



Analysis of ARR and Tariff Proposal of TPWODL Licensee for FY 2023-24 Public hearing

DATE : 4 MARCH 2023

WORLD INSTITUTE OF SUSTAINABLE ENERGY

(CONSUMER COUNSEL)

PUNE

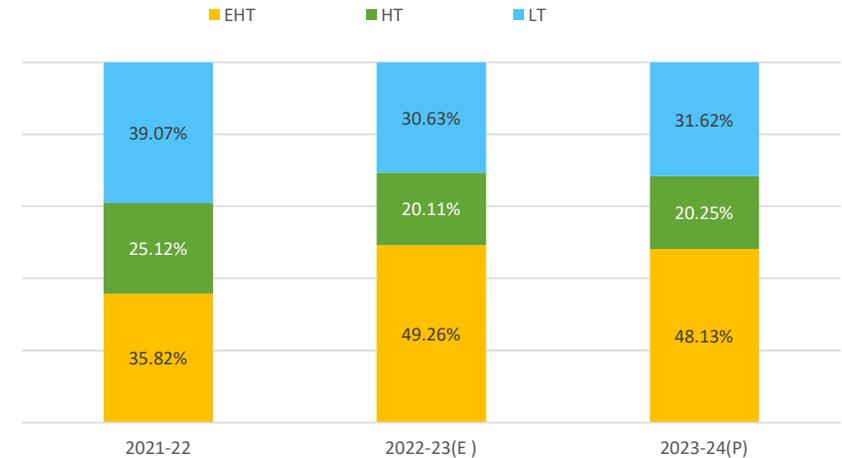
Demand Forecasting

Consumers	Sales							Consumers			
	FY 2021-22 (MU)	FY 2022-23 (MU)			FY 2023-24(MU)			1 April 2021	1 April 2022	1 April 2023	1 April 23 increase % over 1 April 2022
	Actual	Proposed	Approved	Estimated	Projected	Projected % over approved of FY 2022-23	Projected % over revised of FY 2022-23				
LT	2,873.56	2,873.56	3,507.20	3,085.00	3,314.00	-5.50%	7.42%	2,206,626	2,222,942	2,355,559	5.97%
HT	1,847.65	1,850.00	1,910.00	2,025.00	2,123.00	11.15%	4.84%	978	1086	1158	6.63%
EHT	2,634.58	1,750.00	2,060.00	4,961.00	5045.00	144.90%	1.69%	37	39	44	12.82%
Total	7,355.79	7,110.00	7,477.20	10,071.00	10,482.00	40.19%	4.08%	2,207,641	2,224,067	2,356,761	5.97%
LT sale % of Total	39.07%	40.42%	46.90%	30.63%	31.62%						
Power purchase	7,625.00	8,843.28	9,300.00	8,600.00	9,000.00						

- In FY 2022-23, LT consumer growth is 5.97%, and HT consumer growth is 6.63%. However, EHT consumer consume average 127 MU per year.
- In FY 2023-24, projected sales are 40% higher than approved sale of FY 22-23; however, it is only 4% increase over revised FY 22-23 sale. Projected EHT and HT growth in FY 23-24 is negligible in comparison with estimated sale of FY 22-23.
- EHT consumption in FY 23-24 is projected to be increased by 84 MU and new consumer added is 5. LT sales need to be rationalized. LT projected sales for FY 23-24 are 7.42% higher against FY2022-23 revised.

Electricity Consumption Pattern Across Diff Categories

	2021-22	2022-23(E)	2023-24(P)
LT consumers	2,206,626	2,222,942	2,355,559
LT consumption (MU)	2,873.56	3,085.00	3,314.00
Per consumer use per month kWh	108.52	115.65	117.24
HT consumers	978	1,086	1,158
HT consumption (MU)	1847.65	2025.00	2123.00
Per consumer use per month kWh	157,434.39	155,386.74	152,777.78
EHT consumers	37.00	39.00	44.00
EHT consumption (MU)	2634.58	4961.00	5045.00
Per consumer use per month kWh	59,33,738.74	106,00,427.35	95,54,924.24
Total consumption	7,355.79	10,071.00	10,482.00



