

Presentation

on

Aggregate Revenue Requirement & Transmission Tariff Application for FY 2024-25

Truing up Application for the FY 2022-23

Case No: 113/2023

of

Odisha Power Transmission Corporation Limited

Venue: OERC HEARING HALL

Date: 01-02-2024, 11.00 A.M.

OPTCL Lifeline of Odisha

Profile of OPTCL

1. General

- OPTCL is a Deemed Transmission Licensee under Section 14 of the Electricity Act, 2003.
- Started Operation from 01.04.2005.
- Notified by the State Govt. to act as STU.
- Authorised Share Capital- Rs. 3500 Cr.
- Paid-up Capital Rs. 2266.18 Cr. as on 31.01.2024.



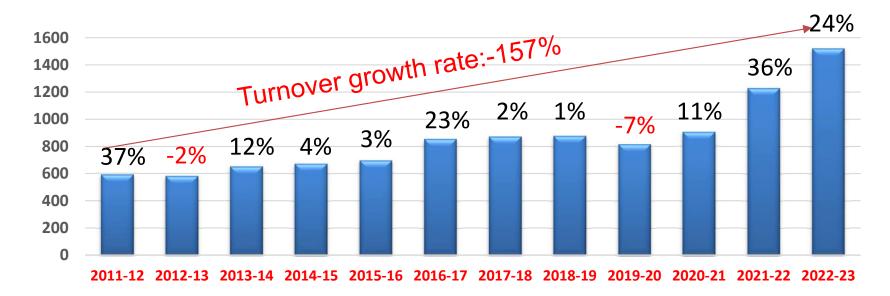
Profile of OPTCL

2. Financial Status

(Rs. Cr.)

Year	Turn Over	Profit/ (Loss)
2011-12	591.98	27.64
2012-13	578.99	20.78
2013-14	649.78	26.68
2014-15	673.48	31.16
2015-16	694.97	30.04
2016-17	854.44	17.97

Year	Turn Over	Profit/ (Loss)
2017-18	870.91	19.80
2018-19	878.11	37.71
2019-20	815.05	(-)144.37
2020-21	904.49	61.67
2021-22	1229.75	61.97
2022-23	1520.50	55.37





Overview of OPTCL

3. Human Resources (As on 31.01.2024):

Manpower Position				
Category Sanctioned Strength MIP %				
Executive 1981		1350	68%	
Non-Executive	3854	1454	38%	
Total	5835	2804	48%	

^{*} Out of 5835 sanctioned post 2426 are for direct recruitment and balance 3409 are for promotional vacancy

Contract/ Outsourced Personnel				
Category	Contract Personnel	Outsourced Personnel		
Executive	09	23		
Non-Executive	03	89		
Security Personnel	00	2130		
Total	12	2243		



