



TP Northern Odisha Distribution Ltd.



**Presentation on  
ARR & Tariff Petition for FY 2023-24  
(Case No.83 of 2022)**

**Before Hon'ble  
ODISHA ELECTRICITY REGULATORY COMMISSION  
27<sup>th</sup> Feb, 2023**



Lighting up Lives!



- ☐ Overview of TPNODL
- ☐ Glimpses of TPNODL Journey
- ☐ Aggregate Revenue Requirement for FY 2023-24
- ☐ Truing-Up for FY 2021-22
- ☐ Tariff Rationalization Measures
- ☐ Application for Determination of Open Access Charges for FY 2023-24
- ☐ Application for Approval of Business Plan for FY 2023-24
- ☐ Prayer



# Overview of TPNODL



TPNODL - A joint venture of Tata Power and Govt. Odisha, started on 01<sup>st</sup> Apr-21  
( In compliance to vesting order of Hon'ble OERC 25<sup>th</sup> Mar-21 in Case No. 9/2021)

33/11 kV PSS: 239

STS Capacity:  
2715 MVA

Distribution  
Capacity: 2708 MVA

33KV Line: 3007 KM

11KV Line: 38339 KM

LT Line: 67118 KM

20.98 lakh customers base, 27,920sq.km Area, 2807 Employees

**01** 5 Revenue Districts of Odisha

**02** 5 Circles  
Balasore, Bhadrak, Jajpur, Keonjhar, Baripada

**03** 16 Division & 50 Sub-divisions

**04** 159 Sections  
115 Rural Section, 24 Urban & 20 Mix Sections

**INPUT\***  
6702 MU

**REVENUE\***  
₹ 3081CR

**PEAK  
LOAD\***  
1300 MVA



\* Estimated for FY.23



Particulars	As on 31.03.21	As on 31.03.22	As on 30.09.22
No. of Power Transformers	488	524	538
No. of Distribution Transformers	70,429	72,323	73,584
No. of 33/11kV Sub-station	217	236	239
33KV Line (CKT Km.)	2,868	2,895	3,007
11KV Line (CKT Km.)	37,069	37,591	38,339
LT Line (CKT Km.)	66,300	66,672	67,118
No. of Consumers :			
EHT	36	37	40
HT	557	614	645
LT	20,07,540	20,88,432	20,97,752
TOTAL	20,08,133	20,89,083	20,98,437
Input (MU)	4941.19	5327.043	3342.863
Sales (MU)	3921.633	4346.998	2725.286
Billing Efficiency (%)	79.37	81.6	81.53
Collection Efficiency (%)	94.28	94.2	98.77
AT & C Loss (%)	25.17	23.13	19.48
Number of Employees	2159	2585	2807

Over the period there has been Growth of 10% in Consumer base, 24% in Network. The employee base at takeover has been increased to 1.33 employees/'000 consumers which is within the approved limit of 1.40.

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# Glimpses of TPNODL Journey

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**Mandatory safety training** covering 100% employee  
**Behavioral Based Safety Training** - NGO Aakar engaged  
**Safety Audit** - PPE/Tools audit for across all 159 Sections



**Practice yard** - Hands-on Training on operations equipment started at all 16 Divisions.

**Satellite PSCC** – Set up at all divisions to ensure safety of 11kV handtrips taken for LT work.



**100% PPE** usage mandatory for employees & BA workforce  
**Suraksha Parivaar** - Safety interaction sessions with family of linesman & BA workforce to create safety awareness  
**“Mo Surakhya Mo Hatore”** - Safety Awareness Film



**Suraksha Kawach** for PTW, **Suraksha Portal** for reporting & monitoring of unsafe observations.

**BAPASS** for monitoring Project work safety Compliances



**DSS Fencing** – To ensure general public & animals safety. 850+ distribution substation fencing completed

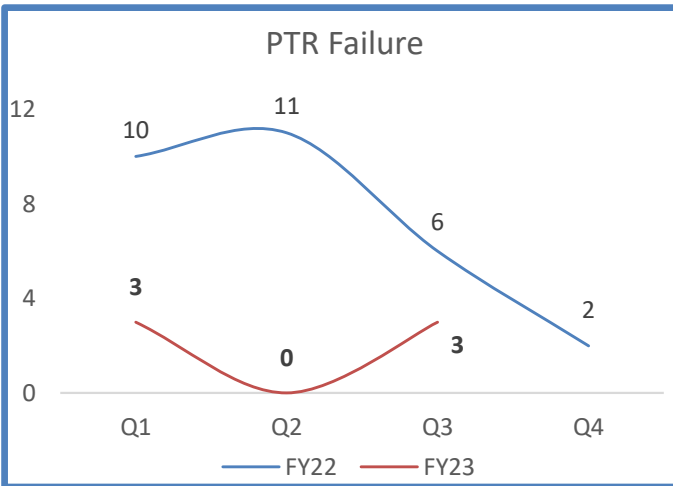
**Public Awareness** - LED display Van, Safety march, PA System, dedicated number for public reporting



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**Project Neela:**  
Ensuring Blue Silica gel in 100% PTR



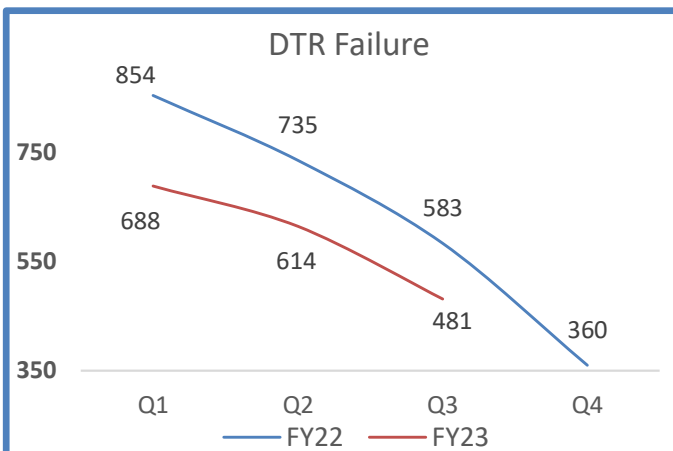
**Project Bhoomi:**  
Earthing of PTR: 121  
No's New & 131 existing



**Project Navikaran:**  
Onsite PTR  
overhauling – 45 Nos



**PTR Health Indexing:**  
169 out of 347 Critical  
PTR covered



**Project Raksha:** DTR  
survey & Problem  
identification 15000+



**Project Taapman:**  
Thermoscaning &  
corrective actions

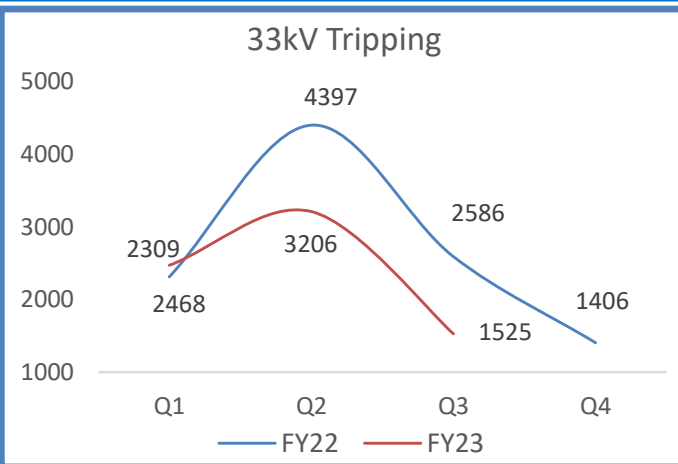


**Mission 100:**  
Maintenance of 100  
DTR/section Mar-23



**LT Protection:**  
ACB/MCCB – 923 Nos.  
& Kit-kat: 3212





**PSS Automation:** 29 No. Completed, 42 Nos. integrated



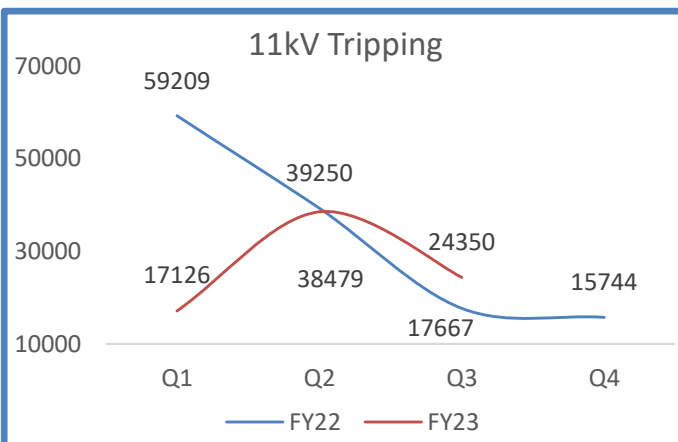
**Mega Block:** Planned outage for 33&11KV maint. & project works



**CB Accessories:** Battery & Charger (143), Relay (120), CR Panel (34)



**Circuit Breaker installation:** VCB installed - 99



**Project Clean up:** Tree trimming & Preventive Maintenance



**Drone Services:** Feeder Audit, Thermo scanning – 26 feeders



**HT Protection:** RMU - 11 Nos. & ARSR – 20 Nos



**Priority Feeder Maintenance:** LHGP, VoB & VoC feeder

Sub Transmission System (33KV) Maintenance :242 Nos of PSS , 515 Nos of PTR, 2800 kM of 33 kV Line

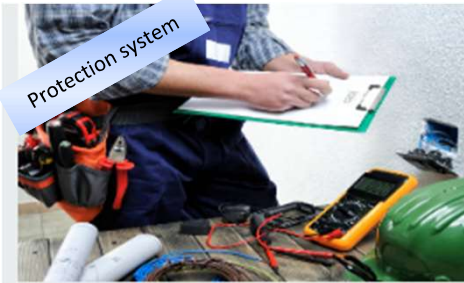


Description	Nos
Silica Gel Replacement	514
Oil Top up/Filtration	178
Breather Replacement	152
PTR Overhauling	60
Repaired PTR Installation	21
New PTR Augmentation	20

PTR Fail - FY22 VS FY23: 27 vs 6



Description	Nos
New Neutral Earthing Pits	144
Reconditioning of existing earth pits	128
AB SWITCH/ISOLATOR MAINTENANCE /Repair	108
CB Overhauling/Maint	179
New Circuit Breaker Installation	126



Description	Nos
LA in PSS- New installation & upkeep	242
New Battery Bank & Charger	185
New Relay Installation	145
New CR Panel Installation	77



Description	Nos.
Tilted Poles Straightened	2176 (75 %)
Conductor Re-Jumpering	2857 (96 %)
Replacement of Pin Insulators	9587 (91%)
Tilted V-Cross arm Straightened	2467 (65 %)
Post Monsoon Tree Trimming (spans)	9478 (96%)
Intermediate Pole Erection. (Critical)	247
New Link Lines 33 kV (CKM)	12

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11 kV Distribution System Maintenance: 73,000 Nos of Distribution Transformer, 36000 CkM of 11 kV Lines



Description	Nos
Oil Top up/ Filtration	9,455
HT/LT Bushing Replacement	2,802
Oil Leakage / Breather/Silica Gel repl.	2,814
DTR Body Earthing Repaired/Installed	2,171
Burnt Socket Replaced	16,960
Augmentation of Dist. Trf	56
Conversion of LT Bare to AB Cable (CkM)	188.23

Description	Nos
Tree Trimming / Vegetation Removal(Span)	39,895
Earthing Resistances Checked	410
DTR Oil BDV Test Done	724
Installation of AB Sw	413
Refurbishment of Dist . Sub station	9,444

Description	Nos
Pin Insulator Replaced	17,833
HG/DD Fuse Unit	2534
Load Balancing Done	2023
LTDB & MCCB Installed	820
LA Earthing Repaired	993
New DTR AB Switches Installed	413
Installation of LT Protection on Dist Trf:	4376
LA Installation	578
Refurbishment of Dist. Sub station	9,444
Power Cable Replaced	264

Description	Nos
Tree Trimming / Vegetation Removal (Span)	1,78,682
Conductor Restraining(KMtrs.)	1037.65
Replacement of Sick Conductor(KMtrs.)	63.52
Insulated Jumpers Instl./Replaced	15096
Straightening/replacement of Cross Arms	3627
Installation of Interposing Poles	3162
New Link Lines 11 kV (CKM)	18.21
Line A/B Switches Installed / Repaired	1126

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## LT Side Protection of Distribution Transformer

- ❑ Presently due to non-availability of LT side protection of Distribution Transformers, multiple hand trips of 11KV feeders are taken to attend the LT faults causing frequent outages to consumers
- ❑ Plan to install LT protection on all transformers by 31<sup>st</sup> March-23

Circle	LT Air Circuit Breaker (400KVA Trx.)	MCCB 400A (>160KVA Transformer)	MCCB 160A (Upto 160 KVA Transf.)	Kit-kat Fuse
Balasore	70	41	133	1342
Bhadrak	32	37	101	618
Baripada	66	39	101	583
Jajpur	46	56	117	734
Keonjhar	26	33	59	374
Total	240	206	511	3651









Samsung Quad Camera  
Shot with my Galaxy A21s

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## 100% Digital Modelling of Base Network of TPNODL completed