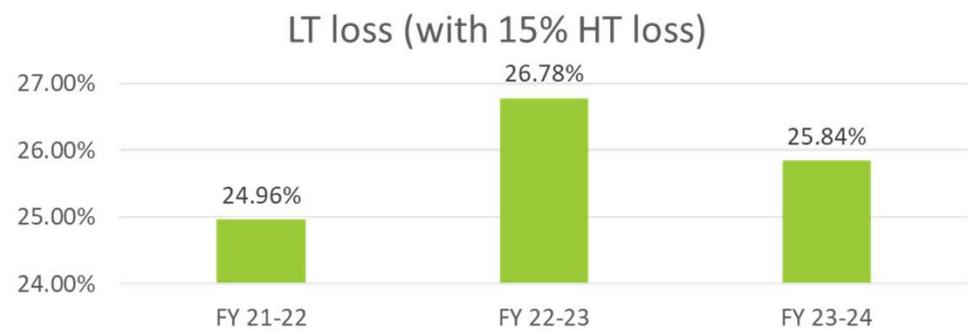
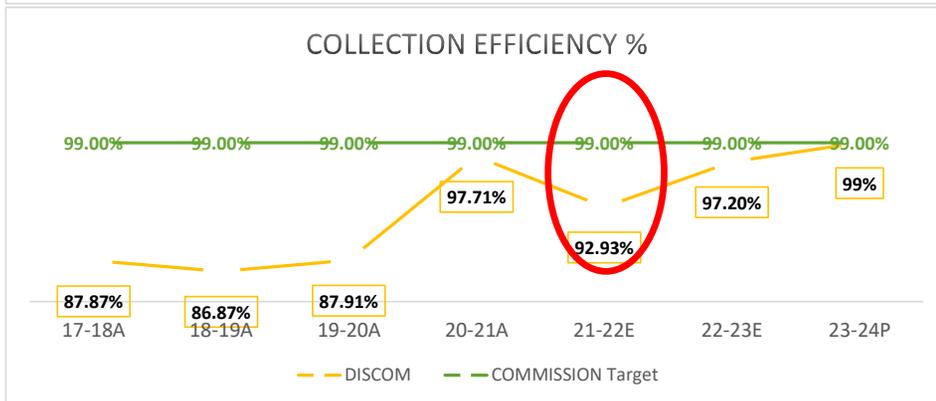
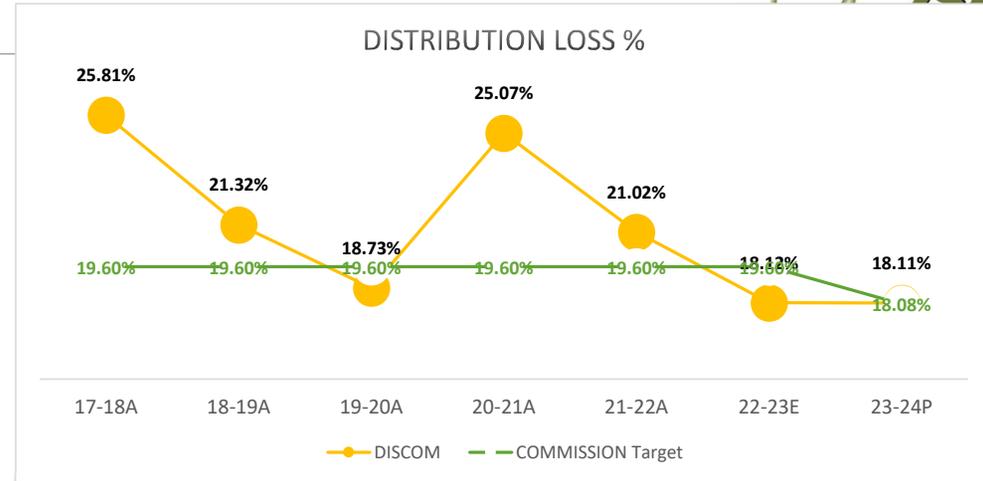
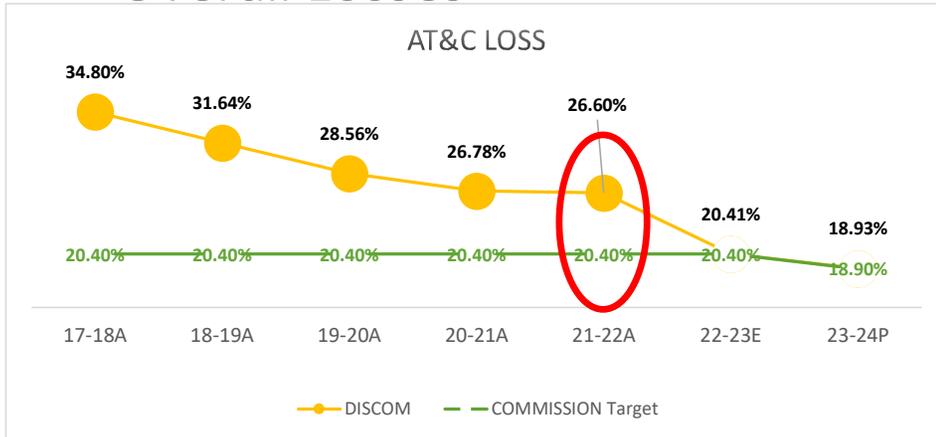
Following category of consumers have drastic consumption rise:

- LT Consumption of Irrigation Pumping and Agriculture, PWW
- HT Consumption Irrigation pumping agriculture,
- EHT Consumption of Heavy Industries Power Intensive industries etc.

