

TPSODL

TP SOUTHERN ODISHA DISTRIBUTION LIMITED



**Presentation to Hon'ble Chairman, Members and Officials on ARR and
Tariff Petition for FY 2022-23**

**(Case No. 110 & 117 of 2021)
23rd February 2022, Bhubaneswar, Odisha**

- **Background and Performance of FY 2020-21**
- **Initiatives**
- **Previous Year(FY 21) Revenue Gap as per true up petition**
- **Revenue Cash Flow (April 2021 to January 2022)**
- **Annual Revenue Requirement for FY 2022-23**
- **Tariff Proposal and Rationalization Measures**
- **Prayers**

Background TPSODL



- In terms of Section 20 of the Act, Hon'ble Commission initiated a transparent and competitive bidding process where in The Tata Power Company Limited bid was accepted under section 20(1)(a) of the Act. Finally, SOUTHCO utility has been vested with a newly incorporated operating company TP Southern Odisha Distribution Limited (TPSODL) w.e.f. 1st January 2021 (a joint venture of Tata Power and Govt of Odisha with equity participation of 51% and 49% respectively).
- As per direction of Hon'ble Commission in Para 45 of the vesting order of TPSODL Case No - 83/2020 of the following are the AT&C Loss Trajectory for tariff determination.

AT&C Loss Trajectory (%)									
FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31
25.75	25.75	25.75	25.35	25.00	22.57	20.38	18.40	16.61	15.00

Background of presentation

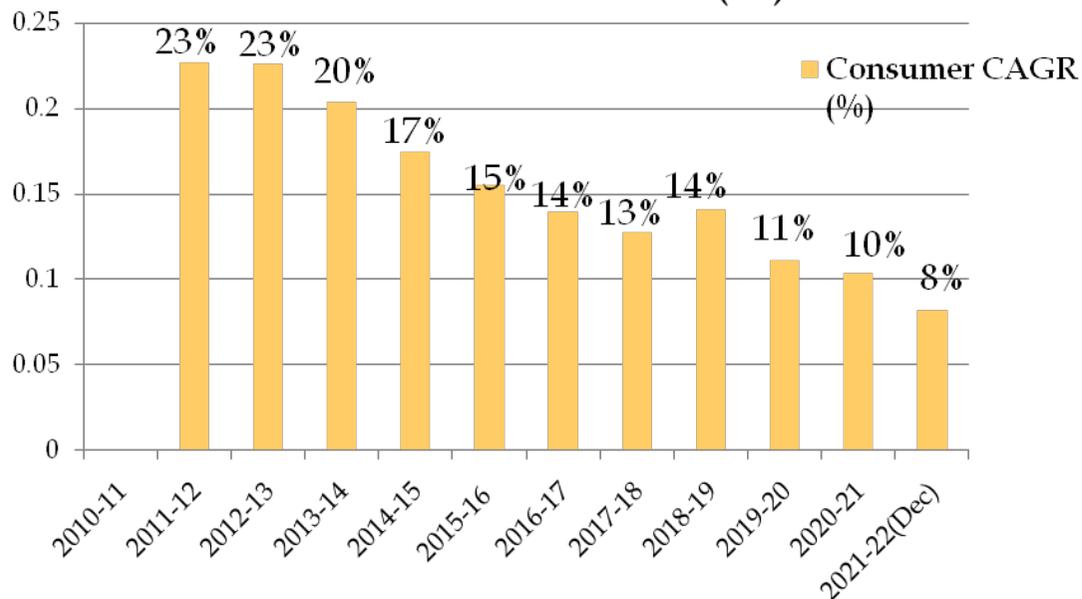


- TPSODL submitted its Aggregate Revenue Requirement (ARR) and Tariff Petition for FY 2022-23 to the Hon'ble Commission on 30th November 2021.
- As per applicable provisions of the Electricity Act 2003 and OERC (Terms and Conditions for determination of Wheeling Tariff and Retail Supply Tariff) Regulations 2014.
- Hon'ble Commission asked queries in its letter No 110 Dt. 13.01.2022 for compliance.
- TPSODL replied on 18.01.2022 and filed before Hon'ble OERC
- Public Notice published in English & Odia daily Newspapers
- 13 Nos. of Objections/Suggestions received from stakeholders/Consumers which were replied

Consumer Profile of TPSODL



Consumer CAGR (%)



