPUR 2 (RURAL) FEEDER	KHURJI JUNCTION, SIMLIPUT, GURADIPUT, MAJHIPUT, BADAPUT	1
112	JEYPORE	KED	KORAPUT	KORAPUT NO-2	PODAGADA NO-2	JHADIGUDA	1
113	JEYPORE	KED	SUNABEDA	POTTANGI	POTTANGI TOWN	NEAR BLOCK OFFICE	1
114	JEYPORE	KED	SUNABEDA	POTTANGI	SUNKI	RELAGADA, CHANDAKA, DALPATIGUDA, KURELPADU, JODMADULI, PANASAMANGUDI, TANGINI, SUARADA, PALAVALASA, KOTUGU	1
115	JEYPORE	KED	SUNABEDA	SUNABEDA	SIMLIGUDA/NAD	OCC NAGAR	1
116	JEYPORE	KED	SUNABEDA	SUNABEDA	BILEIGUDA TOWN	COLLEGE BACK SIDE, MITU KALAYA	1
117	RAYAGADA	GED	GUNUPUR	GUNUPUR RURAL	PUTASINGH	AREDOL TAPING	1
118	RAYAGADA	GED	GUNUPUR	GUNUPUR -TOWN	COURT	NEAR DANDASI STREET	1
119	RAYAGADA	GED	GUNUPUR	GUNUPUR -TOWN	COURT	NEAR OLD GUNUPUR CHAKK	1
120	RAYAGADA	GED	GUNUPUR	GUNUPUR -TOWN	REGADA	NAER GANESH VIHAR	1
121	RAYAGADA	GED	GUMUDA	RAMANAGUDA	TANDIKONA	NEAR BANKILOI NALO	1
122	RAYAGADA	GED	GUMUDA	RAMANAGUDA	BOIMADA	JHILIGUDA	1
123	RAYAGADA	GED	GUMUDA	RAMANAGUDA	LALBI	HATHIKHAMBA NEAR MD COLONY	1
124	RAYAGADA	GED	GUMUDA	RAMANAGUDA	MUKUNDPUR	KAILASHPUR GHATI	1
125	RAYAGADA	PKED	MOHANA	CHANDRAGIRI	ANTARABA	JUBA	1
126	RAYAGADA	PKED	MOHANA	ADAVA	BIRIKOTE	RAIPANKA	1
127	RAYAGADA	PKED	MOHANA	MOHANA	PITAPANI	DHANAPANKA BRANCH LINE	1
128	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-3	SUBHASH STATUE	1
129	RAYAGADA	PKED	PARALAKHEMUNDI	RURAL	TOWN 4	DIVISION OFFICE	1
130	RAYAGADA	PKED	UPPALADA	UPPALADA	UPPALADA	SEVALPUR CUT POINT	1
131	RAYAGADA	PKED	UPPALADA	UPPALADA	JITM	ORPHANAGE	1
132	RAYAGADA	PKED	UPPALADA	GARABANDHA	LABYANGADA	S RAOUTPUR	1

LOCATION FOR 11KV AB SWITCH

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	LOCATION OF PROPOSED AB SWITCH	QTY(NO.S)
133	RAYAGADA	RED	BISSAMCUTTACK	BISSAMCUTTACK	BISSAMCUTTACK TOWN	BYPASS ROAD	1
134	RAYAGADA	RED	BISSAMCUTTACK	BISSAMCUTTACK	BISSAMCUTTACK TOWN	NEAR DUKUM ROAD	1
135	RAYAGADA	RED	RAYAGADA	RAYAGADA-2	CHEKAGUDA	CHEKAGUDA	1
136	RAYAGADA	RED	RAYAGADA	RAYAGADA-2	TOWN-3	SAIRAM FAST FOOD	1
137	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	AMBADOLA TOWN	INDIRAPADA 4POLE	2
138	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	AMBADOLA RURAL	GHAMATGUDA,BAGDANGRI,KADAMGUDA,PURUNAPANI,BISWAL COLONY	1
139	RAYAGADA	RED	RAYAGADA	RAYAGADA-I	TOWN-I	AFTER SRIRAM NAGAR TAPPING POINT	1
140	JEYPORE	NED	NABARANGPUR	NO-II	B.MALIGUDA	1.NEAR GLAZE HOTEL	2
141	JEYPORE	NED	UMERKOTE	JHARIGAM	CHACHA	KEBIDI	1
142	JEYPORE	NED	UKT	RAIGHAR	HATIGAM	MARANGPALLI	1
143	JEYPORE	NED	PAPADAHANDI	DABUGAM	GUMUDA	AMBAGAM	1
144	JEYPORE	NED	PAPADAHANDI	DABUGAM	TOWN	DANGRIGUDA	1
145	JEYPORE	NED	PAPADAHANDI	DABUGAM	KELIA	MANIAGUDA	1

Location Sl No. 23

LOCATION FOR UG CABLE

SL No.	Circl	**Circle-Div**	**SUB -DIVISION**	**FEEDER 33 KV**	**33kV / 11kV Feeder name**
1	CITY	BED-1	LANJIPALLI	33KV	33KV MKCG EXPRESS
2	CITY	BED-III	SDO_IV	33KV	33 KV HINJLI FROM BERHAMPUR GSS
3	ASKA	AED-II	K S NAGAR	33KV	33KV- K S NAGAR
4	ASKA	AED-II	K S NAGAR	33KV	33KV- BUDHAMBA
5	KORAPUR	KED	Koraput		33 KV Kolab Feeder
	BERHAMPUR	PSED	POLASARA		POLASARA 33KV FEEDER
SL No.		**Circle-Div**	**SUB -DIVISION**	**FEEDER 11KV**	**33kV / 11kV Feeder name**
1	BERHAMPUR	BERHAMPURPSED	PURUSHOTTAMPUR	11KV	P TOWN
2	BERHAMPUR	HED		11KV	DHABALPUR
3	BERHAMPUR	BERHAMPUR-GNED	CHATRAPUR	11KV	11KV CHAMAKHANDI FEEDER
4	BERHAMPUR	BERHAMPUR-GNED	CHATRAPUR	11KV	11KV AUGUSTINUAGAON FEEDER
5	ASKA	ASKA-AED-I	ASKA	11KV	COLLEGE SQUARE
6	RAYGADA	RAYAGADA- GED	GUMUDA	11KV	TANDIKONA

Location Sl No. *Location Sl No. 24*

LOCATION OF 33KV AUTO RECLOSURE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	33KV FEEDER NAME	VOLTAGE LEVEL	LOAD OF FEEDER(AMP)	LOCATION OF PROPOSED AUTO RECLOSURE/SECTIONALISER	RURAL/URBAN
1	ASKA	AED-II	BUGUDA	BALIPADAR	33KV BUGUDA	33	243	1. AUTU-RECLOSURE 2.SECTIONALISER	URBAN

Location Sl No. 25

LOCATION OF 11KV AUTORECLOSURE

SL. NO.	CIRCLE	DIVISION	SUB-DIVISION	SECTION	33KV/11 KV FEEDER NAME	VOLTAGE LEVEL	LOCATION OF AUTO RECLOSURE	LOCATION OF SACTIONALIZER	RURAL/URBAN	SACTIONALIZER
1	BEHRAMPUR	PSED	PURUSOTTAMPUR	PSPUR	PANDIA	11	BHIMPUR(AR)	CH. NUAGAON(S1) & RAULAPALI(S2)	RURAL	2
2	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	JAMUNI	11	MAIN ROAD HUNDATA(AR	JAMUNI(S1), BURTUL(S2)	RURAL	2
3	CITY	BED-III	SDO-IV	LOCHAPADA	11KV GURANTHI	11		AUTO RCLOSER- GURANTHI SECTIONALIZE- 1- PANCHSAKTI MANDIR 2- GURANTHI FCC	RURAL	2

Location Sl No. 26

LOCATION OF 33KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	33KV FEEDER NAME	LOCATION OF FPI (AS PER GIS)	TYPE	QTY REQUIRED
1	JEYPORE	KED	KORAPUT (SUNABEDA PSS- KORAPUT PSS)	10198845, 10202345, 10215026, 10199995, 10203558, 10198703,10201943, 10199399, 10199975, 10199972, 10201845	NON-COMMUNICABLE	2
2	JEYPORE	KED	OMP (SUNABEDA GSS-OMP PSS)	10207293, 10199957, 10201382, 10202581, 10202779, 10201143, 10204166, 10207343, 10206205, 10205028, 10199011, 10205415, 10207093	NON-COMMUNICABLE	2
3	JEYPORE	KED	KOLAB (KORAPUT PSS-KOLAB PSS)	10201921, 10198735, 10203721, 10199809, 10203654, 10205856, 10201165, 10204984, 10201502, 10198986, 10198992, 10204705, 10201065	NON-COMMUNICABLE	4
4	JEYPORE	KED	NANDAPUR (BILEIGUDA PSS- NANDAPUR PSS)	10206902, 10202208, 10206374, 10200531, 10203683, 10203416, 10206138, 10206327, 10200479, 10199714, 10199093, 10201387	NON-COMMUNICABLE	4
5	JEYPORE	KED	PADWA (NANDAPUR PSS- PADWA PSS)	11262244, 11264107, 11263112, 11265676, 11266224, 11262158, 11260263, 11264510, 11265741, 11266012, 11265658, 11260668, 11264953, 11262747, 11260163, 11262178, 11262238, 11265965, 11262363, 11260546	NON-COMMUNICABLE	4
6	JEYPORE	KED	DASMANTPUR (PODAGADA GSS-DASMANTAPUR PSS)	11261142, 11264670, 11263972, 11265652, 11264353, 11260370, 11264162, 11264906, 11262038, 11260258, 11260553, 11263323	NON-COMMUNICABLE	3
7	JEYPORE	KED	KUMBHARIPUT (BANDHUGAON PSS-KUMBHARIPUT PSS)	12187987, 12189836, 12190906, 12189276, 12187606, 12188691, 12187563, 12189537, 12188808, 12188397, 12188424, 12191675, 12188369, 12186986, 12189124	NON-COMMUNICABLE	4
8	RAYAGADA	RED	HATADHIKHALA	JAMARAGUDA & BURSHIKHAMAR	NON-COMMUNICABLE	1
9	RAYAGADA	RED	DANGASORADA	BANGARADA	NON-COMMUNICABLE	1
10	ASKA	GSED	PATRAPUR	LAXMIPUR	COMMUNICABLE	1
11	ASKA	GSED	CHIKITI (DIGAPAHANDI)	LIAKHAI	COMMUNICABLE	1
12	ASKA	GSED	JAGAPUR	DHANAGHARA	COMMUNICABLE	1
13	ASKA	GSED	NUAPADA	NARAYANPUR AB	NON-COMMUNICABLE	1
14	ASKA	GSED	PODAMARI	SINGIPUR ROAD	NON-COMMUNICABLE	1
15	BHANJANAGAR	PED	PHIRINGIA	KUDUKI GHATI	NON-COMMUNICABLE	1
16	BHANJANAGAR	PED	RAIKIA	NILUNGIA	NON-COMMUNICABLE	1
17	BHANJANAGAR	PED	BALIGUDA	DINDRAGAON, DASIGUDA, DAMIRIKA, RAIKIACHHAKA, SIMANBADI, MUNDAANAJU,JAKIKIA,BALIAPANI	NON-COMMUNICABLE	1
18	BHANJANAGAR	PED	KHAJURIPADA	BARPULIA, SITALAPANI, DUTIPADA, DUTIMENDHI, ITI,	NON-COMMUNICABLE	1
19	BHANJANAGAR	BNED	JN PRASAD	B D PUR COLLAGE, SEN01E010309	NON-COMMUNICABLE	1
20	BHANJANAGAR	BNED	BELLAGUNTHA	KUSHAPALLI, 33KVN1202-854/595	NON-COMMUNICABLE	1
21	BHANJANAGAR	BNED	GALLERY	1.33KVN1104-853/781 2.33KVN1104-853/881 3.33KVN1104-853/1027	NON-COMMUNICABLE	2
22	BHANJANAGAR	BNED	GAYAGANDA	1.33KVN1104-853/248 2.33KVN1104-853/457 3.33KVN1104-853/625 4.33KVN1104-853/718	NON-COMMUNICABLE	1
23	BHANJANAGAR	BNED	BHANJANAGAR	1.33KVN1105-853/2478 2.33KVN1105-853/1492 3.33KVN1105-853/1525 4.33KVN1105-853/1649 5.33KVN1105-853/1704 6.33KVN1105-853/1732	NON-COMMUNICABLE	1
24	ASKA	AED-II	33KV BUDHAMBA	BHAGHUA RIVER	COMMUNICABLE	1
25	ASKA	AED-II	33KV BUGUDA	NEAR JHOLARI	NON-COMMUNICABLE	1
26	ASKA	AED-II	33KV BUGUDA	NEAR BADAKHOLI	COMMUNICABLE	1
27	ASKA	AED-II	33KV K S NAGAR	BHAGHUA RIVER	COMMUNICABLE	1
28	ASKA	AED-II	33KV BUDHAMBA	NEAR TRIPOLE	NON-COMMUNICABLE	1
29	ASKA	AED-II	33KV SANKULEI	TOWARDS SANKULEI	NON-COMMUNICABLE	1
30	RAYAGADA	GED	33KV GUNUPUR	NEAR GSS	COMMUNICABLE	1
31	RAYAGADA	GED	33KV GUNUPUR	NEAR SP GUDA	COMMUNICABLE	1
32	RAYAGADA	GED	33KV GUNUPUR	NEAR AYAPPA TEMPLE	COMMUNICABLE	1
33	RAYAGADA	GED	33KV GUNUPUR	NEAR ADRASH NAGAR	COMMUNICABLE	1
34	RAYAGADA	GED	33KV GADHIYA KHALA MEGALIFT	NEAR KAPALOPUR	COMMUNICABLE	1
35	RAYAGADA	GED	33KV GADHIYA KHALA MEGALIFT	NEAR DANDASI COLONY	COMMUNICABLE	1
36	RAYAGADA	GED	33KV GADHIYA KHALA MEGALIFT	NEAR GADHIYA KHALA-1	COMMUNICABLE	1
37	RAYAGADA	GED	33KV GADHIYA KHALA MEGALIFT	NEAR RIVER CROSSING	COMMUNICABLE	1
38	RAYAGADA	GED	33KV JALTAR	NEAR JALTAR AB SWITCH-1	NON-COMMUNICABLE	1
39	RAYAGADA	GED	33KV GUDARI	NEAR SINGPUR ROAD	NON-COMMUNICABLE	1
40	RAYAGADA	GED	33KV GUMUDA	NEAR ANKUSING VILLAGE	NON-COMMUNICABLE	1
41	RAYAGADA	GED	33KV RAMANAGUDA	NEAR BANGI VILLAGE	NON-COMMUNICABLE	1
42	RAYAGADA	GED	33KV PADMAPUR	NEAR OAV SCHOOL	NON-COMMUNICABLE	1
43	JEYPORE	JED	BORIGUMMA	GAGANPUR ROAD	NON-COMMUNICABLE	1
44	JEYPORE	JED	KUSUMI	NEAR BADEIGUDA	NON-COMMUNICABLE	1
45	JEYPORE	JED	JEYPORE-1	DIGAPUR ROAD	COMMUNICABLE	1
46	JEYPORE	JED	DONGAGUDA	EKTAGUDA	COMMUNICABLE	1
47	JEYPORE	JED	LAMATAPUT FEEDER	SAGAR, GULAPNDI, KHUJEL	COMMUNICABLE	1
48	JEYPORE	JED	MANTRIAMBA	GANIPUT	NON-COMMUNICABLE	1
49	JEYPORE	JED	RAMAGIRI	BALIGON	NON-COMMUNICABLE	1
50	BERHAMPUR	HED	33KV HINJLI (PURUSATTOMPUR GSS)	GANDOLA TAPPING POINT	NON-COMMUNICABLE	1
51	BERHAMPUR	HED	33KV HINJLI (PURUSATTOMPUR GSS)	S.AMBAGAON TAPPING POINT	NON-COMMUNICABLE	1
52	BERHAMPUR	HED	33KV HINJLI (PURUSATTOMPUR GSS)	NANDIKA TO HINJILI TAPPING POINT	NON-COMMUNICABLE	1
53	BERHAMPUR	PSED	KODALA	MATHASARSINGI	NON-COMMUNICABLE	1
54	BERHAMPUR	PSED	KODALA	BHATAPADA CROSSING	NON-COMMUNICABLE	1
55	BERHAMPUR	PSED	KODALA	KHAJAPALLY	COMMUNICABLE	1
56	JEYPORE	MED	33KV MATHILI (BALIMELA)	SOMNATHPUR	NON-COMMUNICABLE	1
57	JEYPORE	MED	33KV MATHILI (BALIMELA)	SUNANAGAR	NON-COMMUNICABLE	1
58	JEYPORE	MED	MALKANGIRI_PANDRIPANI & PADMAGIRI	PADMAGIRI CHOWK	NON-COMMUNICABLE	1
59	JEYPORE	MED	MALKANGIRI_PANDRIPANI & PADMAGIRI	NEAR DRDA JUNCTION	NON-COMMUNICABLE	1
60	ASKA	AED-I	NUAGAON (FROM ASKA OLD GSS)	NEAR DHOBAPALLI	NON-COMMUNICABLE	1
61	ASKA	AED-I	NEW NUAGAM (NEW ASKA GSS)	NEAR ALLIPUR ROAD	NON-COMMUNICABLE	1
62	ASKA	AED-I	NEW NUAGAM (NEW ASKA GSS)	NEAR PRADHAN CRUSHER	NON-COMMUNICABLE	1
63	RAYAGADA	PKED	UPALLADA	CITUM, UPALLADA, GURANDI, GARABANDHA, BURJANGO, SOBRA	NON-COMMUNICABLE	1

LOCATION OF 33KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	33KV FEEDER NAME	LOCATION OF FPI (AS PER GIS)	TYPE	QTY REQUIRED
64	RAYAGADA	PKED	PARALAKHEMUNDI	CHANDIPUT, MAHENDRAGADA, CHELLIGADA, R UDAYAGIRI, RAMAGIRI, JEERANGO, KHAJURIPADA, NUAGADA, LUHAGUDI	NON-COMMUNICABLE	3
65	RAYAGADA	PKED	DARINGBADI	MOHANA, ADAVA, PANIGANDA, BRAHAMANIGAON	NON-COMMUNICABLE	1
66	CITY	BED-III	CHIKTI	1- LATHI ROAD , 2- BENDALIYA ROAD , , 4- AUTO NAGAR , 5- TULU 4 POLE. 5- GOLANTHAR 4 POLE. 6- GIRSOLA GATE	NON-COMMUNICABLE	2
67	CITY	BED-III	KANISI	BACK FEED NK NAGAR PSS & GOODSHEE PSS	NON-COMMUNICABLE	2
68	CITY	BED-I	GOPALPUR	NARAYANPUR JN	NON-COMMUNICABLE	1
69	CITY	BED-I	GOPALPUR	PARVATIPUR JN	NON-COMMUNICABLE	1
70	CITY	BED-I	GOPALPUR	SATYANARAYANPUR JN	NON-COMMUNICABLE	1
71	CITY	BED-I	GOPALPUR	ANTARABATIYA	NON-COMMUNICABLE	1
72	CITY	BED-I	GOPALPUR	WATER PACKAGING FACTORY	NON-COMMUNICABLE	1
73	CITY	BED-I	BHANJABIHAR	MANDIAPALLI NH,MANDIAPALLI VILLAGE, NEAR RAILWAY CROSSING	NON-COMMUNICABLE	2
74	CITY	BED-I	DURA OUTGOING	NEAR CANAL, GOPALPUR ROAD,NEAR RAM CH PUR	NON-COMMUNICABLE	2
75	CITY	BED-I	MES	NEAR NH,CANAL ROAD, VIJAY DWAR,	NON-COMMUNICABLE	2
76	CITY	BED-I	GOPALPUR	NEAR SATYANARAYANPUR, BARJIS PENTHA, NARAYANPUR	NON-COMMUNICABLE	1
77	CITY	BED-I	MKCG EXPRESS	3-P STRUCTURE, TOWARDS GOODSHED PSS, NEAR DPSS, TOWARDS ANKULI PSS	NON-COMMUNICABLE	2
78	CITY	BED-I	AMBAPUA	33KVC1104-910/29	COMMUNICABLE	1
79	CITY	BED-I	MEDICAL	33KVC1104-910/29	COMMUNICABLE	1
80	BERHAMPUR	GNED	MALUD	PALUDGADH	NON-COMMUNICABLE	1
81	BERHAMPUR	GNED	RAMBHA	RAMBHA OUTGOING	NON-COMMUNICABLE	1
82	BERHAMPUR	GNED	BALIA	KHANDADULI PSS	NON-COMMUNICABLE	1
83	BERHAMPUR	GNED	RAMBHA	CHATRAPUR INCOMING	NON-COMMUNICABLE	1
84	JEYPORE	NED	NABARANGPUR	33KVJ2104-944/45	NON-COMMUNICABLE	1
85	JEYPORE	NED	NO-II	33KVJ2101-940/37	NON-COMMUNICABLE	1
86	JEYPORE	NED	MEGA LIFT IRRIGATION	33KVJ2101-943/73	NON-COMMUNICABLE	1
87	JEYPORE	NED	KODINGA	33KVJ2401-937/12	NON-COMMUNICABLE	1
88	CITY	BED-II	33KV BERHAMPUR-2	BINAYAK COLLEGE	NON-COMMUNICABLE	1
89	CITY	BED-II	33KV BERHAMPUR-2	LATHI LINE AB SWITCH	NON-COMMUNICABLE	1
90	CITY	BED-II	33KV KANISI	NK NAGAR TAPPING	NON-COMMUNICABLE	1
91	CITY	BED-II	LOCHAPADA	SRIKHETRAVIHAR	NON-COMMUNICABLE	1
92	CITY	BED-II	LOCHAPADA	SANJEVANI VIHAR	NON-COMMUNICABLE	1
93	CITY	BED-II	LOCHAPADA	LOCHAPADA ROAD	NON-COMMUNICABLE	1
94	CITY	BED-II	BAM-1	ASKA ROAD HANUMAN TEMPELE	NON-COMMUNICABLE	1
95	CITY	BED-II	BAM-1	SURAJ VIHAR CHILDREN PARK	NON-COMMUNICABLE	1