Category wise sales projection – growth rate considered

SL No.	CATEGORY OF CONSUMERS	Percentage rise Annual % (FY 2022-23)	Percentage rise Annual %(FY 2023-24)
LT CATEGORY			
1	Total Domestic	5.76%	9.29%
2	Total General Purpose (<100kw)	18.87%	3.33%
3	Irrigation Pumping and Agriculture	1.13%	5.85%
4	Allied Agricultural Activities	3.14%	2.86%
5	Allied Agro-Industrial Activities	4.76%	2.86%
6	Public Lighting	11.94%	2.27%
7	L.T. Industrial (S) Supply	7.81%	4.76%
8	L.T. Industrial (M) Supply	0.97%	2.99%
9	Specified Public Purpose <100 kw	50.11%	4.62%
10	Public Water Works <100 KW	1.19%	3.17%
11	Public Water Works >=100 KW	2.37%	4.00%
12	General Purpose >=100 Kva		0.67%
Total LT----->		7.36%	7.42%
HT Category			
14	Bulk Supply - Domestic	4.40%	3.57%
15	Irrigation Pumping and Agriculture	9.63%	20.00%
16	Allied Agricultural Activities	23.98%	11.11%
17	Allied Agro-Industrial Activities	48.32%	2.86%
18	Specified Public Purpose	62.56%	2.86%
20	General Purpose >=110 Kva	24.86%	5.00%
22	Public Water Works & Sweage Pumping	25.74%	2.38%
23	Large Industry	-0.14%	3.61%
	Sale through Special Tariff (@ 4.30)		50.00%
24	Power Intensive Industry	15.36%	5.17%
25	Mini Steel Plant	22.11%	5.04%
26	Railway Traction	-100.00%	
27	Emerg. Supply to CPP		
28	Colony Consumption	11.73%	-16.00%
Total HT ----->		9.60%	4.84%
EHT Category			
30	Large Industry	9.32%	5.11%
	Sale through Special Tariff (@ 4.30)	#DIV/0!	2.04%
31	Railway Traction	25.66%	5.23%
32	Heavy Industry	68.07%	-13.33%
33	Power Intensive Industry *	20.20%	29.86%
	Sale through TPA	280.43%	-4.76%
34	Mini Steel Plant	6.65%	3.88%
35	Emerg. Supply to CPP	46.54%	-60.00%
36	Colony Consumption		2.86%
Total EHT ----->		88.30%	1.69%

Overall Losses



- AT&C and Distribution loss have decreasing trend though approval is constant. The approved values are as per vesting order.
- The HT loss needs to be revised as per actual data to derive realistic loss figure.
- LT Distribution losses are about 26% with 15% HT loss; if the HT loss is considered as 8%, then LT loss will be more.
- The collection efficiency achieved in 21-22 was of 92.93% and actual AT&C loss is 26.6%, however, the approval was of 20.4%.
- Actual AT&C loss for FY 22-23 (nine month) is 21.9%
- However, circle wise performance is not given in format T-6.

Calculation of Monthly Voltage wise Loss for the FY 2021-22



As Per Format F -27

Sl. No.	Description of Item	Unit	Reference Formula	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Total
1	Input to HT at 33Kv from EHT level	MU		634.025	579.115	546.702	574.662	647.450	554.341	720.408	500.415	460.402	498.074	319.271	632.791	6667.656
6	Loss at HT - 33Kv (%)	%	$(5/(1+2)) * 100$	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
9	Input to LT from 11 Kv level	MU	4-5+7-8	374.177	346.210	322.736	353.547	421.522	334.558	480.510	278.617	258.085	311.840	132.936	418.733	4033.471
11	Loss at HT - 11Kv (%)	%	$(10/(4+7)) * 100$	8.5%	8.5%	8.6%	8.3%	7.9%	8.3%	8%	9%	9%	8%	11%	8%	8%
13	Sales at LT	MU	13(a) + 13 (b)	241.062	251.717	280.695	246.866	272.327	290.559	245.496	240.932	196.293	208.389	191.876	206.167	2872.379
(a)	Metered Sales			172.234	175.555	153.903	147.458	160.152	158.921	125.513	103.925	88.499	98.210	88.788	97.262	1570.421
(b)	Assessed Sales			68.828	76.162	126.792	99.408	112.175	131.638	119.983	137.007	107.793	110.179	103.088	108.905	1301.957
14	Loss at LT	MU	9+12-13	133.115	94.493	42.041	106.681	149.195	43.999	235.014	37.685	61.792	103.452	-58.940	212.566	1161.092
15	Loss at LT (%)	%	$(14/(9+12)) * 100$	36%	27%	13%	30%	35%	13%	49%	14%	24%	33%	-44%	51%	29%
	LT Assessed sale as % of LT sale			29%	30%	45%	40%	41%	45%	49%	57%	55%	53%	54%	53%	45%
16	LT Assessed sale as a percentage of LT input			18.39%	22.00%	39.29%	28.12%	26.61%	39.35%	24.97%	49.17%	41.77%	35.33%	77.55%	26.01%	32.28%
17	LT Assessed sale as a percentage of HT input			10.86%	13.15%	23.19%	17.30%	17.33%	23.75%	16.65%	27.38%	23.41%	22.12%	32.29%	17.21%	19.53%

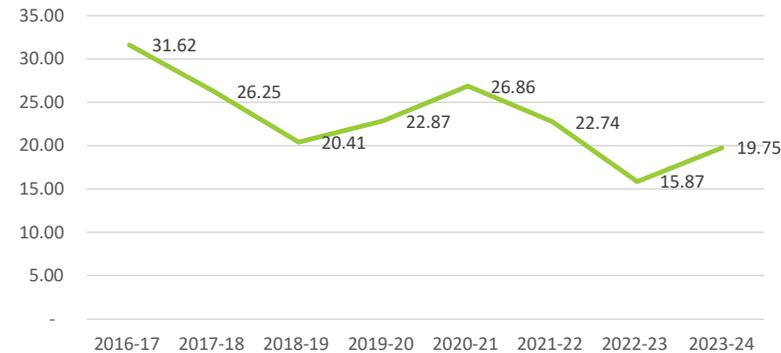
- As per above, HT loss is around 12% for FY 21-22.
- **Assessed sale** in LT is 32.28% of LT input and **45% of total LT sale, which is substantial.**
- Format F-5, should have been revised as per actual HT loss from format F-27.