As on 31st Dec 21

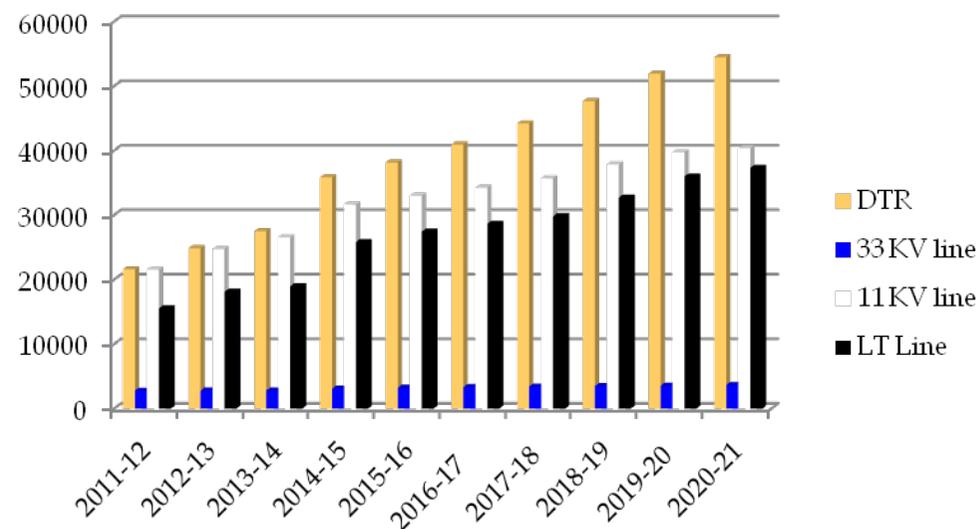
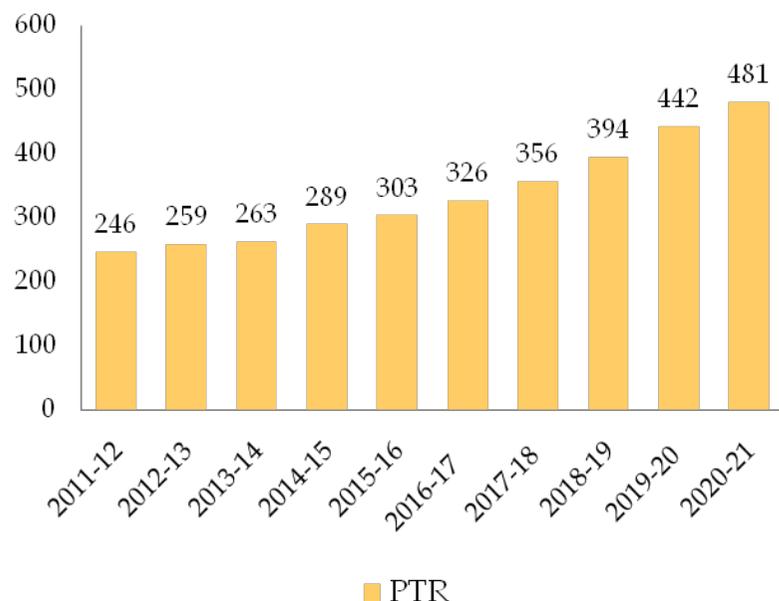
Catrgory	No. of Consumers	%
LT	2373852	99.98%
HT > 110 KVA	534	0.02%
EHT	18	0.001%
Total	2374404	100%

Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22(Dec)
Grand Total	718593	881349	1079966	1254029	1366581	1476315	1570829	1665509	2068579	2279076	2363074	2374404
Consumer CAGR (%)		23%	23%	20%	17%	15%	14%	13%	14%	11%	10%	8%

❖ As on December 2021, total Consumer under LT category stands 23.73 Lakhs

❖ Includes 20.40 lakh of Domestic, 1.82 lakh under Kutir Jyoti and 0.24 lakh consumers under Lift Irrigation scheme

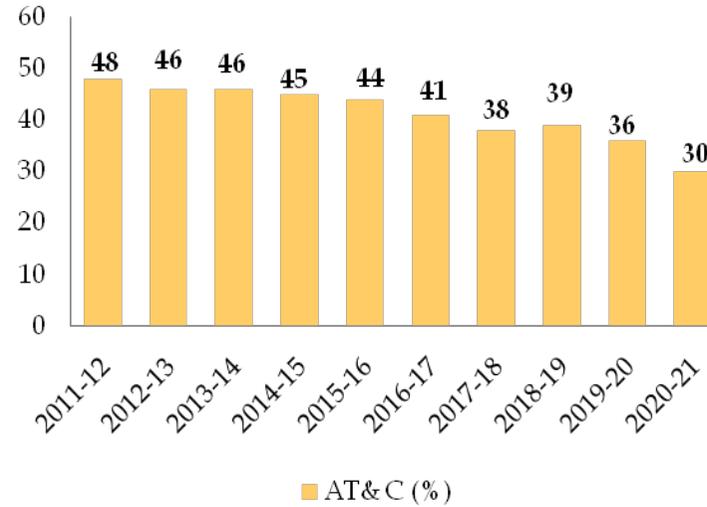
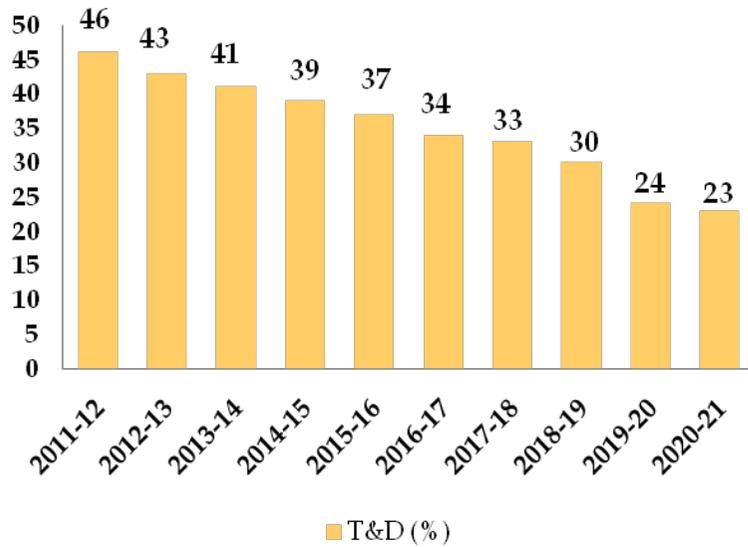
Network of TPSODL



FY Year	Unit	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
PTR	Nos	246	259	263	289	303	326	356	394	442	481
DTR	Nos	21575	24877	27505	35848	38169	40944	44191	47659	51915	54451
33 KV line	CKM	2785	2802	2814	3096	3239	3349	3412	3484	3550	3665
11 KV line	CKM	21524	24725	26549	31631	32993	34231	35695	37843	39713	40368
LT Line	CKM	15533	18126	18966	25814	27435	28661	29812	32711	35971	37302

- ❖ Transformation Capacity of PTR -2197 MVA. Addition: PTR 264 MVA in FY 21
- ❖ Transformation Capacity of DTR -2306 MVA. Addition: DTR 209MVA in FY 21
- ❖ LT Line AB Cable length -27703 CKm