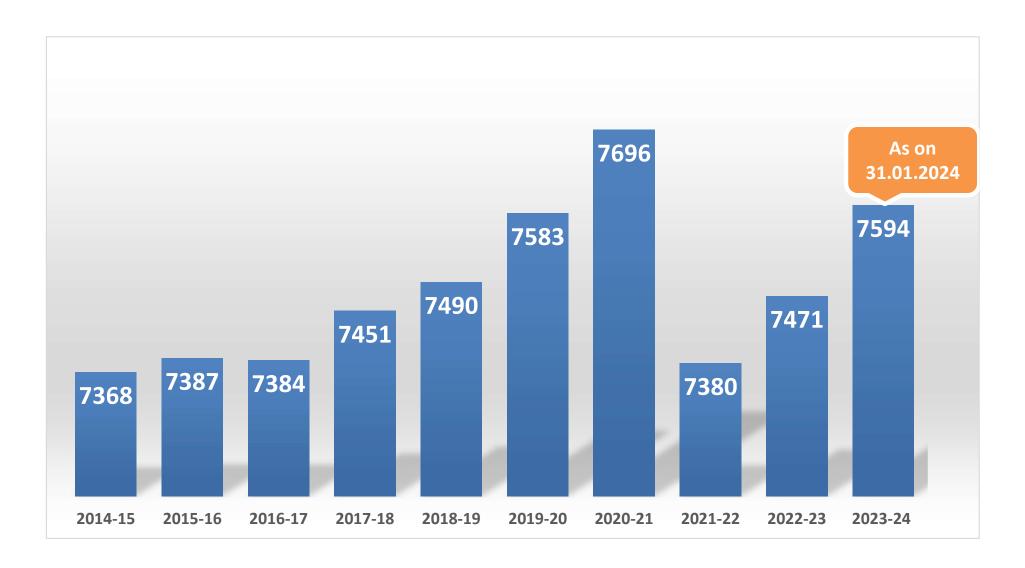
Overview of OPTCL

3. Human Resources (As on 31.01.2024):

	Re		Retiremer	nt Status	
Category	2023-24 (Complete	d / In - process)	2024-25 (Planned)	2023-24	2024-25
Executive	Completed:-118 Jr. MT (Electrical): 55 MT (Electrical): 30 Asst. Medical Officer: 01 Chief Security Officer:01 MT (Finance): 06 MT (HRD): 10 MT (LAW): 02 Jr. MT (Finance): 13	In Process:-30 MT (Telecom): 10 Jr. MT (Telecom): 20	Planned:-105 MT (Electrical):30 MT (Civil): 04 Jr. MT (Electrical) (18 Backlog): 68 Jr. MT (Civil): 03	Exe: 48 Non-Exe: 98	Exe: 48 Non-Exe: 68
Non- Executive	Completed:-218 OA Gr. III Trainee: 52 Stenographer Gr. III Trainee: 01 JMOT (ITI - Electrical) : 165		Planned:-362 OA Gr. III Trainee (06 Backlog): 56 JMOT (ITI - Electrical) (68 Backlog): 268 JMOT (ITI - Telecom): 30 Revenue Inspector: 04 Amin: 04		
Total	366 (Completed – 336 ·	+ In-process - 30)	467	146	116



Status of the Pensioners



No of Pensioners to be added by 31.03.2024 :- 23



Overview of OPTCL

4. Network Capacity:

	As on	31-03-2013 <i>(Ad</i>	ctual)	As on 31-03-2023 (Actual)		
Voltage Level	No. of GRID S/s	Installed Capacity (MVA)	Lines (Ckt. Km)	No. of GRID S/s	Installed Capacity (MVA)	Lines (Ckt. Km)
400kV	2	1575	518.234	5	3835	1196.872
220kV	20	4630	5585.988	45	11666	6675.772
132kV	79	5349	5281.856	138	9843.5	8156.737
TOTAL	101	11554	11386.078	188	25344.50	16029.381

Voltage	As on 31-01-2024 (Actual)		Details of newly added S/S & associated line in FY 2023-24 (upto Jan' 24 i.e. 31-01-2024)		MVA	Ckt. Kms		
Level	No. of	Installed Capacity (Ckt. Km)	Lines	400KV				
	CDID S/c		(Ckt. Km)	pacity (Classical)	220KV	2Nos	Kantabada, Dhamara	526
400kV	5	3835	1196.872	132KV	011	Boriguma, Lakhanpur,		
220kV	47	12272	6746.302		3Nos	Bhatli	140	268.348
132kV	141	10121	8425.085	Charged	Charged 2 nd Trf/Augmented/Replaced etc.			
TOTAL	193	26228	16368.259	Total addition of MVA & Ckt.Kms in FY 2023-24 (up to Jan'2024)			883.5	338.878

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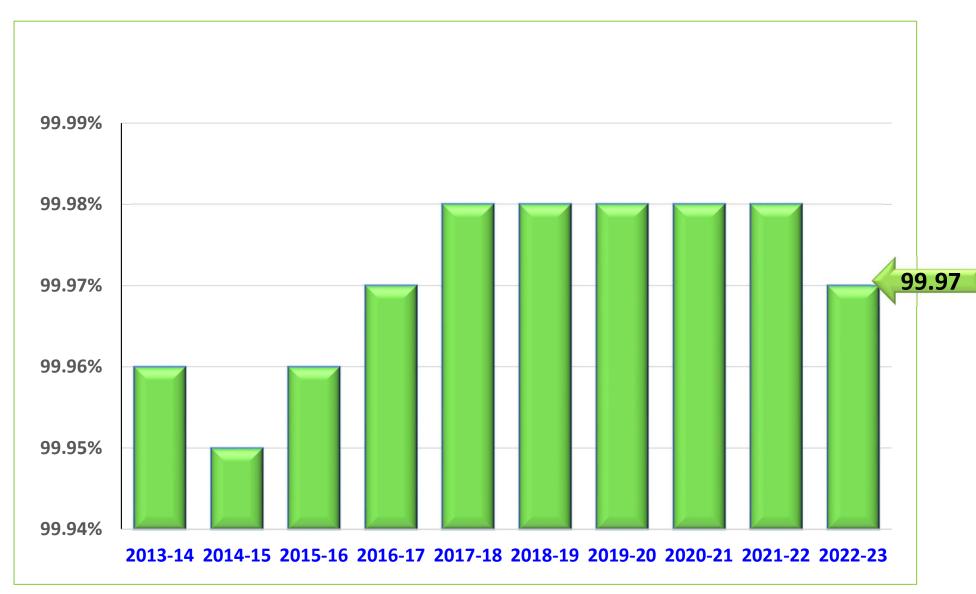
Overview of OPTCL