Network parameters	Components	Data Compilation from field	Modelling in Cyme Dist
33 kV NW	88 Nos of Feeders (2597 kms)	Covering Conductor sizes & length of sections & SLD of each feeder with Source end Peak Demand & Energy.	100 % complete 
Geo-Mapping	104 Nos of Feeders	Covering geographical survey of each feeders, with HT consumers, and PSS on "QGIS".	100 % complete 
Primary S/S (PSS)	239 Nos	Covering PTR and OG 11kV Feeder configuration and summer peak loading at each PSS)	100 % complete 
Power Transformer (PTR)	538 Nos	Covering Rating of each PTR with corresponding std. R & X parameters.	100 % complete 
11 kV NW	795 Nos of feeders (38,839 kms)	Covering conductor size & length of sections, SLD covering 73,584 Nos of Distribution Transformers. 100% geographically mapped 11kV Network of Jajpur Circle.	100 % complete 
Distribution Transformer	73,584 Nos	Covering rating of each DTR and corresponding std. R & X parameters.	100 % complete 

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### 100% Network Mapping & Load Flow Studies

#### CYME DIST Software

##### LOAD FLOW STUDY

1. Power Flow attributes at individual nodes.
2. Highlights abnormalities
3. Provides optimized solutions.

##### LOAD ALLOCATION AND ESTIMATION

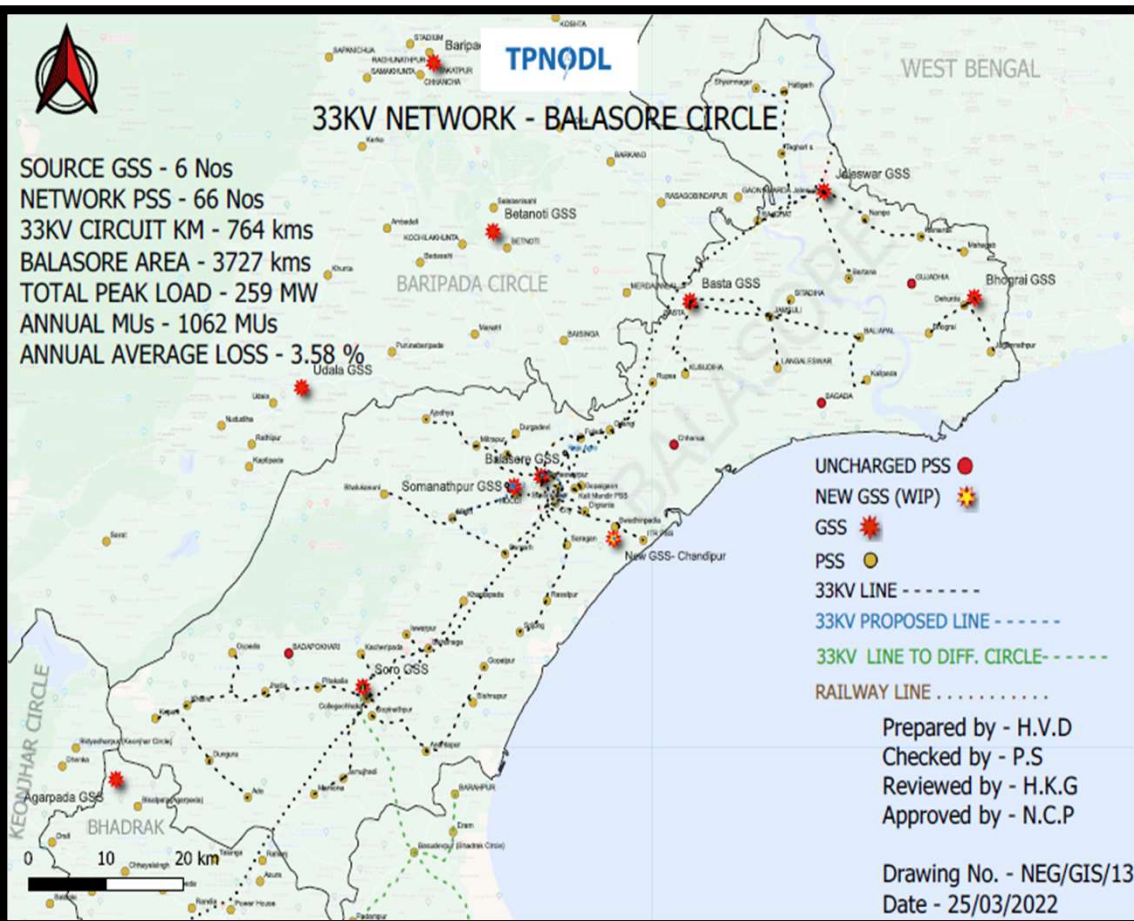
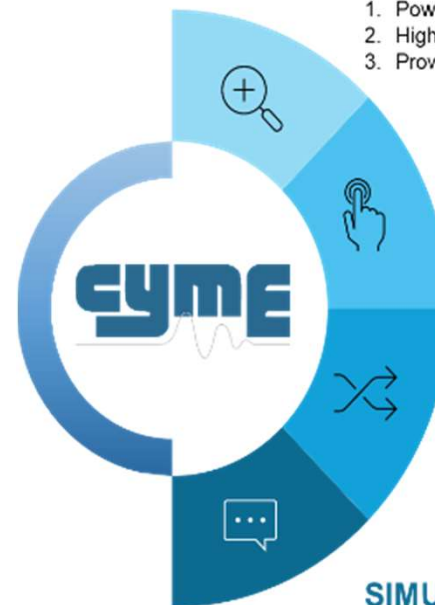
1. Provides optimized distribution of energy flow based on equipment capacities, across several routes from source node.

##### OUTPUT REPORT

1. Loss Estimation
2. Abnormal Conditions
3. Feeder wise customized report

##### SIMULATION ANALYTICS

1. Proposed Scenario analysis
2. Load Forecasting based Network Optimization
3. Contingency Planning



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**33KV River Crossing Tower Lines to avoid drowning of conductors in flood situation**

*✦ 374meter River Crossing line across Subarnarekha river converted into Tower line through construction of two interposing PC+6 Towers, resolving Power outage situation of Rajghat PSS during monsoon floods*

*✦ Another 258 meter river crossing across Budhabalanga river being converted into Tower line through construction of two interposing PC+3 Towers*

**Flood – Aug'22**

**Tower Installed**



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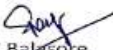
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## Collector & District Magistrate

9. For providing uninterrupted power supply to Collector office, DRDA, Police station special dedicated feeder has been charged. Collector Balasore has appreciated for improvement in quality power supply in office and residence area with substantial reduction of tripping in last three months.

The meeting ended with vote of thanks to the Chair.

  
SSEC Balasore  
TPNODL

  
Collector & District Magistrate  
Balasore

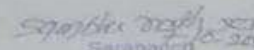
## Sarpanch- Jaleswar

**OFFICE OF THE SARAPANCH  
PASCHIMBARD GRAMPANCHAYAT**  
AT IPO :- PASCHIMBARD, VIA :- BALIAPAL, PS:- JALESWAR,  
DIST:-BALASORE, ODISHA, PIN :- 756026  
MR SAMBHUNATH JENA (SARAPANCH) MOB:-7735445091, 8328994902

Letter Ref:..... Date: 7.10.2022

Confirmed that as a Sarpanch of Paschimbari Gram Panchayat I am so much satisfied with the service provided by the workers joined by Tata Power. Any problem arises at any time the field workers are very responsible to solve the problem immediately. They are young, energetic and work hard. They are well behaved to the local people. So people are getting uninterrupted power supply in our area. The workers of H.S. Power also very work hard and try their best to provide service to local people.

Hence I am so much thankful to Tata Power and the power for engaging these workers in our area. I have not heard any complaint against them yet. So I with their bright future.

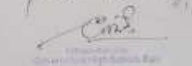
  
Sarpanch  
Paschimbari G.P.

## Bari High School - Soro

Office of the Headmaster  
**BARI NODAL HIGH SCHOOL, BARI**  
AT IPO: BARI, VIA: SIMULSA, DIST: BALASORE, ODISHA  
PIN-755128

Letter No: 1112 Date: 12.09.2022

To  
The TPNODL, Ransing, Balasore

Sir,  
We are pleased to inform you that the complaint about low voltage & tripping of line has been solved very promptly.  
So, we are thankful to you.  
Yours faithfully,  
  
Headmaster

## Arihance Industry - Rupsa

**Arihance Industries Private Limited**  
ISO 9001:2015 Certified  
Regd. Office : 15N, Netaji Subhas Road, Hudco Building, 4th Floor,  
Kolkata-700 087, West Bengal.  
E-mail : info@arihanceindustries.com Web : www.arhanceindustries.com  
CIN No. : U51909WB2013PTC197654  
Ph. No. : 033 2252 2052



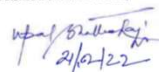
21<sup>st</sup> December 2022

Dear Shree Sandip Sir,  
Greetings for the day from Arihance Industries Private Limited, Balasore, Odisha !!!!!!!

Many many thanks to you and your team members for your sincere support and help to us for the enhancement of the power situation in this area.  
This is a magnificent opportunity for us to congratulate you and your members for the outstanding support.

With warm regards,

Arihance Industries Pvt Ltd.,

  
21/12/22



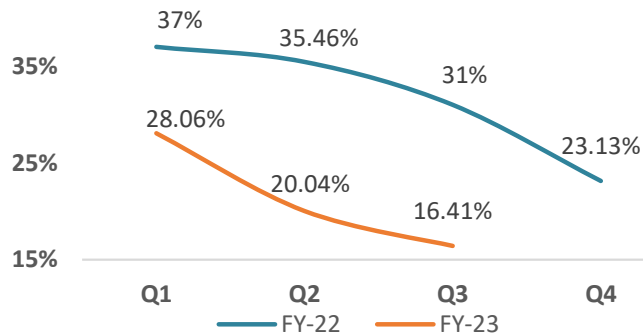
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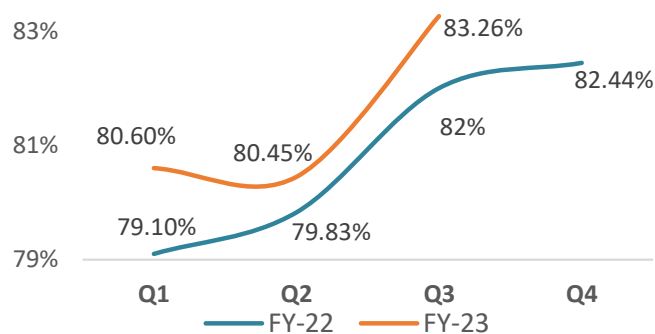




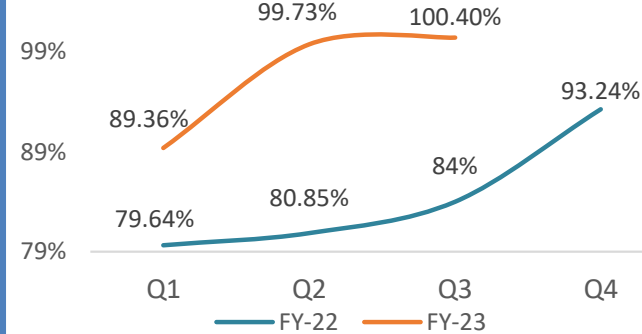
### AT&C Comparison Trend



### BE Comparison Trend



### CE Trend Comparison



Pre-takeover AT&C Loss FY 20-21: 25.17%

**Billed MUs & I/P Energy**



MU Increased by 24.15% and i/p energy by 20.13% in current FY H1 w.r.t. last FY H1.

**Reengineered MBC Contracts**



Separate Billing & Collection agencies assured minimum wages to field staff & incentive/penalty.

**Project Khoj**



3.3 Lacs ECL consumers filed verified out of 4.4 Lac.

**Project Nistha**



Village Camps to resolve commercial issues/disputes

**MRU wise Billing**



Implemented Meter Reading Unit for improvement of Billing Cycle

**OCR Based Billing**



OCR base billing for error free automated meter reading with less time consumption

**Collection**



Increase in collection amount by 53.73% vis-à-vis increase in billed amount by 24.47% in current FY H1 w.r.t. last FY H1

**Unique Consumer**



Unique consumer coverage increased to 73% in CFY from 55% in LFY

**Tracking of Collection Performance**



SCOs/ TL MBC/ HOG Commercial Manager deployed to track collection performance through real time dash board.