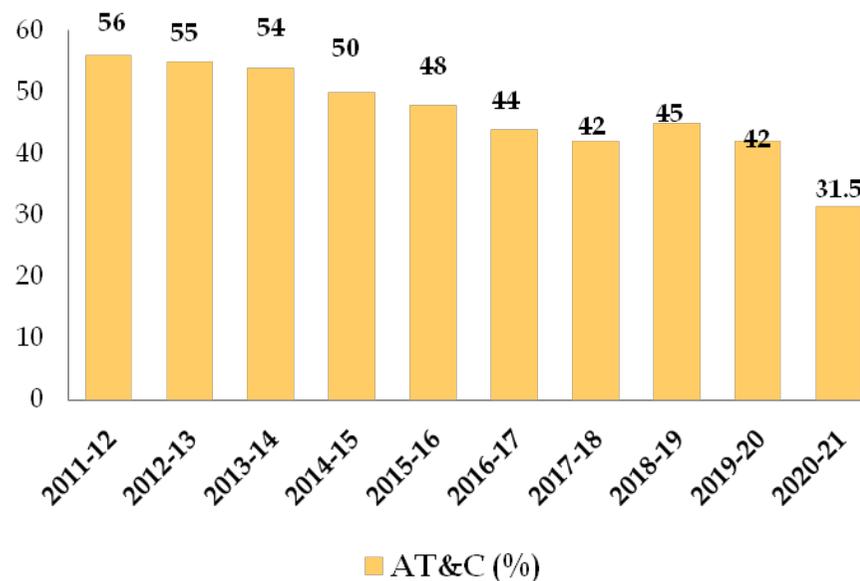
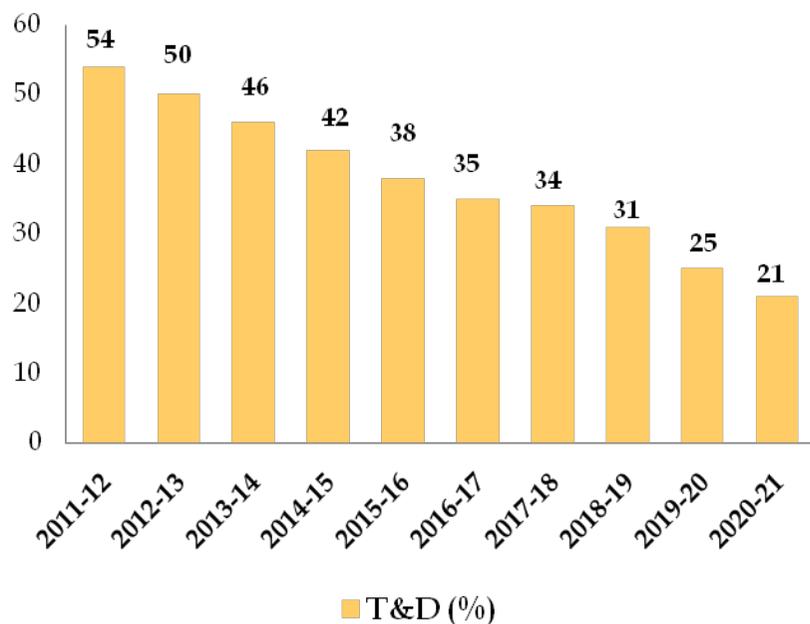
OVER ALL - T&D and AT&C Loss (%)



Year/Loss	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
T&D (%)	46	43	41	39	37	34	33	30	24	23
AT&C (%)	48	46	46	45	44	41	38	39	36	30

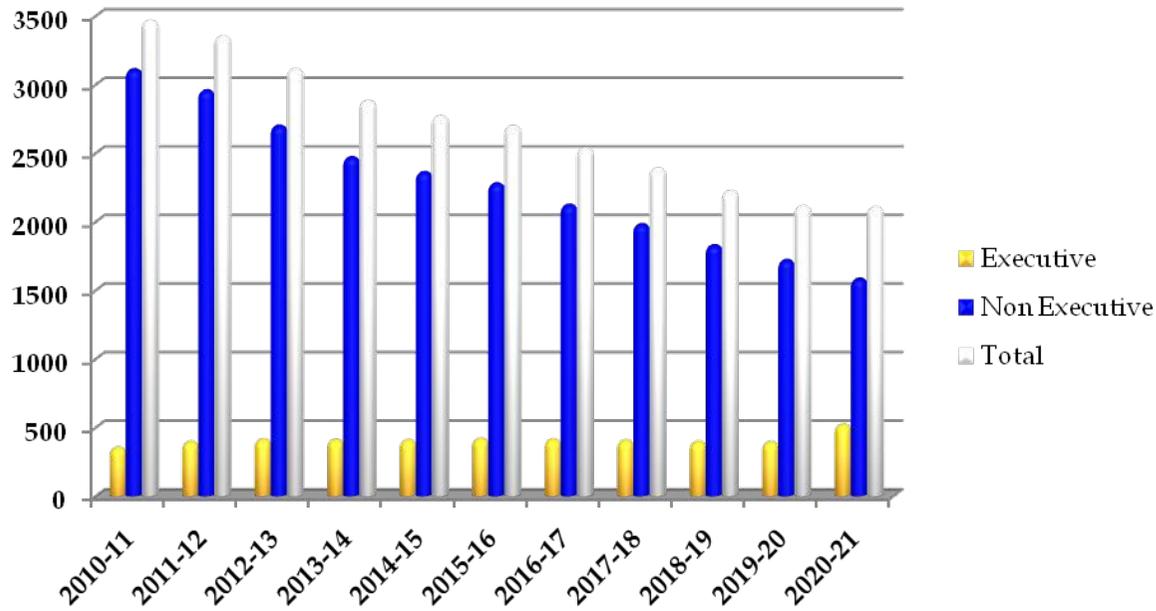
T&D LOSS REDUCED BY 23% AND AT&C LOSS REDUCED BY 18% IN THE LAST DECADE

LT -T& D and AT&C Loss (%)



T& D LOSS REDUCED BY 33% AND AT&C LOSS REDUCED BY 25 % IN THE LAST DECADE

Employee position of TPSODL



Year	EMPLOYEE POSITION										
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Executive	352	393	410	408	405	416	410	403	393	391	519
Non Executive	3109	2955	2698	2469	2359	2277	2122	1980	1826	1718	1582
Total	3461	3348	3108	2877	2764	2693	2532	2383	2219	2109	2101