Voltogo	As on 31-03-2024 (Projected)		As on 31-03-2025 (Projected)			
Voltage Level	No. of GRID S/s	Installed Capacity (MVA)	Lines (Ckt. Km)	No. of GRID S/s	Installed Capacity (MVA)	Lines
		,	(OKt. Kill)		,	(Ckt. Km)
400kV	5	3835	1196.872	5	3835	1660.872
220kV	49	12672	6842.002	54	13392	7646.002
132kV	145	10367	8900.085	151	10839	9833.085
TOTAL	199	26874	16938.96	210	28066	19139.96

OPTCL Ufeline of Odisha

Overview of OPTCL

5. System Availability (%)



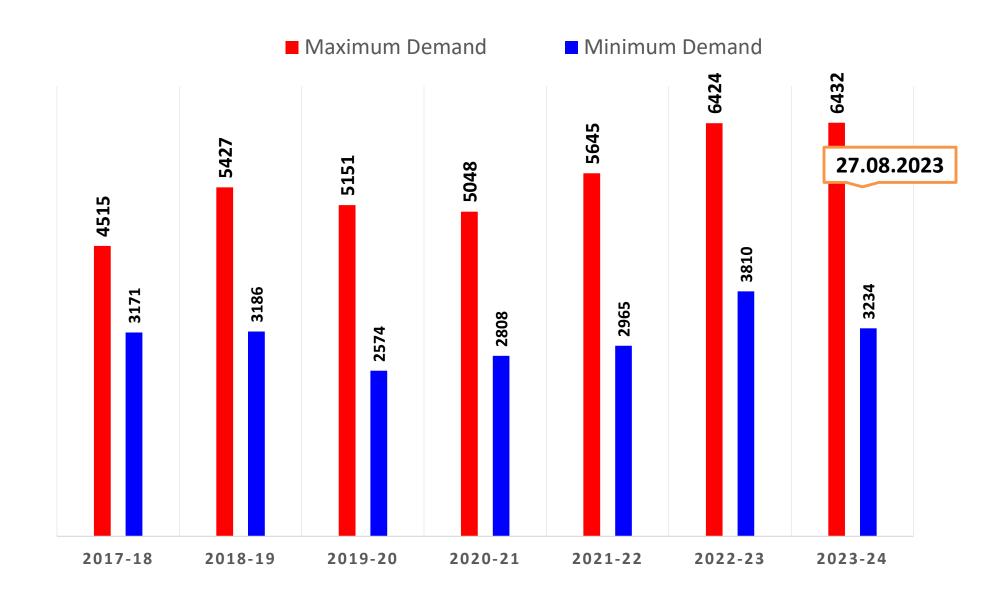
Projection for FY 2023-24 : **99.98%**

Normative Annual Transmission System Availability Factor (NATAF): 98.50%



Overview of OPTCL

6. Maximum Demand (MW)

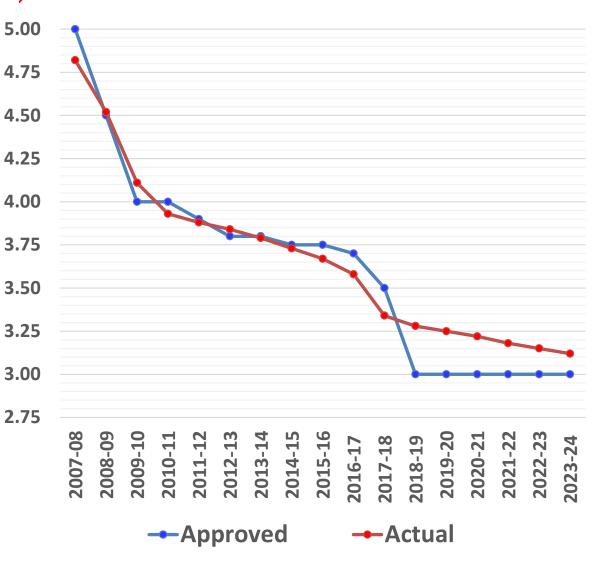




Overview of OPTCL

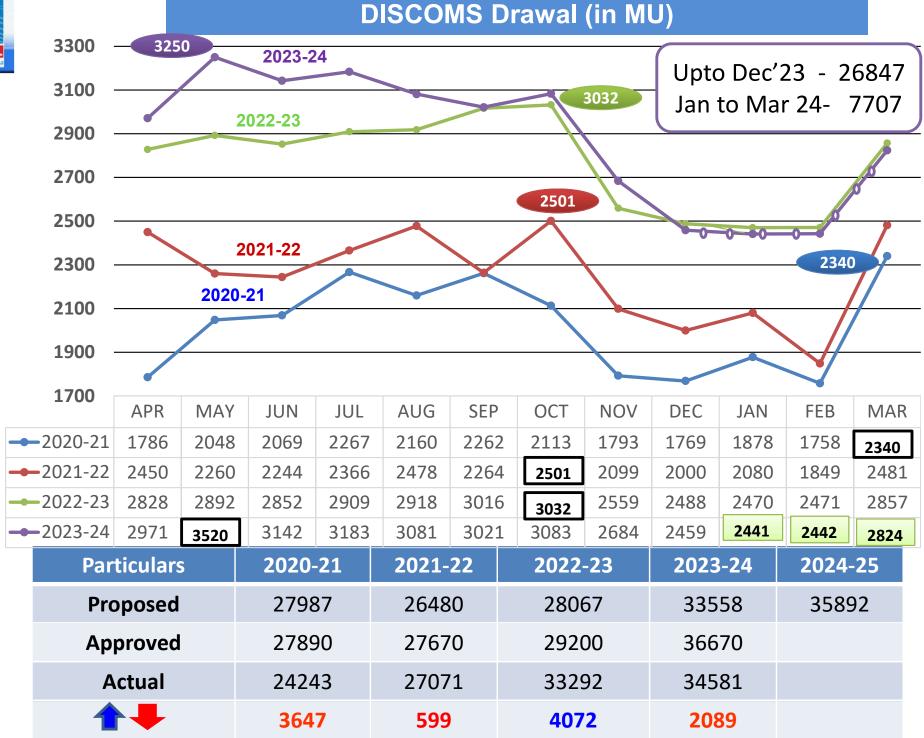
8. Transmission Loss (%)

Year	Approved	Actual
2007-08	5.00	4.82
2008-09	4.50	4.52
2009-10	4.00	4.11
2010-11	4.00	3.93
2011-12	3.90	3.88
2012-13	3.80	3.84
2013-14	3.80	3.79
2014-15	3.75	3.73
2015-16	3.75	3.67
2016-17	3.70	3.58
2017-18	3.50	3.34
2018-19	3.00	3.28