**Project LT Udaan**



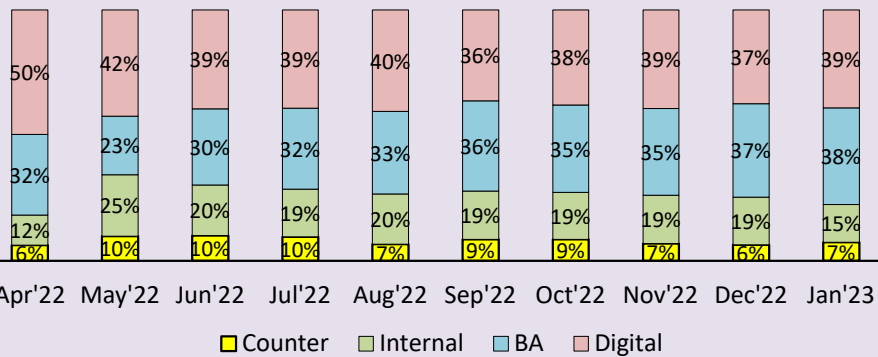
Mass collection drive for LT

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Bifurcation of LT Collection Trend



Dedicated agency



Regional BUs

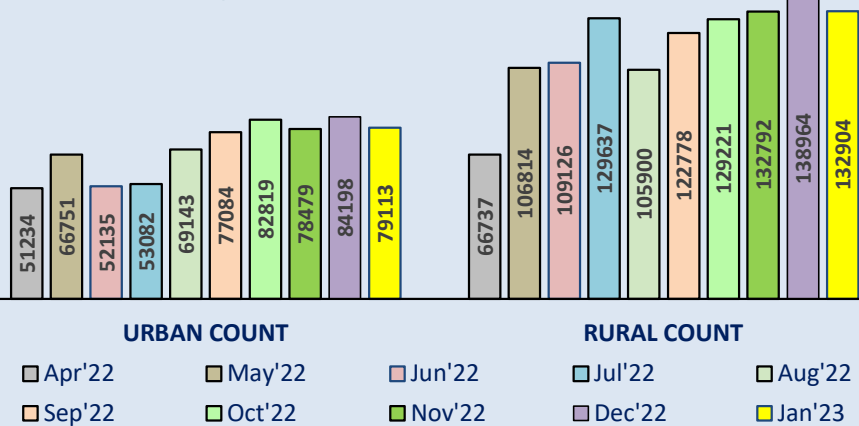


Digital Awareness



MRU billing

Digital Transaction Count URBAN Vs RURAL



Infusion of 3,200 Nos of MPOS



PDS linked Anubhav Kendra



Promotion: My Tata Power app



Digital Payment tie-ups

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## Customer Touch Point

All Consumer

Call Centre  
(Help Line: 1912)



HT-EHT

Dedicated Client  
Manager



Urban

Customer Care  
Centre



Rural

PDS Linked  
Anubhav Kendra



No Power

Coordinators at  
Section offices  
(CSF)



Online

- Website
- Email
- Missed call
- Whatsapp
- Interactive Serv.
- My Tata Power



## Payment Avenues

1

TPNODL  
Collection App



2

Airtel Payment  
Bank



3

Wallet – Paytm,  
PhonePe, Amazon



4

My TATA Power  
App



5

Online Banking:  
NEFT/RTGS



6

Spice Money  
Outlet



7

Bharat Money  
Store Outlet



## Customer Incentive

1

Sharadiya Amrit khumbh -  
Pay & Win



2

5% discount on digital  
payment within rebate



3

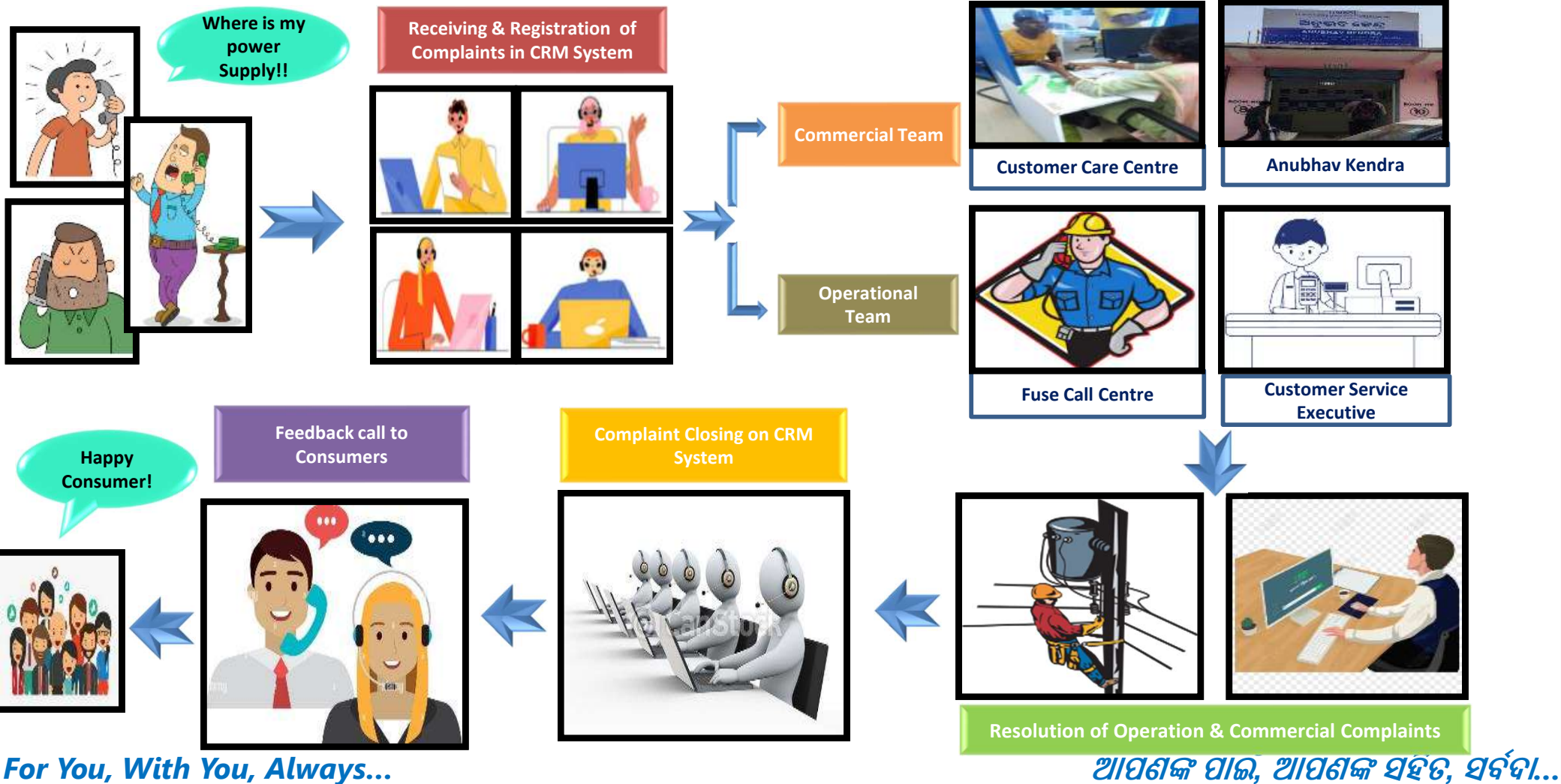
ZERO Convenience Fee till  
Rs.2000/-

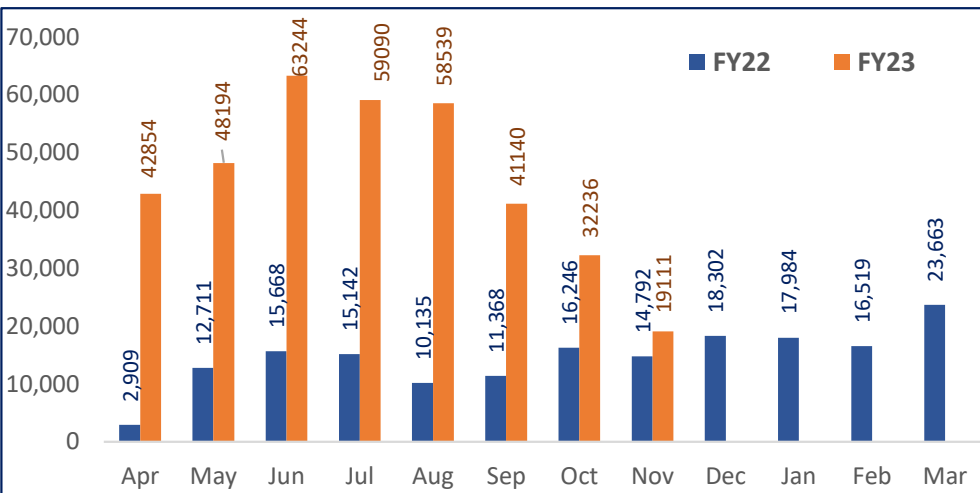
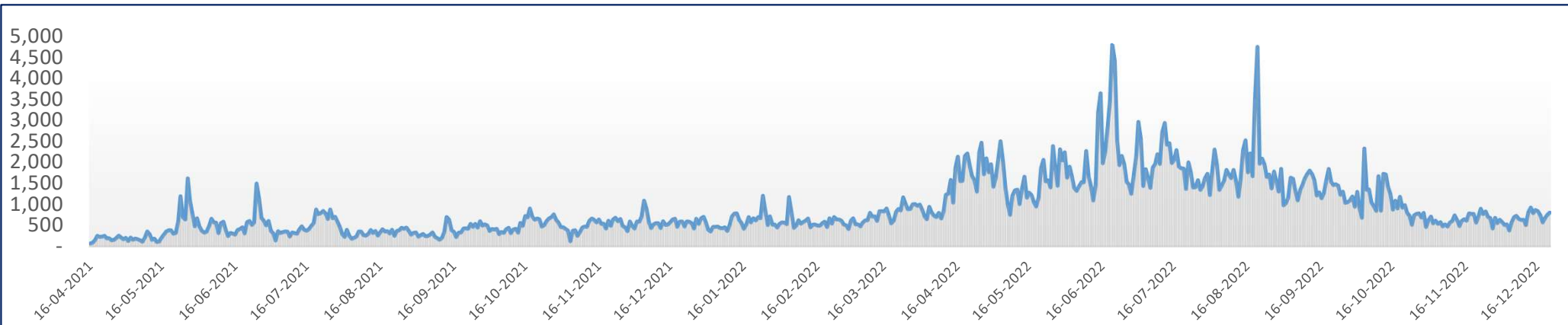


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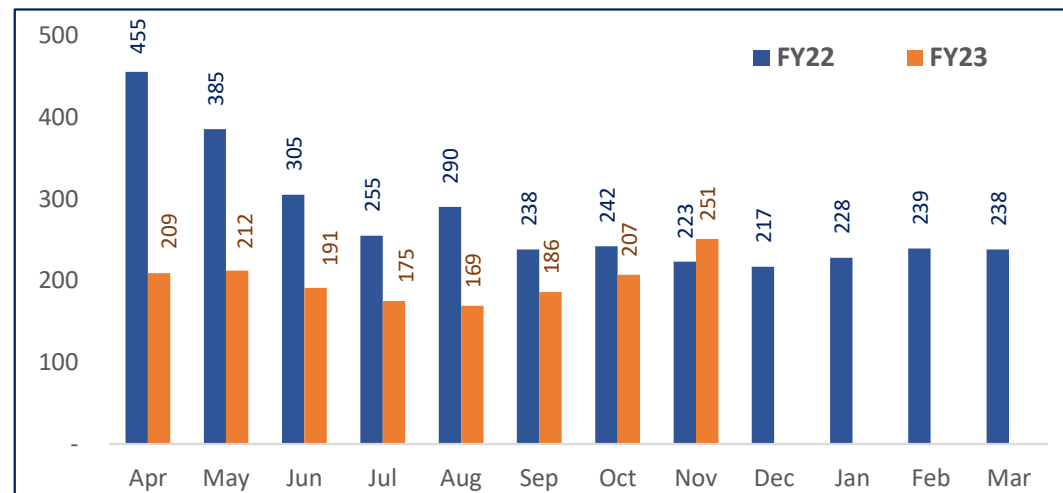
ZERO Door to Door Collection at BED, Balasore – 1<sup>st</sup> Jan-23

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Monthly Call Volume



Average Handling Time (Secs)

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Medium	Portal	Apr'22		May'22		Jun'22		Jul'22		Aug'22		Sep'22		Oct'22		Nov'22		YTD	
		Received	Closed	Received	Closed	Received	Closed	Received	Closed	Received	Closed	Received	Closed	Received	Closed	Received	Closed	Received	Closed
Govt.	Janasunani	115	72	91	71	50	24	48	19	60	21	89	48	117	46	133	60	433	360
	CM Grievance	4	6	17	9	3	8	17	5	6	1	6	2	6	5	9	3	68	39
	Mo Bidyut	144	144	194	194	158	158	129	129	162	162	147	147	150	150	77	77	1161	1161
	Mo Sarkar	19	18	3	16	17	13	8	6	3	5	4	2	14	4	3	5	71	69
Non-Govt.	Social Media	154	153	165	160	343	316	263	174	235	164	328	257	288	311	200	194	1976	1729