Initiatives for Operational Excellence



- **Safety of Employees and Public at large**
- **Customer Services Enhancement**
- **Network Reliability Improvement**
- **Technology Initiatives**

OPERATIONS – Safety Achievements in FY22



Attended 1908 vulnerable locations

Safety Training and Awareness including practical demonstration at 6 practice yards (> 100,000 Manhours)

Provision of Personal Protective Equipment and Tools to 100% employees and Business Associates

Public Safety initiatives: Issue of unauthorised construction notices, Awareness through Suraksha Sachetana Rath and Safety Jingles. Messages on Social media platforms and All India Radio

TPSODL conferred with the ‘**State Level Electrical Safety Award 2021**’ organized by the Engineer-In-Chief (Electricity) cum Principal Chief Electrical Inspector, Odisha for ‘Best Electrical Safety Practices’ in FY2020-21

Practice Yard Training



Suraksha Prahari App



Electrical Safety Award



Customer Services Enhancement



1. Women Customer Relation Centre Operationalized at Berhampur City.

2. Bill delivery through SMS and Whatsapp

3. Multiple bill payment avenues (Physical & Digital).

4. Doorstep services through WSHGs/ Agencies for collection through mobile app.

5. Website and Mobile App for consumers regarding consumer services and safety

6. Bill dispute resolution mechanism: Camps in every Sub Division.

7. Proactive communication to customers through SMS and E-mails.

8. Effective energy meter replacement.

9. TOLL free call on a dedicated number for new connection request.

10. Creation of dedicated email id for addressing customer concerns.

11. Introduction of My Tata Power app for various services like Bill payment, Bill history, Self meter reading, Registering concerns etc.

Initiatives for Service Excellence



Call Centre



Customer Relation Centre



Suraksha Sachetana Rath



Safety Jingle announcement done through municipality van & TPSODL O&M vehicle

Initiatives for Service Excellence



Successful Cyclone Management



New Service Connection Camps



Upskilling of WSHGs

Community Relations



Health

Livelihood Promotion & Skilling

Outcome of Consumer Service Excellence- Call Centre



Division	Apr-21	May-21	June-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	G. Total (in no's)
BOUDH	31	29	138	2091	3094	3509	7122	1434	2901	2527	22876
BERHAMPUR-1	520	1428	1630	1888	2477	3396	3519	2903	2073	2132	21966
BHANJANAGAR	64	203	1384	1520	2695	3657	2517	2392	2273	2301	19006
PHULBANI	32	97	181	394	1731	3100	2807	2972	2438	2647	16399
PARLAKHEMUNDI	41	79	145	388	782	6772	641	886	984	1267	11985
BERHAMPUR-2	244	440	1350	1147	1180	1388	2096	1693	882	1081	11501
BERHAMPUR-3	97	223	411	735	894	1266	987	4726	685	655	10679
ASKA 1	124	62	232	376	1804	2402	1526	1323	1034	1154	10037
DIGAPAHANDI	67	61	245	229	5228	713	769	722	813	865	9712
GANJAM NORTH	61	144	245	1447	1103	1346	1044	1080	965	975	8410
P.S.PUR	83	199	255	551	861	848	913	915	1111	965	6701
HINJILIKATU	76	90	271	383	217	571	467	911	794	866	4646
RAYAGADA	78	132	187	577	332	384	283	276	604	734	3587
JEYPORE	75	84	186	270	301	379	359	393	427	746	3220
ASKA 2	278	648	91	161	269	391	266	306	343	333	3086
GUNUPUR	28	16	101	189	220	538	624	509	201	287	2713
KORAPUT	54	102	163	334	248	209	247	341	236	238	2172
NAWARANGPUR	34	55	136	224	154	274	208	189	213	277	1764
MALKANGIRI	15	38	47	72	77	68	182	133	117	108	857
G. Total	2002	4130	7398	12976	23667	31211	26577	24104	19094	20158	1,71,317

Category of Complaints received- Call Centre



TYPE	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Grand Total (in nos.)
Commercial	107	154	356	351	440	549	712	736	645	679	4,729
Technical	550	1251	1564	2903	6161	9297	8262	7687	8225	9076	54,976
Grand Total	657	1405	1920	3254	6601	9846	8974	8423	8870	9755	59,705

- Establishment of Centralized Power System Control Center
- Deployment of additional manpower at Fuse Call Centers to handle “No power complaints”
- Focus on Preventive Maintenance – Focus on structured Maintenance planning and Condition Monitoring
- 24X7 Preventive maintenance teams
- Improvement in condition of network – Refurbishment of feeders, Primary Sub-stations (PSS), Distribution Transformers (DT)
- Focus on Technology adoption

Technology Initiatives



Consumer mobile app named '**My Tata Power**' launched.

Consumer base migrated to Customer Information System (CIS) developed by Fluentgrid (FG)

Suraksha Kavach and Suraksha Prahari App launched

Data Center at Berhampur has been commissioned which will host GIS, AMI, SCADA and bespoke IT applications

10 number of ODSSP PSS have been integrated with Micro SCADA.

GIS survey of network assets like PSS, 33kV, 11kV and LT network within Berhampur city is completed, consumer survey is in progress.

Challenges in Distribution system

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Statutory & safety Non-compliant network
- 

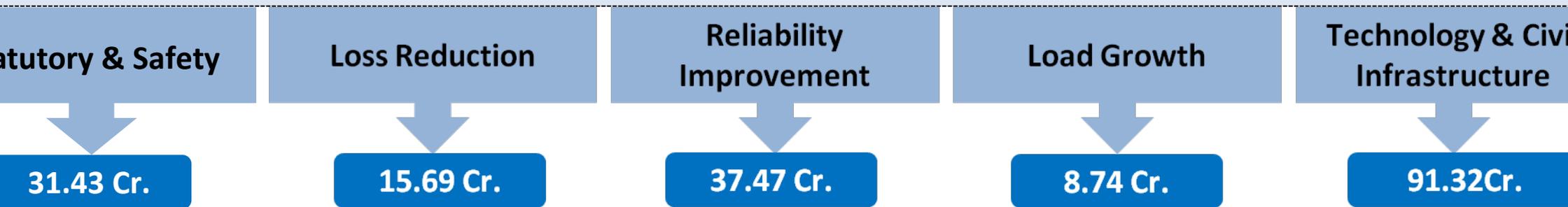
High AT & C loss
- 

Limited Customer Touch Points
- 

Outdated IT infrastructure
- 

Poor Civil Infrastructure

INR 184.65 Cr. of CAPEX Investment approved for FY21-22



CAPEX Plan as per Vesting Order

till 31 st Mar 22	till 31 st Mar 23	till 31 st Mar 24	till 31 st Mar 25	till 31 st Mar 26
227 Cr.	543 Cr.	784 Cr.	1,017 Cr.	1,166 Cr.