2019-20	3.00	3.25
2020-21	3.00	3.22
2021-22	3.00	3.18
2022-23	3.00	3.15
2023-24 (Upto SEP'23)	3.00	3.12



Projected :- 3.05% for FY 2024-25

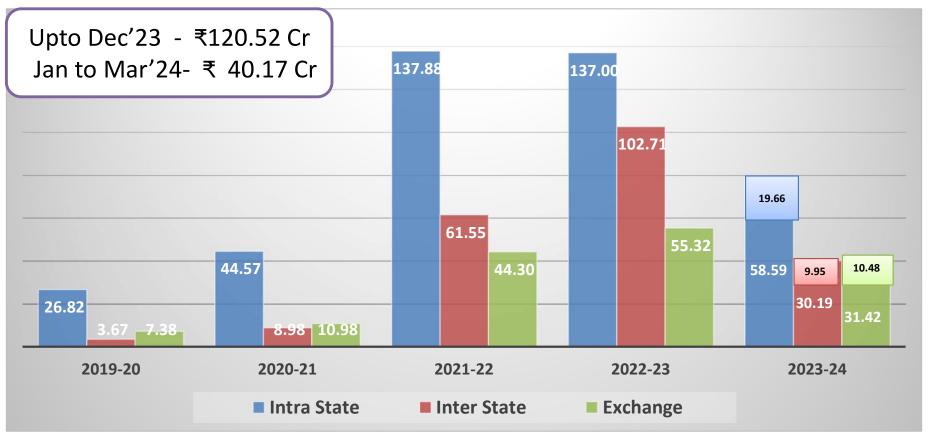




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120.52 (Dec-23)



Particulars	2020-21	2021-22	2022-23	2023-24	2024-25
Proposed	50.00	20.91	212.64	337.00	165.00
Approved	114.44	169.92	212.64	271.00	
Actual	64.54	243.73	295.03	160.69	
1	49.9	73.81	82.39	110.31	



ONGOING PROJECTS

Project	(Nos.)	Cost (Rs. Cr.)
400 KV S/S	1	686.82
220 KV S/S	6	606.47
132 KV S/S	10	515.40
EHT Lines & Others	13	386.91
Telecom & SCADA	1	58.21
IT	8	44.206
Civil	6	211.22
Deposit Works	09	153.43
Transformer & Others	-	32.93
Total	41	2695.596



Amount of Assets added in last 5 years

YEAR	₹. in Cr
2018-19	661.09
2019-20	559.33
2020-21	690.96
2021-22	1051.00
2022-23	751.03
Total (a)	3713.41
2023-24 (Projected)	975.33
2024-25 (Projected)	871.93
Total (b)	1847.26
Total Addition in seven years	5560.67



Projected ARR of OPTCL (Rs. 1,380.69 Cr.)

(Rs. in Cr.)