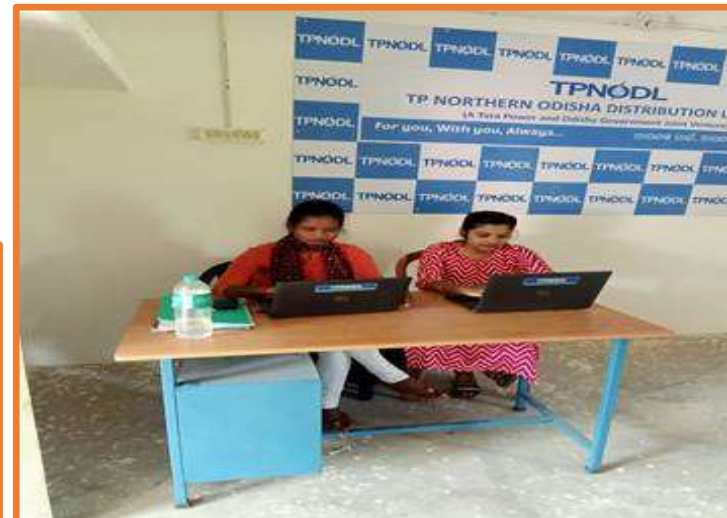
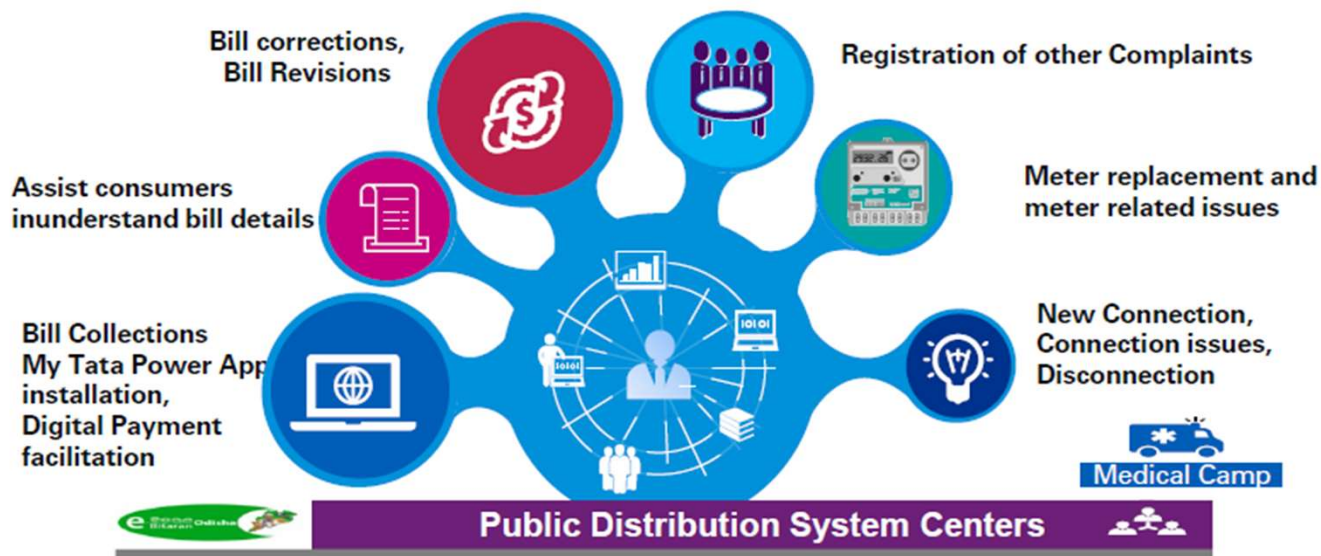




## Objective

- Ensure customer connect and have one stop customer experience center to improve customer satisfaction
- Improve billing efficiency and coverage
- Improve collection efficiency and coverage

## Anubhav Kendra – Consumer Experience Centre





## Project Scope :

- Reach to consumer, Camp in nearby vicinity.
- On spot resolution of complaints (billing, meter related & other commercial complaints)
- On spot collection of rectified bill.

## Progress of Project NISHTA During Nov - 2022

- ✓ Total 189 nos. of Camps conducted. **(972 No's YTD)**
- ✓ 5213 nos. of Consumers visited the camp. **(23009 No's YTD)**
- ✓ 2588 cases of Bill Revision - Resolved on Spot. **(12377 No's YTD)**
- ✓ Rs. 1.07 Cr. from Arrear have been realized. **(Rs. 6.40 Crs YTD)**

Particulars	No. of Sub-division	No. of NISTA Camp	No. of Consumers registered in the Camp	No. of Consumer Paid	Amount Paid (Rs. Lakhs)
Balasore	13	51	1185	652	20.68
Baripada	11	33	1585	729	27.64
Bhadrak	8	39	678	335	21.74
Jajpur	9	44	1146	432	29.21
Keonjhar	9	22	619	440	8.51
Total	50	189	5213	2588	107.78



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Sl. No.	Project Name	Sanctioned (Rs. Crs.)	Expenditure (Rs. Cr)	WIP (Rs. Crs.)	Project Description			Remarks
					Scope	Unit	% Completion	
1	ODSSP PH-I,II,III	760	640	120	New 33/11KV PSS.	No.	90%	90 nos of PSS Charged against 99 & balance 09 are under progress.
2	ODSSP Ph-IV	388.51	0	388.51	New 33/11KV PSS -21 Nos New 33KV independent Feeders- 17Nos.	No.	0%	<ul style="list-style-type: none"> <li>Land Alienation completed for 13PSS.</li> <li>All survey works completed &amp; Civil design works under progress by EPC.</li> <li>Inspection of Line materials are under progress and Construction of 11KV Line works is under progress.</li> </ul>
3	Fani (2019)	7.00	7.00	0.00	To restore network damaged by Fani	Nos	100%	Completed
4	Amphan (2020)	49	49	0.00	To restore network damaged by Amphan	Nos	100%	Completed
5	Flood (2020)	6.03	6.03	0.00	To restore network damaged by Flood	Nos	100%	Completed
6	Yass (2021)	118.4	23.68	94.72	To restore network damaged by Yaas	Nos	20%	Major Materials procured. WIP in various schemes. Target: Mar'23
7	BGJY (On Grid)	17.72	0	17.72	Total un-electrified on grid HH 87797 1. HH's with Service connection- 33966nos. 2. HH's with LT Ext.-14286nos. 3.HH's with Infrastructure-39545nos.	%	0%	Work awarded to BA's @Rs.3674.23 per service connection, and RO to be issued through RC for balance HH's of 53831nos On grid.
	BGJY (Off Grid)	19.0	0	19.0	Off Grid HH 6394	%	0%	for Off Grid, we are going for Micro-grid.
8	Elephant Corridor (Ph- 4)	163	53.34	109.66	System Strengthening works in elephant corridors	Pkg.	32.72%	Out of 50 Packages work completed in 13 packages & WIP in 37 Packages.
9	School & AWC	24.60	8.28	16.32	Shifting of lines & substations from School	No.	34%	Ph-1 & Ph-2 completed, Ph-3 Tendering is under process.





Transformer Replaced



LT AB Cable



Service Cable Box



100KVA Transformer



New LT AB  
Cable



LT AB Cable Replacement

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Sr. no.	Activity	New Power Transformer/ Augmentation		New Dist. Transformer/ Augmentation		33 KV new line /Conductor Upgradation		11 KV new line /Conductor Upgradation		LT AB cable		Fencing DSS		Auto reclosure / Sectionalizers ,RMUs, &FPis		Primary Sub-Station refurbishment		LT MCCB/ACB	
		Nos		Nos		Ckt KM		Ckt KM		Ckt KM		Nos		Nos		Nos		Nos	
		Comp.	WIP	Comp.	WIP	Comp.	WIP	Comp.	WIP	Comp.	WIP	Comp.	WIP	Comp.	WIP	Comp.	WIP	Comp.	WIP
1	Balasore	4	5	21	38	0.0	66.15	0.00	76.60	28.65	33.40	96	181	0	50	8	11	89	125
2	Bhadrak	0	7	11	72	0.0	32.40	14.80	55.13	40.38	59.00	77	151	2	31	1	13	100	127
3	Baripada	2	2	19	74	0.0	65	8.00	45.1	29	39.1	92	267	4	50	1	5	130	152
4	Jajpur	2	6	15	65	4.0	77.00	33.7	52.25	37.90	46.35	65	151	3	51	7	8	78	201
5	Keonjhar	1	0	12	70	6.	47.70	7.00	73.34	17.95	44.37	73	246	1	58	1	2	61	176
Total		9	20	78	319	10	288.25	63.5	302.42	153.88	222.22	403	996	10	240	18	39	458	781

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Capex year	Approved Amount from Hon'ble OERC	Actual Capitalisation	CWIP	Actual CAPEX	Total CAPEX Planned till March-23
FY 21-22	258.78	141.75	46.46	188.19	258.78
FY 22-23	326.54	53.05	149.66	202.71	304.00
Total	585.32	148.22	104.66	501.2	562.78

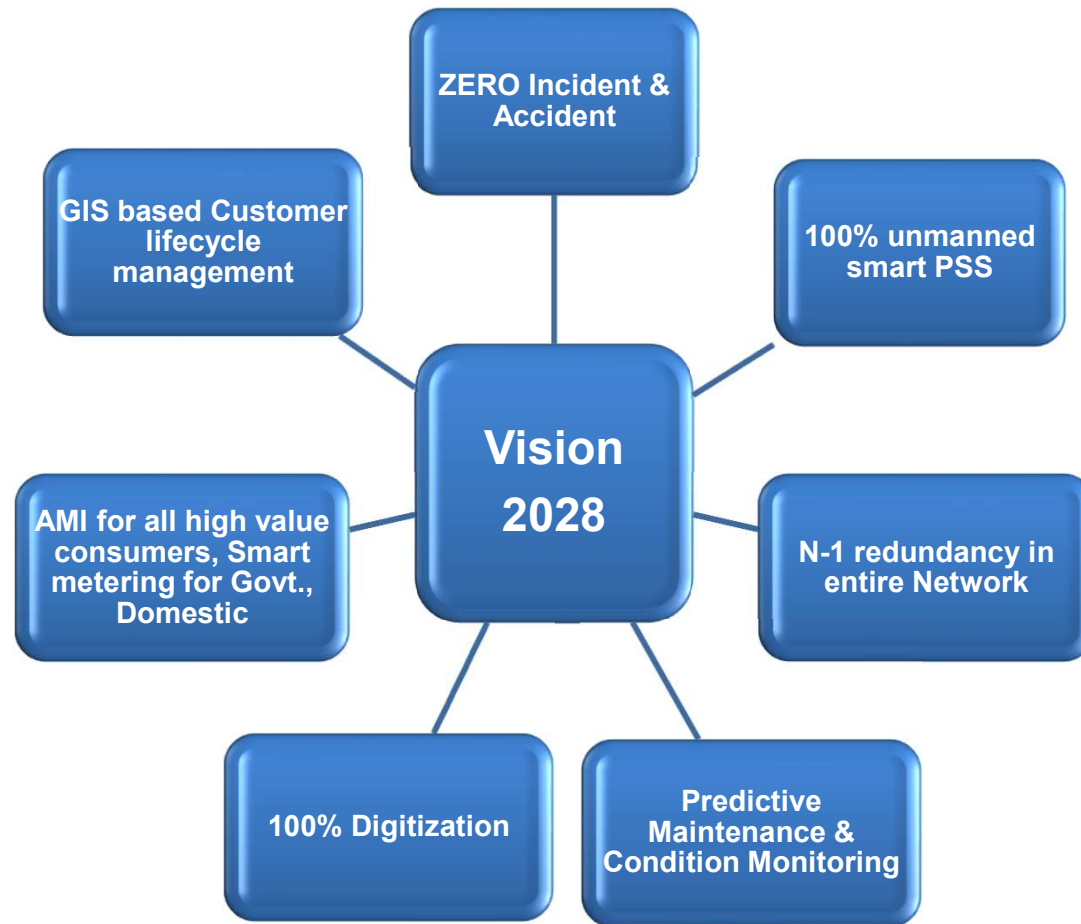
**Target to Capitalize Rs.501.00 Crs. by March-23**