TPSODL requests the Hon'ble Commission to consider the uncovered gap for 2020-21 to be Rs 67.57 Crores out of which 0.61 Crores relates to TPSODL per from 1st January 2021 to 31st March 2021

(Rs. in Crores)

Particulars	OERC Approved (A)	True Up SOUTHCO Utility (B)	True Up TPSODL (C)	TOTAL D= B+C
Sales (P)	1372.94	956.86	355.38	1312.24
Other Income (Q)	39.77	40.43	17.17	57.6
Total Expenditure (R)	1396.11	1058.23	362.47	1420.61
OpE (S)	6.03	6.03	10.69	16.73
Net AP (P+Q-R-S)	10.57	-66.97	-0.61	-67.57

True Up petition FY 2020-21(Case No-117/2021)(2/2)



Expenditure	OERC Approved FY 20-21	Southco Utility Period (Apr-20 to Dec-20)	TPSODL period (Jan'21 - Mar'21)	Total FY 20-21
	A	B	C	D=B+C
Cost of Power Purchase	776.39	519.95	182.64	702.59
Transmission Cost	101.25	67.88	22.76	90.64
SLDC Cost	0.62	0.46	0.15	0.61
Total Power Purchase, Transmission & SLDC Cost(A)	878.26	588.29	205.55	793.84
Employee Cost	370.88	254.05	120.6	374.65
Repair & Maintenance	45.96	4.92	1.47	6.39
Administrative and General Expenses	35.49	47.86	15.42	63.28
Provision for Bad & Doubtful Debts	11.01	104.07	3.53	107.6
Depreciation	29.03	10.65	6.91	17.56
Interest Chargeable to Revenue including interest on S.D.	25.48	46.28	8.98	55.26
Total Operation & Maintenance and Other Cost	517.85	467.83	156.91	624.74
Return on Equity	6.03	6.04	10.69	16.73
Total Distribution Cost	523.88	473.87	167.6	641.47
Less: Miscellaneous Receipt	39.77	40.43	17.17	57.6
Net Distribution Cost (B)	484.11	433.44	150.43	583.87
Total Special Appropriation (C)		2.1	0	2.1
Total Revenue Requirement (A+B+C)	1362.37	1023.83	355.98	1379.81
Expected Revenue (Full year considering tariff revision from 01.10.2020)	1372.94	956.86	355.38	1312.24
Revenue GAP(+/-)	10.57	-66.97	-0.61	67.57

Revenue Cash Flow : As on 31st January 2022



Rs. In

STATEMENT OF CASH FLOW (CONTINUED) (VALUE ITEMS) FOR 2021-22 (Cr.
											(Rs. In Crore)
NUMERICALS	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Total
INFLOW:											
Revenue from sale of power	110.14	72.74	104.10	102.74	91.50	117.30	112.08	122.25	136.18	121.38	1090.00
Revenue on BST Bill	2.02	0.00	0.79	0.79	0.76	0.79	0.81	0.77	0.83	0.70	8.00
Other Receipts	1.97	3.11	2.25	4.19	0.77	1.93	1.25	1.13	1.99	1.46	20.00
	114.13	75.85	107.14	107.72	93.03	120.02	114.14	124.15	139.00	123.54	1118.00
OUTFLOW:											
Operating cost											
Depreciation	119.56	0.00	70.46	70.03	67.35	69.74	72.07	67.96	73.10	62.29	672.00
Interest	8.33	0.05	9.40	9.40	9.06	9.34	9.69	9.15	9.83	8.38	82.00
Dividend as per Vesting Order	8.24	8.24	8.24	8.24	8.24	8.24	8.24	8.24	8.24	0.00	74.00
Payment to GRIDCO									56.72	5.85	62.00
Other Employee's cost	22.77	13.29	13.82	14.11	18.54	25.11	24.33	31.11	30.86	32.37	226.00
Capital Payments	23.01	11.59	11.05	12.16	9.46	7.98	12.68	11.02	10.20	9.33	118.00
Expenses	2.41	1.74	2.51	2.97	2.98	2.64	4.97	3.19	5.25	7.99	36.00
Expenses	0.53	0.00	0.83	1.53	0.30	2.02	3.94	6.64	7.30	5.40	28.00
Debt & Finance cost	1.24	0.76	1.46	1.15	1.10	1.63	1.12	1.77	1.39	1.73	13.00
Service Fee	1.90										1.00
	187.99	35.67	117.77	119.59	117.03	126.70	137.04	139.08	202.89	133.34	1317.00
CLOSING BALANCE	-73.86	40.18	-10.63	-11.87	-24.00	-6.68	-22.90	-14.93	-63.89	-9.80	-198.00

Annual Revenue Requirement for FY 2022- 23

T&D and AT&C Losses



Particulars	FY 2020-21		FY 2021-22			FY 2022-23
	Approved	Actual	ARR Projection	Approved	Revised Projection	ARR Projection
T&D Loss	25.00%	23.07%	24.50%	25.00%	25.00%	25.00%
Coll. Efficiency	99%	91%	96%	99%	91%	99%
AT&C Loss	25.75%	30.04%	27.52%	25.75%	31.75%	25.75%
Power Purchase (in MUs)	4050	3599	4100	4030	3906	4170
SMD	680	600	700	700	700	720

Sales / Purchase Forecast (1/2)



Assumptions

➤ Basis for sales projections for different categories

- G Analysed Trends in the previous years Consumption pattern .
- G Actual sales data for first six months of FY 2021-22.
- G Various Socio-economic development Schemes envisaged by the GoO and GOI.