BPL (Kutir Jyoti) Consumers and Consumption Trend

Year	No of Consumers	Y-o-Y Growth in Consumer Nos (%)	Consumption (MU)	Y-o-Y Growth in Consumption (%)	Consumption per consumer per month (in Unit)
2016-17	173,966		66		31.62
2017-18	189,853	9.13%	59.8	-9.39%	26.25
2018-19	255,369	34.51%	62.53	4.57%	20.41
2019-20	253,257	-0.83%	69.49	11.13%	22.87
2020-21	211,567	-16.46%	68.18	-1.89%	26.86
2021-22	166,958	-21.09%	45.55	-33.19%	22.74
2022-23	136,562	-18.21%	26	-42.92%	15.87
2023-24	126,562	-7.32%	30.00	15.38%	19.75

Year	LT Consumers	Kutir Jyoti	% Kutir Jyoti in Total LT	LT Consumption (MU)	Kutir Jyoti Consumption (MU)	% Consumption in Total LT
2021-22	2,206,626	166,958	7.57%	2,873.56	45.55	1.59%
2022-23	2,222,942	136,562	6.14%	3,085.00	26.00	0.84%
2023-24	2,355,559	126,562	5.37%	3,314.00	30.00	0.91%

Avg. Monthly Consumption in kWh of Kutur Jyoti Consumers



- BPL consumers though were reducing in past few years now consumption proposed to increase in ensuing FY. Genuine BPL consumers should not be deprived from BPL category tariff and DISCOM should take prudent check of annual consumption of BPL category consumer before changing its consumer category

LT Performance – division wise



Name of Division	Distribution Loss		Collection Efficiency		AT&C Loss	
	FY 2020-21	FY 2021-22	FY 2020-21	FY 2021-22	FY 2020-21	FY 2021-22
Bargarh(W)	42.59	42	48.20	48	72.33	72
Bargarh	49.77	48	31.88	62	68.92	68
Titilagarh	43.76	43	62.79	61	64.68	65
Sonepur	30.42	39	53.30	55	32.91	66
Bolangir	47.10	44	75.33	69	60.15	61
Nuapada	46.78	44	82.45	71	56.12	60
Kwed	40.49	40	84.98	77	49.43	54
Sambalpur(East)	36	37	81.64	75	47.74	53
Sambalpur	31.11	25	90.98	79	37.32	40
Jharsuguda	31.28	19	96.32	88	33.81	29
Brajrajnagar	28.74	23	100.70	94	28.24	28
Keed	14.40	20	84.71	73	27.49	41
Sundergarh	18.69	15	90.32	88	26.56	25
Rourkela	16.57	6	98.90	99	17.49	7
Deogarh	9.41	12	98.82	90	10.47	21
Rourkela-Sadar	12.53	8	130.10	90	9.82	17
Rajgangpur	6.37	-1	130.03	96	3.54	3
Total	34.78	33.14	80.47	75	47.52	49.93

3/18/2023

WORLD LEADER IN SUSTAINABLE ENERGY

8

ARR Proposal for FY 2023-24 (Rs. Cr)

ARR Component	ARR Approved for FY 22-23	Projection for the Ensuing year 2023-24	% of ARR	YOY % Rise
Power purchase cost (A)	3610.07	5100.07	88.36%	41.27%
Distribution Costs (B)				
a) Employees cost	474.83	640.64	11.10%	34.92%
b) Repair and Maintenance cost	156.03	346.01	5.99%	121.76%
c) Admin. & General Expenses	110.39	262.16	4.54%	137.48%
d) Provision for bad and doubtful debts	27.87	61.72	1.07%	121.45%
e) Depreciation	46.52	97.06	1.68%	108.65%
f) Interest on Capex loans-Normative	44.5	75.91	1.32%	70.59%
f) Interest on working Capital-Normative		58.95	1.02%	
g) Interest on Security Deposits		46.75	0.81%	
h) Return on equity & Incentive on arrear collection (Prev. Year)	48	109.44	1.90%	128.01%
i) Tax on ROE		36.81	0.64%	
j) Carrying Cost on regulatory assets/liabilities		-16.45	-0.28%	
k) Less expenses capitalized (Employee Costs)	21.18	25.67	0.44%	
l) Less interest capitalized		17.59	0.30%	
Total Distribution cost (a + b + c + d + e + f + g + h + i+j-k-l)	886.96	1675.76	29.03%	88.93%
Prior period items (C)				
Amortisation of regulatory asset				
True up	-150	-714.55	-12.38%	376.37%
Total Special appropriation	-150	-714.55	-12.38%	376.37%
TOTAL (A +B +C)	4347.03	6061.28	105.01%	39.43%
Less Miscellaneous receipts	267.69	289.33	5.01%	8.09%
Total Revenue Requirement	4079.34	5771.95	100.00%	41.49%
Revenue from tariffs (full year)	4119.48	6171.82		49.82%
Revenue Gap(+) / surplus(-)	-40.14	-399.88		

Employee Expenses

Employee Expenses (Rs.Cr.)			
Year	Proposed	Approved	Actual
2016-17	294.86	228.69	306.45
2017-18	399.72	274.19	353.27
2018-19	396.99	274.83	410.76
2019-20	393.24	358.8	525.21
2020-21	432.27	361.02	476.67
2021-22	523.86	409.49	489.32
2022-23	629.06	474.83	583.68
2023-24	640.64		

- Employee cost is controllable cost. Licensee proposed Rs 583.68 Cr employee cost as against Commissions approved Cost of Rs 474.83 Cr for FY 22-23.