(R\$. If				Rs. in Cr.)
ITEMS	Proposal	Approval	Proposal	% of
I I EIVIS	(2023-24)	(2023-24)	(2024-25)	Increase
A) FIXED COST				
1. O&M Expenses	720.52	624.71	802.84	11.43%
(i)Employee Cost including Terminal Benefits	508.76	449.08	582.06	14.41%
(ii) A&G Cost	47.07	40.28	51.13	8.63%
(iii) R&M Cost	164.34	135.00	169.30	3.02%
(vi) Other misc. expenses, statutory levies and taxes (GCC)	0.35	0.35	0.35	0.00%
2. Interest & Financial Charges	193.62	129.75	176.56	-8.81%
(i) Interest on Loan Capital	137.59	111.83	148.95	8.26%
(ii) Rebate	22.04	17.92	27.61	25.27%
(iii) Interest on Working Capital	33.99			
3. Depreciation & amortisation expenses	293.96	269.54	320.03	8.87%
4. Return on Equity	221.24	140.42	273.09	23.44%
5. Income Tax	27.21	27.21	36.69	34.84%
Sub-Total (A)	1456.55	1191.63	1609.21	10.48%
B) Others				
Incentive for system availability	11.91	5.00	12.42	4.28%
Total Trans. Cost (A+B)	1468.46	1196.63	1621.63	10.43%
C) Less Misc. Receipts	366.45	300.45	240.94	-34.25%
D) ARR to be recovered from LTOA Customers i.e. OPTCL's Aggregate Revenue Requirement	1102.00	896.18	1380.69	25.29%



A.1 - Employee Cost (FY 2024-25)- Rs. 582.06 Cr.

Basic and Allowances :- Rs. 295.83 Cr.

Stipend of new Recruitments :- Rs. 14.06 Cr.

Wage Board Revision(Arrear) :- Rs. 6.65 Cr.

Other Employee Cost :- Rs. 16.98 Cr.

Health Insurance :- Rs. 8.40 Cr.

Out Sources Engagement & Apprentice :- Rs. 12.41 Cr.

> Terminal Benefits :- Rs. 244.12 Cr.

Less: Capitalisation :- Rs. 16.40 Cr.

TOTAL :- Rs. 582.06 Cr.

Stipend of new Recruitments:-

SL No	Particular	Nos.	Rs. In Crore
Α	Already recruited in FY 2023-24	303	4.03
В	To be recruited in FY 2023-24	68	3.08
С	To be recruited in FY 2024-25	467	6.95
	TOTAL		14.06



A.1 - Employee Cost (FY 2024-25)- Rs. 582.06 Cr.

(Rs. In Cr.)

SI. No	Particulars	Proposed for 2023-24	Approved for 2023-24	Proposed for 2024-25
Α	Salary & Allowance			
1	Basic Pay	162.20	162.92	160.65
2	Dearness Allowance	51.65	75.32	88.36
3	House Rent Allowance	27.38	27.30	25.32
4	Medical Allowances	7.42	9.18	8.24
5	Conveyance Expenses (allowance + Reimbursement)	2.72	3.20	11.64
6	Other Allowance	1.09	1.32	1.59
7	Bonus	0.02	0.02	0.02
8	Stipend for New Recruitment	6.38	6.00	14.06
9	Stipend to Apprentice	3.95	5.48	6.39
10	Arrear Salary for Wage Board Revision	26.01		6.65
	Sub-total (A)	288.83	290.74	322.93
В	Additional Employee Cost			
1	Out Sources Engagement	2.56	3.24	6.03
	Sub-total (B)	2.56	3.24	6.03
С	Other Employee Cost			
1	Leave Travel Concession	0.21	0.72	0.72
2	Honorarium	0.13	0.20	0.20
3	Ex-gratia Ex-gratia	5.57	7.98	9.06
4	Staff Welfare Expenses	0.29	8.54	12.81
5	Other Employee Cost	0.00	0.19	0.19
6	Capacity Building Charges	0.95	1.02	2.40
	Sub-total (C)	7.15	18.65	25.38
D	Terminal Benefits			
1	Pension	257.48	———	196.98
2	Gratuity	12.63	12.57	12.95
3	Leave Salary	15.24	8.48	8.73
4	Other (including contribution to NPS)	17.59	22.56	25.46
	Sub-total (D)	302.95	234.85	244.12
E	Total Employees Cost (A+B+C+D)	601.48		598.46
F	Less: Employees Cost Capitalised	16.40	16.40	16.40
G	Net Employee Cost (E- F)	585.08	531.08	582.06



A.2 - A & G Expenses - Rs. 51.13 Cr.

PARTICULARS	(Rs. Cr.)
Property Related Expenses	7.86
Communication	0.73
Professional Charges	14.02
Conveyance & Travelling	11.82
Electricity & Water Charges	3.97
Fees & Subscription	0.11
Books & Periodicals	0.10
Printing & Stationery	0.59
Advertisement	1.00
Entertainment	0.23
Watch & Ward	3.97
Miscellaneous	3.53
Office Maintenance	2.20
Material Related Expenses	0.01
SLDC Charges	0.99
Total	51.13

As per the Regulations the A& G cost should be increased by WPI on the base year, provided the number of establishments have remained the same.