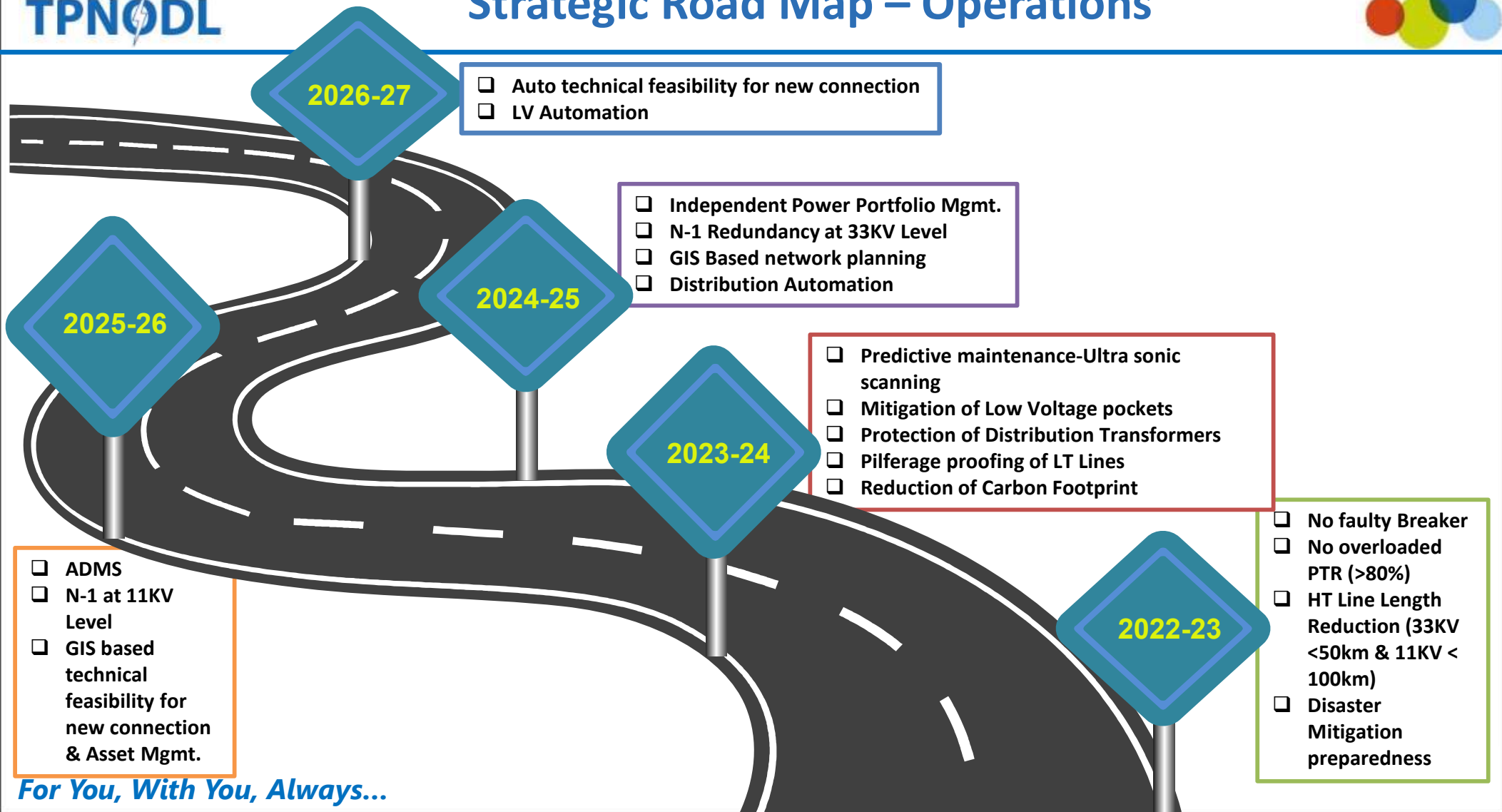




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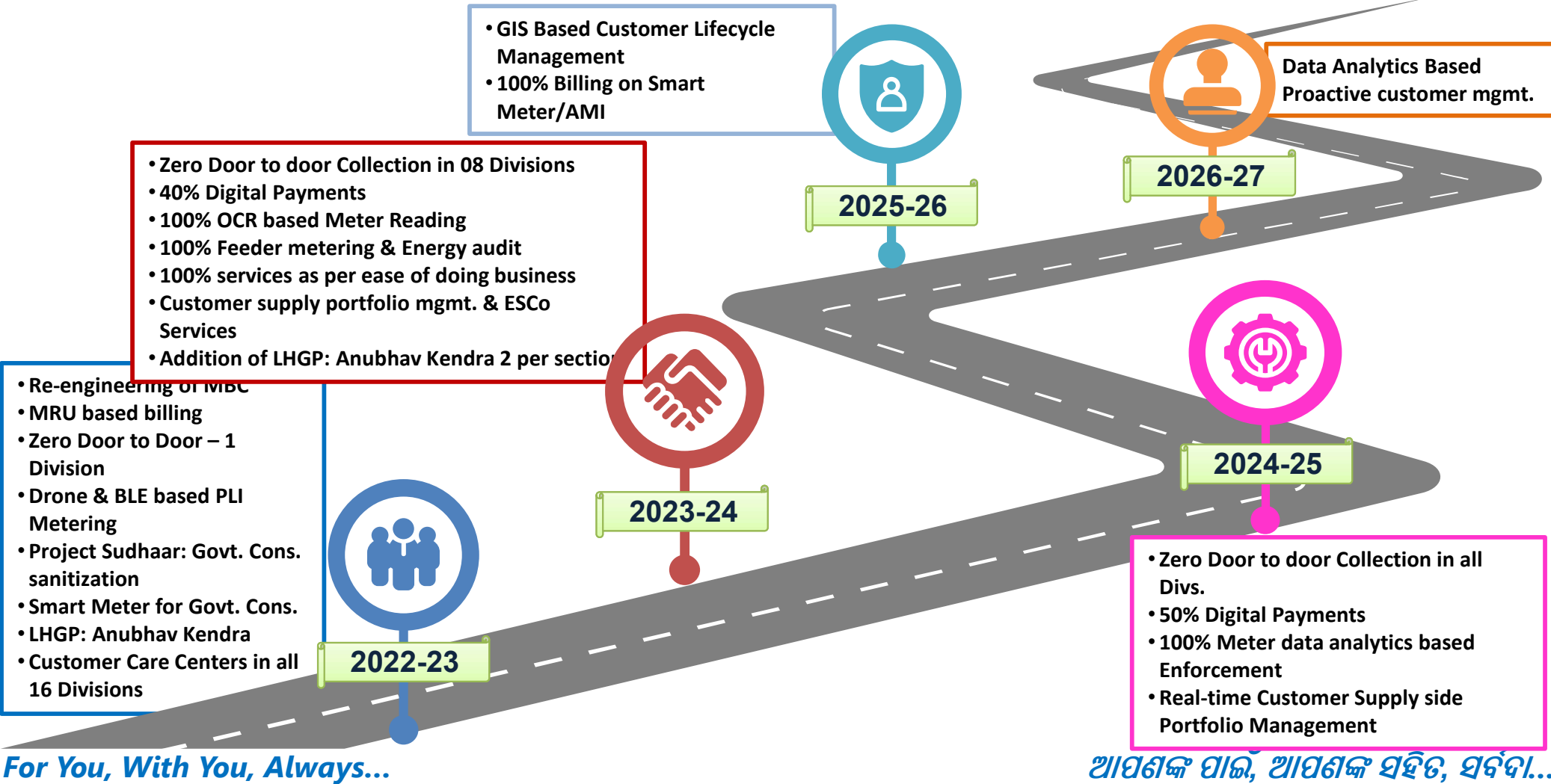
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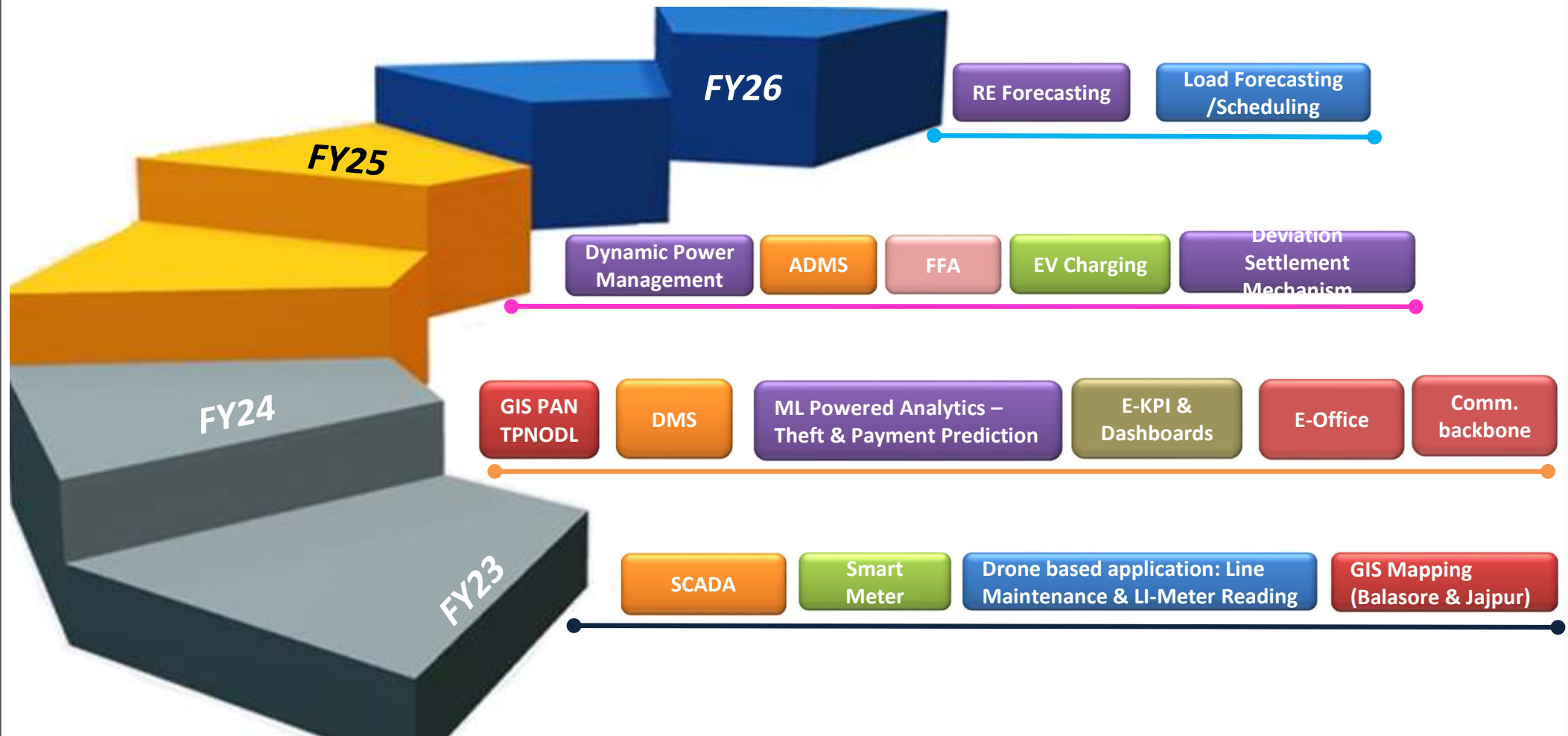
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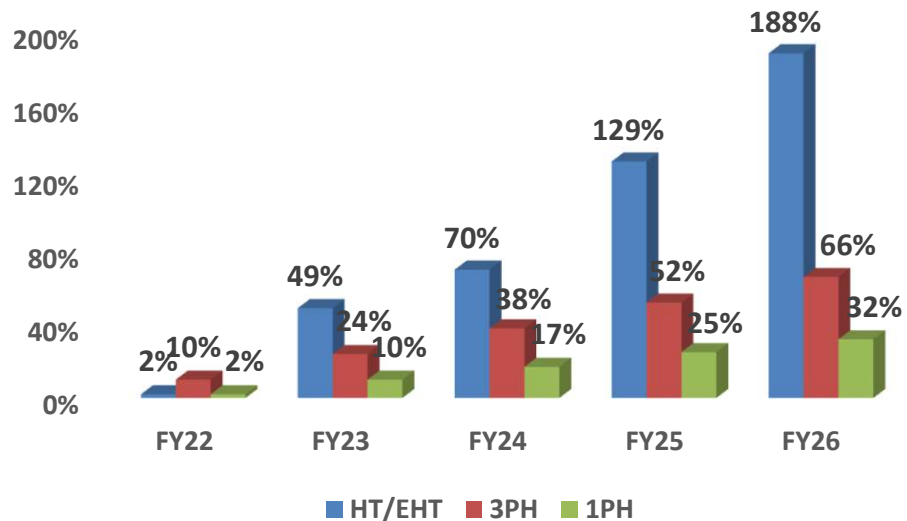


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## Category wise Load Growth Projection



### ☐ Mitigation plan for Load Growth:

- 10 Nos. of Grid Stations proposed to OPTCL
- 21 Nos. PSS under WIP in ODSSP Ph-IV Schemes
- 17 Nos. (148 Ckt. Km) new line proposed in ODSSP Ph-IV
- New 33 & 11KV Lines proposed under CAPEX Schemes

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Year	Category wise Load Growth EHT/HT (MW)	Balasore	Baripada	Bhadrak	Jajpur	Keonjhar	Total
FY23	Applied	76.5	25.6	2.5	181.5	107.8	393
	Pipeline	3	46	-	87.5	12	148.5
	Total	79.5	71.6	2.5	469	119.8	542.4
FY24	Applied	5	5.9	6	252.9	94.3	364
	Pipeline	5	7	47.5	47.7	89	196.2
	Total	10	12.9	53.5	100.6	183.3	560.3
FY25	Applied	12	-	-	248	94.4	354.4
	Pipeline	-	-	10	85	110	205
	Total	12	0	10	333	204.4	559.4
FY26	Applied	21.8	-	-	-	45	66.8
	Pipeline	-	-	130	146	162	438
	Total	21.8	0	130	146	207	504.8

**1-ph load growth: Considered 9% in FY 24 over 4% in FY 23**

**3-ph load growth: Considered 14% in FY24 over 9% in FY23 due to load enhancement/conversion from 1-ph to 3-ph**

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Number of WSHG Engaged

• 272  
Nos.

New SHG signed MoU & ready

• 60  
Nos.

No. of SHGs in discussion

• 121  
Nos.