Location Sl No. 27

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
1	RAYAGADA	GED	PUTTASINGH	MANEGUL	NON-COMMUNICABLE	1
2	RAYAGADA	GED	PUTTASINGH	BADAMSINGH	NON-COMMUNICABLE	1
3	RAYAGADA	GED	KUJENDRI	KUJENDRI	NON-COMMUNICABLE	1
4	RAYAGADA	GED	KUJENDRI	GULUMUNDA	NON-COMMUNICABLE	1
5	RAYAGADA	GED	KUJENDRI	NARAYAN GUDA	NON-COMMUNICABLE	1
6	RAYAGADA	GED	KUJENDRI	NEELAMGUDA	NON-COMMUNICABLE	1
7	RAYAGADA	GED	SULUDI	SULUDI GUDA	NON-COMMUNICABLE	1
8	RAYAGADA	GED	SULUDI	ADAMGUDA	NON-COMMUNICABLE	1
9	RAYAGADA	GED	RAMANAGUDA	DEVADA	NON-COMMUNICABLE	1
10	RAYAGADA	GED	RAMANAGUDA	MEDICAL SIDE	NON-COMMUNICABLE	1
11	RAYAGADA	GED	BANGI	BANGI SIDE	NON-COMMUNICABLE	1
12	RAYAGADA	GED	BANGI	SUTRAJPUR SIDE	NON-COMMUNICABLE	1
13	RAYAGADA	GED	PALUPAI	KHILAPADAR	NON-COMMUNICABLE	1
14	RAYAGADA	GED	PALUPAI	PERIKHETI	NON-COMMUNICABLE	1
15	RAYAGADA	GED	BANKILI	BAETUPADU JUNCTION	NON-COMMUNICABLE	1
16	RAYAGADA	GED	BANKILI	SARGIBAI	NON-COMMUNICABLE	1
17	RAYAGADA	GED	TANDIKONA	SUNDIDAMANI	NON-COMMUNICABLE	1
18	RAYAGADA	GED	TANDIKONA	GATE COLONY	NON-COMMUNICABLE	1
19	RAYAGADA	GED	JHORADI	RABADI	NON-COMMUNICABLE	1
20	RAYAGADA	GED	JAGANNATHPUR	SINGUBAI	NON-COMMUNICABLE	1
21	RAYAGADA	GED	JAGANNATHPUR	KATOGUDA	NON-COMMUNICABLE	1
22	RAYAGADA	RED	TOWN-2	SWEEPER COLONY TAPPING POINT	NON-COMMUNICABLE	1
23	RAYAGADA	RED	TOWN-I	SRIRAM NAGAR TAPPING POINT	NON-COMMUNICABLE	1
24	RAYAGADA	RED	TOWN 3	GANDHI NAGAR JUNCTION	NON-COMMUNICABLE	1
25	RAYAGADA	RED	TOWN 3	INDRA NAGAR 1ST LANE	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
26	RAYAGADA	RED	TOWN 2	MUNICIPALTY SQUARE	NON-COMMUNICABLE	1
27	RAYAGADA	RED	GORAKHPUR	BASANGMALI	NON-COMMUNICABLE	1
28	RAYAGADA	RED	GORAKHPUR	TELENGIRI	NON-COMMUNICABLE	1
29	RAYAGADA	RED	KUCHEIPADAR	D KOROL	NON-COMMUNICABLE	1
30	RAYAGADA	RED	JK PUR	KOMTALPETA	NON-COMMUNICABLE	1
31	RAYAGADA	RED	KOLNARA	DHEPAGUDA	NON-COMMUNICABLE	1
32	RAYAGADA	RED	TOWN 4	SACRED HEART SCHOOL	NON-COMMUNICABLE	1
33	RAYAGADA	RED	TOWN 4	FIRE STATIONROAD	NON-COMMUNICABLE	1
34	RAYAGADA	RED	STATION DAHIKHALA	STATION DAHIKHAL & KALIKOLATHA	NON-COMMUNICABLE	1
35	RAYAGADA	RED	BHAIRABGADA	SINGARI,NIALI,TABAPADAR,SOLAGUDI,MERING	NON-COMMUNICABLE	2
36	RAYAGADA	RED	DAHIKHALA BACK	BHURSIKHAMA,HATADAHIKALA,GAUDAGUDA,BANDHUGUDA,GATIGUDA,DALIAKUJI,SAKATA,TIKARAP	NON-COMMUNICABLE	2
37	RAYAGADA	RED	HANUMANTPUR	RAIBIJI CAMP,MODIGUDA,UABALI,TAPRIKUPDA	NON-COMMUNICABLE	2
38	RAYAGADA	RED	AMBADOLA RURAL	GHAMATGUDA,BAGDANGRI,JANABALI,PURUNA PANI,BISWAL COLONY	NON-COMMUNICABLE	2
39	ASKA	GSED	KESARIPADA (SAGY)	19.120914,84.553223	NON-COMMUNICABLE	1
40	ASKA	GSED	JAYANTIPUR	19.0776 ,84.5860	NON-COMMUNICABLE	1
41	ASKA	GSED	TUMBA	19.078026,84.508844	NON-COMMUNICABLE	1
42	ASKA	GSED	DUMULA	BADAPALLI	NON-COMMUNICABLE	1
43	ASKA	GSED	CHIKITI PENTHO	BRAHMANAGAR	NON-COMMUNICABLE	1
44	ASKA	GSED	KOTLING	CHILADI	NON-COMMUNICABLE	1
45	ASKA	GSED	KRUSHNAPUR	LIAKHAI	NON-COMMUNICABLE	1
46	ASKA	GSED	CHIKITI PENTHO	INDOOR STADIUM	NON-COMMUNICABLE	1
47	ASKA	GSED	DIGAPAHANDI TOWN	19.3837,84.5601(GHODAHADA CHAKA	NON-COMMUNICABLE	1
48	ASKA	GSED	DIGAPAHANDI TOWN	19.3787,84.5655(FEAST HOTEL)	NON-COMMUNICABLE	1
49	ASKA	GSED	DIGAPAHANDI RURAL	19.3295,84.6108(TURUBUDI)	NON-COMMUNICABLE	1
50	ASKA	GSED	PADMANAVAPUR	19.3487,84.5741(CHAITANPUR)	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
51	ASKA	GSED	NUAPADA	CAPACITOR AB SWITCH TAPPING	NON-COMMUNICABLE	1
52	ASKA	GSED	KHARIAGUDA	BUDIANCHALA TAPPING	NON-COMMUNICABLE	1
53	ASKA	GSED	KHARIAGUDA	KENDUGUMMA TAPPING	NON-COMMUNICABLE	1
54	ASKA	GSED	DENGAUSTA	NEAR SATABHAUNI TEMPLE	NON-COMMUNICABLE	1
55	ASKA	GSED	PODAMARI	SRIRAMNAGAR	NON-COMMUNICABLE	1
56	ASKA	GSED	DENGAUSTA	DENGAUSTA	NON-COMMUNICABLE	1
57	ASKA	GSED	KELUA	19.1800, 84.5873	NON-COMMUNICABLE	1
58	ASKA	GSED	MANDARADA	19.1419, 84.4980	NON-COMMUNICABLE	1
59	ASKA	GSED	RAJAPUR	19.1729, 84.5507	NON-COMMUNICABLE	1
60	BHANJANAGAR	PED	KELAPADA	KOILARI	NON-COMMUNICABLE	1
61	BHANJANAGAR	PED	KATRINGIA	ALAMI	NON-COMMUNICABLE	1
62	BHANJANAGAR	PED	KATRINGIA	BUDHADANI	NON-COMMUNICABLE	1
63	BHANJANAGAR	PED	KATRINGIA	PARIGAON	NON-COMMUNICABLE	1
64	BHANJANAGAR	PED	NO-3	DATAPAJU	NON-COMMUNICABLE	1
65	BHANJANAGAR	PED	NO-3	PANASAPADAR	NON-COMMUNICABLE	1
66	BHANJANAGAR	PED	SADINGIA	LATPANGIA	NON-COMMUNICABLE	1
67	BHANJANAGAR	PED	SADINGIA	PANGA	NON-COMMUNICABLE	1
68	BHANJANAGAR	PED	SADINGIA	SIKERI	NON-COMMUNICABLE	1
69	BHANJANAGAR	PED	DARSINGIBADI	KARUMAHA	NON-COMMUNICABLE	1
70	BHANJANAGAR	PED	DARSINGIBADI	DADARBADI	NON-COMMUNICABLE	1
71	BHANJANAGAR	PED	DARSINGIBADI	GAHEJU	NON-COMMUNICABLE	1
72	BHANJANAGAR	PED	GADAPUR	DAHAMAHA	NON-COMMUNICABLE	1
73	BHANJANAGAR	PED	GRESSINGIA	NEAR BANASREE HOSTEL	NON-COMMUNICABLE	1
74	BHANJANAGAR	PED	LINGAGADA	RAIKALA	NON-COMMUNICABLE	1
75	BHANJANAGAR	PED	LINGAGADA	SUDHIPADA	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
76	BHANJANAGR	PED	KAINJHAR	GANDAGAN,BIRIDISAHI,LUJURAMUNDA,KATHAPADAR	NON-COMMUNICABLE	2
77	BHANJANAGR	PED	CHAHALI	GADRAGAN,CHAHALI,RAIPADA,RAGAPAJU,DALAK	NON-COMMUNICABLE	2
78	BHANJANAGAR	BNED	BHANJANAGAR TOWN	BAUNSOLUNDI BANDHA	NON-COMMUNICABLE	1
79	BHANJANAGAR	BNED	BHANJANAGAR TOWN	PARIBA MARKET	NON-COMMUNICABLE	1
80	BHANJANAGAR	BNED	GAMUNDI	GAMUNDI SIVA MANDIR	NON-COMMUNICABLE	1
81	BHANJANAGAR	BNED	GAMUNDI	SISU MANDIR SQ	NON-COMMUNICABLE	1
82	BHANJANAGAR	BNED	KOKOLABA	HTN1104-6/31,NEAR GAYAGANDA	NON-COMMUNICABLE	1
83	BHANJANAGAR	BNED	BELLAGUNTHA TOWN	GOPINATH SAHI	NON-COMMUNICABLE	1
84	BHANJANAGAR	BNED	BELLAGUNTHA TOWN	KOLI SAHI SS 1	NON-COMMUNICABLE	1
85	BHANJANAGAR	BNED	UDHURA	RAJANPALLI	NON-COMMUNICABLE	1
86	BHANJANAGAR	BNED	UDHURA	SUTUNUSAR TAPPING POINT	NON-COMMUNICABLE	1
87	BHANJANAGAR	BNED	AMBAPUA	AMBAPUA PANCHAYAT OFFICE	NON-COMMUNICABLE	1
88	BHANJANAGAR	BNED	AMBAPUA	CHADHIAPALLI	NON-COMMUNICABLE	1
89	BHANJANAGAR	BNED	AMBAPUA	AMBAPUA SCHOOL SIDE	NON-COMMUNICABLE	1
90	BHANJANAGAR	BNED	UAGAON(BELLAGUNTH	KUSHAPALLI TAPPING	NON-COMMUNICABLE	1
91	BHANJANAGAR	BNED	UAGAON(BELLAGUNTH	G NUAGAON BANDHA SAHI	NON-COMMUNICABLE	1
92	BHANJANAGAR	BNED	MANGALPUR	BLS PUR 63 KVA VILLAGE	NON-COMMUNICABLE	1
93	BHANJANAGAR	BNED	BANKA	SORODO PURUNA SAHI	NON-COMMUNICABLE	1
94	BHANJANAGAR	BNED	KADUA	RAUTI SQA	NON-COMMUNICABLE	1
95	BHANJANAGAR	BNED	KADUA	MAHULIAGADA	NON-COMMUNICABLE	1
96	BHANJANAGAR	BNED	JHADABHUMI	JAMAGORADA	NON-COMMUNICABLE	1
97	BHANJANAGAR	BNED	JHADABHUMI	GANDHADHAR	NON-COMMUNICABLE	1
98	BHANJANAGAR	BNED	PANCHABHUTI	MALINGI	NON-COMMUNICABLE	1
99	BHANJANAGAR	BNED	PANCHABHUTI	DHODAPALLI	NON-COMMUNICABLE	1
100	ASKA	AED-II	11KV- PATHRA	PATHRA MAN ROAD	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
101	ASKA	AED-II	11KV- BOLOSARA	TOWARDS BOLOSARA	NON-COMMUNICABLE	1
102	ASKA	AED-II	11KV- BOLOSARA	TOWARDS NANDIAGADA	NON-COMMUNICABLE	1
103	ASKA	AED-II	11KV- PAIKAJAMUNA	TOWARD BAUNSIA	NON-COMMUNICABLE	1
104	ASKA	AED-II	11KV- PAIKAJAMUNA	TOWARDS BANAPALLI	NON-COMMUNICABLE	1
105	ASKA	AED-II	1KV- ATHAGADA PATN.	TOWARDS PATHRAPALLI	NON-COMMUNICABLE	1
106	ASKA	AED-II	1KV- ATHAGADA PATN.	TOWARDS ATHAGADA PATNA	NON-COMMUNICABLE	1
107	ASKA	AED-II	11KV- BADAMAHURI	TOWARDS BADAMAHURI	NON-COMMUNICABLE	1
108	ASKA	AED-II	11KV- BALIPADAR	TOWARDS MAHULAPALLI	NON-COMMUNICABLE	1
109	ASKA	AED-II	11KV- BALIPADAR	OUTSIDE BALIPADAR PSS	NON-COMMUNICABLE	1
110	ASKA	AED-II	11KV- GAHANGU	TOWARDS GAHANGU	NON-COMMUNICABLE	1
111	ASKA	AED-II	11KV- A. KARDABADI	BANAPALLI	NON-COMMUNICABLE	1
112	ASKA	AED-II	11KV- A. KARDABADI	TOWARDS EKADALA	NON-COMMUNICABLE	1
113	ASKA	AED-II	11KV- PANGIDI	TOWARDS BELAPADA	NON-COMMUNICABLE	1
114	ASKA	AED-II	11KV- MOTABADI	NAGIRI	NON-COMMUNICABLE	1
115	ASKA	AED-II	11KV- MOTABADI	TALASAKARA	NON-COMMUNICABLE	1
116	ASKA	AED-II	11KV- GOLIA	TOWARDS KATAKALA	NON-COMMUNICABLE	1
117	ASKA	AED-II	11KV- MANITARA	TOWARDS KARADAPALLI	NON-COMMUNICABLE	1
118	ASKA	AED-II	11KV- MANITARA	TOWARS MANITARA	NON-COMMUNICABLE	1
119	ASKA	AED-II	11KV- KARCHULLI	KARCHULLI	NON-COMMUNICABLE	1
120	ASKA	AED-II	11KV- KARCHULLI	TAKARADA	NON-COMMUNICABLE	1
121	JEYPORE	JED	TOWN	SOURAGUDA TAPPING,NEAR FIRE STATION,KALIA PETROL PUMP ABSWITCH	NON-COMMUNICABLE	1
122	JEYPORE	JED	LINGRAJ NAGAR	CENTRAL PARK,JANKARDEI MANDIR,5OOKVA IRRIGATION COLONY,BLOCK OFFICE	NON-COMMUNICABLE	1
123	JEYPORE	JED	NO-2	PATHANMASANI,COVID MEDICAL,BD COLLEGE,VETENARY OFFICE,BSNL	NON-COMMUNICABLE	1
124	JEYPORE	JED	JAYANAGAR	SHIVA MANDIR,CHILIGUDA,PAIK SAHI LINE AB SWITCH	NON-COMMUNICABLE	2
125	JEYPORE	JED	UMURI	TOWARDS RAILWAY,TOWARDS SWAMINATHAN ,TOWARDS BANKABIJA	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
126	JEYPORE	JED	KUNDRA	PSS BACKSIDE,NEAR SASTRI MAIDAN,NEAR FIRESTATION	NON-COMMUNICABLE	2
127	JEYPORE	JED	DANGARPAUNSI	ARJUN TAPPING,REDDY POINT TAPPING,SUNDHIGUDA TAPPINGKALIAKONADI TAPPING	NON-COMMUNICABLE	2
128	JEYPORE	JED	NO.1	LAXMI NAGAR,CHANDAN BADA,BALIPETA	NON-COMMUNICABLE	1
129	JEYPORE	JED	GANDHI CHAKK	JAIL CHAKK ,NADIABADA CHAKK,GANDHI CHAKK,4 POLE SBI	NON-COMMUNICABLE	1
130	JEYPORE	JED	BARINIPUT	DAYA SETHI ,GATE GUDA,NEW COLONY,B MALIGUDA	NON-COMMUNICABLE	1
131	JEYPORE	JED	KHADAPA FEEDER	BADAJIUNA, SALAPA,DHARANAHANDI, SALPA LI POINT, BADAJEUNA SCHOOL	NON-COMMUNICABLE	2
132	JEYPORE	JED	RAMAGIRI	KAUDIAGUDA	NON-COMMUNICABLE	1
133	JEYPORE	JED	TANGINIGUDA	HATIPKANA,MANTRIAMBA,CHIPA KUR,	NON-COMMUNICABLE	2
134	JEYPORE	JED	KOTPAD TOWN	AMLABHATTA AB SWITCH ,KENDUGUDA AB SWITCH ,MACHKATA AB SWITCH ,SECTION	NON-COMMUNICABLE	1
135	JEYPORE	JED	KATHARAGADA	KATHRAGUDA TO BHALUMAHAL, LATHIKOTAR, DUARSUNI,PINDAPODAR,	NON-COMMUNICABLE	2
136	BERHAMPUR	HED	BHABANDHA	SAHAPUR LINEAB SWITCH	NON-COMMUNICABLE	1
137	BERHAMPUR	HED	BHABANDHA	BHABANDHA LINEAB SWITCH	NON-COMMUNICABLE	1
138	BERHAMPUR	HED	BHABANDHA	SARGUNAPALLI LINEAB SWITCH	NON-COMMUNICABLE	1
139	BERHAMPUR	HED	BHABANDHA	BHABABANDHA HARIJANA STREET	NON-COMMUNICABLE	1
140	BERHAMPUR	HED	BHABANDHA	SIKHARPUR PETROL PUMP	NON-COMMUNICABLE	1
141	BERHAMPUR	HED	BHABANDHA	ILPAPALLI SAHAPUR TAPPING POIN	NON-COMMUNICABLE	1
142	BERHAMPUR	HED	BADAKHANDI	POCHILIMA CHOWK	NON-COMMUNICABLE	1
143	BERHAMPUR	HED	BADAKHANDI	VR PALLI LINEAB SWITCH	NON-COMMUNICABLE	1
144	BERHAMPUR	HED	BADAKHANDI	SINGIPUR LINEAB SWITCH	NON-COMMUNICABLE	1
145	BERHAMPUR	HED	BADAKHANDI	MAKARJHOLA LINEAB SWITCH	NON-COMMUNICABLE	1
146	BERHAMPUR	HED	BADAKHANDI	NEW MAKARJHOLA LINEAB SWITCH	NON-COMMUNICABLE	1
147	BERHAMPUR	HED	BADAKHANDI	GOLIAGHAI LINEAB SWITCH	NON-COMMUNICABLE	1
148	BERHAMPUR	HED	BADAKHANDI	NEAR BADAKHANDI DSS	NON-COMMUNICABLE	1
149	BERHAMPUR	HED	DARUBHADRA	APALLI TO DARUBHADRA TAPPING I	NON-COMMUNICABLE	1
150	BERHAMPUR	HED	DARUBHADRA	JBHADRA TAPPING POINTTO SAPUA	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
151	BERHAMPUR	HED	DARUBHADRA	JBHADRA LINEAB SWITCH TO KHAJI	NON-COMMUNICABLE	1
152	BERHAMPUR	HED	DARUBHADRA	JBHADRA LINEAB SWITCH TO KHAJI	NON-COMMUNICABLE	1
153	BERHAMPUR	HED	DARUBHADRA	DURBANDHA SCHOOL	NON-COMMUNICABLE	1
154	BERHAMPUR	HED	DARUBHADRA	BANDHA HIGH SCHOOL TO DAYAP	NON-COMMUNICABLE	1
155	BERHAMPUR	HED	DARUBHADRA	DAYAPALLI RWSS TAPPING POINT	NON-COMMUNICABLE	1
156	BERHAMPUR	HED	DARUBHADRA	LI TOWER CUT BPOINT NEAR GANDI	NON-COMMUNICABLE	1
157	JEYPORE	MED	KORUKONDA	MV-48, MV-31 AND MV-32	NON-COMMUNICABLE	3
158	JEYPORE	MED	MARIWADA	MV-24, MV-25	NON-COMMUNICABLE	2
159	JEYPORE	MED	PANGAM	B PANGAM	NON-COMMUNICABLE	1
160	JEYPORE	MED	PANGAM	BHEJAGUDA	NON-COMMUNICABLE	1
161	JEYPORE	MED	PANGAM	CHAULMENDI	NON-COMMUNICABLE	1
162	JEYPORE	MED	SALIMI	TEMRUPALI LINE	NON-COMMUNICABLE	1
163	JEYPORE	MED	SALIMI	DUSANAND LINE	NON-COMMUNICABLE	1
164	JEYPORE	MED	TUMSAPALLY	PEDAWADA	NON-COMMUNICABLE	1
165	JEYPORE	MED	MV-7	MV-47	NON-COMMUNICABLE	1
166	JEYPORE	MED	DAMSIDE	TENTULIGUDA	NON-COMMUNICABLE	1
167	JEYPORE	MED	CHALLANGUDA	SIMILIGUDA	NON-COMMUNICABLE	1
168	JEYPORE	MED	CHALLANGUDA	MV91	NON-COMMUNICABLE	1
169	JEYPORE	MED	MV 7	MV 1	NON-COMMUNICABLE	1
170	JEYPORE	MED	MV-96	MPV-42,MV-80,PEBDULBAI MV-127,KUNANPALLI	NON-COMMUNICABLE	5
171	ASKA	AED-I	COLLEGE SQUARE	BENIA	NON-COMMUNICABLE	1
172	ASKA	AED-I	COLLEGE SQUARE	KHARIA	NON-COMMUNICABLE	1
173	ASKA	AED-I	COLLEGE SQUARE	KOTINADA PS	NON-COMMUNICABLE	1
174	ASKA	AED-I	COLLEGE SQUARE	K L PALLI	NON-COMMUNICABLE	1
175	ASKA	AED-I	COLLEGE SQUARE	HARADAPADAR	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
176	ASKA	AED-I	COLLEGE SQUARE	KUMBHARI	NON-COMMUNICABLE	1
177	ASKA	AED-I	BHETANAI	CHARMILE	NON-COMMUNICABLE	1
178	ASKA	AED-I	BHETANAI	SIDHANAI LINE AB	NON-COMMUNICABLE	1
179	ASKA	AED-I	BHETANAI	ANKIT GOAT FIRM	NON-COMMUNICABLE	1
180	ASKA	AED-I	BHETANAI	PANDIAPATHAR LINE AB	NON-COMMUNICABLE	1
181	ASKA	AED-I	BHETANAI	BHEJIPUT	NON-COMMUNICABLE	1
182	ASKA	AED-I	BHETANAI	DHANIJA ROAD	NON-COMMUNICABLE	1
183	ASKA	AED-I	NUAGAON	BABANPUR	NON-COMMUNICABLE	1
184	ASKA	AED-I	NUAGAON	HIGH SCHOOL ROAD	NON-COMMUNICABLE	1
185	ASKA	AED-I	MUKUNDPUR	BARAGAON	NON-COMMUNICABLE	1
186	RAYAGADA	PKED	ANTARABA	BADAKUA BRANCH	NON-COMMUNICABLE	1
187	RAYAGADA	PKED	KASINAGAR TOWN-1	NEW KASINAGAR	NON-COMMUNICABLE	1
188	RAYAGADA	PKED	KASINAGAR TOWN-1	BUS STAND LINE	NON-COMMUNICABLE	1
189	RAYAGADA	PKED	KASINAGAR TOWN-2	PATEL ROAD	NON-COMMUNICABLE	1
190	RAYAGADA	PKED	TOWN-1	TOWN-1	NON-COMMUNICABLE	1
191	RAYAGADA	PKED	TOWN-2	TOWN-2	NON-COMMUNICABLE	1
192	RAYAGADA	PKED	TOWN-3	TOWN-3	NON-COMMUNICABLE	1
193	RAYAGADA	PKED	TOWN 4	TOWARDS GANDHI NAGAR	NON-COMMUNICABLE	1
194	RAYAGADA	PKED	TOWN 4	TOWARDS TREASURY	NON-COMMUNICABLE	1
195	RAYAGADA	PKED	TOWN 4	NEAR DIVISION OFFICE	NON-COMMUNICABLE	1
196	RAYAGADA	PKED	PHD	NEAR RTO OFFICE	NON-COMMUNICABLE	1
197	RAYAGADA	PKED	PHD	NEAR COURT	NON-COMMUNICABLE	1
198	RAYAGADA	PKED	PHD	NEAR MI OFFICE TAPPING	NON-COMMUNICABLE	1
199	RAYAGADA	PKED	PHD	TOWARDS DIC OFFICE	NON-COMMUNICABLE	1
200	RAYAGADA	PKED	KERANDI	FOREST GATE	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
201	RAYAGADA	PKED	KERANDI	TOWRDS OLD KERANDI	NON-COMMUNICABLE	1
202	RAYAGADA	PKED	KERANDI	TOWRDSDALIMBAPUR	NON-COMMUNICABLE	1
203	RAYAGADA	PKED	KERANDI	NEAR BSITAPUR	NON-COMMUNICABLE	1
204	RAYAGADA	PKED	JITM	NEAR UTKAL BALASHRAM	NON-COMMUNICABLE	1
205	RAYAGADA	PKED	JITM	TOWRDS JAJPUR	NON-COMMUNICABLE	1
206	RAYAGADA	PKED	UPPALDA	ADASING	NON-COMMUNICABLE	1
207	JEYPORE	KED	PANCHADA FEEDER	TUNPAR, KANJARIGUDA, NEAR HUMAN TEMPLE	NON-COMMUNICABLE	3
208	JEYPORE	KED	NALCO FEEDER	TUNNEL	NON-COMMUNICABLE	1
209	JEYPORE	KED	CHHOTAGUDA	MAJIGUDA VILLAGE	NON-COMMUNICABLE	1
210	JEYPORE	KED	KORAPUT NO-2	MEGHARAJ	NON-COMMUNICABLE	1
211	JEYPORE	KED	KORAPUT NO-3	KANHEIPUT	NON-COMMUNICABLE	1
212	JEYPORE	KED	PODAGADA NO-2	NANDIGAON AB SWITCH, DAYANIDHIGUDA AB SWITCH, PANASPUT, RAJUGUDA AB	NON-COMMUNICABLE	5
213	JEYPORE	KED	COFFEE BOARD	1ST IRBN 4 POLE, LAURIGUDA AB SWITCH, BILAGHATI	NON-COMMUNICABLE	3
214	JEYPORE	KED	RAPKONA FEEDER	KUMBHIKOTA AB SWITCH, KHALKONA AB SWITCH, KUTINGA ABSWITCH	NON-COMMUNICABLE	3
215	JEYPORE	KED	CHAMPI FEEDER	BIRIGUDA AB SWITCH, MARBAIGUDA AB SWITCH	NON-COMMUNICABLE	2
216	JEYPORE	KED	LAXMIPUR TOWN	RANJITGUDA AB SWITCH	NON-COMMUNICABLE	1
217	JEYPORE	KED	BANDHUGAON TOWN	DASINI, SANA SARAPALLI	NON-COMMUNICABLE	2
218	JEYPORE	KED	GOUDAGUDA	BHITARHGUDA	NON-COMMUNICABLE	1
219	JEYPORE	KED	POTTANGI TOWN	NEAR BLOCK OFFICE	NON-COMMUNICABLE	1
220	JEYPORE	KED	PUKALI	DEO PATTANGI, PUKALI, SAMBAI, SUNABEDA, CHINDAI, PONDAI, LENJIGUDA, CHAMPAGANDA,	NON-COMMUNICABLE	9
221	JEYPORE	KED	SUNKI	RELAGADA, CHANDAKA, DALPATIGUDA, KURELPADU, JODMADULI, PANASAMANGUDI,	NON-COMMUNICABLE	10
222	JEPORE	KED	BADEL	BALDA, KHITBA, SOMLI	NON-COMMUNICABLE	3
223	CITY	BED-III	GURANTHI	1- SABATRA RICE MILL 2- GURANTHI GRAM PANCHYAT OFFICE	NON-COMMUNICABLE	3
224	CITY	BED-III	NIMAKHANDI	NEAR PSS 4 POLE	NON-COMMUNICABLE	2
225	CITY	BED-III	LOCHAPADA	HANUMAN TEMPLE	NON-COMMUNICABLE	2