➤ LT Category

- G Considered overall growth of 8% during FY 2022-23.
- G Domestic category shall witness growth of 9%.
- G Growth of 7% in irrigation category due to ongoing schemes of GoO.

➤ HT Category

- G Estimated sales growth of 4.63%.

➤ EHT Category

- G TPSODL projected growth of 3.40% during FY 2022-23 under this category.

➤ Power Purchase

- G Estimated 4170MU and SMD of 720 MVA for FY 2022-23.

Sales / Purchase Forecast (2/2)



	Voltage	2020-21	2021-22	2022-23	% Growth
Approved Sales (MU)	LT	2240	2363		
	HT	333	231		
	EHT	464	481		
	TOTAL	3038	3075		
Actual/Proj. Sales (MU)	LT	2109	2185	2354	7.76%
	HT	222	280	292	4.63%
	EHT	438	465	481	3.40%
	TOTAL	2769	2929	3128	6.77%
Approved	INPUT	4050	4100		
Actual/Proj.		3599	3906	4170	6.76%

Power Purchase and Distribution Cost Expenses(1/2)



Rs. in Crore

	Expenses	2020-21	2021-22	2022-23
Power Purchase (A)	Approved	878.26	964.22	
	Actual/Proj.	788.57	918.62	980.
Employee	Approved	370.88	404.76	
	Actual/Proj.	355.29	422.72	578.
R&M	Approved	45.96	88.57	
	Actual/Proj.	6.20	82.67	137.
A&G	Approved	35.49	72.20	
	Actual/Proj.	38.33	72.72	113.

- ❖ Power Purchase Cost @ 235 paisa per kwh.
- ❖ Employee Cost includes Impact of 7th Pay Commission.
- ❖ Contractual and Outsource obligation of Rs.165.05 Cr and Terminal Liability of Rs.158.42 Cr.
- ❖ R& M expenses : Based on GFA and assets created under Govt. funded schemes.
- ❖ A&G Expenses: MBC contracts, IT Expenses and Insurance .

Power Purchase and Distribution Cost Expenses(2/2)



	Expenses	2020-21	2021-22	2022-23
Prov. For Bad Debt	Approved	11.01	12.21	
	Actual/Proj.	107.60	15.15	16.19
Depreciation	Approved	29.03	21.47	
	Actual/Proj.	17.55	24.93	44.29
Interest	Approved	25.48	11.60	
	Actual/Proj.	51.01	31.99	58.93
Dist. Cost (B)	Approved	517.63	550.54	
	Actual/Proj.	609.39	649.38	955.80
RoE (C)	Approved	6.03	32.00	
	Actual/Proj.	12.52	48.61	64.45
Contingency Reserve/Other expenses (D)	Approved	0.00	0.00	
	Actual/Proj.	406.03	0.00	0.00
Total Expenses (A+B+C+D)	Approved	1402.14	1546.76	
	Actual/Proj.	1783.11	1616.61	2000.91

Provision for Bad debt i.e @ 1% on total Sales for FY 2022-23

EMPLOYEE COST



Rs. in Cr

EMPLOYEES COST	AS PER ARR
Salaries, Wages etc	228.21
Employee cost(Contractual)	165.05
Terminal Benefits	158.42
Arrears Of 7th Pay	28.37
Other Staff cost	27.07
Employee Cost Capitalisation	(28.37)
TOTAL	578.75