### Vocational Training Centre, Balasore

• Inaugurated on 2<sup>nd</sup> September by MD, Tata Power, Dr. Praveer Sinha

	No. of students	No. of training hours (per course)
Stitching	96	3312
Beautician	41	1886
Computer	88	3036
TCS	48	4080
Total	273	12314



Total no. of employee volunteers:



Total no. of volunteering hours: 1335



Activities undertaken: Van mahotsav, visit to

### Mobile Health Camp

- 150+ Health Camps completed in remote tribal areas of Mayurbhanj District
- New Mobile van inaugurated for Keonjhar circle
- 10,000+ patients attended & treated



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The Original Business Leader of the Year Award



CSR Leadership Award



CII Award - 35th State Level Convention on Quality Circle



CCQC National Won 3 Par Excellence & 6 Excellence



Focused CEO of the year award at ET HCA



Gold Award "Excellence in Change Management" at ET HCA





# Aggregate Revenue Requirement for FY 2023-24





Particulars	FY 2022-23 Approved	FY 2022-23 Dec' 22 Actual	Estimated FY 2022-23	Increase/ Decrease	Projection FY 2023-24
<b>Sales (MU)</b>					
EHT	1680.00	1864.13	2497.22	817.22	2953.30
HT	500.00	465.85	632.81	132.81	685.58
LT	2735.30	1787.85	2342.44	-392.86	2607.76
Total	4915.30	4117.82	5472.48	557.18	6246.64
<b>Sales Mix</b>					
EHT	34%	45%	46%	↑ 11%	47%
HT	10%	11%	12%	↑ 2%	11%
LT	56%	43%	43%	↓ -13%	42%
Total	100%	100%	100%	0%	100%
(EHT + HT)	44%	57%	57%	↑ 13%	58%

Favourable consumer mix due to:

- LT Consumption reduced due to enhanced enforcement activities and reduction of provisional billing
- 69 MVA additional HT/EHT sales on special tariff
- New HT/EHT load of 73.3 MW
- Addition of 76.4 MW owing to revival of NINL, Balasore Alloys, Tata Steel Ferro Alloys



Category	FY 2022-23 (Estt.) (MU)	FY 2023-24 (Proj.) (MU)	Increase (%)
LT	2342.44	2607.76	11.33%
HT	632.81	685.58	8.34%
EHT	2497.22	2953.30	18.26%
TOTAL	5472.47	6246.64	14.15%

## ▪ Projected Growth in LT:

- 11% growth estimated in domestic category, considering growth under different Govt schemes (PMAY) as well as normal growth.
- 13% growth estimated in Allied Agro & Allied Agro Industrial category considering prawn cultivation in a large scale in the coastal areas
- 11% overall LT growth estimated in FY24

## ▪ Projected Growth in HT:

- Revival of industries in post pandemic scenario and cultivation of prawn in coastal area leading to growth of processing industries.
- 8% growth in HT Category estimated for the ensuing year (4% growth in HT Large Industries and 19% growth in HT other category)

## ▪ Projected Growth in EHT:

- Estimated 49% growth in current year and 18% growth in ensuing year due to revival of high value consumers like M/s Balasore Alloys, M/s. Jabamayee, M/s. NINL, M/s. Stork Ferro Alloys.
- Assuming continuation of special tariff provision, considered impact thereof



Particulars	OERC Approved for FY 2021-22	FY 2021-22 (Actual)	FY 2023_H1	OERC Approved for FY 2022-23	FY 23_Total (Estimated)	FY 2023-24 (Estimated)
Input (MU)	5880	5327.04	3342.86	6020	6702.36	7458.90
Sales (MU)						
EHT	1696.49	1676.03	1136.30	1680	2497.22	2953.30
HT	415.60	503.27	319.91	500	632.81	685.58
LT	2688.93	2167.71	1269.09	2735.30	2342.44	2607.76
Total	4801.02	4346.99	2725.29	4915.30	5472.48	6246.64
T&D Loss (%)	18.35	18.40	18.47	18.35	18.35	16.25
Collection Efficiency(%)	99	94.20	98.87	99	99.00	99.00
AT & C Loss (%)	19.17	23.13	19.40	19.17	19.17	17.09

TPNODL has projected AT&C loss as determined by Hon'ble OERC for FY24, as compared to 20.80% committed in vesting Order





Sl. No	Particulars	April to Sept '22	Oct to March'23	Total Estimation for the FY 2022-23	Projection for FY 2023-24
1	Power Purchase (MU)	3342.86	3359.50	6702.36	7458.90
2	BSP (In ₹Crs)	1073.06	1078.4	2151.46	2394.31
3	Transmission Charges (In ₹Crs)	93.60	76.69	187.67	208.85
4	SLDC Charges (Per annum) (In ₹Crs)	0.54	0.54	1.08	1.08
5	Total Power purchase Cost (In ₹Crs)	1167.20	1155.63	2340.20	2604.24

Particulars	FY 22-23 Approved	FY 22-23 Dec'22 Actual	FY 22-23 Estimated	FY 23-24 Projection
Existing Employees (Erstwhile Utility)	373.04	246.79	377.4	409.12
New Recruitments	44.76	54.03	66.17	92.37
<b>TOTAL</b>	<b>417.8</b>	<b>300.82</b>	<b>443.57</b>	<b>501.49</b>
Less: Capitalisation	23.95	4.72	15.52	16.58
<b>Net Total</b>	<b>393.85</b>	<b>296.10</b>	<b>428.05</b>	<b>484.91</b>

## Terminal Benefits

Particulars	2022-23 (In ₹ Crs)	2023-24 ( In ₹ Crs)
Provident Fund	12.91	14.50
Pension	155.96	157.74
Gratuity	24.41	23.49
Rehabilitation	0.64	0.64
Leave Salary	20.44	19.52
<b>Total</b>	<b>214.37</b>	<b>215.91</b>

- As per new Tariff Regulation, actual employee cost incurred for erstwhile employee is pass through.
- New recruitments have been restricted to 1.40/000 consumers as directed by Hon'ble OERC.
- New recruitments have been inducted in new positions of safety, network planning group, maintenance planning group, corporate operation, sub-transmission system, PSCC and commercial group, customer care to ensure better reliability, customer services and lower AT&C Loss.

Particulars	FY 22-23 Approved	FY 22-23 Dec'22 Actual	FY 2022-23 Estimated	FY 23-24 Normative	FY 2023-24 Projection	Increase / Decrease
Civil repairs & maintenance	141.43 (109.43 Crs for own asset+32 Crs for Govt. asset)	0.01	1.05	186.05	1.92	71.15
Distribution line repairs & maintenance		162.13	226.21		237.13	
Transformer maintenance		7.99	17.89		17.89	
Other repairs & maintenance		0.29	0.25		0.25	
<b>TOTAL</b>	<b>141.43</b>	<b>170.42</b>	<b>245.4</b>	<b>186.05</b>	<b>257.19</b>	<b>71.15</b>

Sl. No.	Gross fixed assets(GFA) for FY 2023-24	In Crs.	Justification for Increase		
	<b>DISCOM'S ACCOUNT</b>		<b>Reasons</b>	<b>Justification</b>	<b>Impact</b>
1	DISCOM's Gross fixed assets(GFA) as on 01.04.2023	2778.83	Performance based AMC contract of 33KV/11KV/LT	Attending to all operation complaints within PA timelines Preventive & Condition Based Maintenance to improve performance of Network Assets	1. Reduction in Tripping by 23% in 33KV and by 31% in 11KV tripping 2. Reduced Power Transformer Failure by 78% 3. Reduced Distribution Transformer Failure by 18%
	Rate of R & M on GFA	0.045			
	R&M on GFA	125.04			
2	Govt. (Funded/Grant) Assets as on 01.04.2023	357.31			
	Rate of R & M on Govt. (Funded/Grant) Assets	0.03	Same expenditure incurred on DISCOM and Govt. assets	Similar infrastructure, manpower, material used for maintaining Govt. and DISCOM assets	1. Better reliability and service PA
	R&M on Govt. funded Assets	10.72			
	<b>GOVT. (OPTCL) ACCOUNT</b>				
3	Govt. (Funded/Grant) Assets as on 01.04.2023	1675.95			
	Rate of R & M on Govt. (Funded/Grant) Assets	0.03			
	R&M on Govt. funded Assets	50.28			
	<b>Total R &amp; M</b>	<b>186.04</b>			

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Particulars	FY 22-23 Approved	FY 22-23 Dec'22 Actual	FY 22-23 Estimated	FY 23-24 Normative	FY 23-24 Projection	Increase/Decrease
Rent , Rates and Insurance	84.23	5.72	5.89	90.13	7.19	109.09
Communication		1.03	0.2		0.24	
Professional Charges		7.64	6.99		8.64	
Conveyance & Travelling		10.09	13.68		16.13	
Meter reading, billing & collection		57.42	84.21		101	
Training		0.28	0.74		3.93	
Expenditure on IT - Automation		0.84	6.39		12.39	
Other Expenses		28.71	32.75		49.7	
<b>Total</b>	<b>84.23</b>	<b>111.73</b>	<b>150.84</b>	<b>90.13</b>	<b>199.22</b>	<b>109.09</b>

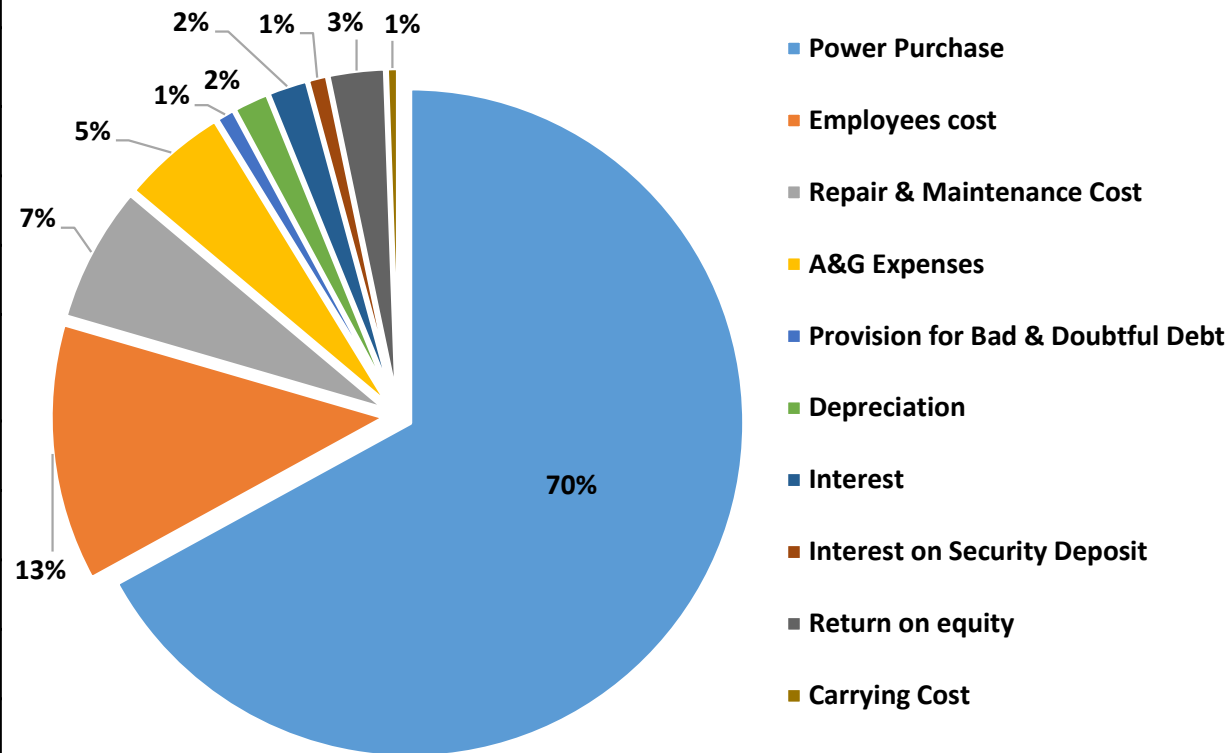
## Justification for increase

Reasons	Justification	Impact/Achievement
Separate billing and collection contracts	To enhance billing and collection coverage, Reduction in AT&C losses.	<ol style="list-style-type: none"> <li>Achievement in billing coverage: 93.8%</li> <li>Achievement in collection coverage: 68%</li> <li>Reduced AT&amp;C Loss to 16.09% till Q3FY23</li> <li>Past arrear collection 182 Crs till Q3FY23 &amp; Rs 191 Crs in FY 22</li> <li>Reduced in Provisional Billing to 7.32 %</li> </ol>
Strengthening of Enforcement squads	Arresting pilferage of energy, Reduction in AT&C losses,	<ol style="list-style-type: none"> <li>Enforcement Load Booked 73MW till Q3FY23 &amp; 72 MW in FY 22</li> <li>Amount Collected Rs.25.19Crs till Q3 FY23 &amp; Rs 20 Crs in FY 22</li> </ol>
Customer Care Centers / Anubhav Kendras	Increasing Consumer Convenience, One Stop Solution, Additional Avenues for Payment	<ol style="list-style-type: none"> <li>Reduction in Consumer Redressal Time</li> <li>Resolution of Number of Billing &amp; Meter Related Complaints.</li> <li>Digital Coverage</li> </ol>
IT/Automation	AMC of FG Software & SAP	<ol style="list-style-type: none"> <li>OCR Based Billing initiated in 100 %</li> <li>100% Online Collection</li> <li>Automated Customer Lifecycle Management</li> <li>Centralised Financial Governance</li> </ol>





Particulars	Amount (₹ Cr.)
Power Purchase	2604.24
Employees cost	484.9
Repair & Maintenance Cost	257.19
A&G Expenses	199.22
Provision for Bad & Doubtful Debt	35.03
Depreciation	66.89
Interest	74.66
Interest on Security Deposit	36.03
Return on equity	106.14
Carrying Cost	21.49
Less: Miscellaneous Receipt	178.45
<b>Total Revenue Requirement</b>	<b>3707.34</b>





₹ Cr.