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
226	CITY	BED-III	BORIGAON	BORIGAON TOWARDS B. JAGANATTHPUR BORIGAON TOWARDS BKCHPUR	NON-COMMUNICABLE	2
227	CITY	BED-III	GURANTHI	1- PANCHSAKTI MANDIR 2- GURANTHI FCC	NON-COMMUNICABLE	2
228	CITY	BED-III	ANKUSHPUR	OMFED CHOWK & ANKUSHPUR CHOWK	NON-COMMUNICABLE	2
229	CITY	BED-III	KUKUDAKHANDI	HANUMAN TEMPLE NEAR BLOCK OFFICE	NON-COMMUNICABLE	2
230	CITY	BED-III	NIST	NEAR NIST COLLEGE	NON-COMMUNICABLE	3
231	CITY	BED-III	TOWN	NEAR GANDHI COLLEGE	NON-COMMUNICABLE	1
232	CITY	BED-III	SANSAPADAR	GUJADI CHIKRADA SIHALA	NON-COMMUNICABLE	3
233	CITY	BED-III	BHAIRABHI	BHAIRABI	NON-COMMUNICABLE	2
234	CITY	BED-III	SUKUNDA	BARAPALLI SUKUNDA MATHA MANDIR	NON-COMMUNICABLE	2
235	CITY	BED-III	MOHUDA	GRAM VIKAS KANKIYA TAMANA	NON-COMMUNICABLE	4
236	CITY	BED-III	LATHI	KUMARPUR, MANOHARA, BENDALIYA	NON-COMMUNICABLE	3
237	CITY	BED-III	SOROLA	KUMARBANDHA CUT POINT GOVINDPUR 4 POLE	NON-COMMUNICABLE	4
238	CITY	BED-III	SUVANI	R. SUVANI	NON-COMMUNICABLE	1
239	CITY	BED-III	GOLANTHAR	HARIPUR VILLAGE	NON-COMMUNICABLE	1
240	CITY	BED-II	GANDHINAGAR-2	PURNABASI COLONY	COMMUNICABLE	1
241	CITY	BED-II	CITY HOSPITAL	TARINI BIHAR	COMMUNICABLE	1
242	CITY	BED-II	CITY HOSPITAL	JAGANNATH BIHAR AB SWITCH	COMMUNICABLE	1
243	CITY	BED-II	CITY HOSPITAL	GANAPATI NAGAR	COMMUNICABLE	1
244	CITY	BED-II	CITY HOSPITAL	HARSHA VIHAR	COMMUNICABLE	1
245	CITY	BED-II	CITY HOSPITAL	SANJIVANI VIHAR	COMMUNICABLE	1
246	CITY	BED-II	CITY HOSPITAL	JAGANNATHBIHAR PHD	COMMUNICABLE	1
247	CITY	BED-II	ASKA ROAD	GAYATRI VIHAR	COMMUNICABLE	1
248	CITY	BED-II	ASKA ROAD	HARIDAKHANDI PETROL PUMP	COMMUNICABLE	1
249	CITY	BED-II	SRIRAM NAGAR	CHAITANYA NAGAR TAPPING	COMMUNICABLE	1
250	CITY	BED-II	SRIRAM NAGAR	RAJA SAHI CHAKKA	COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
251	CITY	BED-II	SRIRAM NAGAR	GIRI MARKET CHAKKA	COMMUNICABLE	1
252	CITY	BED-II	SRIRAM NAGAR	DHANAMERA AB SWITCH	COMMUNICABLE	1
253	CITY	BED-II	SRIRAM NAGAR	AUTO NAGAR RAY PROJECT	COMMUNICABLE	1
254	CITY	BED-II	SRIRAM NAGAR	BINAYAK HIGH SCHOOL CHHAKA	COMMUNICABLE	1
255	CITY	BED-II	SRIRAM NAGAR	GURUMURTYPETA	COMMUNICABLE	1
256	CITY	BED-II	SRIRAM NAGAR	SRIRAM NAGAR CHHAKA	COMMUNICABLE	1
257	CITY	BED-II	AUTO NAGAR	AUTO NAGAR 2 ND LINE	COMMUNICABLE	1
258	CITY	BED-II	AUTO NAGAR	AUTO NAGAR 3 ND LINE	COMMUNICABLE	1
259	CITY	BED-II	AUTO NAGAR	AUTO NAGAR 3RD LANE	COMMUNICABLE	1
260	CITY	BED-II	OLD BERHAMPUR	DIGAPAHANDI ROAD	COMMUNICABLE	1
261	CITY	BED-II	GOSANINUAGAM	ADDITIONAL SUBSTATION	COMMUNICABLE	1
262	CITY	BED-II	GOSANINUAGAM	ROYAL PHARMACY	COMMUNICABLE	1
263	CITY	BED-II	GOSANINUAGAM	MANGO MARKET	COMMUNICABLE	1
264	CITY	BED-II	OLD BERHAMPUR	JAGABANDHU ROAD	COMMUNICABLE	1
265	CITY	BED-II	UB ROAD	MAUYR TOWER	COMMUNICABLE	1
266	CITY	BED-II	DALUA SAHI	MILTARY LANE	COMMUNICABLE	1
267	CITY	BED-II	BRAJANAGAR	RADIO STATION	COMMUNICABLE	1
268	CITY	BED-II	TULSINAGAR	NILADRI VIHAR	COMMUNICABLE	1
269	CITY	BED-II	TULSINAGAR	SURAJ VIHAR PHASE -II CHILDREN PARK	COMMUNICABLE	1
270	CITY	BED-I	HARIPUR	AGRAHAM LINE AB	COMPACT	1
271	CITY	BED-I	HARIPUR	BHAGINIPETA	COMPACT	1
272	CITY	BED-I	HARIPUR	HARIAPALLI	COMPACT	1
273	CITY	BED-I	NARAYANPUR	ALLIPUR JN	COMPACT	1
274	CITY	BED-I	NARAYANPUR	BISU CROSSER	COMPACT	1
275	CITY	BED-I	NARAYANPUR	PUNAM SPIRIT	COMPACT	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
276	CITY	BED-I	GOPALPUR TOWN	REU STREET	COMPACT	1
277	CITY	BED-I	GOPALPUR TOWN	ROHINI JN	COMPACT	1
278	CITY	BED-I	OLD GOPALPUR	ANTARBATYA	COMPACT	1
279	CITY	BED-I	KARAPALLI	BIKRAMPUR	COMPACT	1
280	CITY	BED-I	DURA	KALINGA VIHAR NEAR NH CROSSING	NON-COMMUNICABLE	1
281	CITY	BED-I	GAUNJU	NEAR GAUNJU GP OFFICE	COMMUNICABLE	1
282	CITY	BED-I	RAGHUNATHPUR	NEAR KALYAN MANDAP AT JAGANNATHPUR,NEAR TATA SEZ,NEAR DEFENCE COLONY,NEAR	COMMUNICABLE	1
283	CITY	BED-I	JHADANKULI	AT TAPPING OF POULTRY FIRM,AT JHADANKULI TAPPING,AT SANAKUSTALI TAPPING	COMMUNICABLE	1
284	CITY	BED-I	TATA COLONY	AT BADAPUR,AT SINDHIGAON,AT TAPPING MADHUA	COMMUNICABLE	1
285	CITY	BED-I	NARENDRAPUR	AT TAPPING PANCHAYAT OFFICE,AT PANDARA SAHI	COMMUNICABLE	1
286	CITY	BED-I	NH ANKULI	SRIHARINAGARA,GANJU ROAD,DISHA AVENUE,POLE FATORY,BHANJABIHARA LINE AB	COMMUNICABLE	3
287	CITY	BED-I	CHANDIMANDIRA	JAIL ROAD TAPPING, JATRA PADIA TAPPING ,INDIRA NAGARA	COMMUNICABLE	2
288	CITY	BED-I	HILLPATANA	CIRCUIT HOUSE,HILLPATANA TAPPING	COMMUNICABLE	2
289	CITY	BED-I	COURTPETA	NEAR MINOR IRRIGATION OFFICE AND AJADHYA NAGER NEAR DIG COLONY	COMMUNICABLE	2
290	CITY	BED-I	HOSPITAL	BIOMADICAL WASTAGES	COMMUNICABLE	3
291	CITY	BED-I	RAGHUNATHAPUR	JAGANNATHAPUR TAPPING,TATA SCZ TAPPING,DEFENCE COLONY TAPPING AND RAGHUNATHAPUR	COMMUNICABLE	3
292	CITY	BED-I	NARENDRAPUR	NARENDRAPUR PANCHAYAT OFFICE TAPPING	NON-COMMUNICABLE	3
293	CITY	BED-I	KARAPALLI	1.NEW NARAYANPUR TAPPING 2.BIKRAMPUR ODRP TAPPING 3. TARINI PENTHA TAPPING	NON-COMMUNICABLE	3
294	CITY	BED-I	GOLABANDHA	1.HATIPADA 2. ODRP GOLABANDHA 3.KADARPALLI	NON-COMMUNICABLE	3
295	BERHAMPUR	GNED	K.P GADA	NATA	NON-COMMUNICABLE	1
296	BERHAMPUR	GNED	K.P GADA	BADA ANLA	NON-COMMUNICABLE	1
297	BERHAMPUR	GNED	BAULAGAON	BAULAGAON CHAKKA,KHURIGAON	NON-COMMUNICABLE	2
298	BERHAMPUR	GNED	CHATRAPUR RURAL	ALIABAD,HUMBAR	NON-COMMUNICABLE	2
299	JEYPORE	NED	TOWN NO-II	HTJ2101-2/7	NON-COMMUNICABLE	1
300	JEYPORE	NED	TOWN NO-I	HTJ2101-1/274	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
301	JEYPORE	NED	B.MALIGUDA	HTJ2104-1/26	NON-COMMUNICABLE	1
302	JEYPORE	NED	CHUTIAGUDA	HTJ2101-2/327	NON-COMMUNICABLE	1
303	JEYPORE	NED	DEULA	HTJ2104-4/574	NON-COMMUNICABLE	1
304	JEYPORE	NED	DEULA	HTJ2104-4/231	NON-COMMUNICABLE	1
305	JEYPORE	NED	MANTRIGUDA	HTJ2401-8/126	NON-COMMUNICABLE	1
306	JEYPORE	NED	MANTRIGUDA	HTJ2401-8/289	NON-COMMUNICABLE	1
307	JEYPORE	NED	KONDAPURI	HTJ2402-10/64	NON-COMMUNICABLE	1
308	JEYPORE	NED	CHIRIMA	HTJ2402-3/184	NON-COMMUNICABLE	1
309	JEYPORE	NED	MENDAHABEDA	HTJ2301-5/44	NON-COMMUNICABLE	1
310	JEYPORE	NED	UMERKOTE TOWN	HTJ2301-1/370	NON-COMMUNICABLE	1
311	JEYPORE	NED	UMERKOTE DNK	HTJ2301-2/41	NON-COMMUNICABLE	1
312	JEYPORE	NED	SILATI	HTJ2301-9/59	NON-COMMUNICABLE	1
313	JEYPORE	NED	SILATI	HTJ2301-9/383	NON-COMMUNICABLE	1
314	JEYPORE	NED	PUJARIGUDA	HTJ2301-8/180	NON-COMMUNICABLE	1
315	JEYPORE	NED	CHACHA	HTJ2304-4/3594	NON-COMMUNICABLE	1
316	JEYPORE	NED	CHOTAGUDA	HTJ2304-2/213	NON-COMMUNICABLE	1
317	JEYPORE	NED	DANDAMUNDA	HTJ2305-3/102	NON-COMMUNICABLE	1
318	JEYPORE	NED	DEOBANDH	HTJ2305-2/1433	NON-COMMUNICABLE	1
319	JEYPORE	NED	PARCHIPARA	19.945814,81931392	NON-COMMUNICABLE	1
320	CITY	BED-III	SOROLA	BAGHAMARA	NON-COMMUNICABLE	1
321	CITY	BED-III	SOROLA	KATURU TAP POINT	NON-COMMUNICABLE	2
322	BHANJANAGAR	BOED	GUNDULIA	1.TILPANGA 2. KHAJURIPADA 3.SAG	NON-COMMUNICABLE	3
323	BHANJANAGAR	BOED	TELIBANDHA	1.KAMPARA 2.KULTAKHALI 3.MUNI	NON-COMMUNICABLE	3
324	BHANJANAGAR	BOED	DAHYA - 1	1. ROXA 2. MASINAPADA 3.PADMAN	NON-COMMUNICABLE	3
325	BHANJANAGAR	BOED	BAGHIAPADA	1. DURGAPRASAD 2.MAJHISHAI D/P 3. BADAGUCCHAPALI DP+BAHALPALI	NON-COMMUNICABLE	3

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
326	BHANJANAGAR	BOED	BAMANDA	1.POLAS MURSHUNDI SIDE 2. TALABAHAL 3. NARAYAN PUR	NON-COMMUNICABLE	3
327	BHANJANAGAR	BOED	SULIA	1.LAMSARI 2.PARA 3. JUNANI	NON-COMMUNICABLE	3
328	BHANJANAGAR	BOED	AMBAGON	1.UMA	NON-COMMUNICABLE	1
329	BHANJANAGAR	BOED	BILASPUR	1.GOPALPUR 2.	NON-COMMUNICABLE	2
330	BEHRAMPUR	PSED	BHATAKUMARADA	OAV ,NIMAPALLI & NUAPALLI	NON-COMMUNICABLE	2
331	BEHRAMPUR	PSED	JAMUNI	BURTULU ,HUNDATA AND GANGADAHANI	NON-COMMUNICABLE	2
332	BERHAMPUR	PSED	KALAMBA	KHANDURU	NON-COMMUNICABLE	1
333	BERHAMPUR	PSED	BELAGAON	BOTH LINE AB SWATICH & GHOTALI TAPPING	NON-COMMUNICABLE	2
334	BERHAMPUR	PSED	PANDIRIPADA	GOCHHABADI	NON-COMMUNICABLE	1
335	BERHAMPUR	PSED	PANDIRIPADA	KASIPADA	NON-COMMUNICABLE	1
336	BERHAMPUR	PSED	PANDIRIPADA	KENDUBADI	NON-COMMUNICABLE	1
337	BERHAMPUR	PSED	RUMAGADA	NEAR KHAPARAKHANDA	NON-COMMUNICABLE	1
338	BERHAMPUR	PSED	RUMAGADA	NEAR MALATIBADI	NON-COMMUNICABLE	1
339	BERHAMPUR	PSED	OLD GUDIALI	JHARANAI TAPPING	NON-COMMUNICABLE	1
340	BERHAMPUR	PSED	OLD GUDIALI	KALI TEMPLE TAPPING	NON-COMMUNICABLE	1
341	BERHAMPUR	PSED	OLD GUDIALI	KUSANAPUR TAPPING	NON-COMMUNICABLE	1
342	BERHAMPUR	PSED	PHASI	BETARAPALLI	NON-COMMUNICABLE	1
343	BERHAMPUR	PSED	MATHASARSINGI	BADAPALLI	NON-COMMUNICABLE	1
344	BERHAMPUR	PSED	MATHASARSINGI	JAGILIPADAR	NON-COMMUNICABLE	1
345	BERHAMPUR	PSED	MATHASARSINGI	KINARI	NON-COMMUNICABLE	1
346	BERHAMPUR	PSED	BEGUNIAPADA	TIRIDA	NON-COMMUNICABLE	1
347	BERHAMPUR	PSED	OLD ANGARAGAON	PIHANIA	NON-COMMUNICABLE	1
348	BERHAMPUR	PSED	SUMANDALA	SOURAPALLI	NON-COMMUNICABLE	1
349	BERHAMPUR	PSED	NEW ANGARAGAON	KHASUA	NON-COMMUNICABLE	1
350	BERHAMPUR	PSED	NEW ANGARAGAON	HANSTULI	NON-COMMUNICABLE	1

LOCATION OF 11KV FPI

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11 KV FEEDER NAME	LOCATION OF FPI	TYPE	QTY REQUIRED(SET)
351	BERHAMPUR	PSED	NEW ANGARAGAON	BEGUNIADIHA	NON-COMMUNICABLE	1
352	BERHAMPUR	PSED	TALASARA	TALAGAON	NON-COMMUNICABLE	1
353	BERHAMPUR	PSED	MUNDULA	SORADAPALLI	NON-COMMUNICABLE	1
354	BERHAMPUR	PSED	ODONAI	CHINGUDIKHOLA	NON-COMMUNICABLE	1

Location Sl No. 28

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
1	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR TOWN	DIPSON	250	3	0	0	0	0	1	1
2	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR TOWN	REU STREET	500	3	1	1	1	0	1	1
3	CITY	BED-I	GOPALPUR	GOPALPUR	HARIPUR	B LAXMIPUR	100	3	1	1	1	0	1	1
4	CITY	BED-I	GOPALPUR	GOPALPUR	HARIPUR	AGRAHAM	250	3	1	1	1	0	1	1
5	CITY	BED-I	GOPALPUR	GOPALPUR	HARIPUR	HARIAPALLI	100	3	1	1	1	0	1	1
6	CITY	BED-I	GOPALPUR	GOPALPUR	HARIPUR	S PAIKAPADA	63	3	1	1	1	0	1	1
7	CITY	BED-I	GOPALPUR	GOPALPUR	NARAYANPUR	NARAYANPUR	250	3	1	1	1	0	1	1
8	CITY	BED-I	GOPALPUR	GOPALPUR	NARAYANPUR	NARAYANPUR NEW HATA	100	3	1	1	1	0	1	1
9	CITY	BED-I	GOPALPUR	GOPALPUR	BAXIPALI	DIGIPUR PP	63	3	1	1	1	0	1	1
10	CITY	BED-I	GOPALPUR	GOPALPUR	BAXIPALI	BAXIPALI PP	100	3	1	1	1	0	1	1
11	CITY	BED-I	GOPALPUR	BHANJABIHAR	KARAPALLI	ANTARBATIA	25	3	1	1	1	0	1	1
12	CITY	BED-I	GOPALPUR	BHANJABIHAR	KARAPALLI	SATYANARAYANPUR MAIN ROAD	63	3	1	1	1	0	1	1
13	CITY	BED-I	GOPALPUR	BHANJABIHAR	RAMACHANDRAPUR	RWSS	25	3	1	1	1	0	0	1
14	CITY	BED-I	GOPALPUR	HEADQUARTER	RAGHUNATHPUR	FOREST OFFICE	250	3	1	1	1	0	0	1
15	CITY	BED-I	INDUSTRIAL	LANJIPALLI	CHANDIMANDIRA	INDIRANAGARA	500	3	1	1	1	0	0	1
16	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANA	HILLPATANA 3RD LINE	500	3	1	1	1	0	0	0
17	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANA	SPLENDER SPECTRUM APPATMENT	250	3	1	1	1	0	0	0
18	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANA	MALATI APPARTMENT	100	3	1	1	1	0	0	0
19	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANA	GANDHIMUNDA	250+100	3	1	1	1	0	0	0
20	CITY	BED-I	INDUSTRIAL	LANJIPALLI	NH ANKULI	SIBASHARTHNAGARA 12TH LINE	100	3	1	1	1	0	0	0
21	CITY	BED-I	INDUSTRIAL	LANJIPALLI	GOODS ROAD	BATAGANESH	250	3	1	1	1	0	1	1
22	CITY	BED-I	INDUSTRIAL	LANJIPALLI	NIGAMNAGARA	NIGAMNAGARA 4TH LINE	100	3	1	1	1	0	0	0
23	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TATABENZ	MANJARI NAGAR	250	3	1	1	1	0	0	0
24	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	SRIKRISHNA BIHAR 2ND LINE	100	3	1	1	1	0	0	0
25	CITY	BED-I	MEDICAL	AMBAPUA	KHODASINGI	JAYADURGA NAGER	250	3	1	1	1	0	0	1
26	CITY	BED-I	MEDICAL	AMBAPUA	AJADHYA NAGER	GAJAPATI NAGER 3RD LINE	250	3	1	1	1	0	0	0
27	CITY	BED-I	MEDICAL	AMBAPUA	AJADHYA NAGER	BIDYUTPURI COLONY	2X100	3	1	1	1	0	0	1
28	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	HOUSING BOARD	500	3	1	1	1	0	0	0
29	CITY	BED-I	MEDICAL	AMBAPUA	AJADHYA NAGER	SANKAR NIWAS	100	3	1	1	1	0	0	0
30	CITY	BED-I	MEDICAL	AMBAPUA	GAJAPATI NAGAR	BASUDEV NAGER 1ST LANE	100	3	1	1	1	0	0	0
31	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	DIVIK BIHAR NEAR NURSERY LINE AB	100	3	1	1	1	0	0	0
32	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	AKBAR MUTTON (GIS ID-118802)	100	3	0	0	0	0	1	0
33	CITY	BED-I	MEDICAL	MEDICAL	SIDHARTH NAGAR	PATHAGAR	500	3	1	1	0	0	1	0

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
34	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	JAGANNATH TEMPLE	500	3	1	1	0	0	0	0
35	CITY	BED-I	MEDICAL	MEDICAL	BANK COLONY	BANK COLONY 1ST LANE 500KV	500	3	1	1	0	0	0	0
36	CITY	BED-I	MEDICAL	MEDICAL	SIDHARTH NAGAR	JENABANDHA	500	3	1	1	0	0	0	0
37	CITY	BED-I	MEDICAL	MEDICAL	AMBAPUA	GAJAPATI NAGAR 2ND LANE	100	3	1	1	0	0	0	0
38	CITY	BED-I	MEDICAL	MEDICAL	KAMAPALLI	ASHOK NAGAR SAUCHALAY	250	3	1	1	1	0	0	1
39	CITY	BED-I	MEDICAL	MEDICAL	KAMAPALLI	MATIHANDI	500	3	1	1	0	0	0	0
40	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	WALIA	500	3	1	1	0	0	0	0
41	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	AYODHA NAGAR 3ND LANE	500	3	1	1	0	0	0	0
42	CITY	BED-I	MEDICAL	MEDICAL	SIDHARTH NAGAR	PG BOYS HOSTEL BACK SIDE	100	3	1	1	0	0	0	0
43	CITY	BED-I	MEDICAL	MEDICAL	SIDHARTH NAGAR	BHAIRABI NAGAR 2ND LANE	100	3	1	1	0	0	0	0
44	CITY	BED-I	MEDICAL	MEDICAL	KAMAPALLI	MENTAL WARD	250	3	1	1	0	0	0	0
45	CITY	BED-I	MEDICAL	MEDICAL	HOSPITAL	MEDICINE WARD AND CANCER	500	3	1	1	0	0	0	0
46	CITY	BED-I	MEDICAL	MEDICAL	HOSPITAL	TB WARD	100	3	1	1	0	0	0	0
47	CITY	BED-I	MEDICAL	MEDICAL	COLLEGE	BOYS HOSTEL-3	100	3	1	1	0	0	0	0
48	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	BALARAMPUR-1	100	3	1	1	1	0	0	1
49	CITY	BED-I	GOPALPUR	HEADQUARTER	NARAYANPUR	NARENDRAPUR PANCHAYAT C	100	3	1	1	1	0	0	1
50	CITY	BED-II	SSD-III	GANDHINAGAR	HOUSING BOARD	SATGE-II	250+500	3	1	1	1	0	0	0
51	CITY	BED-II	SSD-III	GANDHINAGAR	SANABAZAR	MAHAMAYEE COLLAGE	500	3	1	1	1	0	0	0
52	CITY	BED-II	SSD-III	GANDHINAGAR	HIG	SRI CHAMAN APARTMENT	315	3	1	1	1	0	0	0
53	CITY	BED-II	SSD-III	GANDHINAGAR	GANDHINAGAR-II	NILAKANTHA UDYAN	100	3	1	1	1	0	0	0
54	CITY	BED-II	SSD-III	GANDHINAGAR	GANDHINAGAR-II	SARADA RESIDENCY	100	3	1	1	1	0	0	0
55	CITY	BED-II	SSD-III	GANDHINAGAR	UB ROAD	BHUBHANESWARI HOTEL	200	3	1	1	1	0	0	0
56	CITY	BED-II	SSD-III	GANDHINAGAR	GANDHINAGAR-II	GANDHINAGAR 5T LANE	250	3	1	1	1	0	0	0
57	CITY	BED-II	SSD-III	GANDHINAGAR	GANDHINAGAR-I	SHIVASHAKTI SQUARE	500	3	1	1	1	0	0	0
58	CITY	BED-II	SSD-III	GANDHINAGAR	SANABAZAR	KMR PLAZA	500	3	1	1	1	0	0	0
59	CITY	BED-II	SSD-III	GANDHINAGAR	GANDHINAGAR-I	PREM NAGAR MAIN RD	100	3	1	1	1	0	0	0
60	CITY	BED-II	SSD-III	GANDHINAGAR	GANDHINAGAR-II	HAREKRISHNA NAGAR	100	3	1	1	1	0	0	0
61	CITY	BED-II	SSD-III	GANDHINAGAR	SANABAZAR	SUB-REGISTER	500	3	1	1	1	0	0	1
62	CITY	BED-II	SSD-III	GANDHINAGAR	SANABAZAR	META SAHI	500	3	1	1	1	0	0	1
63	CITY	BED-II	SSD-III	GOSANINUGAON	GOSANINUGAON	LIC	1X100+1X500	3	1	1	1	0	0	1
64	CITY	BED-II	SSD-III	GOSANINUGAON	HILL PATNA	SUNARIBANDH	500	3	1	1	1	0	0	0
65	CITY	BED-II	SSD-III	GOSANINUGAON	HIG	KVN RAO	25	3	1	1	1	0	0	1
66	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	HARIDAKHANDI KALI MANDIR	500	3	1	1	1	0	1	0
67	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	HARIDAKHANDI BYPASS	500	3	1	1	1	0	0	0

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
68	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	SANI MANDIR I	500	3	1	1	1	0	0	0
69	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	CANAL STREET	200	3	1	1	1	0	0	0
70	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	KATHAMENTU CHHAK	500	3	1	1	1	0	0	0
71	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	GANESH NAGAR	500	3	1	1	1	0	0	0
72	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	LN STREET 11TH LANE	500	3	1	1	1	0	0	0
73	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	SHASTRI NAGAR	500	3	1	1	1	0	0	0
74	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	KUTHARI MANDIR	500	3	1	1	1	0	0	0
75	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	SANKHARI STREET	500	3	1	1	1	0	0	0
76	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	JAMADEI PENTHA	500	3	1	1	1	0	0	0
77	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	KORIBARI SAHI	500	3	1	1	1	0	0	0
78	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	KHASPA STREET	500	3	1	1	1	0	0	0
79	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR-I	POWEL STREET	400	3	1	1	1	0	0	0
80	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR-I	SANA BAZAR I	500	3	1	1	1	0	1	0
81	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR-I	ANANDA COMPLEX	500	3	1	1	1	0	0	0
82	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR-I	UTKAL CHHAK	500	3	1	1	1	0	0	0
83	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR-I	MALSENAPETTA	500	3	1	1	1	0	0	0
84	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR-I	KANJIBARI SAHI	315	3	1	1	1	0	0	0
85	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	BARIA BILLA	500	3	1	1	1	0	0	0
86	CITY	BED-II	SDO-1	GATEBAZAR	BRAJANAGAR	BRAJANAGR 2ND LANE	500	3	1	1	0	0	0	1
87	CITY	BED-II	SDO-2	GATEBAZAR	UB ROAD	KAMPASAHI	500	3	1	1	0	0	0	1
88	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	AUTO NAGAR	AUTO NAGAR 2ND LANE	100	3	1	1	1	0	0	0
89	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	AUTO NAGAR	AUTO NAGAR 1ST LANE	25	3	1	1	1	0	0	0
90	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	ASKA ROAD	DIGAPAHANDI ROAD	500 + 250	3	1	1	1	0	0	0
91	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	ASKA ROAD	1ST GATE	500	3	1	1	1	0	0	0
92	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	ASKA ROAD	RAY PROJECT 1	500	3	1	1	1	0	0	0
93	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	ASKA ROAD	RAY PROJECT 2	315	3	1	1	1	0	0	0
94	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	PADMASHREE	500	3	1	1	1	0	0	0
95	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	TARINI VIHAR	250	3	1	1	1	0	0	0
96	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	GANAPATI NAGAR 7TH LANE	100	3	1	1	1	0	0	0
97	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	BRAJARAJ NAGAR	500	3	1	1	1	0	0	0
98	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	JAGANNATH PHD	250	3	1	1	1	0	0	0
99	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	SANTIMARG	250	3	1	1	1	0	0	0
100	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	MAYURI MAJESTIC	500	3	1	1	1	0	0	0
101	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	HARSHA VIHAR 7TH LANE	250	3	1	1	1	0	0	0