Number of establishments/ offices of OPTCL has increased over a period of time with the increase in asset by addition of grid sub-stations, ckt kilometers of lines and MVA capacity.

Professional Charges includes **Rs.10.41Cr.** towards **Inspection Fees**. Govt. of Odisha vide Notification dated 27th October 2022 has increased the inspection fees almost 2.5 times

In view of the above, OPTCL has estimated Rs. 51.13 Cr.



ESTABLISHMENT

Particulars	Unit	As on 31-03-2013	As on 31-01-2024
Subdivisions	Nos.	190	322
Divisions	Nos.	38	64
Circles	Nos.	11	16
Zones	Nos.	0	4
EDs	Nos.	_	4
CGMs	Nos.	5	9
Director's Offices	Nos.	4	4
GRID	Nos.	101	193



A.3- Repair & Maintenance (R&M) Expenses - Rs. 169.30 Cr.

R&M Expenses include day-to-day Routine Repairs, Replacement of Worn-Out Equipment, Consumables, Maint. Surveillance, Testing & Testing Equipment, Watch & Ward, Software Licences, Data Communication & Licence Fees, Civil Repairs, House Keeping Expenses etc.

Particulars	OERC Approval (FY 2022-23) (Rs. Cr.)	OERC Approval (FY 2023-24) (Rs. Cr.)	Projection (FY 2024-25) (Rs. Cr.)
(i) O&M			144.25
(ii) Telecom		135.00	3.30
(iii) Civil Works	110.50		15.65
(iv) Information Technology & others		133.00	6.10
Total R & M Expenses			169.30

Up to Dec-23, OPTCL has spent **Rs.77.37 Cr.** toward R&M Expenses and anticipated Expenditure is **Rs. 135.00 Cr.** up to March-24



A.2(i)- Interest on Loan-Rs.148.95 Cr.

		Proje	ction for Interest	on loan for l	FY 2024-25	(Rs. Cr.)	
SI. No.	Particular	Rate of Interest	Principal as on 01.04.24	Loan to be received (FY 24-25)	Loan to be redeemed (FY 24-25)	Interest payment (FY 24-25)	Total Payment (FY 24-25)
1	JICA	5.00%	484.57	0.00	42.25	23.17	65.42
2	REC Loan	9.50%	86.29	0.00	14.38	7.26	21.64
3	Union Bank of India-I	8.40%	385.50	0.00	46.67	30.42	77.09
4	Union Bank of India-II	8.65%	607.12	0.00	42.16	50.69	37.41
5	UCO Bank	8.00%	467.63	0.00	0.00	37.41	92.85
6	New Loan	8.00%	501.17	699.27	0.00	96.04	96.04
	Total (16)		2532.28	699.27	145.46	244.99	390.45
7	Less: Capitalisation					96.04	96.04
8		Grand Total	2532.28	699.27	145.46	148.95	294.41



A.2.(ii) Rebate- Rs. 27.61 Cr.

OERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2014.

Regulation 8.49:-

A rebate of 2% shall be allowed to the transmission licensee in case the payment is made within 2 working days.

Regulation 8.50:-

A rebate of 1% shall be allowed to the transmission licensee in case the payment is made after 2 working days and within a period of 30 days.

OERC (Open Access) Regulations, 2020

No rebate clause in the above regulations

B(ii)- Rebate - Rs.27.61 Cr.



A.3. - Depreciation- Rs. 320.03 Cr.

SL NO.	Transmission Assets	Rate of Depreciatio n	Book value of own Assets as on 31-03- 2024	Book Value of FA Added in FY 2024-25 (Own Assets)	Book value of own Assets as on 31-03- 2025	Depreciation for the Year 2024-25
1	Free Hold Land	0	54.53	6.45	60.98	-
2	Lease Hold Land	3.34%	57.91	6.85	64.77	2.05
3	Buildings	3.34%	175.48	20.76	196.24	6.21
4	Electrical Installation	5.28%	8.88	1.05	9.93	0.50
5	Plant and Machinery: (Other Civil Work)	3.34%	115.40	13.65	129.05	4.08
6	Plant and Machinery	5.28%	3,883.49	459.53	4,343.02	217.18
7	Plant and Machinery: (Lines, Cables & Network)	5.28%	1,469.82	173.92	1,643.74	82.20
8	Vehicles	9.50%	1.03	0.12	1.16	0.10
9	Furniture, Fixture	6.33%	8.41	1.00	9.41	0.56
10	Office Equipment	6.33%	91.16	10.79	101.95	6.11
11	Intangilbe Assets	15.00%	6.89		6.89	1.03
	Total Own Assets		5,873.00	694.13	6,567.13	320.03



A.4- Return on Equity- Rs. 273.09 Cr.