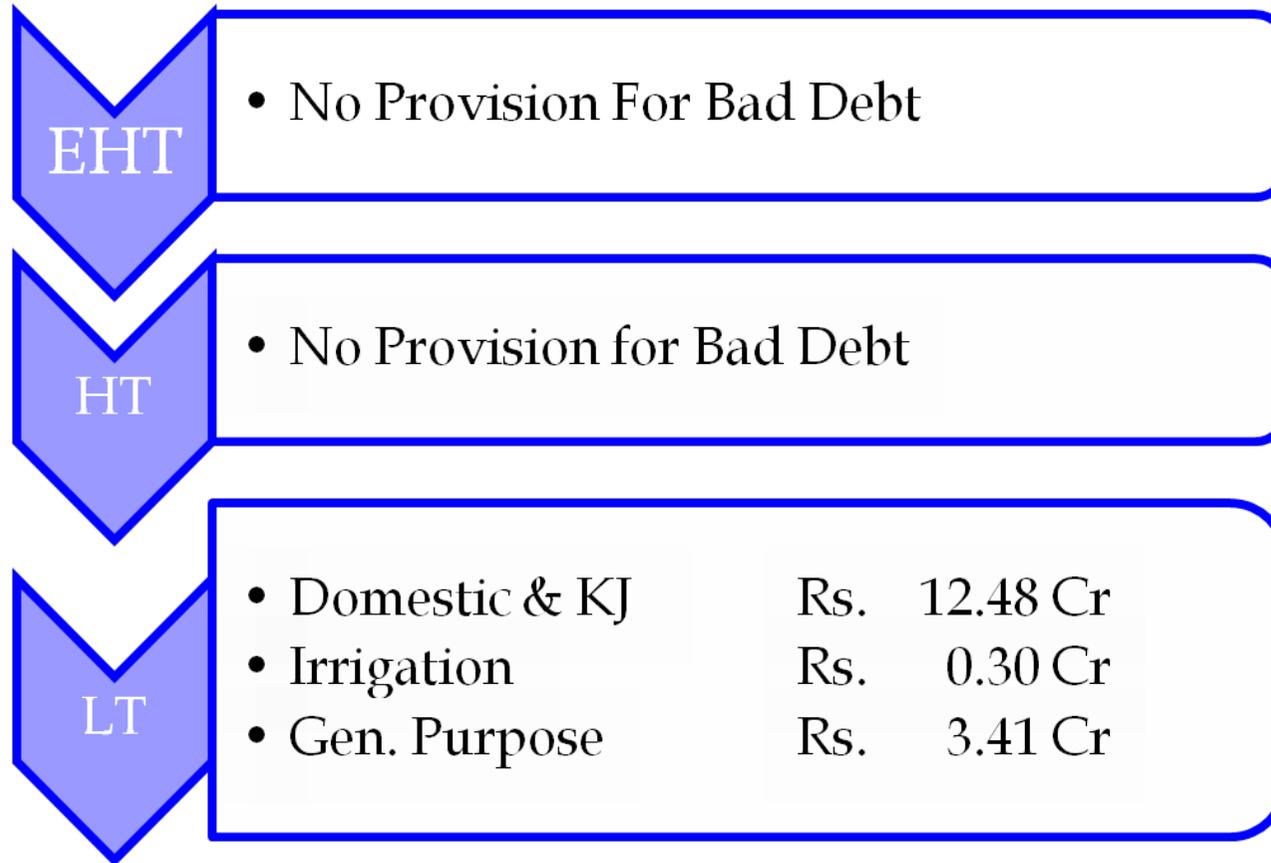
Rs. in Cr

R&M EXPENSES	AS PER ARR
Transformer Maintenance	32.39
Distribution line Repair and Maintenance	74.57
STS Repair and Maintenance	20.95
Civil Repair and Maintenance	10.00
TOTAL	137.91

Rs. in Crore

A & G Cost	AS PER ARR
Property related expenses	6.74
Communication	1.75
Professional Charges	5.51
Conveyance and travelling	18.39
Other expenses	18.31
Additional A & G Expenses	63.12
TOTAL	113.82

- Property Related expenses include insurance of assets
- Conveyance and Traveling includes hired vehicles charges.
- Other expenses includes upkeep of offices across TPSODL
- Additional A&G includes MBC, Energy Audit and IT automation & ERP License fee.

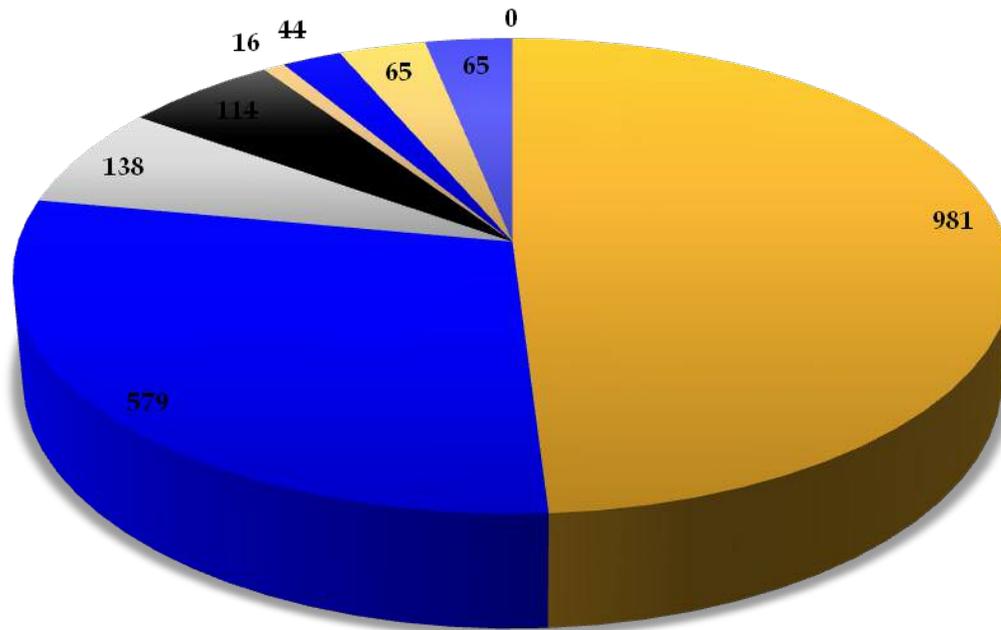


Considered the amount equivalent to the 1% estimated revenue billed at Rs. 16.19 Crore

Annual Revenue Requirement for FY 2022-23



Rs. 2001Cr



Cost Component	%
Power Purchase	49%
Employee Cost	29%
R&M	7%
A&G	6%
Prov. For Bad Debt	1%
Depreciation	2%
Interest	3%
RoE	3.2%
Contingency Resreve	0%

Annual Revenue Requirement & Revenue Gap for FY 2022-23



Particulars	With Railway	Without Railway
Expenditure in FY 2022-23	1936.46	1882.03
RoE for FY 2022-23	64.45	64.45
Sub Total	2000.91	1946.48
Net Revenue to be realised from Sale of Power at Existing Tariff for FY 2022-23	1618.55	1440.69
Other Income	35.16	35.16
Sub Total	1653.71	1475.85
Revenue Gap with Existing Tariff	347.20	470.63

Tariff Proposal & Rationalization Measures

TPSODL requests the Hon'ble Commission to bridge the revenue gap through

- **Reduction in Bulk Supply Tariff**
- **Grant / Subsidy from the Govt. of Odisha**
- **Balance if any through Increase in Retail Supply Tariff**

As per Sec-65 of the Electricity Act,2003, the subsidized category of the consumers should be compensated by way of Subsidy to Discom by the State Govt.

The BPL-Kutir Jyoti and Agriculture category of consumers are the subsidized category and even less than 70% of the average cost of supply

Govt. of Odisha may be asked to provide either subsidy to TPSODL or subsidize the cost in BSP

Rate Rationalization Measures



Inclusion of M/S NALCO & IMFA as consumer of TPSODL.

Change of nomenclature from Meter Rent to Recovery of the Cost of the Meter

Demand charges to HT medium category consumers to be increased at par with Large Industries

Enhance recovery of fixed cost through suitably revising the monthly fixed charges

Levy of fixed charges on connected load instead of actual maximum demand.