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
102	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	SANJIVANI VIHAR	250	3	1	1	1	0	0	0
103	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	MAHARANA STREET	250	3	1	1	1	0	0	0
104	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	SRIRAM NAGAR	PHULASUNDARI STREET	250	3	1	1	1	0	0	0
105	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	SRIRAM NAGAR	DESIBEHERA STREET	500	3	1	1	1	0	0	0
106	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	SRIRAM NAGAR	CHAITANYA NAGAR	315	3	1	1	1	0	0	0
107	CITY CIRCLE	BED-II	SSD-3	GOSANI NUAGAON	GOSANINUGAON	NEHRU NAGAR 1ST LANE	315	3	0	0	0	0	1	0
108	CITY CIRCLE	BED-II	SSD-I	ASKA ROAD	SANABAZAR	GOLA SAHI	500	3	1	1	1	0	0	0
109	CITY	BED-III	KANISI	LATHI	BALIPADA	WATER SUPPLY 25KVA LANJIA	25	3	1	1	1	0	0	1
110	CITY	BED-III	KANISI	KANISI	HALADIAPADAR	HANUMAN NAGAR	100	3	1	1	1	0	1	1
111	CITY	BED-III	KANISI	KANISI	HALADIAPADAR	RAIL GATE	315	3	1	1	1	0	0	1
112	CITY	BED-III	KANISI	KANISI	HALADIAPADAR	AUTO NAGAR	250	3	1	1	1	0	0	1
113	CITY	BED-III	KANISI	JAGAPUR	SURALA	SONAPUR	315	3	1	1	1	1	0	0
114	CITY	BED-III	KANISI	JAGAPUR	SURALA	PATISONAPUR LOOLIA ODRP	25	3	1	1	1	1	0	0
115	CITY	BED-III	KANISI	JAGAPUR	SURALA	PATISONAPUR LOOLIA ODRP	25	3	1	1	1	1	0	0
116	CITY	BED-III	KANISI	JAGAPUR	SURALA	PATISONAPUR PALIA ODRP	25	3	1	1	1	1	0	0
117	CITY	BED-III	KANISI	JAGAPUR	SURALA	PATISONAPUR PALIA ODRP	25	3	1	1	1	1	0	0
118	CITY	BED-III	KANISI	JAGAPUR	SURALA	PATISONAPUR VILLAGE-2, NEA	100	3	1	1	1	1	0	0
119	CITY	BED-III	KANISI	JAGAPUR	SURALA	ANANTARAIPUR	63	3	1	1	1	1	0	0
120	CITY	BED-III	KANISI	JAGAPUR	SURALA	SURENDRA PRADHAN	25	3	1	1	1	1	0	0
121	CITY	BED-III	KANISI	JAGAPUR	SURALA	KATURU RWSS	25	3	1	1	1	1	0	0
122	CITY	BED-III	KANISI	JAGAPUR	SURALA	KOTURU VILLAGE	100	3	1	1	1	1	0	0
123	CITY	BED-III	KANISI	JAGAPUR	SURALA	SONAPUR MARINE POLICE STA	25	3	1	1	1	1	0	0
124	CITY	BED-III	KANISI	JAGAPUR	SURALA	BADA EKSING	100	3	1	1	1	1	0	0
125	CITY	BED-III	KANISI	JAGAPUR	SURALA	SANA CHANDANBADA	63	3	1	1	1	1	0	0
126	CITY	BED-III	KANISI	JAGAPUR	SURALA	SANA CHANDAN BADA	63	3	1	1	1	1	0	0
127	CITY	BED-III	KANISI	JAGAPUR	SURALA	SURLA DUNGA SAHI	100	3	1	1	1	1	1	1
128	CITY	BED-III	KANISI	JAGAPUR	SURALA	JHATIPADAR	100	3	1	1	1	1	1	0
129	CITY	BED-III	KANISI	JAGAPUR	SURALA	BISWANATHPUR JN	100	3	1	1	1	1	0	0
130	CITY	BED-III	KANISI	JAGAPUR	SUVANI	STATION ROAD	63	3	1	1	1	1	0	0
131	CITY	BED-III	KANISI	JAGAPUR	SUVANI	BALI BANDHA	63	3	1	1	1	1	0	0
132	CITY	BED-III	KANISI	JAGAPUR	SUVANI	BISWANATH PLOTTING, R SUVA	63	3	1	1	1	1	0	0
133	CITY	BED-III	KANISI	JAGAPUR	SUVANI	K SUVANI ROAD SAHI	100	3	1	1	1	1	0	0
134	CITY	BED-III	KANISI	JAGAPUR	GOLANTHARA	HARIPUR	100	3	1	1	1	1	0	1
135	CITY	BED-III	KANISI	JAGAPUR	GOLANTHARA	KHUNTAPALI	25	3	1	1	1	1	0	1

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
136	CITY	BED-III	KANISI	KANISI	RANDHA	PATAPUR RWSS	25	3	1	1	1	1	0	1
137	CITY	BED-III	KANISI	KANISI	TULU	KELLUAPLLI RWSS	25	3	1	1	1	1	0	1
138	CITY	BED-III	KANISI	KANISI	TULU	GUNUPUR RWSS	25	3	1	1	1	1	0	1
139	CITY	BED-III	KANISI	KANISI	HALADIAPADAR	FULTA RWSS	25	3	1	1	1	1	0	1
140	CITY	BED-III	KANISI	KANISI	HALADIAPADAR	KANISI VILLAGE RWSS	25	3	1	1	1	1	0	1
141	CITY	BED-III	KANISI	KANISI	RANDHA	LAXMI NRUSINGHA NAGAR	100	3	1	1	1	1	0	1
142	CITY	BED-III	SDO-4	KUKUDAKHANDI	ANKUSHPUR	ANKUSPUR RWSS	25	3	1	1	1	1	0	1
143	CITY	BED-III	SDO-4	KUKUDAKHANDI	ANKUSHPUR	ANKUSHPU SIVA TEAMPLE	25	3	1	1	1	1	0	1
144	CITY	BED-III	SDO-4	KUKUDAKHANDI	ANKUSHPUR	RATANPUR	100	3	1	1	1	1	0	1
145	CITY	BED-III	SDO-4	KUKUDAKHANDI	KUKUDAKHANDI	POST OFFICE	25	3	1	1	1	1	0	1
146	CITY	BED-III	SDO-4	KUKUDAKHANDI	KUKUDAKHANDI	BLOCK OFFICE	100	3	1	1	1	1	0	1
147	CITY	BED-III	SDO-4	KUKUDAKHANDI	KUKUDAKHANDI	OLD RAMACHANDRAPUR RWS	25	3	1	1	1	1	0	1
148	CITY	BED-III	SDO-4	LATHI	LATHI	LATHI	100	3	1	1	1	1	0	1
149	CITY	BED-III	SDO-4	LATHI	LATHI	BENDALIA	63	3	1	1	1	1	0	1
150	CITY	BED-III	SDO-4	LATHI	BALIPADA	DENGAPADAR	100	3	1	1	1	1	0	1
151	CITY	BED-III	SDO-4	LATHI	SUKUNDA	ANTEI	500	3	1	1	1	1	1	1
152	CITY	BED-III	SDO-4	LATHI	SUKUNDA	LANGALDEI	100	3	1	1	1	1	1	1
153	CITY	BED-III	SDO-4	LATHI	MOHUDA	TAMANA	100	3	1	1	1	1	1	1
154	CITY	BED-III	SDO-4	LATHI	BALIPADA	BAIGANBADI	25	3	1	1	1	1	0	1
155	CITY	BED-III	SDO-4	LATHI	LATHI	KUMARPUR	100	3	1	1	1	1	1	1
156	CITY	BED-III	SDO-4	LATHI	LATHI	BANTHPALI	100/63	3	1	1	1	1	1	1
157	ASKA	AED-I	ASKA	DHARAKOTE	MUNDAMAREI	BHANDARIBASA COLONY	100	3	1	1	1	1		
158	ASKA	AED-I	ASKA	DHARAKOTE	SINGIPUR	KAITHURA-1	100	3			1	1		
159	ASKA	AED-I	ASKA	DHARAKOTE	JHARAPARI	JHARAPARI VILLAGE-2 MAIN R	100	3			1	1		
160	ASKA	AED-I	ASKA	DHARAKOTE	JHARAPARI	BADULA CHHAKA	100	3			1	1		
161	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	NALABANTA BAURISAHI	100	3			1	1		
162	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	R.D. PALLI	100	3			1	1		
163	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	KALASHANDHAPUR, SORADA I	100	3			1	1		
164	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	KALASHANDHAPUR 250+100KV	250+100	3	1	1		1		
165	ASKA	AED-I	NUAGAM	NUAGAM-I	NUAGAM	NUAGAM GANGA DHAR NAGA	63	3	0	1	1	1	0	0
166	ASKA	AED-I	NUAGAM	NUAGAM-I	NUAGAM	NUAGAM KALI MUKHI	250+100	3			1	1		
167	ASKA	AED-I	NUAGAM	NUAGAM-I	NUAGAM	BABANPUR BADA DANDA SAHI	315+100	3			1	1		
168	ASKA	AED-I	NUAGAM	NUAGAM-I	COLLEGE SQR	BENIA NEAR SCHOOL	100+63	3	0	1	1	1	0	0
169	ASKA	AED-I	NUAGAM	NUAGAM-I	COLLEGE SQR	BENIA RWSS	25	3	0	1	1	1	0	0

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
170	ASKA	AED-I	NUAGAM	NUAGAM-I	BHETANAI	DHUNKUNI	100	3			1	1		
171	ASKA	AED-I	NUAGAM	NUAGAM-I	BHETANAI	SAHAPUR	100	3	0	1	1	1	0	0
172	ASKA	AED-I	NUAGAM	NUAGAM-I	BHETANAI	SAHAPUR RWSS	25	3	0	1	1	1	0	0
173	ASKA	AED-I	NUAGAM	NUAGAM-I	BHETANAI	NARAYANPUR VILLAGE	100	3			1	1		
174	ASKA	AED-I	NUAGAM	NUAGAM-I	COLLEGE SQR	COLLEGE SQR	500	3	1	1		1		
175	ASKA	AED-I	NUAGAM	BALISIRA	NIMINA	KESARAPALLI	100	3			1	1		
176	ASKA	AED-I	NUAGAM	BALISIRA	BALISIRA/KAMAGADA	KAMAGADA	250	3	1		1	1		
177	ASKA	AED-I	NUAGAM	BALISIRA	GANGAPUR	K.NUAGAON	250	3	1	1	1	1		
178	ASKA	AED-I	NUAGAM	BALISIRA	GANGAPUR	MANGALPUR	315	3			1	1		
179	ASKA	AED-I	NUAGAM	ASKA	JOKABANDA	JOKABANDA	500	3			1	1		
180	ASKA	AED-I	NUAGAM	ASKA	ASKA BUS STAND	BANI BIHAR PHD	500	3	1	1		1		
181	ASKA	AED-I	NUAGAM	ASKA	JOKABANDA	HATAPADA	630	3	1	1	1	1		
182	ASKA	AED-I	NUAGAM	ASKA	ASKA BUS STAND	RB(REVENUE BUNGLOW)	500	3			1	1	1	1
183	ASKA	AED-II	BUGUDA	BALIPADAR	A. KARDABADI	SUNAKERA	100	3	1	1	1	1	0	1
184	ASKA	AED-II	K.S. NAGAR	K.S. NAGAR	KANIARY	MATHATANTETIA	100+63	3	1	0	1	1	1	
185	ASKA	AED-II	K.S. NAGAR	K.S. NAGAR	K S NAGAR	HARINAPADIYA	100	3	1	1	1	1	0	
186	ASKA	AED-II	BUGUDA	BUGUDA	BUGUDA TOWN	H S PUR	100	3	1	1	1	1	0	
187	ASKA	AED-II	BUGUDA	BUGUDA	GOLIA	BHAMASIALIA KALI TEMPLE	100	3	1	1	1	1	0	
188	ASKA	AED-II	BUGUDA	BALIPADAR	BALIPADAR TOWN	MAHULAPALLI	100	3	1	1	2	1	0	1
189	ASKA	GSED	CHIKITI	PATRAPUR	JAYANTIPUR	BANASOLA	63	3			1	1	0	0
190	ASKA	GSED	CHIKITI	PATRAPUR	BOMKEI	ANTRASHING	63	3			1	1	0	0
191	ASKA	GSED	CHIKITI	PATRAPUR	BADAPUR	AMBAPUR	100	3	1		1	1	0	0
192	ASKA	GSED	CHIKITI	CHIKTI	CHIKITI NAC	KARABALUA-10	100	3	1	1	1	1	0	0
193	ASKA	GSED	CHIKITI	CHIKTI	TLING RAMCHANDRAI	KALABADA	25	3			1	1	0	0
194	ASKA	GSED	CHIKITI	CHIKTI	BAHANPATTI	RADHAMOHANPUR	250+100	3	1	1	1	1	1	1
195	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	DIGAPAHANDI TOWN	MEDICAL	250	3	1	1	1	1	0	0
196	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	DIGAPAHANDI TOWN	PUNJIKAYA CHAKA	500	3	1	1	1	1	0	0
197	ASKA	GSED	CHIKITI	NUAPADA	KHARIAGUDA	KHARIAGUDA	100	3			1	1	0	0
198	ASKA	GSED	CHIKITI	SURANGI	MANDARADA	KESHPUR VILLAGE SOUBHAG	100	3			1	1	0	0
199	ASKA	GSED	CHIKITI	SURANGI	MANDARADA	SOLABHAGA PENTHO 1	100	3	1	1	1	1	0	0
200	BHANJANAGAR	BNED	BHANJANAGAR-II	ESO-II	NGAPUR(BHANJANAG	DHUDHUA	100	3	1	1	1	1	1	1
201	BHANJANAGAR	BNED	BHANJANAGAR-II	ESO-II	DURGAPRASAD	HATAPADA	100	3	1	1	1	1	0	1
202	BHANJANAGAR	BNED	BHANJANAGAR-II	ESO-II	DUMAKUMPA	TILIKI 2	25	3	1	1	1	1	0	1
203	BHANJANAGAR	BNED	BHANJANAGAR-II	KANTEIPALLY	JILUNDI	RATNAPUR	100	3	1	1	1	1	0	1

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
204	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BANKA	SORODO NUA SAHI	100	3	1	1	1	1	0	1
205	BHANJANAGAR	BNED	SORADA	BADAGADA	GOUDAGOTHA	EKALAPUR	100	3	1	0	1	1	0	1
206	BHANJANAGAR	BNED	SORADA	BADAGADA	SIDHAPUR	SARABADI	100	3	1	0	1	1	0	1
207	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	SILETPADA	RINGAPADA	63	3	1	1	1	1	0	0
208	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	GHANTAPADA	PODAPADAR	250	3	1	1	1	1	1	0
209	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	GHANTAPADA	GHANTAPADA	63	3	1	1	1	1	0	0
210	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	AMBAGAON	AMBAGAON	63	3	1	1	1	1	0	0
211	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	AMBAGAON	KHUNTIGORA	63	3	1	1	1	1	0	0
212	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	TELIBANDHA	BADAKHALIGAON	25	3	1	1	1	1	0	0
213	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	BAHIRA	JAMAGHANTI	25	3	1	1	1	1	0	0
214	BHANJANAGAR	BOED	MANAMUNDA	BAUNSUNI	DAHYA-1	MAHESWARPINDA	16	3	1	1	1	1	0	0
215	BNEC	PED	PHULBANI	PHULBANI	COLLEGE	GOPAL SAHI	100	3	1	1	1	1	0	0
216	BNEC	PED	PHULBANI	PHULBANI	COLLEGE	JIRINGPADA	315	3	1	1	1	1	0	0
217	BNEC	PED	BALLIGUDA	BALLIGUDA	HIGH SCHOOL	POLICE STATION	100	3	1	1	1	1	0	0
218	BNEC	PED	BALLIGUDA	BALLIGUDA	HIGH SCHOOL	RD OFFICE NEW	63	3	1	1	1	1	0	0
219	BNEC	PED	BALLIGUDA	BALLIGUDA	HIGH SCHOOL	PANASPADI	100	3	1	1	1	1	0	0
220	BNEC	PED	G.UDAYAGIRI	TIKABALI	KAINJHAR	MALABHUIN	63	3	1	1	1	1	1	1
221	RAYAGADA	RED	BISSAMCUTTACK	BISSAMCUTTACK	DURGI	MEDICAL	250	3	1	0	1	0	1	0
222	RAYAGADA	RED	RAYAGADA	JK PUR	KOLNARA	FIRE STATION	100	3	1	1	1	1	0	0
223	RAYAGADA	RED	RAYAGADA	JK PUR	KOLNARA	TAHSIL OFC	25	3	1	1	1	1	0	0
224	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	AMBADOLA TOWN	COLLEGE CHHACK	100	3	1	1	1	1	0	0
225	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	AMBADOLA TOWN	SAIMANDIR	100	3	1	1	1	1	0	0
226	RAYAGADA	RED	BISSAMCUTTACK	MUNIGUDA	AMBADOLA TOWN	BADAPADA	25	3	1	1	1	1	0	0
227	RAYAGADA	GED	GUMUDA	GUMUDA	GUMUDA	BHAMINI -1 IRB	100	3	1	1	1	1	1	0
228	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	GUNUPUR TOWN	INTRONT OF CHAIRMAN HOUSE	100	3	1	1	1	1	0	0
229	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	REGEDA	RAGHUNATH NAGAR	250	3	1	1	1	1	0	0
230	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	REGEDA	MANGLA MANDIR	500	3	1	1	1	1	0	0
231	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	COURT	KAMALA NAGAR	250	3	1	1	1	1	0	0
232	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	COURT	INTRONT OF NIMAIYAN KALYAN MANDAP	100	3	1	1	1	1	0	0
233	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	GUNUPUR TOWN	INTRONT OF MATYALAMA MANDIR	100	3	1	1	1	1	0	0
234	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	GUNUPUR TOWN	NEAR CT SCHOOL	250	3	1	1	1	1	0	0
235	RAYAGADA	PKED	MOHANA	CHANDRAGIRI	MAHENDRAGADA	JEERANGA	100	3	0	1	1	1	1	1
236	RAYAGADA	PKED	R.UDAYGIRI	KHAJURIPADA	HEAD QUARTER	ANUSAHI	63	3	0	1	0	0	0	0
237	RAYAGADA	PKED	R.UDAYAGIRI	R.UDAYAGIRI	R.UDAYAGIRI TOWN	FOUR POLE	250	3	1	1	1	1	0	0

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
238	RAYAGADA	PKED	R.UDAYAGIRI	R.UDAYAGIRI	R.UDAYAGIRI TOWN	BCC BANK	250	3	1	1	1	1	0	0
239	RAYAGADA	PKED	R.UDAYAGIRI	R.UDAYAGIRI	RAMAGIRI TOWN	HATAPADA RAMAGIRI	250	3	1	1	1	1	0	0
240	RAYAGADA	PKED	UPPALADA	RAIGADA	JEERANGA	LAI LAI	63	3	1	1	1	1	0	1
241	RAYAGADA	PKED	UPPALADA	RAIGADA	KOINPUR	KOINPUR	63	3	1	1	1	1	0	1
242	RAYAGADA	PKED	UPPALADA	RAIGADA	KOINPUR	TUMBA	63	3	1	1	1	1	0	1
243	RAYAGADA	PKED	UPPALADA	RAIGADA	GUDDA	MARLABA	63	3	1	1	1	1	0	1
244	RAYAGADA	PKED	UPPALADA	RAIGADA	GUDDA	PEKATA	63	3	1	1	1	1	0	1
245	RAYAGADA	PKED	UPPALADA	RAIGADA	BHURJANGA	KRUSHNAPUR	100	3	1	1	1	1	0	1
246	RAYAGADA	PKED	UPPALADA	GARABANDHA	GURANDI	RI OFFICE	100	1	1	1	1	1	0	1
247	JEYPORE	JED	JESD-1	ESO-JYP-NO-3	JEYPORE NO 2	BOXI	500	3	0	1	0	1	1	0
248	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	BRAMHANIGAON	DANGARACHINCHI	63	3	0	1	1	1	0	0
249	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	JAYANAGR	PANJIAGUDA	100	3	1	0	1	1	1	0
250	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	KALIAGAON	DUMURIGUDA	100	3	1	1	1	1	0	0
251	JEYPORE	JED	JESD-1	BOIPARIGUDA	BOIPARIGUDA	BSF	250	3	1	1	1	1	1	1
252	JEYPORE	JED	BORIGUMMA	KOTPAD	KOTPAD	LAHANJA	100	3	1	1	0	0	0	0
253	JEYPORE	JED	BORIGUMMA	B.SINGHPUR	SARGIGUDA	RANASPUR	100	3	1	1	1	1	0	0
254	JEYPORE	NED	PAPADAHANDI	KOSAGUMUDA	CHIRMA	CHIRMA-1	63	3	1	1	1	1	0	0
255	JEYPORE	NED	PAPADAHANDI	KOSAGUMUDA	KOSAGUMUDA TOWN	CHAUNRIAGUDA	100	3	1	1	1	1	1	0
256	JEYPORE	NED	NABARANGPUR	TENTULIKHUNTI	TENTULIKHUNTI TOWN	KURMAKOTE	100	3	1	1	1	1	0	1
257	JEYPORE	NED	NABARANGPUR	TENTULIKHUNTI	KANGARA	KANGARA	100	3	1	1	1	1	0	1
258	JEYPORE	NED	NABARANGPUR	TENTULIKHUNTI	PATRAPUT	JHARIGUMA	100	3	1	1	1	1	0	1
259	JEYPORE	NED	UMERKOTE	CHANDAHANDI	DANDAMUNDA	DANDAMUNDA	63	3	1	1	1	1	1	0
260	JEYPORE	MED	BALIMELA	BALIMELA	BALIMELA TOWN	DURGAPADIA	250	3	1	1		1	0	0
261	JEYPORE	MED	BALIMELA	BALIMELA	BALIMELA TOWN	NALA CHOWK	100	3	1	1	1	1		0
262	JEYPORE	MED	BALIMELA	BALIMELA	BALIMELA TOWN	BALIMELA MARKET	315	3	1		1	1	0	0
263	JEYPORE	MED	BALIMELA	MATHILI	MATHILI	TOWN	500	3	1	1	1	1	0	0
264	JEYPORE	MED	MALKANGIRI	MALKANGIRI	DNK	ICECANDY	63	3	1	1	1	1	0	0
265	JEYPORE	MED	MALKANGIRI	KALIMELA	MV-72	BUDUGUDA	100	3	1	1	1	1	1	1
266	JEYPORE	KED	SUNABEDA	POTTANGI	TOWN	HIGH SCHOOL	63	3	1	1	0	1	0	0
267	JEYPORE	KED	SUNABEDA	POTTANGI	TOWN	UPPARSAHI	100	3	1	1	0	1	0	0
268	JEYPORE	KED	SUNABEDA	SUNABEDA	NAC TOWN	WINE SHOP	100	3	1	1	1	1	0	0
269	JEYPORE	KED	SUNABEDA	SUNABEDA	NAC TOWN	SUBAS NAGAR	315	3	1	1	1	1	0	0
270	JEYPORE	KED	SUNABEDA	SIMLIGUDA	JAPUT/MATHALPUT TO	SATSANG	100	3	1	1	1	1	0	0
271	JEYPORE	KED	SUNABEDA	NANDAPUR	NANDAPUR	PANCHYAT OFFICE	100	3	1	1	0	1	0	0