- Licensee has further proposed Rs 640.64 Cr employee cost for 23-24. Of this, Rs 178.12 Cr is the terminal benefits (pension) and Rs 39.01 is towards outsource employees.

Form F12	CTC New Emp.	Erstwhile TPWODL Employees	Total Employees
No. of Employees as on 1 April 2022:	514	2121	2635
No of Employees added during the year	693	0	693
Emp Retd./Expired/resigned/ during the yr.	31	109	140
Total Manpower 22-23	1176	2012	3188
No. of Employees as on 1 April 2023:	1176	2012	3188
No of Employees added during the year	761	0	761
Emp Retd./Expired/resigned/ during the yr.	0	88	88
Total Manpower 23-24	1937	1924	3861

and approved was Rs 161 Cr for FY 22-23. Terminal benefits incl. staff welfare is proposed as Rs 238 Cr for FY 23-24 and approved was Rs 166 Cr for FY 22-23.

Repair and Maintenance Costs

FY	Proposed (Cr.)	Approved (Cr.)	Actual / (Audited) (Cr.)
2016-17	73.3	70.54	18.61
2017-18	88.53	68.48	18.40
2018-19	92.41	64.28	17.36
2019-20	99.383	86.33	12.57
2020-21	101.86	92.24	20.66
2021-22	109.53	109.22	137.05
2022-23	278.52	156.03	302.35
2023-24	364.01		

Sl. No	Particulars (Own + Outsourced)	Previous Yr (21-22)	Actual for 1st six month	Current Yr (22-23)	Ensuing Yr (23-24)
1	Civil repairs & maintenance	371.47	132.45	420.00	600.00
2	Dist. line R&M (Material)	1039.47	568.20	7716.68	11554.77
	33 KV Network asset AMC	3140.42	2743.37	5583.78	6142.16
	11 KV & below Network assets AMC	6850.35	6796.99	12140.15	13354.16
	Maintenance of grant assets				
3	Consumer service maintenance				
4	Substation operations & maintenance	1123.53	255.13	1098.00	800.00
5	Street lighting maintenance				
6	Transformer maintenance	197.28	470.71	1850.00	1400.00
7	Other repairs & maintenance	982.92	340.15	1427.00	550.00
	Special R&M (33kv & 11KV river crossing & forest area Tower maintenance)				200.00
	TOTAL (Rs Lakh)	13705.43	11307.00	30235.60	34601.09

- The Current years R&M is proposed is higher than the commissions approved R&M for 22-23. Further, the first six months R&M is about 113.07 Cr and licensee has proposed R&M of Rs 302.35 Cr for Current FY.
- Increased R&M should reflect increase in reliability and quality power further should reduce the AT&C losses.
- For Ensuing FY licensee has proposed Rs 346.01 Cr as R&M expenses which are substantially high. The Licensee has proposed Rs 115.54 Cr of Dist. Line R&M Material which is unjustified.
- **Petition filing is not in line with MYT regulation. The licensee Proposed R&M at 5.4% on licensees GFA of Rs 3009.43 Cr and Govt. Funded /grant Assets of Rs 3398.17Cr (Form F 13a) However MYT regulation has allowed 4.5% and 3% of the opening GFA on Discoms assets and Govt. Grant Assets, respectively. Accordingly the R&M should be reduced.**

Administrative and General Expenses (Rs. Cr.)

FY	Proposed	Approved	Actual/Est.
2016-17	70.1	66.63	19.37
2017-18	84.66	57.81	48.69
2018-19	103.04	48.14	50.78
2019-20	97.94	50.13	50.06
2020-21	88.75	52.8	143.74
2021-22	83.38	63.66	113.26
2022-23	151.76	110.39	173.75
2023-24	262.15		

- For Current financial year, licensee has proposed revised estimates of A&G cost of Rs. 173.75 Cr as against the commissions approved A&G expenses of Rs 110.39 Cr. A&G being controllable expenses higher expenses is undesirable.
- A&G Expenses proposed in FY 2023-24 are of Rs 262.15 Cr. Most of the proposed expenses are **7% high over the revised estimates** for the current financial year which is misleading. The **A&G expenses should be 7% above the Commissions approved normal A&G expenses (W/O additional A&G) as per MYT Regulations.**

Additional A&G Expenses	In Rs Cr
Energy Police Station	14.23
GIS, SCADA, Communication, OT, Data Charges	6.68
IT automation	24.55
Special Drive to improve MBC activity	7.70
Special Drive for Shifting of Meter to outside premises	14.69
Vigilance and enforcement	7.02