Approval of One Time Settlement scheme for all consumer.

Increase charges for line extension to LT single phase connection up to 5KW.

Industries having CGP, leading PF benefit may be abolished.

Prayers

Take the ARR application and Tariff Petition on record.

Approve the Aggregate Revenue Requirement for FY 2022-23.

Bridge the Revenue Gap for the FY 2022-23 through reduction in Bulk Supply Tariff (BST), grant of subsidy from the Government of Odisha as per Section 65 of the Electricity Act 2003 and balance, if any increase in Retail Supply Tariff.

Other Tariff rationalization measures as proposed in this application.

Inclusion of M/S NALCO & IMFA as consumer of TPSODL and issue of suitable direction in tariff order.

Change of nomenclature from Meter Rent to Recovery of the Cost of the Meter.

Increase in demand charges of HT industrial category of consumers.

Enhance recovery of fixed cost through suitably revising the monthly fixed charges.

Approval of One Time Settlement scheme for all consumer.

levy of fixed charges on connected load instead of actual maximum demand.

Increase in LT extension charges of LT single phase consumers.

Other tariff rationalisation measures proposed in the application.

Looking at the geographical area and the consumer mix, BSP may be further rationalized.

TPSODL

TP SOUTHERN ODISHA DISTRIBUTION LIMITED



Application for Approval of Open Access Charges For FY 2022-23

(Case No. 114 of 2021)

ALLOCATION OF COST OF WHEELING & RETAIL SUPPLY



Statement of allocation of Wheeling & Retail Supply Cost

(Rs. In Crore)

Cost/Income Components	ARR for FY 2022-23	Assumption Ratio for consideration of Wheeling Business	Assumption Ratio for consideration of Retail Supply Business	Wheeling Cost for FY 22-23	Retail Supply Cost for FY 22-23
Power Purchase Cost					
BSP	863.19	0%	100%	59.03	863.19
Transmission Charges	116.76	0%	100%	7.38	116.76
SLDC Charges	0.71	0%	100%	0	0.71
Total Power Purchase cost	980.66			66.41	980.66
O & M Expenses					
Employee Cost	578.76	60%	40%	347.25	578.76
A&G Expenses	113.82	40%	60%	45.53	113.82
R & M Expenses	137.91	90%	10%	124.12	137.91
Bad & Doubtful Debt including Rebate	16.19	0%	100%	0	16.19
Depreciation	44.29	90%	10%	39.86	44.29
Capital Cost					
Interest on Working Capital	27.28	10%	90%	2.73	27.28
Interest on Capital Loan	24.47	90%	10%	22.02	24.47
Interest on Security Deposit	13.06	0%	100%	0	13.06
ROE	64.45	90%	10%	58.01	64.45
Special Appropriation					
Appropriation of Regulatory Assets	0	25%	75%	0	0
True up of Current Year GAP 1/3rd	0.00	25%	75%	0	0.00
Contingency Reserve	0.00	90%	10%	0	0.00
Grand Total	2000.88			705.93	2000.88
Miscellaneous Receipt					
Non-Tariff Wheeling Income		As per actual assumption	As per actual assumption		
Non-Tariff Retail Income	35.16	As per actual assumption	As per actual assumption		

CALCULATION OF WHEELING CHARGES FOR FY 2022-23



SI No	Particulars	Cost as proposed in the ARR for 2022-23 (Rs Cr)			Remarks
1	Operation & Maintenance Exp	517			(1.1+1.2+1.3)
1.1	Employee Expenses	347			
1.2	Administration & General Exp	46			
1.3	Repair & Maintenance Exp	124			
2	Depreciation	40			
3	Interest on Long Term loan Capital	22			
4	Interest on Working Capital	3			
5	Interest on Security Deposit	-			
6	Interest on Power Bond	-			
7	Provision for Bad debts	-			
8	Contingency Reserve	-			
9	Carrying cost	-			
10	Return on Equity	58			
11	Distribution Cost for Wheeling	640			
12	Wheeling charges (paise/ unit)	173			
	Particulars	EHT	HT	LT	Total
	Input (MU)-Proposed for 22-23	481	588	3102	4170
	Total Sale (MU)-proposed for 22-23	481	292	2354	3128
	Loss (MU)	0	295	747	1042
	Input received in the system(MU)	4170	3689	3102	

CALCULATION OF SURCHARGE AND WHEELING CHARGES



Calculation of Surcharge for EHT category of Consumers

Total EHT Sales proposed for FY 2022-23 in MU	Proposed Revenue from sale of power for EHT Category Rs in Crore	Average Tariff (P/KWH) (T)	Cost of power Purchase (P/KWH) (C)	Wheeling Charge (P/KWH)(D)	System Loss (%) (L)	Surcharge (P/KWH) [T – { C /(1-L/100)+D+R}]
480.79	319.93	665.43	235.01	0	0	430

Calculation of Surcharge for HT category of Consumers

Total HT Sales proposed for FY 2022-23 in MU	Proposed Revenue from sale of Power for HT Category Rs in Crore	Average Tariff (P/KWH) (T)	Cost of power Purchase (P/KWH) (C)	Wheeling Charge (P/KWH)(D)	System Loss (%) (L)	Surcharge (P/KWH) [T – { C /(1-L/100)+D+R}]
292.45	222.74	719.64	235.01	173	8	291

N.B.: **R** is the per unit cost of carrying regulatory assets.

- Consider the proposal of TPSODL in this application for determination of Wheeling Charges and cross subsidy surcharges on record.
- Approve the Wheeling charges and Cross Subsidy Surcharges as prayed for FY 2022-23.
- Fixation of Additional Surcharge in addition to CSS and Wheeling towards recovery of standard FC, Recovery of Regulatory Assets.
- Approval of CSS for Peak and Off peak hour.
- Fixation of limitation for drawl of open access charges beyond CD.
- Submission of annual plan by open access consumers with the licensee or before state commission as the case may be.
- Levy of Cross Subsidy Surcharge and wheeling charges to the consumer availing renewable power.

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Thank You