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
272	JEYPORE	KED	SUNABEDA	NANDAPUR	PADUA TOWN	PADUA TOWN1	100	3	1	1	1	1	0	0
273	JEYPORE	KED	SUNABEDA	NANDAPUR	CHATUA HATAGUDA	HATGUDA	100	3	1	1	1	1	0	0
274	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	BNPUR	NUAPALLI	100	3	1	1	1	1	0	1
275	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	PANDIA	ANTARIGAON	250	3	1	1	1	1	0	0
276	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	PANDIA	JHADABAI	250	3	1	1	1	1	0	0
277	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	PANDIA	KOLIDASPUR MILL SAHI	100	3	1	1	1	1	0	0
278	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	ACHULI	ACHULI 250	250	3	1	1	1	1	0	1
279	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	B.SARSING	SIKULA	250	3	1	1	1	1	0	1
280	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	B.SARSING	BADA KHARIDA	250	3	1	1	1	1	0	0
281	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	B.SARSING	BADA KHARIDA	100	3	1	1	1	1	0	0
282	BERHAMPUR	PSED	PURUSOTTAMPUR	PSPUR	B.SARSING	SAMANTARAPALLI	100	3	1	1	1	1	0	0
283	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	BHATAKUMARADA	100KVA NUAPLLI	100	3	1	1	1	1	1	1
284	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	BHATAKUMARADA	100KVA DAMADARPUR	100	3	1	1	1	1	1	0
285	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	BHATAKUMARADA	250KVA JAGANNATHPUR	250	3	1	1	1	1	0	0
286	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	SOLAGHARA	ANGU 100KVA	100	3	1	1	1	1	0	0
287	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	SUNATHARA	315KVA BAGHALA	315	3	1	1	1	1	0	0
288	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	SUNATHARA	250KVA DUANAPLLI	250	3	1	1	1	1	0	0
289	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	JAMUNI	100KVA HOTAPUR	100	3	1	1	1	1	0	0
290	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	RANJHALI	100KVA KESHPUR VILLAGE	100	3	1	1	1	1	0	0
291	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	TT JUNCTION	100KVA JAMUNI CHAKA	100	3	1	1	1	1	1	0
292	BEHRAMPUR	PSED	PURUSOTTAMPUR	TARATARANI	TT JUNCTION	63KVA SARASWATI NAGAR	63	3	1	1	1	1	0	0
293	BERHAMPUR	PSED	POLASARA	POLASARA	KALAMBA	KHANDURU	500	3	1	1	1	1	0	0
294	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	DEBI NAGAR	250	3	1	1	1	1	0	0
295	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	PATIGARH	100	3	1	1	1	1	0	0
296	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	GOUDA SAHI	315	3	1	1	1	1	0	0
297	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	ODIA SAHI	250	3	1	1	1	1	0	0
298	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BALLICHAI	BALLICHAI	500	3	1	1	1	1	NO	1
299	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	RUMAGADA	BHATAKHALLI	250	3	1	1	1	1	0	0
300	BERHAMPUR	PSED	KODALA	KODALA	KODALA	BUSSTAND	500	3	1	1	1	1	0	0
301	BERHAMPUR	PSED	KODALA	KODALA	KODALA	CHARCHIMARKET	100	3	1	1	1	1	0	0
302	BERHAMPUR	PSED	KODALA	KODALA	MATHASARSINGI	GADIABANDHASTREET	100	3	1	1	1	1	1	1
303	BERHAMPUR	PSED	KODALA	KODALA	OLD GUDIALAI	OLD GUDIALI	100	3	1	1	1	1	0	0
304	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	BEGUNIAPADA	KANCHANA	100	3	1	1	1	1	1	0
305	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	OLD ANGARAGAON	BARIDA	315	3	1	1	1	1	1	0

LOCATION OF DSS REFURBISHMENT

S. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	FEEDER NAME	NAME OF DSS	DSS RATING IN	PHASE	HG FUSE	AB SWITCH	LA	EARTHING	PLINTH	DP REQUIRED
306	BERHAMPUR	GNED	KHALLIKOTE	KHALLIKOTE	KHALLIKOTE TOWN	NIRMALJHAR 4 P	N/A	3	3	3	9	1	0	1
307	BERHAMPUR	GNED	CHATRAPUR	CHATRAPUR-I	MATIKHALO	BADA ARJIPALLI	250	3	1	1	1	1	1	1
308	BERHAMPUR	GNED	CHATRAPUR	CHATRAPUR-I	MATIKHALO	ODRP ARJIYAPLLI	25	3	1	1	1	1	1	1
309	BERHAMPUR	GNED	RAMBHA	GANJAM	KAINCHAPUR	RAMESHWAR	63	3	1	1	1	1	1	1
310	BERHAMPUR	HED	HINJILI	KANCHURU	DARUBHADRA	NIMIGAON 100KVA	100	3	1	1	1	1	0	0
311	BERHAMPUR	HED	HINJILI	KANCHURU	DARUBHADRA	DARUBHADRA 100KVA	100	3	1	1	1	1	0	0
312	BERHAMPUR	HED	HINJILI	KANCHURU	DARUBHADRA	DURBANDHA PANCHAYAT OFI	100	3	1	1	1	1	0	0
313	BERHAMPUR	HED	SHERAGADA	SHERAGADA	BANDHAGUDA	100 KVA BANDHAGUDA	100	3	1	1	1	1	1	0
314	BERHAMPUR	HED	SHERAGADA	KONKORADA	GOVINDAPUR	GOVINDAPUR TALA SAHI	150	3	1	1	1	1	0	0
315	BERHAMPUR	HED	SHERAGADA	PATTAPUR	KHALINGI	AMBATHA HANUMAN 100	100	3	1	1	1	1	0	1