Sl.No.	Revenue Requirement	FY 2022-23 (Approved)	FY2022-23(Estimated)	FY2023-24 (Projected)
1	Power Purchase Cost	2102.06	2340.20	2604.23
2	Employee Cost	393.85	428.05	484.89
3	Repair & maintenance Cost	141.43	245.40	257.19
4	Administrative & General Expenses	84.23	150.84	199.22
5	Provision for bad & doubtful debts	16.02	30.81	35.03
6	Depreciation	44.66	42.15	66.89
7	Interest on Loan	31.98	49.55	74.66
8	Interest On security Deposit		32.63	36.03
9	Return on equity	40	78.72	106.14
10	Carrying Cost	0	9.09	21.49
11	Total Revenue Requirement	2854.23	3407.44	3885.77
12	Non Tariff Income	154.15	175.80	178.44
13	Revenue Requirement	2700.08	3231.64	3707.34
14	Revenue from sale of Power	2701.03	3081.84	3503.14
15	REVENUE GAP	0.95	-149.80	-204.20



## Capital Expenditure as per Vesting Order (Crs)

FY 22	FY 23	FY 24	FY 25	FY 26	Total
246	376	259	247	141	1270

## CAPEX Proposal –FY 2023-24

Sl. No.	Major Categories	Original Capex Plan FY 2023-24	Revised Capex Plan FY 2023-24 (After Board Approval)
1	Statutory & Safety	49.41	49.41
2	Loss Reduction	63.41	56.61
3	Reliability	168.69	118.06
4	Network Optimization & Load Growth	183.81	102.14
5	Technilogy & Civil Infrastructure	167.64	121.6
6	Reducing Carbon Footprint	4.98	4.98
	Total	637.94	452.80



# Truing-Up for FY 2021-22



Expenditure	Approved by OERC (26.3.21)	Further Cost allowed by OERC (3.11.21)	Total approval by OERC for FY 21-22	Actual (Audited) Parameters	True up Considering Normative T&D loss 18.35%
INPUT(MU)	5880		5880	5327.04	5378.01
Cost of power purchase	1881.6		1881.6	1705.44	1720.96
Transmission Cost	164.64		164.64	149.04	150.58
SLDC Cost	1.01		1.01	1.02	1.02
Less : Rebate				-18.74	-18.72
<b>Total Power purchase Cost(A)</b>	<b>2047.25</b>		<b>2047.25</b>	<b>1836.76</b>	<b>1853.85</b>
Employee Cost	357.24		357.24	436.79	486.55
Repair & Maintenance Cost ( Net off Govt. Grant Amortisation)	114.23	33.26	147.49	117.66	117.66
Administrative & General Expenses	49.2	29.52	78.72	105.24	105.24
Provision for bad & doubtful debts	14.84		14.84	25.56	25.56
Depreciation( Net off Govt. Grant - Cons. Contbn Amortisation)	32.86		32.86	23.62	23.58
Interest on loan including interest on SD	26.78		26.78	45.23	58.92
Interest on Term Loan (normative)					3.56
<b>Total Operation &amp; Maintenance and Other Cost</b>	<b>595.15</b>		<b>657.93</b>	<b>754.10</b>	<b>821.06</b>
Return on equity	40		40	0.00	43.60
Income Tax				24.86	24.86
<b>Total Distribution Cost</b>	<b>635.15</b>		<b>697.93</b>	<b>778.96</b>	<b>889.52</b>
Less Miscellaneous Receipts	137.42		137.42	161.09	140.43
<b>Net Distribution Cost(B)</b>	<b>497.73</b>		<b>560.51</b>	<b>617.87</b>	<b>749.09</b>
Total Revenue Requirement	2544.98		2607.76	2454.63	2602.94
<b>Actual Revenue</b>	<b>2545.61</b>		<b>2545.61</b>	<b>2555.72</b>	<b>2555.72</b>
<b>SURPLUS/(GAP)</b>	<b>0.63</b>		<b>-62.15</b>	<b>101.09</b>	<b>-47.22</b>



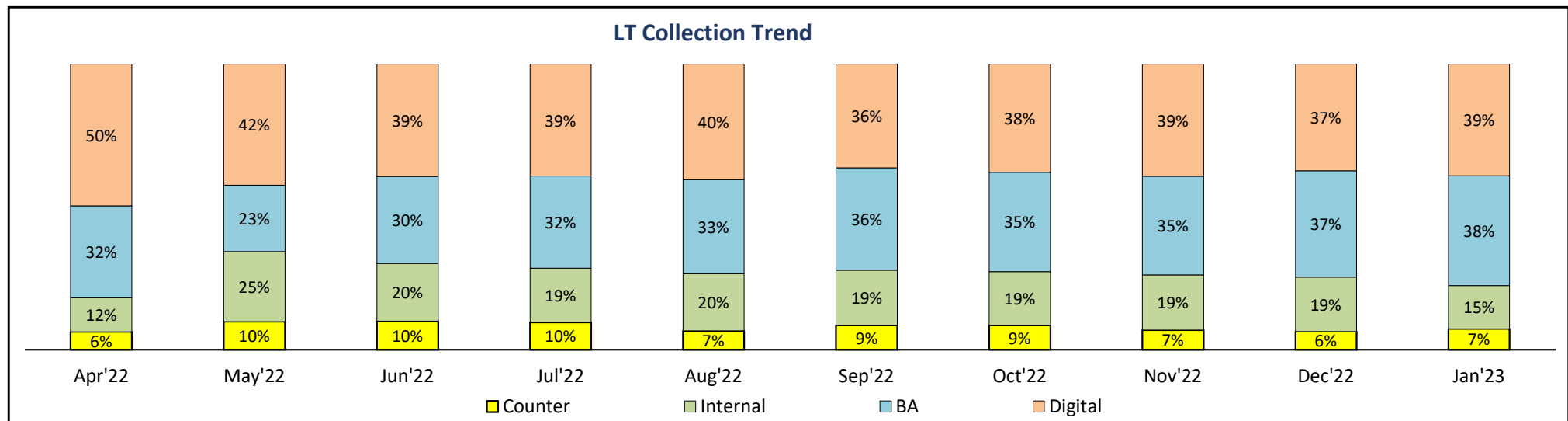
# Tariff Rationalization Measures



### Incremental Digital Rebate from 3% to 4% for LT Domestic, LT GP Single phase & Single phase Irrigation consumers

Hon'ble Commission has been pleased to consider the prayer of the licensee and increase the applicable Digital rebate from 2% to 3% in FY 23. By this an increase in digital payment has been 41%. A comparative figure is given hereunder.

**This is motivating shift in culture from door to door collection to digital collection mode thereby reducing the corresponding A&G cost of collection significantly.**



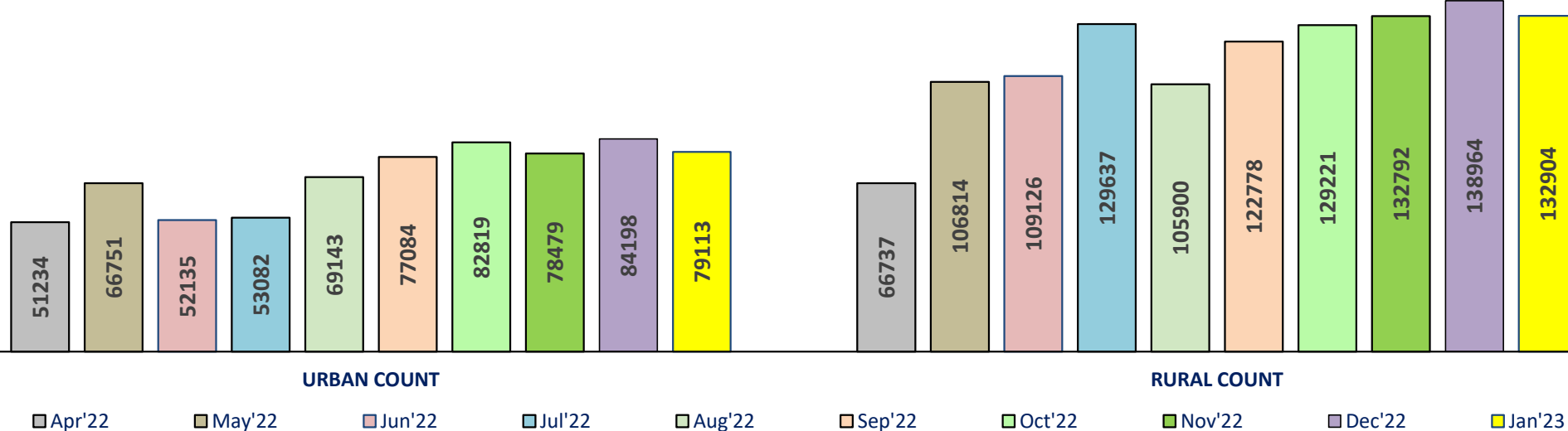
**Prayer: Hon'ble Commission is requested to consider increasing the digital payment rebate from 3% to 4% for LT Domestic, LT GP Single phase & Single phase Irrigation consumers.**



## Incremental Digital Rebate to Rural Consumers

Due to introduction of multiple digital payment avenues like My Tata Power App, Airtel Payment Bank tie up, Spice Money tie up, tie up with SBI, BBPS and other UPI facilities, there has been a significant boost in rural digital payments.

Digital Transaction Count URBAN Vs RURAL



Additional 2% digital payment rebate to LT Domestic Rural consumers will encourage the rural LT Domestic consumers for digital payment, thereby reducing the incidental A&G cost for door to door collection from the consumers.

**Prayer: Hon'ble Commission is requested to consider incremental digital payment rebate for rural LT Domestic consumers.**

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### Continuity of Special Tariff for Existing Industries having CGP if assured 80% LF of existing CD

To promote industrial growth and development of State economy , Hon'ble Commission has extended a provision under Annexure –B –Point No-(vii) of RST Order FY 22-23 as under:

*“(vii) Any industry having CGP with CD upto 20MW willing to avail power from DISCOMS upto double the CD shall be allowed to draw power without payment of overdrawl penalty. For this purpose, the industry has to operate at minimum CD of 80% for the entire month. The applicable charges for incremental energy drawl beyond CD shall be Rs.4.30per KVAh.....”*

Under the above provision , the details of power availed by industries furnished in the following table

Addition Billing (MU) / Revenue (In ₹ Crs) due to Special Tariff						
Name of Consumer (EHT)	Category	Normal Billing MU (As per Trend)	Additional Billing MU (Due to Special Tariff)		Additional Revenue (In ₹ Crs.)	
			Current Year	Ensuing Year	Current Year	Ensuing Year
Jindal Stainless Ltd	Large	80.819	143.826	191.658	67.46	88.96
Visa Steel Ltd	Large	110.925	113.978	134.769	49.29	58.58
Jindal Steel & Power Ltd	Heavy	25.713	124.295	185.142	61.17	91.18
Facor Ltd	POI	40.731	96.807	129.56	45.27	60.73
Total		258.188	478.906	641.129	223.19	299.45

**Prayer:** Hon'ble Commission is requested to allow the above provision to continue for FY 23-24

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**Continuity of Special Tariff for existing Industries having CGP with CD>20MW with minimum offtake 80% of existing CD**

- ❑ Special provision allowed by Hon'ble Commission for sale of surplus power of GRIDCO through tripartite agreement vide clause (viii) of Annexure-B OF RST Order FY 23 as reproduced below;

*“ Any industry having CGP willing to avail power from DISCOM and operating at load factor more than 80% shall be allowed to draw power at the rate not less than Rs.4.30/ KVAh for all incremental energy drawl above 80% Load factor. No overdrawl penalty shall be levied on them. Any industry having CGP without CD availing emergency power only can also get this benefit for incremental energy above emergency drawl. For this purpose, the industry shall enter into a tripartite agreement with DISCOM and GRIDCO.” -----*

- ❑ In absence of firm power , GRIDCO and DISCOM filed before Hon'ble Commission for approval of infirm power price till firm power is available. The modalities and price was decided by Hon'ble Commission vide order dated 18.5.2022 in Case No-25 of 2022 as **Rs.4.75/ unit**
- ❑ The intention of the scheme was to sale the surplus power of the state to industries inside the state –so that they can avail cheaper power and avoid open access.

**Prayer: Hon'ble Commission is requested to allow the above provision as decided vide order dated 18.5.22 to continue in FY 23-24 for consumers having CGP with CD>20MW and minimum offtake of 80%**



Special tariff for existing industries who have no CGP for drawl of additional power beyond CD of 10MVA ( for non-CGP Industries connected in 33kV or above)

- ☐ Industry to ensure minimum off take of 85% LF of existing CD
- ☐ Load reduction shall not be allowed during the financial year
- ☐ Power so consumed under this agreement may be treated as surplus power of GRIDCO and may be considered over and above the approved quantum in ARR including SMD.
- ☐ Interested industry has to pay a flat rate for additional energy so consumed beyond 85% LF of existing CD
- ☐ Consumption upto CD –to be billed under RST
- ☐ No demand charges for additional drawl beyond existing CD
- ☐ At 33kV Level, the permissible limit of drawl is 15,000 KVA, but licensee may be allowed discretionary power to allow beyond **15MVA** on special grounds to accommodate the additional demand of consumer beyond CD (>10 MVA) subject to adequacy of system availability.

**Prayer: Hon'ble Commission is requested to consider the submission made by the licensee**

**Special Tariff for Industries for Temporary business requirement**

- ☐ Temporary supply is permitted under existing regulation for which provision of 10% higher Energy Charge is there
- ☐ The licensee is having around 21 industries with CGP . During outage/maintenance of the units , they require additional load for a short duration of some months
- ☐ Such units are not willing for load enhancement for this requirement as reduction of load is having certain restrictions.
- ☐ To meet the above requirement of such industries, the licensee proposed before Hon'ble Commission
  1. To approve such temporary additional load beyond CD for short duration of maximum three months
  2. In such event the industry to bear 10% higher charge both on normal Demand charge and Energy Charge component
- ☐ The above consumption to be accommodated by the licensee well within its approved/permited SMD

**Prayer: Hon'ble Commission is requested to consider the submission made by the licensee**

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## Special Tariff for drawl of RE Power with Premium Rate

Approved RE Drawl _FY 22-23	Percentage w.r.t. total drawl of DISCOMs
3312.22MU	14.75%

- ☐ If the available RE power will be allocated to DISCOMs, DISCOM can provide certificate to intending consumers opting for 'Green Tariff', without consent or approval from GRIDCO.