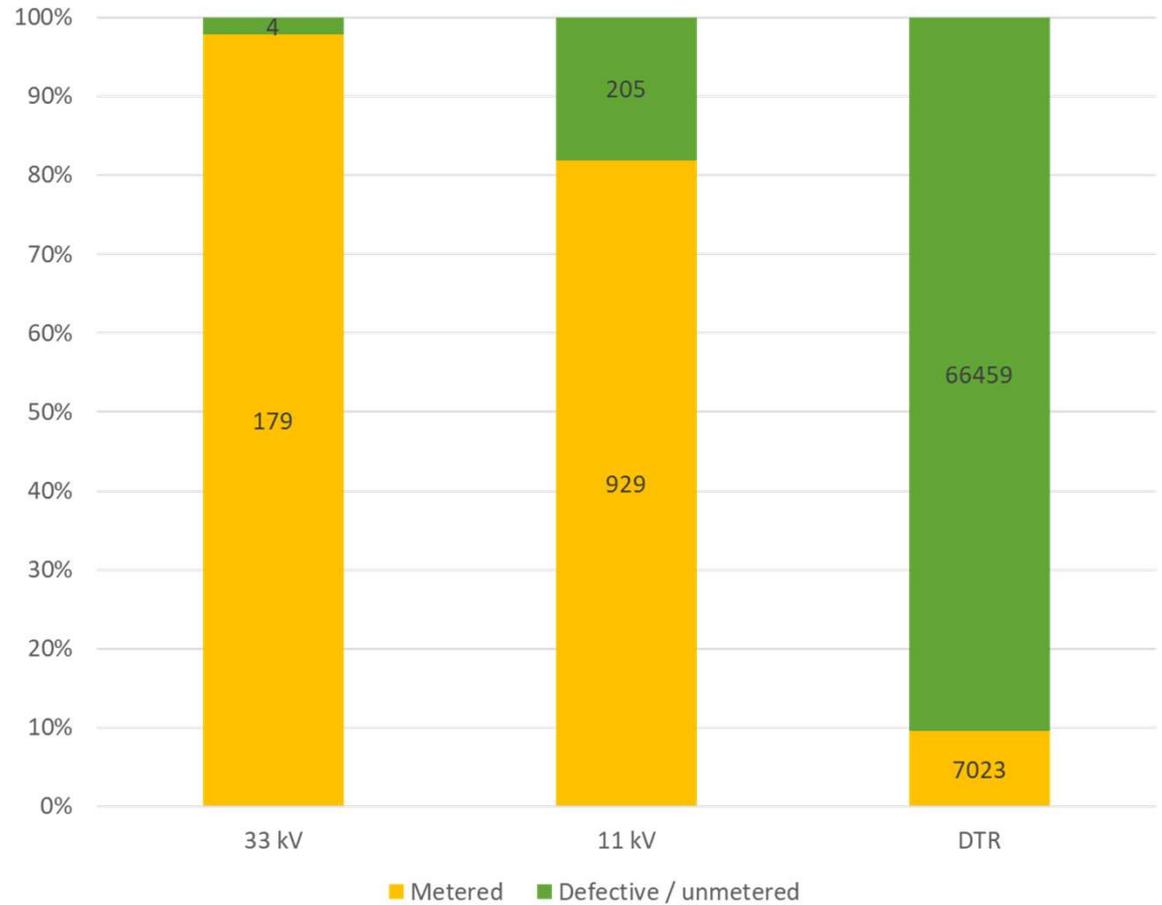
Licensee proposed expenditure for Metering Billing And Collection (MBC) as 58.49 Cr and additional outsourcing expenditure is proposed under employee cost. Needs review based on activity and expenditure proposed.

Metering status

S. N.	NAME OF MRT DIVISION/ CIRCLE	Total Nos of 33 kV Feeder	Metering OK
1	Bolangir	36	36
2	Kalahandi	26	26
3	Bargarh	20	20
4	Rourkela	43	43
5	Sambalpur	58	54
	Total	183	179

S. N.	NAME OF MRT DIVISION/ CIRCLE	Total Nos of 11 kV Feeder	OK Metering	Defective Metering Status
1	Bolangir	272	204	68
2	Kalahandi	206	137	69
3	Bargarh	163	110	53
4	Rourkela	222	221	1
5	Sambalpur	271	257	14
	Total	1134	929	205

DTR METERING STATUS			
S. N.	NAME OF MRT DIVISION/ CIRCLE	TOTAL NO OF DT	METERING DONE
1	Bolangir	16091	468
2	Kalahandi	15081	1966
3	Bargarh	14622	1439
4	Rourkela	14322	1161
5	Sambalpur	13366	1989
	TOTAL	73482	7023



Debtors Outstanding (In Rs Lakhs) as on 30 Sept 2022



Categories of Consumer/Region	0 – 6 m	6 – 12 m	Over 12 months	Total Out-standing	Disputed Amount	Discon-nected	% of total Outstanding
Kutir Jyoti	515.23	460.07	5423.19	6398.49	0.00	2007.63	1.81%
Domestic	29360.41	18336.29	249776.71	297473.41	566.31	56694.94	84.21%
General purpose <100 kw	3575.42	1658.29	11274.15	16507.86	18.42	15513.84	4.67%
Irrigation Pumping and Agriculture	3675.12	1774.13	21467.84	26917.09	0.00	5764.40	7.62%
Allied Agricultural Activities	30.42	7.80	14.31	52.53	0.00	8.60	0.01%
Allied Agro-Industrial Activities	20.00	21.99	9.49	51.49	0.00	24.18	0.01%
Street lighting	1004.41	477.78	2512.92	3995.11	0.00	358.34	1.13%
LT Industrial (S) Supply	127.50	27.55	83.55	238.60	0.00	1237.59	0.07%
LT Industrial (M) Supply	157.15	85.93	103.84	346.93	0.00	624.92	0.10%
Specified Public Purpose	578.25	289.40	1634.85	2502.50	3.66	1178.28	0.71%
PWWS < 100kw	909.41	892.10	2976.43	4777.94	0.00	551.25	1.35%
Bulk supply-domestic	30.75	17.54	104.49	152.78	0.00	107.04	0.04%
Irrigation	-1.29	0.00	1.37	0.08	0.00	10.61	0.00%
Specified Public Purpose	80.43	37.93	33.36	151.73	13.62	3.61	0.04%
General Purpose	77.78	258.58	299.54	635.90	0.06	-24.96	0.18%
Public Water Works>100kw	72.34	17.71	293.47	383.51	554.12	152.00	0.11%
Large Industry	-4.10	355.51	909.77	1261.19	813.63	4137.28	0.36%
Captive Power Plant	78.24	232.76	0.00	311.00	0.00	331.32	0.09%
Railway Traction	0.00	0.00	0.00	0.00	0.00	-3.01	0.00%
Heavy Industry	0.74	0.00	0.00	0.74	283.33	0.00	0.00%
Power Intensive Industry	-8891.04	0.00	0.00	-8891.04	27765.27	2552.07	-2.52%
Mini Steel Plant	0.00	0.00	0.00	0.00	17.52	0.00	0.00%
TOTAL	31397.18	24951.36	296919.29	353267.84	30035.93	91229.94	100.00%
	8.9%	7.1%	84.0%	100.0%			