Location Sl No. 29

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
1	BHANJANAGAR	BNED	BELLAGUNTHA	J N PRASAD	BANKATARA	SARANPALLI VILLAGE	25	1
2	BHANJANAGAR	BNED	BELLAGUNTHA	J N PRASAD	BANKATARA	TULASIPALLI VILLAGE	25	1
3	BHANJANAGAR	BNED	BELLAGUNTHA	J N PRASAD	BANKATARA	PATHARAPALLI SCHOOL	25	1
4	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA TOWN	JN PRASAD ROAD	25	1
5	BHANJANAGAR	PED	BALLIGUDA	BALLIGUDA	HIGHSCHOOL	SUB JAIL BALLIGUDA	25	1
6	BHANJANAGAR	PED	BALLIGUDA	BALLIGUDA	HIGHSCHOOL	FIRE STATION	25	1
7	BHANJANAGAR	PED	BALLIGUDA	BALLIGUDA	HIGHSCHOOL	TOWN HALL	25	1
8	BHANJANAGAR	PED	G.UDAYAGIRI	G.UDAYAGIRI	TOWN-1	BANDHA CHAWK	25	1
9	BHANJANAGAR	PED	BALLIGUDA	TUMUDIBANDHA	KOTAGARH TOWN	KRUSHNANAGAR	25	1
10	ASKA	GSED	CHIKITI	CHIKITI	BAHANAPATI	AMBAGAON	25	1
11	ASKA	GSED	CHIKITI	CHIKITI	CHIKITI GADA	TALABALKUMARI	25	1
12	ASKA	GSED	CHIKITI	CHIKITI	CHIKITI PENTHO	FIRE STATION	25	1
13	ASKA	GSED	CHIKITI	NUAPADA	KHARIAGUDA	NUAGADA NEAR KUREISUNI TEMPLE	25	1
14	ASKA	GSED	CHIKITI	SURANGI	RAJAPUR	SAHASPUR	25	1
15	RAYAGADA	GED	GUMUDA	RAMANAGUDA	PALUPAI	KHILAPADAR	25	1
16	RAYAGADA	GED	GUMUDA	RAMANAGUDA	BANGI	CHAKUNDA	25	1
17	RAYAGADA	GED	GUMUDA	RAMANAGUDA	BANGI	PARLA OLD VILLAGE	25	1
18	RAYAGADA	GED	GUMUDA	RAMANAGUDA	SULUDI	GOTTA	25	1
19	ASKA	AED-II	BUGUDA	BALIPADAR	BALIPADAR TOWN	GAS DEPOT BACK-1	25	1
20	ASKA	AED-II	BUGUDA	BUGUDA	MOTABADI	SUBUDHIPALLY CHAK	25	1
21	ASKA	AED-II	BUGUDA	BUGUDA	KARCHULI	SHREE RAM NAGAR	25	1
22	ASKA	AED-II	BUGUDA	BALIPADAR	BALIPADAR TOWN	HANUMAN TEMPLE	25	1
23	ASKA	AED-II	BUGUDA	BUGUDA	BUGUDA TOWN	SOMNATH NAGAR 1	25	1
24	JEYPORE	KED	SUNABEDA	SUNABEDA	SIMLIGUDA/NAD	NETAJI SCHOOL	25	1
25	JEYPORE	KED	SUNABEDA	SIMLIGUDA	11KV KUNDULI FEEEDER	RENGA	25	1
26	JEYPORE	KED	SUNABEDA	NANDAPUR	NANDAPUR	POLICE STATION	25	1
27	JEYPORE	KED	KORAPUT	KORAPUT NO-2	KOLAB TOWN	1ST IRBN	25	1
28	CITY	BED-II	SSD-I	ASKA ROAD	CITY HOSPITAL	HARSHA VIHAR ARJUNA SWAIN	25	1
29	CITY	BED-II	SSD-I	ASKA ROAD	AUTO NAGAR	AUTO NAGAR 1ST LANE	25	1
30	CITY	BED-II	SSD-III	GOSANINUAGAON	GOSANINUAGAON	PRAGATI APARTMENT	25	1
31	CITY	BED-I	GOPALPUR	BHANJABIHAR	RAM CHANDRAPUR	AHINSA NAGAR	25	1
32	CITY	BED-I	GOPALPUR	BHANJABIHAR	RAM CHANDRAPUR	NEAR PETROL PUMP	25	1
33	CITY	BED-I	GOPALPUR	BHANJABIHAR	KARAPALLI	MAHESWAR NAGAR	25	1
34	CITY	BED-I	GOPALPUR	HEADQUARTER	JHADANKULI	BADAKUSASTHALI BAURI STREET	25	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
35	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	BALAJIPALLI 25KVA S/S	25	1
36	CITY	BED-I	INDUSTRIAL	LANJIPALLI	NH ANKULI	RAGINI	25	1
37	JEYPORE	NED	PAPADAHANDI	DABUGAM	GUMUDA	BORIPADAR	25	1
38	CITY	BED-III	KANISI	LATHI	BALIPADA	WATER SUPPLY 25KVA LANJIA	25	1
39	CITY	BED-III	KANISI	JAGAPUR	SOROLA	SONEPUR ODRP	25	1
40	CITY	BED-III	KANISI	JAGAPUR	SOROLA	SONEPUR ODRP	25	1
41	CITY	BED-III	KANISI	JAGAPUR	SOROLA	SONEPUR ODRP	25	1
42	CITY	BED-III	KANISI	JAGAPUR	SOROLA	SONEPUR ODRP	25	1
43	CITY	BED-III	KANISI	JAGAPUR	SOROLA	SONEPUR ODRP	25	1
44	CITY	BED-III	KANISI	JAGAPUR	SOROLA	KAITHA ODRP	25	1
45	CITY	BED-III	KANISI	JAGAPUR	SOROLA	KAITHA ODRP	25	1
46	CITY	BED-III	KANISI	JAGAPUR	SOROLA	KAITHA ODRP	25	1
47	CITY	BED-III	KANISI	JAGAPUR	SOROLA	WADI CHOWK	25	1
48	CITY	BED-III	SDO-4	LUCHAPDA	GURUNTHI	CHANDIPADAR DAS SAHI	25	1
49	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	ANKUSHPUR RWSS	25	1
50	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	MASIKAHALI RWSS	25	1
51	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	RAIJHOLA RWSS	25	1
52	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	RATANPUR RWSS	25	1
53	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	RATANPUR PLOT	25	1
54	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	SMIT BACK SIDE	25	1
55	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	FIRE STATION	25	1
56	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	PRATIMA RATH	25	1
57	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	HARIZAN STREET	25	1
58	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	NAYAK STREET	25	1
59	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	HADI STREET RWSS	25	1
60	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	POSTOFFICE KKD	25	1
61	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	RAGHUNATHPUR RWSS	25	1
62	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	NEW RAMACHANDRAPUR RWSS	25	1
63	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	OLD RAMACHANDRAPUR RWSS	25	1
64	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	SHIBA TEMAPLE KKD	25	1
65	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	LASHANDHAPUR HARIJANA SAHI FRC	25	1
66	ASKA	AED-I	NUAGAM	NUAGAM-II	SHERAGADA	KHATEI COLONY	25	1
67	ASKA	AED-I	NUAGAON	NUAGAON-1	BHETANAI	CHARIMAILI SQR	25	1
68	ASKA	AED-I	ASKA	BALISIRA	GANGAPUR	NABARATNAPUR	25	1
69	BERHAMPUR	HED	HINJILICUT	KANCHURU	D.PATAPUR	BAURIPALLI	25	1
70	BERHAMPUR	HED	HINJILICUT	KANCHURU	SARU	KAITHAKHANDI	25	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
71	BERHAMPUR	HED	HINJILICUT	KANCHURU	DARUBHADRA	MOHONAPALLI	25	1
72	BERHAMPUR	HED	HINJILICUT	KANCHURU	BADAKHANDI	POOCHLIMA CHHOWK	25	1
73	JEYPORE	MED	BALIMELA	BALIMELA	KORUKONDA	MV-31	25	1
74	JEYPORE	MED	BALIMELA	BALIMELA	KORUKONDA	MV-32	25	1
75	JEYPORE	MED	BALIMELA	MATHILI	MATHILI	JHULUNIBAHAL	25	1
76	JEYPORE	MED	BALIMELA	MATHILI	GOVINDPALI	DASA CAMP	25	1
77	JEYPORE	JED	JESD-1	JYP 3	NO.1 FEEDER	BEHERA STREET	25	1
78	JEYPORE	JED	BORIGUMMA	BORIGUMMA	TOWN	DULLAGUDA,DULLAGUDA ROAD	25	1
79	JEYPORE	JED	BORIGUMMA	KOTPAD	KOTPAD TOWN	CHRIST SCHOOL	25	1
80	JEYPORE	JED	BORIGUMMA	B.SINGHPUR	SARGIGUDA	SANAPINDAPADAR	25	1
81	RAYAGADA	PKED	MOHANA	ADAVA	ADAVA	CHRISTIANSAHI	25	1
82	RAYAGADA	PKED	MOHANA	ADAVA	ADAVA	CHRISTIANSAHI	25	1
83	RAYAGADA	PKED	KASINAGAR	KASINAGAR	KASINAGAR TOWN-1	PHD	25	1
84	RAYAGADA	PKED	PARALAKHEMUNDI	PKD RURAL	PHD	SOIL CONSERVATION	25	1
85	RAYAGADA	RED	BISSAMCUTTACK	BISSAMCUTTACK	BISSAMCUTTACK TOWN	COURT	25	1
86	RAYAGADA	RED	BISSAMCUTTACK	BISSAMCUTTACK	BISSAMCUTTACK TOWN	THAKURANI TEMPLE	25	1
87	RAYAGADA	RED	RAYAGADA	JK PUR	KOLNARA	MANTRAJHOLA	25	1
88	RAYAGADA	RED	THERUBALI	SIKARPAI	SERIGUMA	BIRIDA	25	1
89	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	B.SARSING	BENIPUR	25	1
90	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	B.SARSING	NUAGAON	25	1
91	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	CHIRIKIPADA	MAHULLAPALLI	25	1
92	BERHAMPUR	PSED	KODALA	KODALA	MATHASARSINGI	BORBORA	25	1
93	BERHAMPUR	PSED	KODALA	KODALA	MATHASARSINGI	JAMANDA	25	1
94	BERHAMPUR	PSED	KODALA	KODALA	MATHASARSINGI	JANIBILI	25	1
95	BERHAMPUR	PSED	KODALA	KODALA	OLD GUDIAL	DABHABANIA	25	1
96	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	NEW ANGARAGAON	SALIADAM	25	1
97	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	NEW ANGARAGAON	KRUSHNAPALLI	25	1
98	BERHAMPUR	PSED	POLASARA	POLASARA	POLOSARA RURAL	BRAHAMA SAHI KONKARADA	25	1
99	BERHAMPUR	PSED	POLASARA	POLASARA	BELAGAON	MANASILA RWSS	25	1
100	BERHAMPUR	PSED	POLASARA	POLASARA	KALAMBA	KALAMBA MANDIR SAHI	25	1
101	BHANJANAGAR	BNED	BHANAJANAGAR-II	ESO-II	DUMAKUMPA	KHAMAREDI	63	1
102	BHANJANAGAR	BNED	BHANAJANAGAR-II	ESO-II	SANKODANDA	SANAKODANDA	63	1
103	BHANJANAGAR	BNED	NO-II	KBPUR	LUNIPADA	LUNIPADA	63	1
104	BHANJANAGAR	BNED	BELLAGUNTHA	J N PRASAD	BANKATARA	BURAPALLI VILLAGE	63	1
105	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA TOWN	RAJANPALLI	63	1
106	BHANJANAGAR	PED	BALIGUDA	DARINGBADI	RUKANBADI	HANUMAN TEMPLE	63	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
107	BHANJANAGAR	PED	BALIGUDA	DARINGBADI	RUKANBADI	GREENBADI	63	1
108	BHANJANAGAR	PED	G.UDAYAGIRI	TIKABALI	CHAKAPAD	RANAGAN	63	1
109	BHANJANAGAR	PED	BALLIGUDA	TUMUDIBANDHA	KOTAGARH TOWN	JHARIAPADA	63	1
110	BHANJANAGAR	PED	BALLIGUDA	TUMUDIBANDHA	KOTAGARH TOWN	RAJA SAHI	63	1
111	ASKA	GSED	CHIKITI	PATRAPUR	PATRAPUR	A.SARDHAPUR	63	1
112	ASKA	GSED	CHIKITI	CHIKITI	KRUSHNAPUR	K.NUAGAON	63	1
113	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	PADMANAVAPUR	BAGADA	63	1
114	ASKA	GSED	CHIKITI	NUAPADA	NUAPADA	NUAPADA KEUTA SAHI	63	1
115	ASKA	GSED	CHIKITI	SURANGI	MANDARDA	SUMANDI	63	1
116	RAYAGADA	GED	GUMUDA	RAMANAGUDA	RAMANAGUDA	NEAR CLUSTER HOUSE	63	1
117	RAYAGADA	GED	GUMUDA	RAMANAGUDA	PALUPAI	PERIKHETI	63	1
118	RAYAGADA	GED	GUMUDA	RAMANAGUDA	PALUPAI	PALUPAI	63	1
119	RAYAGADA	GED	GUMUDA	RAMANAGUDA	BANGI	PENKAM	63	1
120	RAYAGADA	GED	GUMUDA	GUMUDA	NAIRA	DAIRENGA	63	1
121	ASKA	AED-II	BUGUDA	BUGUDA	MANITARA	MANITARA NUASAI 2	63	1
122	ASKA	AED-II	BUGUDA	BALIPADAR	A KARADABADI	POCHALUNDI HIGH SCHOOL	63	1
123	ASKA	AED-II	BUGUDA	BALIPADAR	A KARADABADI	POCHALUNDI KALI MANDIR 2	63	1
124	ASKA	AED-II	BUGUDA	BALIPADAR	A KARADABADI	DASIPUR 1 MASANI	63	1
125	ASKA	AED-II	BUGUDA	BALIPADAR	PANGIDI	MANIKAPUR VILLAGE	63	1
126	JEYPORE	KED	SUNABEDA	POTTANGI	TOWN	HIGH SCHOOL	63	1
127	JEYPORE	KED	SUNABEDA	POTTANGI	TOWN	FIRESTATIONBACKSIDE	63	1
128	JEYPORE	KED	SUNABEDA	NANDAPUR	BADEL	BADEL	63	1
129	JEYPORE	KED	KORAPUT	LAXMIPUR	RAPKONA	BANDIKAR	63	1
130	JEYPORE	KED	KORAPUT	BANDHUGAON	NARAYANPATNA	SBI	63	1
131	CITY	BED-II	SSD-III	GANDHINAGAR	SANABAZAR	PHD OFFICE	63	1
132	CITY	BED-II	SSD-III	GOSANINUAGAON	GANDHINAGAR NO-II	SPCTRUM COLONY PHD	63	1
133	CITY	BED-II	SSD-III	GOSANINUAGAON	GANDHINAGAR NO-II	BALAJI NAGAR PHD	63	1
134	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	POLICE STATION	63	1
135	CITY	BED-I	GOPALPUR	HEADQUARTER	INCOME TAX	BADAGUMULA BAURI STREET	63	1
136	CITY	BED-I	GOPALPUR	HEADQUARTER	INCOME TAX	PALLIGUMULA	63	1
137	CITY	BED-I	GOPALPUR	HEADQUARTER	INCOME TAX	BIBEK GARDEN	63	1
138	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	PUTTABAGADA 63KVA S/S	63	1
139	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	PAITARI BPL	63	1
140	JEYPORE	NED	PAPADAHANDI	DABUGAM	GUMUDA	JUNAPANI	63	1
141	JEYPORE	NED	PAPADAHANDI	DABUGAM	GUMUDA	PHULABHATTA	63	1
142	JEYPORE	NED	PAPADAHANDI	DABUGAM	GUMUDA	PHULABHATTA	63	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
143	JEYPORE	NED	PAPADAHANDI	DABUGAM	GUMUDA	GUMUDA	63	1
144	JEYPORE	NED	PAPADAHANDI	DABUGAM	GUMUDA	KUSUMDANGRI	63	1
145	CITY	BED-III	KANISI	JAGAPUR	SOROLA	KAITHA	63	1
146	CITY	BED-III	KANISI	JAGAPUR	SOROLA	ATRAIPUR	63	1
147	CITY	BED-III	SDO-4	LUCHAPDA	GURUNTHI	CHANDIPADAR MAIN ROAD	63	1
148	CITY	BED-III	SDO-4	LUCHAPDA	GURUNTHI	SR PUR	63	1
149	CITY	BED-III	SDO-4	LUCHAPDA	GURUNTHI	LN PUR	63	1
150	CITY	BED-III	SDO-4	LUCHAPDA	BORIGAON	BORIGAON MAIN ROAD	63	1
151	CITY	BED-III	KANISI	GOLANTHARA	SASANPADAR	PANNADA	63	1
152	CITY	BED-III	KANISI	GOLANTHARA	SASANPADAR	BHALIGADA	63	1
153	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	RATANPUR NURSERY	63	1
154	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	RAGHUNATHPUR	63	1
155	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	NEW RAMACHANDRAPUR	63	1
156	ASKA	AED-I	ASKA	DHARAKOTE	MUNDAMAREI	PODAPALLI	63	1
157	ASKA	AED-I	ASKA	DHARAKOTE	SINGIPUR	PATAPUR-1	63	1
158	ASKA	AED-I	NUAGAM	NUAGAM-II	MUKUNDAPUR	KENDUPADAR	63	1
159	ASKA	AED-I	NUAGAON	NUAGAON-1	NUAGAON	NUAGAM GANGA DHAR NAGAR	63	1
160	ASKA	AED-I	ASKA	BALISIRA	NIMINA	KENDUPADAR MAIN ROAD	63	1
161	BERHAMPUR	HED	HINJILICUT	KANCHURU	GANDALA	BELLAGAM OLIC	63	1
162	BERHAMPUR	HED	HINJILICUT	KANCHURU	BHABANDHA	GANDHI COLLEGE	63	1
163	BERHAMPUR	HED	HINJILICUT	KANCHURU	BADAKHANDI	SINGIPUR	63	1
164	BERHAMPUR	HED	HINJILICUT	KANCHURU	SARU	CHAITANYAPADA	63	1
165	BERHAMPUR	HED	HINJILICUT	KANCHURU	BADAKHANDI	SAI TEMPLE	63	1
166	JEYPORE	MED	BALIMELA	BALIMELA	KAMWADA	MV-27	63	1
167	JEYPORE	MED	BALIMELA	BALIMELA	KHAIRPUT TOWN	MEDICAL FRONT	63	1
168	JEYPORE	MED	BALIMELA	MATHILI	MATHILI	BALADIAGUDA	63	1
169	JEYPORE	MED	BALIMELA	MATHILI	PANGAM	SANANAYAKGUDA	63	1
170	JEYPORE	JED	JESD-1	JYP 3	KORAPUT FEEDER	KUMBHAR STREET HARIJAN SAHI	63	1
171	JEYPORE	JED	JESD-1	ESO-JYP-NO-2	LAMATAPUT	HIGH SCHOOL	63	1
172	JEYPORE	JED	BORIGUMMA	BORIGUMMA	TOWN	DULLAGUDA,DULLAGUDA ROAD	63	1
173	JEYPORE	JED	BORIGUMMA	KOTPAD	KOTPAD TOWN	COMPOST	63	1
174	JEYPORE	JED	BORIGUMMA	B.SINGHPUR	NARIGAON	PODA PADAR MEDICAL	63	1
175	RAYAGADA	PKED	KASINAGAR	KASINAGAR	SIDHAMADANGA	KURLANDA	63	1
176	RAYAGADA	PKED	KASINAGAR	KASINAGAR	KASINAGAR TOWN-1	PHD	63	1
177	RAYAGADA	PKED	PARALAKHEMUNDI	PKD RURAL	TOWN 4	SUB JAIL	63	1
178	RAYAGADA	PKED	PARALAKHEMUNDI	PKD RURAL	PHD	VETENARY	63	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
179	RAYAGADA	PKED	PARALAKHEMUNDI	PKD RURAL	KERANDI	OLD KERANDI	63	1
180	RAYAGADA	RED	BISSAMCUTTACK	BISSAMCUTTACK	BISSAMCUTTACK TOWN	BSF CAMP	63	1
181	RAYAGADA	RED	RAYAGADA	JK PUR	T KOLNARA	MUNISING	63	1
182	RAYAGADA	RED	RAYAGADA	JK PUR	MIRABALI	MIRABALI	63	1
183	RAYAGADA	RED	THERUBALI	SIKARPAI	SERIGUMA	BHALUMASKA	63	1
184	RAYAGADA	RED	THERUBALI	SIKARPAI	SERIGUMA	LAKAPAI	63	1
185	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	LANGESWAR	KP COLLEGE	63	1
186	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	LANGESWAR	LANGESWAR TEMPELE	63	1
187	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	KANHEIPUR	MAINKPUR	63	1
188	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	PATHARA	KANDRAPADA	63	1
189	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	B.SARSING	BANANAI RI OFC	63	1
190	BERHAMPUR	PSED	PURUSHOTTAMPUR	TARATARANI	JAMUNI	HOTAPUR NEAR ANGANWADI	63	1
191	BERHAMPUR	PSED	PURUSHOTTAMPUR	TARATARANI	SOLAGHARA	RAIPUR	63	1
192	BERHAMPUR	PSED	PURUSHOTTAMPUR	TARATARANI	JAMUNI	NIFRONT OF PSS	63	1
193	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	DHUNKAPADA	KANIAPALLI	63	1
194	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BALLICHAI	HATIOTA KALI MANDIR	63	1
195	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	PANDIRIPAD	PANDIRIPADA	63	1
196	BERHAMPUR	PSED	KODALA	KODALA	MATHASARSINGI	MATHASARSINGI	63	1
197	BERHAMPUR	PSED	KODALA	KODALA	MATHASARSINGI	RANIPADA	63	1
198	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	BEGUNIPADA	POLICE STATION	63	1
199	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	SUMANDALA	SANKUDA	63	1
200	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	NEW ANGARAGAON	ANGARAGAON	63	1
201	BHANJANAGAR	BNED	BHANJANAGAR-I	BHEJIPUT	BHANJANAGAR TOWN	SDPO OFFICE	100	1
202	BHANJANAGAR	PED	G.UDAYAGIRI	G.UDAYAGIRI	TOWN-1	SIVA TEMPLE	100	1
203	ASKA	GSED	CHIKITI	CHIKITI	CHIKITI GADA	SDPO OFFICE	100	1
204	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	GUNUPUR TOWN	GOLA SHAI	100	1
205	ASKA	AED-II	BUGUDA	BALIPADAR	A KARADABADI	POCHALUNDI KALI MANDIR 1	100	1
206	ASKA	AED-II	BUGUDA	BALIPADAR	A KARADABADI	KALAMBA GOVT PRIMARY SCHOOL	100	1
207	JEYPORE	KED	KORAPUT	KORAPUT NO-2	CHAPPER	CHAMPAGUDA	100	1
208	JEYPORE	KED	KORAPUT	KAKRIGUMA	NALCO	KUSUMGUDA	100	1
209	CITY	BED-II	SSD-III	GANDHINAGAR	HOUSING BOARD	BHUBANESWARI APPARTMENT	100	1
210	CITY	BED-II	SSD-III	GOSANINUAGAON	HIG	PRIYADARSHINI APARTMENT	100	1
211	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	PALM BEACH-1	100	1
212	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	NAC OFFICE	100	1
213	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	MAHAVEER JUNCTION	100	1
214	CITY	BED-I	GOPALPUR	BHANJABIHAR	GOLABANDHA	OLD KAMALAPUR	100	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
215	CITY	BED-I	GOPALPUR	BHANJABIHAR	DURA	NEAR OLD FUSE CALL	100	1
216	CITY	BED-I	GOPALPUR	BHANJABIHAR	DURA	SYAM VIHAR	100	1
217	CITY	BED-I	GOPALPUR	BHANJABIHAR	GAUNJU	NEAR SARBA MANGALA DOT FOODS	100	1
218	CITY	BED-I	GOPALPUR	HEADQUARTER	INCOME TAX	PRIYADARSINI BIHARA	100	1
219	CITY	BED-I	GOPALPUR	HEADQUARTER	NARENDRAPUR	NARENDRAPUR-5 PANDARA STREET	100	1
220	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	PUTTABAGADA 100KVA S/S	100	1
221	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	SITALAPALLI 100KVA S/S	100	1
222	CITY	BED-I	GOPALPUR	HEADQUARTER	TANGANAPALLI	NDARAPUR HARIZAN STREET 100 KVA	100	1
223	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	BADAPUR-1	100	1
224	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	BADAPUR-2	100	1
225	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	R N TEMPLE PATRAPUR	100	1
226	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	R K TEMPLE SINDHIGAON	100	1
227	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	DAMA STREET SINDHIGAON	100	1
228	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	R R OFFICE SINDHIGAON	100	1
229	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	LUHAJHAR GP SINDHIGAON	100	1
230	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	M E SCHOOL SINDHIGAON	100	1
231	CITY	BED-I	GOPALPUR	HEADQUARTER	TATA COLONY	HIGH SCHOOL SINDHIGAON	100	1
232	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANA	GANDHIMUNDA	100	1
233	CITY	BED-I	INDUSTRIAL	LANJIPALLI	NH ANKULI	SIBASHAKTINAGARA	100	1
234	CITY	BED-I	INDUSTRIAL	LANJIPALLI	NH ANKULI	SIBASHAKTINAGARA 12TH LINE	100	1
235	CITY	BED-I	MEDICAL	AMBAPUA	AJADHYA NAGER	BIDYATPURI COLONY	100	1
236	CITY	BED-I	MEDICAL	AMBAPUA	AJADHYA NAGER	BIDYATPURI COLONY	100	1
237	CITY	BED-I	MEDICAL	AMBAPUA	AJADHYA NAGER	JAYAPRAKASH NAGER SRI RAM HOSPITAL	100	1
238	CITY	BED-I	MEDICAL	AMBAPUA	GAJAPATI NAGER	GAJAPATI NAGER 14TH LINE	100	1
239	CITY	BED-I	MEDICAL	AMBAPUA	GAJAPATI NAGER	GAJAPATI BASUDEV NAGER 1ST LINE	100	1
240	CITY	BED-I	MEDICAL	AMBAPUA	NILANCHAL NAGER	NILANCHAL NAGER 5TH LINE EXTENTION	100	1
241	CITY	BED-I	MEDICAL	AMBAPUA	NILANCHAL NAGER	ALEKHA NAGER	100	1
242	CITY	BED-I	MEDICAL	AMBAPUA	KHODASINGI	KUTHARI NAGER	100	1
243	CITY	BED-I	MEDICAL	AMBAPUA	AMBAPUA	KALINGA NAGER 1ST LINE	100	1
244	CITY	BED-I	MEDICAL	AMBAPUA	AMBAPUA	BASANTA BIHAR MAIN ROAD	100	1
245	CITY	BED-I	MEDICAL	AMBAPUA	AMBAPUA	POLICE BARRACK	100	1
246	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	SRI KRISHNA BIHAR 2ND LINE	100	1
247	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	SIBA NANDA NAGER	100	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
248	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	VIBEK BIHAR NEAR LINE AB	100	1
249	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	BIVEK BIHAR 3RD LINE	100	1
250	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	BIVEK BIHAR 6TH LINE	100	1
251	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	BIVEK BIHAR 4TH LINE	100	1
252	CITY	BED-I	MEDICAL	MEDICAL	KAMAPALLI	MATIHANDI	100	1
253	CITY	BED-I	MEDICAL	MEDICAL	SIDHARTH NAGAR	BHAIRABI NAGAR 2ND LANE	100	1
254	CITY	BED-I	MEDICAL	MEDICAL	SIDHARTH NAGAR	CANAL ROAD	100	1
255	CITY	BED-I	MEDICAL	MEDICAL	HOSPITAL	TB WARD	100	1
256	CITY	BED-I	MEDICAL	MEDICAL	COLLEGE	LADIES MBBS HOSTEL	100	1
257	CITY	BED-I	MEDICAL	MEDICAL	COLLEGE	EYE WARD	100	1
258	CITY	BED-I	MEDICAL	MEDICAL	COLLEGE	BOYS HOSTEL-3	100	1
259	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TATA BENZ	BADAKHEMUNDI	100	1
260	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	OLD BUSSTAND	SOUCHALAYA	100	1
261	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	OLD BUSSTAND	GAUTAM HALL	100	1
262	JEYPORE	NED	PAPADAHANDI	DABUGAM	TOWN	NUAGUDA	100	1
263	CITY	BED-III	KANISI	JAGAPUR	SOROLA	SORAOLA MAHARANA SAHI	100	1
264	CITY	BED-III	KANISI	JAGAPUR	SOROLA	DUNGA SAHI	100	1
265	CITY	BED-III	KANISI	JAGAPUR	SOROLA	SANA BISWANATHPUR	100	1
266	CITY	BED-III	KANISI	JAGAPUR	SOROLA	BADA BISWANATHPUR	100	1
267	CITY	BED-III	KANISI	JAGAPUR	SOROLA	EKSING	100	1
268	CITY	BED-III	KANISI	JAGAPUR	SOROLA	KASINAGAR	100	1
269	CITY	BED-III	KANISI	JAGAPUR	SOROLA	SOROLA BAZAR CHOWK	100	1
270	CITY	BED-III	SDO-4	LUCHAPDA	GURUNTHI	HUGULAPATA	100	1
271	CITY	BED-III	SDO-4	LUCHAPDA	BORIGAON	BORIGAON MAIN ROAD	100	1
272	CITY	BED-III	KANISI	GOLANTHARA	SASANPADAR	JUGUDI GOUDA SAHI	100	1
273	CITY	BED-III	KANISI	GOLANTHARA	SASANPADAR	JUGUDI HARIZAN SAHI	100	1
274	CITY	BED-III	KANISI	GOLANTHARA	SASANPADAR	RM PUR	100	1
275	CITY	BED-III	KANISI	GOLANTHARA	SASANPADAR	KCH PUR	100	1
276	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	ANKUSHPUR NEW STREET	100	1
277	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	MASIKAHALI	100	1
278	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	MASIKHALI BAJARANGI RICE MILL	100	1
279	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	RAIJHOLA	100	1
280	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	TRILOACHAN SAHU	100	1
281	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	AYURVEDA COLLEGE	100	1
282	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	LAXMI PETRO CHEMICAL	100	1
283	CITY	BED-III	KANISI	KUKKUDAKHANDI	ANKUSHPUR	TARA TARINI FLY ASH	100	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
284	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	VIGNESWAR NAGAR PLOT	100	1
285	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	RAGHUNATHPUR	100	1
286	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	OLD RAMACHANDRAPUR	100	1
287	ASKA	AED-I	NUAGAON	NUAGAON-1	NUAGAON	NUAGAM KALI MUKHI	100	1
288	ASKA	AED-I	ASKA	BALISIRA	GUNTHAPADA	KHANDABANDHA	100	1
289	BERHAMPUR	HED	SHERAGADA	KONKORADA	KURULA	KARAKHANDI MASANI SAHI	100	1
290	JEYPORE	MED	BALIMELA	BALIMELA	BALIMELA TOWN	PRIMARY SCHOOL	100	1
291	JEYPORE	JED	JESD-1	BOIPARIGUDA	BOIPARIGUDA	DURGA MANDIR	100	1
292	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-3	CT TRAINING	100	1
293	RAYAGADA	RED	RAYAGADA	JK PUR	T KOLNARA	GUNAKHAL	100	1
294	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	KESHPUR	MOHANPUR ME SCHOOL	100	1
295	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	KESHPUR	BIKRAMPUR-2	100	1
296	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	KESHPUR	RAMACHANDRAPUR	100	1
297	BERHAMPUR	GNED	KHALLIKOTE	KESHPUR	LANGESWAR	BHEJIPUT STATION	100	1
298	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	BNPUR	CHANDAPUR	100	1
299	BERHAMPUR	PSED	PURUSHOTTAMPUR	TARATARANI	JAMUNI	GANGADAHANI SCHOOL SAHI	100	1
300	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	RANIPADA	100	1
301	BHANJANAGAR	BNED	BHANJANAGAR-I	BHEJIPUT	GAMUNDI	NILADHARI VIHAR	250	1
302	BHANJANAGAR	BNED	BHANJANAGAR-I	BHEJIPUT	BHANJANAGAR TOWN	MOLO SHAI	250	1
303	BHANJANAGAR	BNED	BHANJANAGAR-I	ESO-I	BHANJANAGAR TOWN	GIRLS HS	250	1
304	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA TOWN	JN PRASAD RODA	250	1
305	BHANJANAGAR	BNED	BELLAGUNTHA	BELLAGUNTHA	BELLAGUNTHA TOWN	KOLI SAHI (HIGH SCHOOL ROAD SIDE)	250	1
306	BHANJANAGAR	PED	BALLIGUDA	BALLIGUDA	HIGHSCHOOL	CHURCH	250	1
307	BHANJANAGAR	PED	BALLIGUDA	BALLIGUDA	HIGHSCHOOL	HANUMAN TEMPLE	250	1
308	BHANJANAGAR	PED	BALLIGUDA	BALLIGUDA	HIGHSCHOOL	BLOCK COLONY	250	1
309	BHANJANAGAR	PED	G.UDAYAGIRI	G.UDAYAGIRI	TOWN-1	BADA SAHI	250	1
310	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	DIGAPAHANDI TOWN	GHODAHADA ROAD	250	1
311	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	DIGAPAHANDI TOWN	CHANDRACHUDA TEMPLE	250	1
312	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	DIGAPAHANDI TOWN	MEDICAL	250	1
313	ASKA	GSED	CHIKITI	SURANGI	KELUA	BADABARANGA	250	1
314	RAYAGADA	GED	GUMUDA	GUMUDA	SUBDRAPUR	SUBDRAPUR	250	1
315	RAYAGADA	GED	GUMUDA	PADAMPUR	KENDUGUDA	ANKUSING VILLAGE	250	1
316	ASKA	AED-II	KABISURYANAGAR	KABISURYANAGAR	BARIDA	BORASINGI 2	250	1
317	ASKA	AED-II	BUGUDA	BALIPADAR	GAHANGU	GAHANGU	250	1
318	ASKA	AED-II	BUGUDA	BALIPADAR	PANGIDI	PANKARBADI VILLAGE	250	1
319	ASKA	AED-II	BUGUDA	BUGUDA	BUGUDA TOWN	SOMNATH NAGAR 2	250	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
320	JEYPORE	KED	KORAPUT	KORAPUT NO-2	KOLAB TOWN	IRBN	250	1
321	JEYPORE	KED	KORAPUT	LAXMIPUR	LAXMIPUR TOWN	RI	250	1
322	JEYPORE	KED	KORAPUT	KAKRIGUMA	DASMANTPUR TOWN	NUA SAHI	250	1
323	JEYPORE	KED	KORAPUT	BANDHUGAON	NARAYANPATNA	OLD POLICE STATION	250	1
324	JEYPORE	KED	KORAPUT	BANDHUGAON	ALMONDA	ALMONDA	250	1
325	CITY	BED-II	SSD-I	ASKA ROAD	SRIRAM NAGAR	GRAMADEVATI STREET	250	1
326	CITY	BED-II	SSD-I	ASKA ROAD	SRIRAM NAGAR	GRAMADEVATI STREET	250	1
327	CITY	BED-II	SSD-III	GOSANINUAGAON	HIG	ANUMAN TEMPLE,ANDHAPASARA RO	250	1
328	CITY	BED-II	SSD-III	GOSANINUAGAON	GANDHINAGAR NO-II	NILAKANTHA NAGAR PHD	250	1
329	CITY	BED-I	GOPALPUR	GOPALPUR	BAXIPALLI	DIGIPUR	250	1
330	BHANJANAGAR	BOED	BOUDH	BOUDH	BOUDH TOWN 2	SANTI NAGAR	250	1
331	BHANJANAGAR	BOED	BOUDH	PURUNAKATAK	PURUNA KATAK	IRRIGATION COLONY	250	1
332	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	PURUNAKATAK MARKET 2	250	1
333	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	DIPSON-1	250	1
334	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	DIPSON-2	250	1
335	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	POLICE STATION-1	250	1
336	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	POLICE STATION-2	250	1
337	CITY	BED-I	GOPALPUR	GOPALPUR	GOPALPUR	PALM BEACH-2	250	1
338	CITY	BED-I	GOPALPUR	GOPALPUR	BAXIPALLI	OLD CIRCUIT HOUSE	250	1
339	CITY	BED-I	GOPALPUR	BHANJABIHAR	DURA	HANUMAN TEMPLE	250	1
340	CITY	BED-I	GOPALPUR	BHANJABIHAR	DURA	BAHADURPETA	250	1
341	CITY	BED-I	GOPALPUR	BHANJABIHAR	GOLABANDHA	GOLABANDHA	250	1
342	CITY	BED-I	GOPALPUR	HEADQUARTER	INCOME TAX	PALLIGUMULA	250	1
343	CITY	BED-I	GOPALPUR	HEADQUARTER	NARENDRAPUR	NARENDRAPUR-2 NEAR RAIL STATION	250	1
344	CITY	BED-I	INDUSTRIAL	LANJIPALLI	LANJIPALLI	RAMNAGARA	250	1
345	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANA	GANDHIMUNDA	250	1
346	CITY	BED-I	INDUSTRIAL	LANJIPALLI	GOODS ROAD	BISWANATH NAGARA	250	1
347	CITY	BED-I	INDUSTRIAL	LANJIPALLI	GOODS ROAD	BATAGANESH	250	1
348	CITY	BED-I	INDUSTRIAL	LANJIPALLI	NH ANKULI	BHUMI HIGHWAY	250	1
349	CITY	BED-I	MEDICAL	AMBAPUA	AJADHYA NAGER	DHANEI	250	1
350	CITY	BED-I	MEDICAL	AMBAPUA	GAJAPATI NAGER	RAJ HEIGHT	250	1
351	CITY	BED-I	MEDICAL	AMBAPUA	GAJAPATI NAGER	GAJAPATI BASUDEV NAGER 4TH LINE	250	1
352	CITY	BED-I	MEDICAL	AMBAPUA	AMBAPUA	BAJAJ BAJPAYEE	250	1
353	BHANJANAGAR	BOED	MANAMUNDA	MANAMUNDA	KANTAMAL	NEW CHILDREN PARK	250	1
354	CITY	BED-I	MEDICAL	AMBAPUA	AMBAPUA	POLICE COLONY	250	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
355	CITY	BED-I	MEDICAL	AMBAPUA	KHODASINGI	POLYTECHNIC	250	1
356	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	SUB COLLECTOR	250	1
357	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	TAHASIL OFFICE	250	1
358	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TATA BENZ	RAMAKRUSHNA NAGAR	250	1
359	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TATA BENZ	CANAL STREET	250	1
360	BHANJANAGAR	BOED	BOUDH	BOUDH	BOUDH TOWN 2	BUSSTAND	250	1
361	JEYPORE	NED	PAPADAHANDI	DABUGAM	TOWN	SAI MILL	250	1
362	CITY	BED-III	SDO-4	LUCHAPDA	BORIGAON	PKCHPUR	250	1
363	CITY	BED-III	SDO-4	LUCHAPDA	LUCHAPADA	KALUA NAGAR	250	1
364	CITY	BED-III	SDO-4	LUCHAPDA	NIMAKHANDI	KHANJI PADIA SAHI	250	1
365	CITY	BED-III	SDO-4	LUCHAPDA	NIMAKHANDI	NIMAKHANDI MAIN ROAD	250	1
366	CITY	BED-III	SDO-4	LUCHAPDA	LUCHAPADA	SHAKTI NAGRA 2ND LANE	250	1
367	CITY	BED-III	SDO-4	LUCHAPDA	LUCHAPADA	BASANTA VIHAR	250	1
368	ASKA	AED-I	ASKA	DHARAKOTE	MUNDAMAREI	BAHADAGUDA VILLAGE	250	1
369	ASKA	AED-I	NUAGAON	NUAGAON-1	NUAGAON	NUAGAM PSS	250	1
370	ASKA	AED-I	ASKA	ASKA	ASKA MEDICAL	GOPINATH TEMPLE	250	1
371	ASKA	AED-I	ASKA	ASKA	ASKA BUS STAND	MAHARANA GAREGE	250	1
372	ASKA	AED-I	ASKA	ASKA	ASKA BUS STAND	PALLI CHAKA I	250	1
373	BERHAMPUR	HED	HINJILICUT	KANCHURU	SARU	KANTEIKOLI	250	1
374	BERHAMPUR	HED	PATAPUR	PATAPUR	KHALINGI	KHUMBARAGADIA	250	1
375	JEYPORE	MED	BALIMELA	BALIMELA	CHITRAKONDA	PUNJABI CHOWK	250	1
376	JEYPORE	JED	JESD-1	JYP 3	GANDHI CHOWK	SITARAM	250	1
377	JEYPORE	JED	JESD-1	BOIPARIGUDA	BOIPARIGUDA	BSF CAMP	250	1
378	JEYPORE	JED	JESD-1	BOIPARIGUDA	BOIPARIGUDA	JEYPORE ROAD	250	1
379	JEYPORE	JED	BORIGUMMA	KOTPAD	KOTPAD TOWN	JAMAL SCHOOL	250	1
380	RAYAGADA	PKED	MOHANA	CHANDRAGIRI	MAHENDRAGADA	OLD SBI,MAHENDRAGADA COLONY	250	1
381	RAYAGADA	PKED	MOHANA	CHANDRAGIRI	MAHENDRAGADA	ROAD SIDE,MAHENDRAGADA	250	1
382	RAYAGADA	PKED	R.UDAYGIRI	KHAJURIPADA	HEAD QUARTER	BADAPADA	250	1
383	RAYAGADA	PKED	R.UDAYGIRI	KHAJURIPADA	NUAGADA	NUAGADA	250	1
384	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-1	KATIKIYA	250	1
385	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-3	CT TRAINING	250	1
386	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-4	KEUTA STREET	250	1
387	RAYAGADA	RED	RAYAGADA	JK PUR	KOLNARA	KOLNARA	250	1
388	RAYAGADA	RED	RAYAGADA	JK PUR	JK PUR	BHATIPADA	250	1
389	RAYAGADA	RED	RAYAGADA	RAYAGADA-I	TOWN-I	250 LOCO COLONY	250	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
390	ASKA	GSED	CHIKITI	NUAPADA	NUAPADA	NUAPADA VILLAGE (IOB)	250	1
391	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	ACHULI	ACHULI	250	1
392	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	BALIA	BARAPALII	250	1
393	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	B.SARSING	BADA KHARIDA	250	1
394	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	B.SARSING	BANANAI RI OFC	250	1
395	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	B.SARSING	ARAKHPUR	250	1
396	BERHAMPUR	PSED	PURUSHOTTAMPUR	TARATARANI	SUNATHARA	DUANAPALLI	250	1
397	BERHAMPUR	PSED	PURUSHOTTAMPUR	TARATARANI	BHATAKUMARADA	SBI	250	1
398	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	KANTA BANDHA	250	1
399	BERHAMPUR	PSED	POLASARA	POLASARA	BELAGAON	DIMBIRIA	250	1
400	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BHABARADA	HIGH SCHOOL	250	1
401	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BHABARADA	HANSARALI	250	1
402	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	CHIRIKIPADA	MADHUPALLI	250	1
403	BERHAMPUR	PSED	KODALA	KODALA	MATHASARSINGI	KALIMEGHI	250	1
404	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	BEGUNIPADA	NUABANDHA	250	1
405	BERHAMPUR	PSED	KODALA	BEGUNIAPADA	OLD ANGARAGAON	B.NUAGAON	250	1
406	BHANJANAGAR	BNED	BHANJANAGAR-I	BHEJIPUT	BHANJANAGAR TOWN	PATRO COLONY	315	1
407	BHANJANAGAR	BNED	BHANJANAGAR-I	ESO-I	BHANJANAGAR TOWN	MASANI BIPASS	315	1
408	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	DIGAPAHANDI TOWN	COURT SAHI	315	1
409	ASKA	GSED	DIGAPAHANDI	DIGAPAHANDI	DIGAPAHANDI TOWN	RAJAPUR ROAD	315	1
410	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	GUNUPUR TOWN	BAGADEVLA	315	1
411	RAYAGADA	GED	GUNUPUR	GUNUPUR TOWN	GUNUPUR COURT	AMAR BAZAR	315	1
412	ASKA	AED-II	KABISURYANAGAR	KABISURYANAGAR	KS NAGAR TOWN	SRI MARDARAJ HIGH SCHOOL	315	1
413	ASKA	AED-II	KABISURYANAGAR	KABISURYANAGAR	KS NAGAR TOWN	BRUNDABAN CHANDRAPUR SASAN 1	315	1
414	ASKA	AED-II	KABISURYANAGAR	KABISURYANAGAR	KS NAGAR TOWN	SIKHARAPUR SAHI 1	315	1
415	JEYPORE	KED	SUNABEDA	SUNABEDA	JADAGUDA	SANTINAGAR	315	1
416	JEYPORE	KED	SUNABEDA	SUNABEDA	BILEIGUDA TOWN	SAHOO MILL	315	1
417	JEYPORE	KED	KORAPUT	KORAPUT NO-1	KORAPUT NO-1	PHD	315	1
418	CITY	BED-II	SSD-I	ASKA ROAD	SRIRAM NAGAR	RADHAKRUSHNA ENCLAVE	315	1
419	CITY	BED-II	SSD-I	ASKA ROAD	ASKA ROAD	DHOBA BANDHA HUDA	315	1
420	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	PANDAB NAGAR	315	1
421	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR NO-I	KANJIVARI SAHI	315	1
422	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	AMBAPUA VILLAGE	315	1
423	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TATA BENZ	MANJARI NAGAR	315	1
424	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TOWN HALL	CONGRESS OFFICE	315	1
425	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TATA BENZ	TATA BENZ CHOWK	315	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
426	ASKA	AED-I	ASKA	ASKA	ASKA BUS STAND	LALA SASAN	315	1
427	ASKA	AED-I	ASKA	ASKA	ASKA BUS STAND	P G PALLI SIVA TEMPLE	315	1
428	BERHAMPUR	HED	PATAPUR	PATAPUR	PATAPUR	BISWASARAY BANDHA	315	1
429	BERHAMPUR	PSED	PURUSHOTTAMPUR	PSPUR	BARAGAON	CHINGUDIGHAI	315	1
430	BERHAMPUR	PSED	POLASARA	POLASARA	POLASARA TOWN	BUS STAND	315	1
431	JEYPORE	MED	BALIMELA	BALIMELA	BALIMELA TOWN	BALIMELA MARKET	315	1
432	JEYPORE	JED	JESD-1	JYP 3	GANDHI CHOWK	NADIABADA	315	1
433	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-1	JANGHAM STREET	315	1
434	RAYAGADA	PKED	PARALAKHEMUNDI	URBAN	TOWN-1	PALACE STREET	315	1
435	RAYAGADA	RED	RAYAGADA	RAYAGADA-I	TOWN-I	315KVA ROHIT COLONY 4TH LANE	315	1
436	BERHAMPUR	GNED	CHATRAPUR	CHATRAPUR SECTION-1	LOWERBUS STAND	BARAK STREET 1	315	1
437	BERHAMPUR	GNED	CHATRAPUR	CHATRAPUR SECTION-1	LOWERBUS STAND	PILI BANDHA HUDA 2	315	1
438	ASKA	GSED	CHIKITI	CHIKITI	CHIKITI PENTHO	SBI	500	1
439	CITY	BED-II	SSD-I	ASKA ROAD	SRIRAM NAGAR	SRIRAM NAGAR	500	1
440	CITY	BED-II	SSD-I	OLD BERHAMPUR	OLD BERHAMPUR	LN STREET 12TH LANE	500	1
441	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR NO-I	ANAND COMPLEX	500	1
442	CITY	BED-II	SSD-I	OLD BERHAMPUR	GANDHINAGAR NO-I	MALSENAPETTA	500	1
443	CITY	BED-II	SSD-I	OLD BERHAMPUR	HOUSING BOARD	KHASPA SAHI	500	1
444	CITY	BED-II	SSD-I	OLD BERHAMPUR	ASKA ROAD	SHANTI NAGAR	500	1
445	CITY	BED-II	SSD-III	GOSANINUAGAON	HIG	FISHERY	500	1
446	CITY	BED-II	SSD-III	GOSANINUAGAON	GOSANINUAGAON	LIC	500	1
447	CITY	BED-II	SSD-III	GOSANINUAGAON	HILLPATNA	BIJIPUR MARKET	500	1
448	CITY	BED-II	SSD-III	GOSANINUAGAON	GOSANINUAGAON	RU NAGAR 9TH LANE (HANUMAN TEM	500	1
449	CITY	BED-II	SSD-III	GOSANINUAGAON	HIG	SADANAND VIHAR	500	1
450	CITY	BED-II	SSD-III	GOSANINUAGAON	GOSANINUAGAON	DHAMANA SAHI	500	1
451	CITY	BED-II	SSD-III	GOSANINUAGAON	HIG	NANDIGHOSH CITY	500	1
452	CITY	BED-II	SSD-III	GOSANINUAGAON	HIG	NANDIGHOSH CITY	500	1
453	CITY	BED-II	SSD-III	GOSANINUAGAON	GANDHINAGAR NO-II	AMBIKANAGAR NEW	500	1
454	CITY	BED-I	INDUSTRIAL	LANJIPALLI	CHANDIMANDIRA	INDIRANAGARA	500	1
455	CITY	BED-I	INDUSTRIAL	LANJIPALLI	CHANDIMANDIRA	JAIL ROAD	500	1
456	CITY	BED-I	INDUSTRIAL	LANJIPALLI	LANJIPALLI	SRIKRUSHNA NAGARA	500	1
457	CITY	BED-I	INDUSTRIAL	LANJIPALLI	HILLPATANA	MAV	500	1
458	CITY	BED-I	INDUSTRIAL	LANJIPALLI	GOODS ROAD	BRMC	500	1
459	CITY	BED-I	INDUSTRIAL	LANJIPALLI	NIGAMNAGARA	HIGHSCHOOL	500	1
460	CITY	BED-I	MEDICAL	AMBAPUA	AJADHYA NAGER	P S RAO	500	1
461	CITY	BED-I	MEDICAL	AMBAPUA	GAJAPATI NAGER	GAJAPATI NAGER 12TH LINE	500	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
462	CITY	BED-I	MEDICAL	AMBAPUA	GAJAPATI NAGER	GAJAPATI NAGER 8TH LINE	500	1
463	CITY	BED-I	MEDICAL	AMBAPUA	KALI MANDIR	HOUSING BOARD	500	1
464	CITY	BED-I	MEDICAL	AMBAPUA	KHODASINGI	UCP	500	1
465	CITY	BED-I	MEDICAL	MEDICAL	KAMAPALLI	MATIHANDI	500	1
466	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	WALIA	500	1
467	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	AYODHA NAGAR 2ND LANE	500	1
468	CITY	BED-I	MEDICAL	MEDICAL	COURTPETA	AYODHA NAGAR 3ND LANE	500	1
469	CITY	BED-I	MEDICAL	MEDICAL	SIDHARTH NAGAR	JENABANDHA	500	1
470	CITY	BED-I	MEDICAL	MEDICAL	HOSPITAL	MEDICINE WARD AND CANCER WARD	500	1
471	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TATA BENZ	ANANDA SARANI	500	1
472	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TATA BENZ	GODABARISH NAGAR	500	1
473	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TOWN HALL	GOKARNEWAR TEMPLE	500	1
474	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TOWN HALL	SCIENTIFIC NAGAR	500	1
475	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	TOWN HALL	PANITANK	500	1