Particulars	TPNODL	TPCODL	TPWODL	TPSODL	Total
Approved Input FY 22-23(MU)	6020	9790	9300	4390	29500
Allocation of RE Power to DISCOMs (MU)	683	1071	1094	463	3312

- ☐ Reconciliation can be made at the end of FY depending on actual availability
- ☐ Licensee proposes premium charge of 25 paise per unit over and above the normal charges in place of 50 paise per unit, as per approved Tariff order.
- ☐ No consumer has approached for Green Tariff at the approved rate.

**Prayer: Hon'ble Commission is requested to consider the submission made by the licensee**

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**Levy of CSS & Wheeling Charges on consumers availing power through Open Access from RE sources**

- ❑ To allow 50% exemption on Cross subsidy surcharge and 25% exemption on wheeling charges on OA from RE projects developed inside the State and sanctioned/commissioned in line with Odisha Renewable Energy Policy'2022.
- ❑ To continue levy of Cross subsidy surcharge and wheeling at par with Open access from conventional energy sources for availing power from RE Projects developed outside the state

**Prayer: Hon'ble Commission requested to issue necessary direction**



### Revision of Meter rent for Smart Meter

- The Hon'ble Commission permitted the recovery of Smart meter cost through monthly meter rent.
- At present, in terms of the extant Regulations, TPNODL recovers an amount of Rs. 1500/- (Meter Cost - Rs. 1271 + Rs. 229 GST) under Mo Bidyut towards installation of Single-Phase meter while providing new connection.

Further, Regulation 113 (v) of OERC Distributions (Conditions of Supply) Code, 2019, provides as follows:

*“In case the licensee/supplier replaces the meter due to technological up-gradation, the cost of the old correct meter already recovered through meter rent shall be deducted from the cost of new meter and the balanced amount may be recovered through meter rent on pro-rata basis “*

- Accordingly, the licensee can recover only the differential cost through meter rent on prorata basis on replacement of existing Static Meter with Smart meter.
- The cost of Single-Phase Smart Meter would be around Rs. 4200/- (with GST) including installation needs to be recovered from the consumer.
- if the recovery period from 60 months to 90 months would be permitted then the cost can be fully recovered, instead of increase it substantially

**Prayer: Hon'ble Commission is requested to allow to recover entire new connection cost as well as replacement cost of defective meter may be permitted through Smart Meters only.**



## Revision of Reconnection charges with penalty clause

Category	Prior to 1 <sup>st</sup> April 2012	Continuing since 1st April 2012	Proposed Reconnection charges
LT Single Phase Domestic Consumer	Rs.75/-	Rs.150/-	Rs.300/-
LT Single Phase other consumer	Rs.200/-	Rs.400/-	Rs.800/-
LT 3 Phase consumers	Rs.300/-	Rs.600/-	Rs.1200/-
All HT & EHT consumers	Rs.1500/-	Rs.3000/-	Rs.6000/-

It is submitted that the reconnection charges w.e.f. 01.04.2022 is continuing since last 10 years even though BST and RST of DISCOMs have increased no of times.

**Prayer: Hon'ble Commission is requested to allow the Reconnection charges as per the proposed rate.**

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## Creation of disaster resilient Corpus Fund

Name	Lowest Pressure(mbar)	Year	Winds(km/hr)
Odisha Cyclone	912	1999	276
Phailin	940	2013	215
Hudhud	950	2014	185
Titli	978	2018	110
Fani	932	2019	250
Amphan	920	2020	260
YAAS	970	2021	140

- It can be seen from the history that Odisha is prone to the natural disastrous cyclones which effected erstwhile NESCO in a very bad manner and will surely a major natural challenge for TPNODL.
- All the operating 5 districts (Balasore, Mayurbhanj, Bhadrak, Jajpur, Keonjhar) fall under the very high damage risk zone.
- Balasore, Jajpur, Bhadrak and Keonjhar (some part) of Licensee has experienced flood.

Source: [https://en.wikipedia.org/wiki/List\\_of\\_tropical\\_cyclones\\_that\\_affected\\_India](https://en.wikipedia.org/wiki/List_of_tropical_cyclones_that_affected_India)

**Prayer:** In view of the above it is the humble submission of DISCOM a separate charge of Rs.2 per month may kindly be allowed to be recovered from all the consumers through energy charges.

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## Considering Actual LF for the category during assessment of unauthorized drawl

As per regulation 161 of OERC Distribution (Condition of Supply) Code,2019, the assessment of energy consumption for the duration of unauthorised use shall be done as per the formula:

Units assessed= LXHXF

Where, L=Connected load in Kw,

H= No. of hours of the period of assessment

F=Load factor as prescribed under regulation 52

### Case Study for assessing 1.5 KW AC load

Taking LF as per actual usage hrs	Taking LF as prescribed u/r 52
Considering usage of 6hrs per day, minimum consumption =1.5KWx6Hrsx30days=270Units	Considering LF of 10% as per regulation 52. =1.5KWx2.4X30=108units

In case if the meter reading is coming 200 units (say), the assessed units will be less that the reading shown the (tampered) meter.

**Prayer:** Hon'ble Commission is requested to allow considering actual average LF for that category for assessing the consumption, or 20% LF for domestic, 25% - Commercial & Industrial and 50% for continuous process units

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### Billing with Defective Meter

**The extant regulation of OERC Distribution (Conditions of Supply) Code, 2019 is appended below:**

*155) For the period the meter remained defective or was lost, the billing shall be done on the basis of average meter reading of the past three billing cycles immediately preceding the meter being found/reported defective. These provisional charges shall be leviable for a maximum period of three months during which time the licensee/supplier/consumer is expected to have replaced the defective meter. The provisional bill shall be revised as per the average of six consecutive billing after a new meter is installed. In no case the previous bill can be revised for more than two (2) years prior to the installation of new meter.*

**Challenges for Licensee with Existing Provision of OERC Distribution (Condition of Supply) Code, 2019 Regulation :**

- a) Consumers are not paying even the actual bill after replacement of defective meter unless the bill is revised. The licensee is helpless even collecting the actual bill from the consumer & has to wait for six consecutive billing cycle.
- b) In many cases consumers are desiring to revise the bill considering past actual consumption in corresponding period, but DISCOM can not violate the provision of law.
- c) Some are insisting for bill revision considering actual metering after one month's consumption.
- d) Most of the consumers are trying to control the consumption and tempted to use through other means with an intention to reduce the billing even though they have actually used during meter defective period.

**Prayer: Licensee humbly submits that, a practice direction may kindly be given in the RST order FY 23-24 for revision of the provisional bill in case of defective meter, considering past assessment based on corresponding period of previous year or the first full month's consumption after the replacement of the meter, with provision for adjustment as per final assessment after six months vide regulation**



TP Northern Odisha Distribution Ltd.



**Presentation on**  
**Application for Determination of Open Access Charges**  
**FY 23-24**  
**(Case No.87 of 2022)**

**Before Hon'ble**  
**ODISHA ELECTRICITY REGULATORY COMMISSION**  
**27<sup>th</sup> Feb, 2023**



Lighting up Lives!





**An application has been filed before Hon'ble Commission by TPNODL vide Case No-87/2022 with the following prayers:**

- ☐ Determination of Open Access Charges viz Wheeling Charges, Cross Subsidy Surcharge, Additional Surcharge & Stand by charges (as applicable) for the financial year 2022-23, in accordance with the para 22, 23, 24 & 25 of chapter 5 of OERC (Terms and Conditions of Intra state Open Access) Regulation, 2020, applicable to open access customers for use of intra-state transmission/ distribution system, in view of section 42 of the Electricity Act-2003.



Sl. No	Particulars	FY 2018-19			FY 2019-20			FY 2020-21			FY 2021-22			FY 2022-23 (upto Oct-22)		
		EHT	HT	Total	EHT	HT	Total	EHT	HT	Total	EHT	HT	Total	EHT	HT	Total
1	No. of Consumers availing power supply through open access	11	0	11	13	0	13	13	3	16	15	3	18	12		12
	Total units availed through Open access (in MU)	1250.69	0	1250.7	1333.89	0	1333.89	1477.86	44.261	1522.12	1530.104	19.032	1549.14	632.89		632.892
3	No. of Consumers liable to pay cross subsidy surcharge	7	0	7	9	0	9	11	3	14	12	3	15	11		11
	Total units on which C.S. Surcharge claimed (in MU)	67.24	0	67.24	101.81	0	101.81	366.956	44.145	411.101	361.527	16.005	377.532	185.81		185.808
5	Total units availed from RE (in MU)															



## STATEMENT OF CALCULATION OF WHEELING CHARGES FOR FY 2023-24

SI No	Particulars	Cost as proposed in the ARR for 2023-24 (In lakhs)
1	Operation & Maintenance Exp	62202
1.1	Employee Expenses	29094
1.2	Administration & General Exp	9961
1.3	Repair & Maintenance Exp	23147
2	Depreciation	6020
3	Interest on Long Term loan Capital	3550
4	Interest on Working Capital	352
5	Interest on Security Deposit	0
6	Interest on Power Bond	
7	Provision for Bad debts	
8	Contingency Reserve	0
9	Carrying cost	537
10	Return on Equity with Tax	9553
11	Non-Tariff Income	1784
11	Distribution Cost for Wheeling	80429.32
12	Wheeling charges (paise/ unit)	178

Particulars	EHT	HT	LT	Total
Total Sale (MU)-proposed for 23-24	2953	686	2608	6247
Input (MU)-Proposed for 23-24	2953	1046	3460	7459
Loss (MU)	0	360	852	1212
Input received in the system(MU)	7459	4506	3460	



## Calculation of Surcharge for EHT category of Consumers

Total EHT Sales proposed for FY 2022-23 in MU	Proposed Revenue from sale 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)	Regulatory Asset (P/KWH) (R)	Surcharge (P/KWH) (T - (C / (1 - L/100) + D + R))
2953.30	1802.83	610.45	349.17	0	0	0	261

## Calculation of Surcharge for HT category of Consumers

Total HT Sales proposed for FY 2022-23 in MU	Proposed Revenue from sale 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)	Regulatory Asset (P/KWH) (R)	Surcharge (P/KWH) (T - (C / (1 - L/100) + D + R))
685.58	453.29	661.18	349.17	178.05	8	0	104





TP Northern Odisha Distribution Ltd.



**Presentation on  
Approval of Business Plan for FY 2023-24  
(Case No. 10 of 2023)**

**Before Hon'ble  
ODISHA ELECTRICITY REGULATORY COMMISSION  
27<sup>th</sup> Feb, 2023**



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**An application has been filed before Hon'ble Commission by TPNODL vide Case No-10/2023 with the following prayers:**

- ☐ An application for approval of Business Plan under regulation 2.1 read with Annexure-I of OERC (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations, 2022.



S. No.	Particulars	UoM	FY 2023-24
1	SMD	MVA	1500.00
2	Input	MU	7458.90
3	Billing (MU)	MU	6246.64
a	EHT		2953.30
b	HT		685.58
c	LT		2607.76
4	Billing (Value)	₹ Crs	3503.14
a	EHT		1802.83
b	HT		453.29
c	LT		1247.01
5	Dist. Loss	%	16.25%
6	Collection Efficiency		99.00%
7	AT& C Loss		17.09%



Expenditure	FY 2023-24
<b>Power Purchase Cost (A)</b>	
Cost of Power	2394.31
Transmission Charges	208.85
SLDC Charges	1.08
<b>Total Power Purchase Cost</b>	<b>2604.24</b>
<b>Distribution Cost (B)</b>	
Employees cost	484.90
Repair & Maintenance Cost	257.19
Administrative & General Expenses	199.22
Bad & Doubtful Debt including rebate	35.03
Depreciation	66.89
Interest on loans	74.66
Interest on Security Deposits	36.03
Return on Equity	79.42
Tax on Return on Equity	26.72
<b>Total Distribution Cost</b>	<b>1260.07</b>
<b>Special Appropriation (C )</b>	
Carrying Cost @ 7.45%	21.49
True Up	-
Other, if any - contingency and prior period	-
Prior Period Item	-
<b>Total Special Appropriation</b>	<b>21.49</b>
<b>Total cost (A+B+C)</b>	<b>3885.79</b>
Less: Miscellaneous Receipt	178.45
<b>Total Revenue Requirement</b>	<b>3707.34</b>
Revenue from Tariffs (at Existing Rate)	3503.14
<b>(Deficit)/ Surplus at Existing Rate</b>	<b>-204.20</b>
Revenue from Tariffs (at Proposed Rate)	-
<b>(Deficit)/ Surplus at Proposed Rate</b>	<b>-204.20</b>

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Sl. No.	Major Categories	Capex Plan FY 2023-24
1	Statutory & Safety	49.41
2	Loss Reduction	56.61
3	Reliability	118.06
4	Network Optimization & Load Growth	102.14
5	Technology & Civil Infrastructure	121.60
6	Reducing Carbon Footprint	4.98
	Total	452.80





**In the aforesaid facts and circumstances, the applicant most humbly prays before the Hon'ble Commission to kindly :**

**The licensee most humbly prays before the Hon'ble Commission to kindly:**

- 1) Take the application of the licensee on record**
- 2) Approve the ARR for the FY 2023-24**
- 3) Bridge the GAP for FY 23-24 through increase in RST or reduction in Bulk Supply Tariff wherever possible**
- 4) Allow Tariff Rationalization Measures as proposed**
- 5) Approve the Open Access Charges for the FY 2023-24**
- 6) Approve the trueing –up petition of the licensee for the FY 2021-22**
- 7) Approve the Business Plan for the FY 2023-24**
- 8) Licensee craves leave for submission of further/additional reply as and when required**
- 9) Any other relief, order or direction which the Hon'ble Commission deems fit**



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# Thank You!

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