Observation of other components

○ Provision for Bad Debt :

- **Rs. 61.72 Cr proposed for FY 2023-24. Though Licensee has proposed 99% as collection efficiency for AT&C loss calculation they have proposed provision for bad debt as per 99% collection efficiency.**
- MYT regulation permits only 1% of the revenue billed for sale of electricity.

Sl. No.	Particulars	Previous Year 21-22
1	Receivable from consumers as at the beginning of the year	37888.34
2	Revenue billed for the year	429304.90
3	Collection for the year	348461.81
	<i>Against current dues</i>	<i>342836.81</i>
	<i>Against arrears upto previous year</i>	<i>5625.00</i>
4	Gross receivable from consumers	118731.43
5 = 3/2	Collection efficiency (collection total / revenue billed)	81.16%
	Collection efficiency (collection current dues / revenue billed)	79.85%

○ Depreciation

- **Licensee has proposed Rs 97.06 Cr towards depreciation for FY 2023-24 compared to the Commissions approved Rs 46.52 Cr for the current financial year.**

Progress of approved Capex work (Rs Cr)

Major Category (FY 21-22)	Approval for FY 22	Actual	WIP	Balance
Load Growth	39.71	28.07	7.17	4.47
Loss Reduction	42.48	23.13	8.3	11.05
Reliability	48.91	23.52	17.03	8.36
Statutory, Safety and Security	98.48	61.89	21.22	15.37
Technology & Infrastructure	103.55	81.35	16.15	6.05
Grand Total	333.13	217.96	69.87	45.30

Major Category (FY 22-23)	Approved for FY 23	Actual	WIP	Balance
Load Growth	145.57	20.95	38.06	86.56
Loss Reduction	46.80	12.68	15.04	19.08
Reliability	118.34	17.09	53.60	47.65
Statutory, Safety and Security	52.40	13.00	17.84	21.56
Technology & Infrastructure	114.61	18.73	80.97	14.91
Grand Total	477.72	82.45	205.51	189.76

Sl No.	All in Rs lakh	PREVIOUS YEAR(21-22)						CURRENT YEAR(22-23)					ENSUING YEAR(23-24)					
		Description of the Project/Scheme	OB as on 1.4.21	Expn. during the year	Interest during construction	Overhead Capitalised	Transfer to fixed assets	Closing bal. of WIP as on 31.03.22	Expn. during the year	Interest during construction	Overhead Capitalised	Transfer to fixed assets	Closing bal. of WIP as on 31.03.23	Expn. during the year	Interest during construction	Overhead Capitalised	Transfer to fixed assets	Closing bal. of WIP as on 31.03.24
14	Statutory, Safety & Security		3162.98			2817.00	345.98	11532.18	107.63		10337.76	1648.03	4173.89	58.43			4210.80	1669.56
15	Loss Reduction		1250.08			1001.00	249.07	7208.16	67.28		6261.44	1263.07	14944.64	209.22			10439.08	5977.86
16	Network Reliability		316.32			256.00	60.32	15100.58	140.94		12144.07	3157.77	12339.54	172.75			10734.25	4935.82
17	Load Growth		1625.58			365.00	1260.58	15162.06	141.51		12719.16	3844.99	21551.65	301.72			17077.70	8620.66
18	Technology & Civil Infrastructure		8499.31			7299.61	1199.69	11946.83	274.73		10393.92	3027.34	16091.25	1016.42			13698.51	6436.50
	Sub-total		14854.26			11738.61	3115.65	60646.82	732.09		51856.34	12941.21	69100.97	1758.55			56160.34	27640.39
	Total of Network Assets	4911.34	37775.51	0.00	0.00	39026.97	3659.87	84463.41	732.09	0.00	65384.64	23470.73	90454.97	1758.55	0.00	81494.65	34189.60	

Collection of Past Arrears (In Rs Cr)

Collection of past arrears														
														(Rs. Cr)
Sl. No.	Particulars FY 2020-21	Jan-21	Feb-21	Mar-21										Total
1	Amount Collected out of Mar'20 Arrear	18.60	15.91	70.02										104.54
Sl. No.	Particulars FY 2021-22	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
1	Amount Collected out of Mar'20 Arrear	5.97	2.95	3.85	2.92	4.45	4.09	12.42	3.86	9.83	6.09	8.99	48.37	113.78
Estimate for Current Year FY 2022-23														
Sl. No.	Particulars	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
1	Amount Collected out of Mar'20 Arrear	3.44	4.63	4.27	5.00	3.39	4.26	3.07	3.42	0.00	0.00	0.00	0.00	31.48
														249.81

Table 5 : TPCL Past Arrear Recovery Commitment

FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Year 1	Year 2	Year 3	Year 4	Year 5	
30	120	60	60	30	300

(Values in Rs. crore)

Pg 20 Vesting Order

Tariff Rationalization Measures

Increase of Digital Rebate to 4% for LT Domestic, LT GP Single ph and Irrigation consumers

The digital rebate was increased from 2% to 3% in last RST order. Licensee further proposed to increase to 4%.