LOCATION OF LV PROTECTION

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	DSS NAME	EXISTING DSS RATING(KVA)	QTY
476	CITY	BED-I	INDUSTRIAL	CITY HOSPITAL	OLD BUSSTAND	SOUCHALAYA	500	1
477	CITY	BED-III	SDO-4	LUCHAPDA	LUCHAPADA	KALIMANDIR	500	1
478	CITY	BED-III	SDO-4	LUCHAPDA	LUCHAPADA	ACHYUTA NAGAR	500	1
479	CITY	BED-III	SDO-4	LUCHAPDA	NIMAKHANDI	RUBY EYE HOSPITAL	500	1
480	CITY	BED-III	SDO-4	LUCHAPDA	LUCHAPADA	LUCHAPADA BADA SAHI	500	1
481	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	RATHA CHAKADA	500	1
482	CITY	BED-III	KANISI	KUKKUDAKHANDI	KUKUDAKHNDI	IB KKD	500	1
483	JEYPORE	JED	JESD-1	JYP 3	DANGAGUDA	DHANVI TOWNSHIP	500	1
484	JEYPORE	KED	SUNABEDA	SIMLIGUDA	ANLABADI	ANLABADI COLONY	630	1

Location Sl No. 30

LOCATION OF 11KV RIVER CROSSING

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	NAME OF SUB-DIVISION	NAME OF SECTION	11 KV FEEDER NAME	RIVER NAME	RIVER CROSSING SPAN(IN MTR) FROM POINT TO POINT AS PER ACTUAL IN SITE	EXISTING STRUCTURE	PROPOSAL TYPE
1	ASKA	AED-II	K S NAGAR	K S NAGAR	BARIDA	BAGHUA	220	DP	UR+6
2	BERHAMPUR	PSED	POLASARA	CHIRIKIPADA	BALLICHAI	BAGHUA	100	SP	4-POLE
3	RAYAGADA	GED	GUMUDA	PADAMPUR	KENDUGUDA	PAJILIBANDHA	80	SP	4-POLE
4	BHANJANAGAR	BNED	BHANJANAGAR-I	ESO-I	BHANJANAGAR TOWN	LOHARAKHANDI	135	DP	NBLS
5	BHANJANAGAR	BNED	SORODA	SORODA	SORODA TOWN	JARAU	130	DP	NBLS

Location Sl No. 31

PTR AUGMENTATION-NEW

SR NO.	NAME OF CIRCLE	NAME OF DIVISION	PSS NAME	EXISTING IN MVA	PROPOSED IN MVA
1	JEYPORE	KED	OMP	1.6	8
2	JEYPORE	NED	ADHIKARIGUDA	5	8
3	JEYPORE	NED	JODINGA		8 (NEW)
4	JEYPORE	MED	MV-79	3.15	5
5	ASKA	AED-2	PAIKAJAMUNA	5	8
6	ASKA	AED-2	BUGUDA	5	8
7	BHANJANAGAR	PED	PHULBANI	5	8
8	BHANJANAGAR	BNED	BHANJANAGAR	3.15	8
9	BHANJANAGAR	BNED	LALSINGH	1.6	5
10	BHANJANAGAR	BOED	BAUNSUNI	3.15	8
11	RAYAGADA	PKED	PKED NEW	8	8 (NEW)

REPLACEMENT OF SICK PTR

SR NO.	NAME OF CIRCLE	NAME OF DIVISION	PSS NAME	EXISTING IN MVA	PROPOSED IN MVA
1	ASKA	AED-1	ASKA	8	8

Location Sl No. 32

LOCATION OF DT AUGMENTATION

Sr. NO	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER NAME	DSS NAME	EXISTING DTR RATING(KVA)	RATING OF PROPOSED DSS IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	AUGMENTATION SIZE (35) SQMM	AUGMENTATION SIZE (50) SQMM	AUGMENTATION SIZE (95) SQMM	NEW LT SIZE (35) SQMM	NEW LT SIZE (50) SQMM	NEW LT SIZE (95) SQMM
1	ASKA	AED-2	PATHARA	SUNDARIAPADA-MAIN ROAD	63	100				0.3				
2	ASKA	AED-2	BOLASARA	BOLOSARA NADIATOTA SAHI	63	100				0.3				
3	ASKA	AED-2	BUGUDA TOWN	RANGER OFFICE BUGUDA	250	500					0.3			
4	ASKA	AED-2	MOTABADI	JHATIKAPALLI	10	25	0.2			0.25				
5	ASKA	AED-2	GOLIA	CHADHIAPALLI	25	63				0.3				
6	ASKA	AED-2	BUGUDA TOWN	V S COLONY	100	250					0.3			
7	ASKA	AED-2	BUGUDA TOWN	BLOCK COLONY PHD	100	250					0.3			
8	ASKA	AED-2	BALIPADAR TOWN	BALIPADAR INFRONT OF PSS	25	63				0.3				
9	ASKA	AED-2	A KARADABADI	BISHNU CHHAKRA	10	25	0.2			0.25				
10	ASKA	AED-1	SHERAGADA	KORNALI	63	100				0.7				
11	ASKA	AED-1	SHERAGADA	BIJIPUR	16	25		0.2				0.4		
12	ASKA	AED-1	MUKUNDPUR	ALLIPUR VILLAGE-1 25 KVA	25	63				0.2		0.3		
13	ASKA	AED-1	SHERAGADA	CERAMARIYA 25 KVA	25	63						0.2		
14	ASKA	AED-1	GUNTHAPADA	MANKADAKHAI	10	25			0.5	0.5	0.5			
15	ASKA	AED-1	MAKUNDAPUR	BRAHMANCHHAI VILLAGE AN	250	500								0.8
16	ASKA	AED-1	COLLEGE SQ	MANTAPODA VILLAGE 3	63	100							0.5	
17	ASKA	AED-1	COLLEGE SQ	MANTAPODA VILLAGE 2	100	250								0.4

LOCATION OF DT AUGMENTATION

Sr. NO	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER NAME	DSS NAME	EXISTING DTR RATING(KVA)	RATING OF PROPOSED DSS IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	AUGMENTATION SIZE (35) SQMM	AUGMENTATION SIZE (50) SQMM	AUGMENTATION SIZE (95) SQMM	NEW LT SIZE (35) SQMM	NEW LT SIZE (50) SQMM	NEW LT SIZE (95) SQMM
18	ASKA	AED-1	SHERAGADA	KALASANDHAPUR1	100	250								0.4
19	ASKA	GSED	JAYANTIPUR	BARANGA NEAR MEDICAL	25	100				0.4				
20	ASKA	GSED	DUMULA	CHAKIPADA	16X4	63	0.1			0.4				
21	ASKA	GSED	BAHANAPATI	RADHAMOHANPUR	250+100	500								0.4
22	ASKA	GSED	KRUSHNANAGAR	RAMCHANDRAPALLI	16	25				0.4				
23	ASKA	GSED	CHIKITI GADA	PANDITARA SAHI	100	250								
24	ASKA	GSED	PITATALI	SUBARNAPUR	25	100								
25	ASKA	GSED	CHANDAPUR	BADUA	16	25			0.4					
26	ASKA	GSED	RAJAPUR	SAHASPUR DT-7, HTA3203-170/1	25	100							0.1	
27	ASKA	GSED	APAHANDI TOWN FEE	SR PETROL PUMP	100	250					0.8			
28	ASKA	GSED	BAHANAPATI	25KVA AMBAGAM	25	63				0.5				
29	JEYPORE	MED	MENDUKULI	KARTANPALI	16	100	0.05			0.6				
30	JEYPORE	MED	MATHILI	NAYAKSAHI	16	25	0.05		0.4					
31	JEYPORE	MED	SALIMI	SALIMI CHHAK	25	100				0.8				
32	JEYPORE	MED	MV-79	DNK 1	25	100								
33	JEYPORE	MED	TOWN	KUMBHARASAHI	25	63				0.7				
34	JEYPORE	MED	MICRO	RECLIMATION COLONY	100	250					0.7			

LOCATION OF DT AUGMENTATION

Sr. NO	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER NAME	DSS NAME	EXISTING DTR RATING(KVA)	RATING OF PROPOSED DSS IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	AUGMENTATION SIZE (35) SQMM	AUGMENTATION SIZE (50) SQMM	AUGMENTATION SIZE (95) SQMM	NEW LT SIZE (35) SQMM	NEW LT SIZE (50) SQMM	NEW LT SIZE (95) SQMM
35	JEYPORE	MED	TUMSAPALLY	MV100	25(1-PH)	63				0.4				
36	JEYPORE	MED	KORUKONDA	KENDRAGANPHA	16	25	0.2		0.4					
37	BHANJANAGAR	BOED	BAMANDA	RAITHANI2	25	63								
38	BHANJANAGAR	BOED	BAMUNDA	BAMUNDAPETROLPUMP	25	63								
39	BHANJANAGAR	BOED	BAMUNDA	JAGDISHPURCHHAK	63	100							0.5	
40	BHANJANAGAR	BOED	BOUDH TOWN 1	BABUSAHI	63	100								
41	BHANJANAGAR	BOED	BOUDH TOWN 1	NEARASSISANTIDIRECTOROFFI (NEAR CKT HOUSE)	100	250					0.7			0.4
42	BHANJANAGAR	BOED	BOUDH TOWN 1	BUTUPALIWATERTANK.2	250	500								0.4
43	BERHAMPUR	PSED	BHATAKUMARADA	BAIDHARA	16	63		0.1					0.3	
44	BERHAMPUR	PSED	SOLAGHARA	SOLAGHARA VILLAGE ROAD	3*16+2*25	250		0.1						0.3
45	BERHAMPUR	PSED	BELAGAON	GOTHALI	25	100								
46	BERHAMPUR	PSED	B.SARSING	BABARAPALI	63	100								
47	BERHAMPUR	PSED	PANDIRIPADA	LUNIAPADA	2X16	25		0.3				0.5		
48	BERHAMPUR	HED	MEDICAL	PADMAVATI NAGAR	100	250					0.45			
49	BERHAMPUR	HED	HINJILI	SUNADHIMIRA MCC 2	25	100				0.4				0.16
50	BERHAMPUR	HED	TOWN	SHYMALAI NAGAR/(HTB5101-1/331)	100	250					0.4			
51	BERHAMPUR	HED	NEW PUTIAPADARA	RALABA	315	500					0.25			

LOCATION OF DT AUGMENTATION

Sr. NO	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER NAME	DSS NAME	EXISTING DTR RATING(KVA)	RATING OF PROPOSED DSS IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	AUGMENTATION SIZE (35) SQMM	AUGMENTATION SIZE (50) SQMM	AUGMENTATION SIZE (95) SQMM	NEW LT SIZE (35) SQMM	NEW LT SIZE (50) SQMM	NEW LT SIZE (95) SQMM
52	BERHAMPUR	HED	NEW PUTIAPADARA	NANDIKA HADI SAHI	63	100								
53	JEYPORE	JED	UMURI	AIRPORT	100	250					0.5			0.6
54	JEYPORE	JED	JAYANAGAR	CHILIGUDA	63	100				0.6				
55	JEYPORE	JED	GANDHI CHAKK	JAMAL	63	100							0.2	
56	JEYPORE	JED	GANDHI CHAKK	JAMAL	200	500								0.6
57	JEYPORE	JED	GANDHI CHAKK	KELLA NAGAR	63	100								
58	JEYPORE	JED	JEYPORE NO 1	GANGA NAGAR	63	100				0.6				
59	JEYPORE	JED	KOTPAD TOWN	BONDAGUDA(HT J 1502-1/510)	100	250					1			1.2
60	BHANJANAGAR	BNED	BHANJANAGAR TOWN	MALA SAHI	250	500					0.3			0.2
61	BHANJANAGAR	BNED	BHANJANAGAR TOWN	GHUMSURA CLUB	100	250					0.4			0.3
62	BHANJANAGAR	BNED	NGAPUR (BHANJANAG	DHUDUA KALI TEMPLE	25	100				0.8			0.5	
63	BHANJANAGAR	BNED	TURUMU	RANGAMERU VILLAGE	25	100								
64	BHANJANAGAR	BNED	BRAHAMANAPADARA	PRADHAN SAHI	16	25	0.1					0.4		
65	BHANJANAGAR	BNED	KULANGI	PALASPALLI VILLAGE 1	100	250					0.5			
66	BHANJANAGAR	BNED	KADUA	KHAIRAJHOLA NIMA SAHI	25	63								
67	BHANJANAGAR	BNED	GOUDAGOTHA	GOUDAGOTHA HIGH SCHOOL	25	63							0.5	
68	BHANJANAGAR	BNED	GOUDAGOTHA	S PIPALAPANKA VILLAGE	16	25	1					0.2		

LOCATION OF DT AUGMENTATION

Sr. NO	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER NAME	DSS NAME	EXISTING DTR RATING(KVA)	RATING OF PROPOSED DSS IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	AUGMENTATION SIZE (35) SQMM	AUGMENTATION SIZE (50) SQMM	AUGMENTATION SIZE (95) SQMM	NEW LT SIZE (35) SQMM	NEW LT SIZE (50) SQMM	NEW LT SIZE (95) SQMM
69	RAYAGADA	GED	GUNUPUR TOWN	GADHIYAKHALA (HTR3101-1/233)	250	500								2
70	RAYAGADA	GED	SULUDI	SULUDI VILLAGE (HTR3204-3/653)	25	63				0.7				
71	RAYAGADA	GED	PALUPAI	PERIKHETI (HTR3204-2/412)	25	63				0.4				
72	RAYAGADA	GED	GUNUPUR COURT	IN FRONT OF POLICE STATION (HTR3101-2/418)	100	250								1
73	RAYAGADA	GED	PADAMPUR	MARKAMA SAHI (HTR3202-1/111)	63	100				0.7				
74	RAYAGADA	GED	GUNUPUR COURT	RAMESHWAR (HTR3101-2/406)	63	250								1
75	RAYAGADA	PKED	PANIGANDA	PANIGANDA 1	63	100								
76	RAYAGADA	PKED	KASINAGAR TOWN-1	BUS STAND	315	500								
77	RAYAGADA	PKED	JHAMI	BADA TULSI PADO	16	63	0.04			0.25				
78	RAYAGADA	PKED	TOWN-2	NAHARIPUR	16	63	1			0.3				
79	RAYAGADA	PKED	JITM	DIPTI SADAN	100	250					0.8			
80	RAYAGADA	RED	GORAKHPUR FEEDER	LACHUGUDA VILLAGE	63	100								
81	RAYAGADA	RED	GORAKHPUR FEEDER	HADIGUDA VILLAGE	25	63	5							
82	RAYAGADA	RED	DONGASIL FEEDER	RATAPADA VILLAGE	16	25	1							
83	RAYAGADA	RED	AMBADOLA TOWN	TARINI MANDIR	100	250					0.7			
84	RAYAGADA	RED	PENTA	GETIPADA	16	25	2	0.06	0.2			0.2		
85	RAYAGADA	RED	TOWN-4	RANIGUDA FCC (DT024)	315	500					1			

LOCATION OF DT AUGMENTATION

Sr. NO	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER NAME	DSS NAME	EXISTING DTR RATING(KVA)	RATING OF PROPOSED DSS IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	AUGMENTATION SIZE (35) SQMM	AUGMENTATION SIZE (50) SQMM	AUGMENTATION SIZE (95) SQMM	NEW LT SIZE (35) SQMM	NEW LT SIZE (50) SQMM	NEW LT SIZE (95) SQMM
86	RAYAGADA	RED	RANIGUDA	REVENUE COLONY RANI GUD (DT048)	100	250					1			
87	JEYPORE	KED	TOWN	TOWN	100	250								0.5
88	JEYPORE	KED	PUKALI	PUKALI	63	100				0.4			0.2	
89	JEYPORE	KED	NUAGAON	UPER GANJIPADAR	16	25	0.3		0.3					
90	JEYPORE	KED	COFFEEBOARD	1ST IRBN	16	25				0.65				
91	JEYPORE	KED	ALMONDA	ALMONDA	16	25				0.6				
92	JEYPORE	KED	NILABADI	NILABADI HARIJAN SAHI	25	63				0.7				
93	JEYPORE	KED	DUMADANGAR	BARIABHATA	25	63				0.6				
94	JEYPORE	KED	DASMANTPUR	BANUAGUDA	63	100					0.5			
95	JEYPORE	KED	NARAYANPATNA	PALKONDA SAHI	63	250					0.6			
96	BHANJANAGAR	PED	TOWN NO. 3	SKILL DEVELOPMENT (HTN2101-5/536)	63	100								
97	BHANJANAGAR	PED	PHULBANI SAHI	AMBEDKAR SQUARE (HTN2101-4/41)	250	500								
98	BHANJANAGAR	PED	PHULBANI COLLEGE	OWMEN'S COLLEGE (HTN2101-1/75)	100	250					0.2			
99	BHANJANAGAR	PED	DUTIPADA	RAIKHOLA 15525333 (HTN2103-1/1316)	16	63				0.6				
100	BHANJANAGAR	PED	KHAJURIPADA TOWN	DANGI SAHI (HTN2103-3/134)	25	63				0.6				
101	BHANJANAGAR	PED	PHULBANI N0-3	SRIRAMNAGAR (HTN2102-5/102)	16	100					0.28			
102	BHANJANAGAR	PED	ADASIAPADA	AMBAPADA SQUIRE (HTN2102-2/70)	16	25			0.5					

LOCATION OF DT AUGMENTATION

Sr. NO	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER NAME	DSS NAME	EXISTING DTR RATING(KVA)	RATING OF PROPOSED DSS IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	AUGMENTATION SIZE (35) SQMM	AUGMENTATION SIZE (50) SQMM	AUGMENTATION SIZE (95) SQMM	NEW LT SIZE (35) SQMM	NEW LT SIZE (50) SQMM	NEW LT SIZE (95) SQMM
103	BHANJANAGAR	PED	CHARCH	KANDHASAHI NEAR ANGANWADI (METER NO - 0623 TD0961221)	63	250					0.5			
104	BHANJANAGAR	PED	TOWN-2	BANK COLONY (DT NO - 18806010)	16	25	0.1					0.6		
105	BERHAMPUR	GNED	KARATALI	KATURU	25	100				0.3				0.4
106	BERHAMPUR	GNED	UPPER BUS STAND	SHANTINAGAR	250	500								0.4
107	BERHAMPUR	GNED	KANHEIPUR	GHODAPADA	10	25	0.1		0.2					
108	BERHAMPUR	GNED	KANHEIPUR	CHITRAGADIA	16	25	0.1		0.2					
109	BERHAMPUR	GNED	SHYAMASUNDARPUR	KAMALAPADAR	100	250					0.2			
110	BERHAMPUR	GNED	SHYAMASUNDARPUR	KENDUBADI	100	250					0.5			
111	BERHAMPUR	GNED	KHANDADEULI	KALIJAMUNA	3X16	100	0.1		0.4					
112	BERHAMPUR	GNED	SHYAMASUNDARPUR	BALUKESWARPUR BRAMHANA STREET	100	250					0.2			
113	BERHAMPUR	GNED	POLICE STATION	KATHAGADA	16	25	0.1		0.2					
114	JEYPORE	NED	GONA	TIMANPUR(ROUTPARA) HTJ2302-4/708	16	25			0.5			0.3		
115	JEYPORE	NED	GURUSINGHA	MOHANDA ADV HTJ2302-3/1534	16	25			1			0.2		
116	JEYPORE	NED	MANGARACHACHARA	BADLIGUDA SEJ65F04DT040	25	63	0.1		0.4	0.4	0.5	0.2	0.2	0.2
117	JEYPORE	NED	MANGARACHACHARA	EKAMBA SEJ65F04DT196	25	63	0.5		0.4	0.4	0.5	0.2	0.2	0.2
118	JEYPORE	NED	UMERKOTE TOWN	63KVA DANGRIGUDA TRM ,NEAR UV-II	63	100								
119	JEYPORE	NED	DNK	VALUGUDA	250	500								

LOCATION OF DT AUGMENTATION

Sr. NO	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER NAME	DSS NAME	EXISTING DTR RATING(KVA)	RATING OF PROPOSED DSS IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	AUGMENTATION SIZE (35) SQMM	AUGMENTATION SIZE (50) SQMM	AUGMENTATION SIZE (95) SQMM	NEW LT SIZE (35) SQMM	NEW LT SIZE (50) SQMM	NEW LT SIZE (95) SQMM
120	JEYPORE	NED	DHODRA	63KVA DHUDRA TRM	63	100								
121	JEYPORE	NED	UMERKOTE TOWN	SLN PUBLIC SCHOOL5 SEJ76F04DT004	100	250								
122	JEYPORE	NED	DNK	s	100	250								