- ➤ Book value of own Assets as on 31-03-2024 is Rs. 5873 Cr.
- ➤ The above assets have been created with the funding from Share Capital infused by State Government, long term loans from Banks/Financial institutions and internal Cash accrual.
- ➤ 30% of Own Assets considered for calculation of RoE :- Rs.1762 Cr.

➤ OPTCL proposes Return on Equity (RoE) of Rs. 273.09 Cr. for FY 2024-25 @ 15.5% on Rs.1762 Cr.



A.5- Income Tax- Rs. 36.69 Cr.

Regulation 8.43:-

Income tax of the Transmission Licensee shall be recovered from the beneficiaries.

Regulation 8.44 :-

- ➤ Actual assessment of income tax should take into account benefits of tax holiday, and the credit for carry forward losses applicable as per the provisions of the Income Tax Act, 1961 shall be passed on to the consumers.
- ➤ OPTCL has proposed of Rs. 36.39 Cr. for FY 2024-25. The same amount paid for FY 2022-23



B.1. INCENTIVE FOR SYSTEM AVAILABILITY: Rs. 12.42 Cr.

In accordance with the formula prescribed in Regulation 6.5, OPTCL has worked out incentive of **Rs.12.42 Cr.** towards system availability for **FY 2022-23** using approved ARR figure of **Rs. 831.95 Cr.** for the said year.

Incentive = ARR (approved for 2022-23) x [(TAFY/NATAF) - 1]

= Rs. 831.95 Cr. x [(99.97/98.50) - 1]

 $= Rs. 831.95 Cr. \times 0.014924 = Rs. 12.42 Cr.$

OPTCL proposes Rs. 12.42 Cr. towards Incentive for System Availability to be allowed in the ARR for FY 2024-25.



D: Non Tariff Income / Misc. Receipts: Rs. 240.94 Cr.

Particulars	Proposed for 2023-24	Approved for 2023-24	Proposed for 2024-25
Short-term Open Access Charges	337.00	271.00	165.00
Interstate Transmission Charges	9.45	9.45	7.75
Interest Income	15.00	15.00	20.00
Scrap Sale			5.00
Supervision charges/ Implementing Agency Charges	0	0	30.00
Other miscellaneous income	5.00	5.00	13.19
Total	366.45	300.45	240.94



Odisha Renewable Energy Policy-2022

- **Exemption of 20 paisa/unit on STU charges** shall be provided to captive / open access consumers **on consumption of energy** from RE projects commissioned in the State during the Policy period for fifteen (15) years.
- ➢ Hon'ble Commission has exempted the Renewable Power under OERC(Open Access) Regulations, 2020 :- transmission charges for RE shall be calculated on the basis of Paisa/unit or Rs./MWh irrespective of LTOA, MTOA & STOA.
- Expected LTOA customer under OROP22 at present:-
 - M/s ABReL(Odisha) SPV Ltd :- 15.62 MW (TCAA Signed)
 - M/s Mahanadi Coal Field Ltd:- 50.00 MW
- Projected energy transmission for 2024-25 is 115.491MU (i.e 35.491MU & 80MU)
- ➤ Considering exemption of 20 paisa on the approved transmission charges of 24 paisa per unit for FY 2023-24 the LTOA charges will be Rs. 0.46 Cr. i.e.

Normal TC	115.491MU*.024	₹ 2.77 Cr.
Less: Exemption	115.491MU*.020	₹2.31 Cr.
Net TC	115.491MU*.004	₹ 0.46 Cr.