- This has resulted in good increase in digital payment. The number of digital transaction have been almost doubled YoY basis.
- However, the outstanding bills (less than 12 months) from LT domestic and GP consumer category are still significant. The same may be explained by the licensee.
- Any further increase of rebate may be reviewed after reviewing the result.
- Further, there are consumer complaints of non receipt of energy bills within time which makes them unable to avail rebate. SMS services about generation of electricity bill, due date and bill amount will help the consumers to pay the bills through APP or online and keep track of their electricity bills.

Discount to Domestic Rural Consumers

Earlier, 5 Paise per unit was offered additional discount to rural domestic consumers for prompt payment and opting electricity through correct energy meter and pay bill in time. The same was increased to 10 paise by the Commission. The licensee proposed to continue the same.

The discount should be continued for rural domestic consumer who pay their bill in time having correct energy meter .

Tariff Rationalization Measures

Pay Digitally and get six months electricity bills absolutely free

Licensee proposed to refund last paid six months bill in case of death of the consumers who regularly paying digitally (single-phase Domestic including Kutirjyoti, 1phase GP & 1phase Irrigation and Agriculture category) to the family member to whose name the connection is getting transferred.

- Licensee claim of no additional cost looks attractive. However, implementation should be reviewed as the benefit will be given to the family member in whose name the connection will be transferred. The payment will be shown as reduction in revenue? Any such incentives should be permitted through licensees own profit and not through cross subsidy burdens or burdens on other utility consumers.

Revision of Reconnection Charges

Existing reconnection charges are continuing from 1st April 2012. and licensee proposed the revision in charges

LT Domestic 1 ph – Rs 150 to Rs 300/-

LT GP 1 ph – Rs 400 to Rs. 800/-

LT 3 Ph – Rs 600 to Rs 1200/-

ALL HT and EHT – Rs 3000/- to Rs. 6000/-

Further, in the event of consumer found reconnected without paying formal reconnection charges shall be imposed with 10 times of the reconnection charges,

The proposed charges are double of the existing charges. The charges may be reviewed according to the actual expenditure of the Licensee in this regard.

Tariff Rationalization Measures

Creation of Category for Mega lift points under EHT

Licensee proposed to create a separate category under EHT with demand charges of Rs.250 per kVA and energy charges under graded slab method for a consumer with CD of 13500 kVA and availing power supply with 132kV level.

- Proposal of creation of a new category may be reviewed.

Special tariff to steel industry

The Hon'ble commission has extended a special discount (load factor) to steel industries connected in 33 kV level having load of 1MW and above. The licensee submitted that the intention of Hon'ble Commission was that the benefit extended to steel industries is only to those who do not have CGP. If both the tariff benefits i.e. for Steel industry (load factor rebate) as well as for CGP (special tariff) would be permitted, then the industries' power purchase cost would be less than the BST of the DISCOM. The licensee requested to bring more clarity in this regard.

The Hon'ble Commission has introduced special load factor based benefit to steel industries (connected at 33 kV) having load of 1 MW and above. The same is benefiting the consumers. Whether the applicability of this benefit is over and above other exiting benefits / special tariff, may be clarified.

However, the special tariff shall be Rs.4.30 paise per kVAh only for incremental energy drawl (kVAh) beyond CD for industries having CGP with CD up to 20MW.

Tariff Rationalization Measures

Creation of Disaster Resilient Corpus Fund

Licensee proposed Rs 2 per months to be collected from all consumers for creating disaster resilient corpus fund

- Odisha is frequently affected by cyclones and licensee should opt all new installations designed to meet such natural calamities.
- The Commission's earlier direction to meet the same from Govt support should be explored by the Licensee.

Revision in meter rent

Licensee proposed to revise the meter rent from Rs 60 to Rs 80 per month for single phase smart meters or if the recovery period from 60 months to 90 months would be permitted then the cost can be fully recovered, instead of increase it.

- As per Regulation 113 of Supply code, if existing operational meters are replaced, the meter rent recovered till date of meter replacement be adjusted and balance amount be recovered on prorata basis.
- Further, TPWODL has offered **Rs.18.50/- per bill** through competitive bidding process to the new Metering & Billing Agency for Billing & Metering. Smart meter installation will reduce this expenditure of the licensee.
- Hence, on life-cycle basis cost – benefit analysis should be carried out before enhancement of the meter rent.



Thank You

WORLD INSTITUTE OF SUSTAINABLE ENERGY (WISE) PUNE

- Policy research and advocacy
- Energy Regulations and Tariff
- Energy Efficiency
- Renewables - Solar, Wind, Biomass
- Climate change and Sustainability
- Training and Capacity Building

DTR. Failure Analysis (FY 2021-22)