Location Sl No. 33

LOCATION OF NEW DISTRIBUTION TRANSFORMER

S. NO	NAME OF CIRCLE	NAME OFDIVISION	NAME OF 11KV FEEDER	DSS NAME	EXISTING DSS RATING IN KVA	RATING OF PROPOSED DTR IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	LT ABC AUG (KM)			LT ABC NEW (KM)		
									AUG LENGTH 35 IN KM	AUG LENGTH 50 IN KM	AUG LENGTH 95 IN KM	NEW LENGTH IN KM 35 SQMM	NEW LENGTH IN KM 50 SQMM	NEW LENGTH IN KM 95 SQMM
1	ASKA	AED-II	SIALIA	DEOGAON-BADASAHI	10	63							0.5	
2	ASKA	AED-II	KARCHULLI	CHATAINYA PRASAD	25	63							0.5	
3	ASKA	AED-II	K S NAGAR TOWN	HARINAPADIA	25	100								0.5
4	ASKA	AED-II	BUGUDA TOWN	ODIASAHI SANTOSHIMA TEMPLE	100	250								0.8
5	ASKA	AED-II	K S NAGAR TOWN	BADAAGULA DANDA END NEAR POND	100	100								0.5
6	ASKA	AED-I		JAGAMOHAN VILLAGE	100	100							0.4	
7	ASKA	AED-I	COLLEGE SQ	KHARIA	100	100		0.5					0.7	
8	ASKA	GSED	CHIKITI GADA	SDPO OFFICE	25	100		0.1						0.2
9	ASKA	GSED	DIGAPAHANDI TOWN FEEDER	SAUCHALYA	500	100		0.5					0.4	
10	ASKA	GSED	DIGAPAHANDI TOWN FEEDER	PUNJIKAYACHAKA(3405249)	500	250		0.01						1
11	ASKA	GSED	KHARIAGUDA	LIMIGAON	2X16	25		0.05					0.2	
12	ASKA	GSED	RAJPUR	BRUNDABAN NAGAR	16	63		0.3				0.4		
13	JEYPORE	MED	PANGAM	PANGAM-24690705	16	63		0.1					0.8	
14	JEYPORE	MED	TOWN	SBI2-19469273	250	100		0.5						0.7
15	JEYPORE	MED	TOWN	NEAR PSS-19470387	100	63							0.6	
16	JEYPORE	MED	KORUKONDA	BUS STAND- (18.277885, 81.989832)	100	63		0.05		0.3			0.05	
17	JEYPORE	MED	OLD KORUKONDA	MV-37 VILLAGE-13475162	25	63		0.1						
18	BHANJANAGAR	BOED	BOUDH TOWN 1	BUTUPALIPANDITSAHI.3 (THURANALI)	100	100		0.3						0.6
19	BHANJANAGAR	BOED	BOUDH TOWN 1	BUTUPALI (FOREST GATE) ADARSHVIHARCOLONY	100	63		0.2					0.7	
20	BHANJANAGAR	BOED	SULIA	JHAGADUPALI 2	10	25	0.2		0.5					
21	BERHAMPUR	PSED	BHATAKUMARADA	NEAR SBI	100+63	100		0.5						0.5
22	BERHAMPUR	PSED	SUNATHARA	ANGU	63	100							0.4	
23	BERHAMPUR	PSED	POLASARA TOWN	PATANA PADAR SAHI	250	250								0.8
24	BERHAMPUR	HED	MEDICAL	GAYATRINAGAR	100 KVA	100		0.08			0.32			0.1
25	BERHAMPUR	HED	MEDICAL	TOWER AIRTEL-LTB5101-63/25	100 KVA	100		0.1			0.28			0.1
26	JEYPORE	JED	DANGARPAUNSI	DANGARPAUSI	100	63		0.5					0.2	
27	JEYPORE	JED	DANGAGUDA	NEELTARA	250	250								0.6
28	JEYPORE	JED	GANDHI CHAKK	DIET	500	500								1
29	JEYPORE	JED	TOWN	RM NAGAR	25	100		0.4		0.36				

LOCATION OF NEW DISTRIBUTION TRANSFORMER

S. NO	NAME OF CIRCLE	NAME OFDIVISION	NAME OF 11KV FEEDER	DSS NAME	EXISTING DSS RATING IN KVA	RATING OF PROPOSED DTR IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	LT ABC AUG (KM)			LT ABC NEW (KM)		
									AUG LENGTH 35 IN KM	AUG LENGTH 50 IN KM	AUG LENGTH 95 IN KM	NEW LENGTH IN KM 35 SQMM	NEW LENGTH IN KM 50 SQMM	NEW LENGTH IN KM 95 SQMM
30	BHANJANAGAR	BNED	BHANJANAGAR TOWN	BIJU PATNAIK SQUARE	315	250		0.1						1.1
31	BHANJANAGAR	BNED	DURGAPRASAD	MUJAGADA PANCHAYAT	500	25		0.05	0.5					
32	BHANJANAGAR	BNED	SIDHAPUR	SAPUA VILLAGE	16	63	0.1	0.5					0.3	
33	BHANJANAGAR	BNED	TURUMU	BERNUABADI VILLAGE	63	63							0.5	
34	BHANJANAGAR	BNED	GAYAGANDA	GAYAGANDA VILLAGE	100	100		0.02					0.4	
35	RAYAGADA	GED	COURT	ADRASH NAGAR	2*100	250		0.5						1.1
36	RAYAGADA	GED	COURT	BY PASS SQUARE	100	100		0.2						0.8
37	RAYAGADA	GED	COURT	GUNDICHA TEMPLE	16	25		0.4					0.5	
38	RAYAGADA	GED	COURT	META KAMANA GUDA	25	63		0.5					0.3	
39	RAYAGADA	GED	JALTAR	JALTAR COLONY	100	25		0.8				0.6		
40	RAYAGADA	PKED	ADAVA TOWN	ADABA TOWN	100	63		0.07					0.4	
41	RAYAGADA	PKED	PHD	SRIDHAR NAGAR 2	250	100				0.5			0.4	
42	RAYAGADA	PKED	SAMBALPUR	RUBUDISING	10	25	0.5						0.5	
43	RAYAGADA	PKED	SAMBALPUR	KAKATABANDHA/N BARADANGA 1	25	25		0.15					0.3	
44	RAYAGADA	PKED	BHURJANGA	BHURJANGA	100	63		0.1					0.25	
45	RAYAGADA	PKED	RAIGADA	ABASING	63	25		0.4					0.3	
46	RAYAGADA	PKED	TOWN 2	GRID ROAD/BOUNDRY	100	250		0.1			0.5			
47	RAYAGADA	RED	TOWN-I	100KVA ROHIT COLONY 7TH LANE	100	500		0.5						0.1
48	RAYAGADA	RED	TOWN-2	100KVA UTKALMANI NAGAR	100	500								0.3
49	RAYAGADA	RED	TOWN-4	LAXMAN ST NEW COLONY NEAR BANSI KRISHNA HOUSE	100KVA	100					0.3			
50	RAYAGADA	RED	TOWN-3	OMP JUNCTION(DT084)	500	250		0.5			1			
51	JEYPORE	KED	TOWN	BADAGAON	100	250		0.1			0.6		0.5	
52	BHANJANAGAR	PED	PHULBANI NO-3	IWDP OFFICE (HTN2101-5/88)	100	100		0.5			0.4			
53	BHANJANAGAR	PED	DUTIPADA	MADIKULA (HTN2103-1/2411)	10	25	0.05	0.05		0.6			0.7	
54	BHANJANAGAR	PED	DUTIPADA	GUMURIKHOLA (HTN2103-1/1614)	25	25		0.6		0.7			0.7	
55	BHANJANAGAR	PED	ADINIGADA	RANIPATHAR -2 (HTN2103-7/286)	16	63	0.7	0.6		0.6			0.5	
56	BHANJANAGAR	PED	DUTIPADA	KHAUMUNDA UPAR SAHI (HTN2103-1/1711)	63	25		0.32		0.3				
57	BHANJANAGAR	PED	RUKANBADI	BADIPADAR (SEN30-F03-DT016)	16	63		0.2					0.2	
58	BHANJANAGAR	PED	RUKANBADI	KUTUBADI (SEN30-F03-DT067)	16	25	0.5			0.5				
59	BHANJANAGAR	PED	RUKANBADI	SARINGIRIPI (SEN30-F02-DT002)	16	25	0.1			0.7				

LOCATION OF NEW DISTRIBUTION TRANSFORMER

S. NO	NAME OF CIRCLE	NAME OFDIVISION	NAME OF 11KV FEEDER	DSS NAME	EXISTING DSS RATING IN KVA	RATING OF PROPOSED DTR IN KVA	11 KV PHASE CONVERSION (KM)	11KV NEW LINE FOR NEW DT(CKM)	LT ABC AUG (KM)			LT ABC NEW (KM)		
									AUG LENGTH 35 IN KM	AUG LENGTH 50 IN KM	AUG LENGTH 95 IN KM	NEW LENGTH IN KM 35 SQMM	NEW LENGTH IN KM 50 SQMM	NEW LENGTH IN KM 95 SQMM
60	BERHAMPUR	GNED	CHATRAPUR RURAL	GEDALPALI VILLAGE	100	100								0.3
61	BERHAMPUR	GNED	MORADA	MALUD -1	100	25		0.05		0.8				
62	JEYPORE	NED	NO-I	SAI NAGAR LIC CHHAKA (BAJARANG RICE MILL)/HILL PARK 1 SEJ57F01DT050	250	250		0.3		0.7			0.6	
63	JEYPORE	NED	NO-I	TARINIMISTRI HOUSE (ICHHABATIGUDA 3) SEJ57F01DT009	100	100		0.1		0			0.3	
64	JEYPORE	NED	JAMUGUDA	TONDA VILLAGE 2&3 (SEJ59F02DT076 & SEJ59F02DT077)	2X16	63	0.8		0.6					
65	JEYPORE	NED	DEOBANDH	SANDHIMUNDA SEJ71F01DT191	16	25		0.4		0.7				
66	JEYPORE	NED	DANDAMUNDA	CHILIGAON-1 SEJ71F03DT058	16	25		0.5		0.75				
67	JEYPORE	NED	BEHERAMUNDA	DHURUAPADA (UPERSAHIPADA)DHARUAPADA SCHOOL SEJ71F04DT002	16	25		0.4		0.5				
68	BERHAMPUR	PSED	PANDIRIPADA	SABITRI BAGADA	2X16	63		0.6		0.6				

Location Sl No 34

UPGRADATION OF LT ABC CABLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER	NAME OF DSS	RATING IN KVA	LT UPGRADATION FROM LOCATION	LT UPGRADATION TO LOCATION	PROPOSED AB CABLE SIZE FOR LT AUGMENTATION / NEW LT	UPGRADATION CABLE SIZE 95 SQMM	UPGRADATION CABLE SIZE 50 SQMM	UPGRADATION CABLE SIZE 35 SQMM	TOTAL LENGTH CONSIDER IN CKM
1	ASKA	AED-II	A. KARDABADI	A. KARDABADI VILLAGE	100+63	100+63KVA DSS	TAIL END	50		0.2		0.2
2	ASKA	AED-II	BALIPADAR TOWN	JALI SAHI CHAKA	16	16KVA DSS	TAIL END	35			0.2	0.2
3	ASKA	AED-II	K. S. NAGAR TOWN	KETUA SAHI	315	315KVA DSS	TAIL END	95	0.2			0.2
4	ASKA	AED-II	K. S. NAGAR TOWN	TV CENTRE	200	200KVA DSS	TAIL END	95	0.24			0.24
5	ASKA	AED-II	BOLOSARA	BOLOSARA	2X100	2X100KVA DSS	TAIL END	95		0.2		0.2
6	ASKA	AED-II	BOLOSARA	BALIASARA	100	100KVA DSS	TAIL END	95		0.15		0.15
7	ASKA	AED-II	BOLOSARA	BALIASARA	16	16KVA DSS	TAIL END	35			0.25	0.25
8	ASKA	AED-II	ATHAGADA PATNA	KALI TEMPLE	200	200KVA DSS	TAIL END	95		0.2		0.2
9	ASKA	AED-II	SIALIA	GANGAPUR HADI SAHI	100	100KVA DSS	TAIL END	95		0.12		0.12
10	ASKA	AED-II	PAIKAJAMUNA	PAIKAJAMUNA	100	100KVA DSS	TAIL END	95		0.2		0.2
11	ASKA	AED-II	GAHANGU	DEHUKA VILLAGE BACK SIDE	100	100KVA DSS	TAIL END	95		0.15		0.15
12	ASKA	AED-II	BALIPADAR TOWN	ACHARYA COLONY	25	25KVA DSS	TAIL END	50		0.1		0.1
13	ASKA	GSED	BAHANAPATI	RADHAMOHANPUR	250	DTR	ACROSS VILLAGE	95	0.44			0.44
14	ASKA	GSED	BAHANAPATI	BADAPALANKA	63	DTR	ACROSS VILLAGE	50		0.4		0.4
15	ASKA	GSED	BAHANAPATI	BADAPALANKA	100	DTR	ACROSS VILLAGE	50		0.3		0.3
16	ASKA	GSED	BAHANAPATI	JAGANATHPUR	63	THAKURANI TEMPLE	ACROSS VILLAGE	50		0.32		0.32
17	ASKA	GSED	KRUSHNANAGAR	DANAPUR OLIC	25	DTR	ACROSS OLIC POINTS	35			0.37	0.37
18	ASKA	GSED	BAHANAPATI	DALAPALANKA	63	DTR	ACROSS VILLAGE	50		0.3		0.3
19	BERHAMPUR	PSED	B N PUR	LANGALGHAI OLIC	25	SUB-STATION	LI POINT	35			0.37	0.37
20	BERHAMPUR	PSED	PSPUR	TAHASIL OFFICE	250	NILAKANTHANAGAR	LAST END	95	0.44			0.44

UPGRADATION OF LT ABC CABLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER	NAME OF DSS	RATING IN KVA	LT UPGRADATION FROM LOCATION	LT UPGRADATION TO LOCATION	PROPOSED AB CABLE SIZE FOR LT AUGMENTATION / NEW LT	UPGRADATION CABLE SIZE 95 SQMM	UPGRADATION CABLE SIZE 50 SQMM	UPGRADATION CABLE SIZE 35 SQMM	TOTAL LENGTH CONSIDER IN CKM
21	BERHAMPUR	PSED	TARATARANI JUNCTION	TANVI SCHOOL	100	MAIN ROAD	PLOTING END	50		0.4		0.4
22	BERHAMPUR	PSED	POLASARA TOWN	DEBI NAGAR	250	DSS	END OF SATYA NAGAR	50		0.25		0.25
23	BERHAMPUR	PSED	POLASARA TOWN	DEBI NAGAR	250	DSS	DEBI NAGAR 3RD-LANE	50		0.25		0.25
24	BERHAMPUR	PSED	DHUNKAPADA	KANIAPALLI	25	DP	GOLIA ROAD	50		0.42		0.42
25	BERHAMPUR	HED	HINJILI URBAN	HATI HINJILICUT	250	GANESH MARGA (LTB5101-4/29)	LTB5101-234/62	95	0.45			0.45
26	BERHAMPUR	HED	BADAKHANDI	MAKARJHOLA	250 +100	DSS	KUMBHARA SAHI CHHOWK	95	0.3			0.3
27	BERHAMPUR	HED	D.PATAPUR	PATAPUR 16 KVA	16	DSS	TELL END	35			0.17	0.17
28	BERHAMPUR	HED	SARU	KANTEIKOLI	2*100	NILA BANDHA	UP SCHOOL	35			0.2	0.2
29	BERHAMPUR	HED	SARU	SARADHAPUR	250	HANUMAN STATUE	TALA STREET	95	0.12			0.12
30	BERHAMPUR	HED	SARU	SARDHAPUR DASA SAHI	250	DASA SAHI FIRST	DASA SAHI END	95	0.11			0.11
31	BERHAMPUR	HED	BURUPADA	PENATHA ST	250	PENTHA ST	PENTHA ST	95	0.4			0.4
32	JEYPORE	MED	BALIMELA TOWN	DURGA PADIA	250	MAIN ROAD	DRIVER LANE-2 END	95	0.4			0.4
33	JEYPORE	MED	BALIMELA TOWN	NALA CHOWK	63	MAIN ROAD	JHATIMATI LINE	35			0.37	0.37
34	JEYPORE	MED	K.GUMMA TOWN	GUMMA MARKET	100	DSS	POLICE STATION	95		0.3		0.3
35	JEYPORE	MED	MATHILI	MILUGUDA	100	FROM DSS	TEACHER COLONY	95		0.33		0.33
36	JEYPORE	MED	TOWN	MALIKESWAR COLONY	100	MALIKESWAR COLONY		95		0.39		0.39
37	JEYPORE	MED	MV-79	79 VILLAGE	100	LT J3102-1352/64	LTJ3102-1352/33	50		0.3		0.3
38	ASKA	AED-1	NUAGADA	LAXMIPUR	63	S/S	VILLAGE END	50		0.4		0.4
39	ASKA	AED-1	COLLEGE SQ	MONTAPADA	100	DURGA MANDAP	NUASAHI SQ	50		0.1		0.1
40	ASKA	AED-1	COLLEGE SQ	MONTAPADA	63	FROM S/S	HIGH SCHOOL	50		0.1		0.1

UPGRADATION OF LT ABC CABLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER	NAME OF DSS	RATING IN KVA	LT UPGRADATION FROM LOCATION	LT UPGRADATION TO LOCATION	PROPOSED AB CABLE SIZE FOR LT AUGMENTATION / NEW LT	UPGRADATION CABLE SIZE 95 SQMM	UPGRADATION CABLE SIZE 50 SQMM	UPGRADATION CABLE SIZE 35 SQMM	TOTAL LENGTH CONSIDER IN CKM
41	ASKA	AED-1	BHETANAI	BHETANAI PANCHAYAT OFFICE	100	BRUNDABATI SAHI	HARIJANA SAHI	50		0.2		0.2
42	ASKA	AED-1	BHETANAI	BADAGADA	100	DSS	HARIJANA SAHI	50		0.22		0.22
43	ASKA	AED-1	BUS STAND	ACMPCS	500	DSS	REVENUE BUNGLOW	95	0.22			0.22
44	ASKA	AED-1	BUS STAND	REVENUE BUNGLOW	500	DSS	BSNL	95	0.22			0.22
45	ASKA	AED-1	NIMINA	MATIAPALLI	63	DSS	VILLAGE END	50			0.37	0.37
46	ASKA	AED-1	NIMINA	AMBAPUA	100X2	DSS	VILLAGE END	50		0.3		0.3
47	BHANJANAGAR	BOED	KANTAMAL	TELEPHONE OFFICE	250	TELEPHONE OFFICE	COURT	95	0.44			0.44
48	BHANJANAGAR	BOED	GHANTAPADA	PODAPADAR	63	TOWN	TOWN	50		0.5		0.5
49	BHANJANAGAR	BOED	MANIKPUR	LUNDRU	25	SCHOOL	VILLAGE END	50		0.2		0.2
50	BHANJANAGAR	BOED	BAUNSUNI	BAUNSUNI MARKET	100	SUB-STATION	DIMIRIPALI SCHOOL & BAUNSUNI MARKET	50		0.62		0.62
51	BHANJANAGAR	BOED	JANAPANK	JANAPANK	25	SUB-STATION	VILLAGE END	35			0.37	0.37
52	JEYPORE	JED	UMURI	DENGAGUDA	100	DENGAGUDA DSS	OBC HOSTEL	95		0.47		0.47
53	JEYPORE	JED	KORAPUT	HK COLONY	100	DSS	HK COLONY BACK SIDE	95		0.45		0.45
54	JEYPORE	JED	KORAPUT	POWER HOUSE COLONY	250	DSS	PRAKASH VIDYALAYA	95	0.44			0.44
55	JEYPORE	JED	TOWN	CINEMA HALL	100	CINEMAL HALL	VENKAT NAGAR AREA	50		0.4		0.4
56	JEYPORE	JED	NARIGAON	SOURA SAHI	25	DSS LOCATION	SOURA SAHI	35			0.37	0.37
57	RAYAGADA	PKED	TOWN-4	SUB JAIL	63	DSS	SUB JAIL	50	0.1			0.1
58	RAYAGADA	PKED	TOWN 4	DOLA BANDHA	500	DSS	END OF SUBHADRA VIHAR	95	0.32			0.32
59	RAYAGADA	PKED	TOWN-4	MARUTI NAGAR	100	MARUTINAGAR	CHAITYAN NAGAR	95		0.32		0.32
60	RAYAGADA	PKED	KERANDI	OLD SP	500	DSS	BACK SIDE OF UNION BANK	50		0.3		0.3

UPGRADATION OF LT ABC CABLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER	NAME OF DSS	RATING IN KVA	LT UPGRADATION FROM LOCATION	LT UPGRADATION TO LOCATION	PROPOSED AB CABLE SIZE FOR LT AUGMENTATION / NEW LT	UPGRADATIO N CABLE SIZE 95 SQMM	UPGRADATION CABLE SIZE 50 SQMM	UPGRADATION CABLE SIZE 35 SQMM	TOTAL LENGTH CONSIDER IN CKM
61	RAYAGADA	PKED	KERANDI	RAMSAGAR	250	DSS	B SITAPUR	50		0.32		0.32
62	RAYAGADA	PKED	TABARSING	PARISALA	100	PARISALA DSS	PARISALA VILLAGE	50		0.5		0.5
63	RAYAGADA	PKED	UPPALADA	UPPALADA	250	DSS	VILLAGE	50		0.2		0.2
64	BHANJANAGAR	BNED	GANGAPUR (BHANJANAGAR)	DHUDHUA	250	DHUDHUA BYPASS	VILLAGE END	95	0.44			0.44
65	BHANJANAGAR	BNED	GANGAPUR (BHANJANAGAR)	BADAKODANDA KUMBHAR SAHI	100	KUMBHAR SAHI S/S	KUMBHAR SAHI VILLAGE	50		0.5		0.5
66	BHANJANAGAR	BNED	KULANGI	KHARIGUDA	25	KHARIGUDA MAJHIDANDA	BARIPATA SAHI	35			0.3	0.3
67	BHANJANAGAR	BNED	KULANGI	SANABORSINGI-I	63	SAUBHGYA DSS	ADUASAHI	50		0.3		0.3
68	BHANJANAGAR	BNED	KULANGI	SANABORSINGI-II	63	HARIJANASAHI	ANGANWADI	50		0.2		0.2
69	BHANJANAGAR	BNED	TOWN	KHADALSAHI 500KVA	500	DSS	LAST VILLAGE	50		0.3		0.3
70	RAYAGADA	GED	COURT	ADRASH NAGAR	2X100	DSS	ADRASH	95	0.44			0.44
71	RAYAGADA	GED	REGADA	CHINARIGUDA	16	DSS	CHINARIGUDA	35			0.37	0.37
72	RAYAGADA	GED	REGADA	BANDHUGUDA	100	DSS	BANDHUGUDA	50		0.66		0.66
73	RAYAGADA	GED	REGADA	GANESH VIHAR	63	DSS	GANESH VIHAR	50		0.66		0.66
74	JEYPORE	NED	VIP	VIP COLONY	250	JAMAL COLONY	TAIL END	50		0.3		0.3
75	JEYPORE	NED	NPUR TOWN NO-I	MTPL ROAD	250	DSS	HANUMAN NAGAR & BACK SIDE OF MATHA	95	0.24			0.24
76	JEYPORE	NED	NPUR TOWN NO-I	PRATAP SAGAR	500	DSS	KEUTA SAHI	50		0.2		0.2
77	JEYPORE	NED	NPUR TOWN NO-I	GORAMUNDA	100	KALYAN MANDAP	COLONY	35			0.37	0.37
78	JEYPORE	NED	NPUR TOWN NO-I	WOMENS COLLAGE	500	DSS	UTKAL COLLEGE BACK SIDE	50		0.2		0.2
79	JEYPORE	NED	VIP	JAMAL COLONY	500	JAIL ROAD	GLAZE HOTEL	50		0.38		0.38
80	JEYPORE	NED	NPUR TOWN NO-II	CHAURIAGUDA	250	DSS	CHAUNRIAGUDA SAHI	50		0.3		0.3

UPGRADATION OF LT ABC CABLE

SL. NO.	NAME OF CIRCLE	NAME OF DIVISION	11KV FEEDER	NAME OF DSS	RATING IN KVA	LT UPGRADATION FROM LOCATION	LT UPGRADATION TO LOCATION	PROPOSED AB CABLE SIZE FOR LT AUGMENTATION / NEW LT	UPGRADATIO N CABLE SIZE 95 SQMM	UPGRADATION CABLE SIZE 50 SQMM	UPGRADATION CABLE SIZE 35 SQMM	TOTAL LENGTH CONSIDER IN CKM
81	JEYPORE	NED	UMEKROTE TOWN	MAIN ROAD- JAIN MILL	315	LTJ2301-126/35	LTJ2301-126/38	95	0.2			0.2
82	JEYPORE	KED	SIMLIGUDA/NAD	SIMLIGUDA BUSSTAND	100	SIMLIGUDA BUSSTAND	SIMLIGUDA BUSSTAND	50		0.2		0.2
83	JEYPORE	KED	NAC RURAL	DUMIRIPUT HATAPADA	250	DUMIRIPUT HATAPADA	DUMIRIPUT HATAPADA	50		0.3		0.3
84	JEYPORE	KED	COBRA	JANIGUDA	63	JANIGUDA	JANIGUDA	50		0.4		0.4
85	JEYPORE	KED	COBRA	GUVA FARAM	63	GUVA FARAM	GUVA FARAM	50			0.37	0.37
86	JEYPORE	KED	KORAPUT NO-3	MEDICAL FRONT DSS	100	MEDICAL FRONT	TOWARDS STADIUM ROAD	95		0.4		0.4
87	JEYPORE	KED	KORAPUT NO-1	RAM GARADGE	315	RAM GARADGE	TRAFFIC SQUARE	95	0.44			0.44
88	BHANJANAGAR	PED	BAZAR	HILL VIEW	500	DSS	NEAR LAXMI MARKET	95	0.08			0.08
89	BHANJANAGAR	PED	BAZAR	SATYA SAI	250	DSS	NEAR SIBANI CHECKEN SHOP	95	0.04			0.04
90	BHANJANAGAR	PED	BAZAR	GIRLS SCHOOL	100	DSS	NEAR ADMO HOUSE	95	0.04			0.04
91	BHANJANAGAR	PED	BAZAR	PEONPADA SIBA TEMPLE	250	DSS	NEAR ARUP JENA HOUSE BACK SITE	95	0.08			0.08
92	BHANJANAGAR	PED	COLLEGE	POLICE BARRACK	200	DSS	NEAR SALUNKI SAHI	95	0.12			0.12
93	BHANJANAGAR	PED	MEDICAL	TEACHERS COLONY	100	DSS	TEACHERS QUARTER	95	0.08			0.08
94	BHANJANAGAR	PED	GUMAGADA	SABERABATA	10	DSS	SABERABATA	35			0.18	0.18
95	BHANJANAGAR	PED	BANDHAGADA	DAANI	16	DSS	DAANI	35			0.2	0.2
96	BHANJANAGAR	PED	HIGHSCHOOL	BYPASS ROAD	63	DSS	RENGTI SAHI	50		0.5		0.5
97	BHANJANAGAR	PED	BATAGUDA	BALMARPADAR	25	BALMARPADA	SAHI END	50		0.32		0.32
98	BHANJANAGAR	PED	RUKANBADI	FOREST	63	FOREST	FOREST	50		0.5		0.5