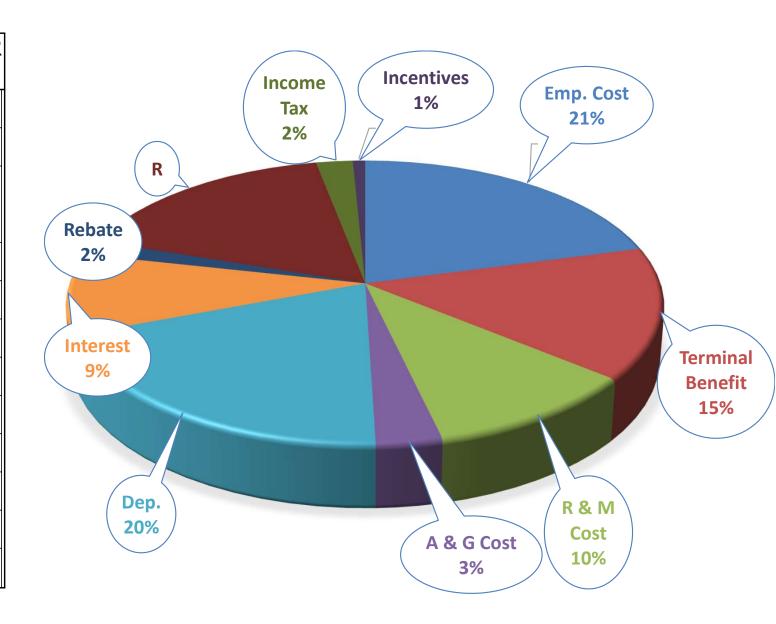
Tariff Design - FY 2024-25

Proposed Energy to be Transmitted in OPTCL Network (MU)	36,645
Power Flow in MW (Equivalent of 36,645 MU)	4183.22
Net Aggregate Revenue Requirement (Rs. Cr.)	1380.69
Transmission Tariff (Rs./MW-Day) to be recovered from Open Access Consumers	9042
Transmission Tariff (Paise /Unit.) to be recovered from DISCOMs	37.68



Component wise allocation of Cost to Proposed ARR for FY 2024-25

Component wise ARR for FY 2024-25				
Components	₹ in Cr.			
Emp. Cost	337.94			
Terminal Benefit	244.12			
R & M Cost	169.3			
A & G Cost	51.48			
Dep.	320.03			
Interest	148.95			
Rebate	27.61			
ROE	273.09			
Income Tax	36.69			
Incentives	12.42			
Total ARR	1,621.63			





Presentation on

Truing –up Application for FY 2022-23 (Odisha Power Transmission Corporation Limited)



Truing up Proposed for FY 2022-23

	(Rs. Cr.)			
Particulars / Year	OERC Approval	Actual as per Audited Accounts	Truing up	Surplus/ (Deficit)
Expenditure				
A. Employee Cost (Net)	477.19	558.12	585.08	-107.89
B. R & M Cost	110.5	114.15	114.15	-3.65
C. A & G Cost (Including SLDC and GCC)	38.08	39.83	38.88	-0.80
Sub-Total (A+B+C)	625.77	712.10	738.11	-112.34
D. Depreciation	233.57	388.16	288.47	-54.90
E. Interest on long-term liability	110.29	97.64	97.64	12.65
F. Rebate	16.64	17.92	17.92	-1.28
G. Incentive for system availability	5.00	0.00	12.42	-7.42
Sub-Total (A to G)	991.27	1,215.82	1154.56	-163.29
H. Return on Equity	141.67	0.00	243.71	-102.04
I. Income tax	2.16	36.68	36.68	-34.52
Grand Total (A to I)	1,135.10	1,215.82	1,434.95	-299.850
Less: Inter-state wheeling & Misc. Revenue	303.15	555.55	440.13	-136.98
Net Transmission Cost	831.95	660.27	994.82	-162.87
Revenue from Transmission Charges	831.95	953.15	953.15	-121.20
Difference to be allowed in truing up (FY 2022-23)	0.00	-292.88	41.67	-41.67



Issues related to FY 2018-19

OPTCL has filed the review application vide petition No. 61/2022 against the order dated 12.07.2022, case No-119/2021 in the matter of turning up the ARR of OPTCL for the FY 2020-21 and requested Hone'ble Commission to consider Rs.106.14Cr which were not considered appropriately in the truing-up orders for FY 2018-19.

SL No.	Particulars Particulars Particulars	Amounts (Rs. in Cr)
1	STOA Revenue Considered twice	58.71
2	SLDC Income should not be a part of Transmission Charges	11.86
3	SLDC Surplus transferred to SLDC Development Fund Account	34.43
4	A&G (Including SLDC & GCC) Expenses	1.14
	TOTAL	106.14

Hon'ble Commission vide order dated 11.04.2023 advised to raise the issue in the future tariff proceeding as the review petition has the limited scope to consider the OPTCL's request.

OPTCL has resubmitted the same for kind consideration.



PRAYER

OPTCL humbly prays before Hon'ble Commission to kindly approve the proposed ARR and Transmission Tariff for FY 2024-25 and Truing up application of OPTCL for FY 2022-23 as under:



- ➤ Aggregate Revenue Requirement of Rs. 1380.69 Cr.
- > Recovery of Transmission Charge @ Rs. 9042 /MW-Day i.e. 37.68 Paise/unit.
- Transmission Loss for wheeling as 3.05% on energy drawl.
- ➤ Truing up exercise for the FY 2022-23 and consider the deficit amount of Rs.41.67 Cr.
- ➤ Consider **Rs.106.14Cr** which were not considered appropriately in the truing-up orders for FY 2018-19
- Consider the cumulative deficit as Rs. 56.39 Cr.
- □ Dt.12.01.2024: OPTCL has submitted compliance report to the queries raised by Hon'ble Commission.
- □ Dt.25.01.2024: OPTCL has also complied and submitted its Rejoinder before Hon'ble Commission of 11 Nos. of Objectors.



Thank you