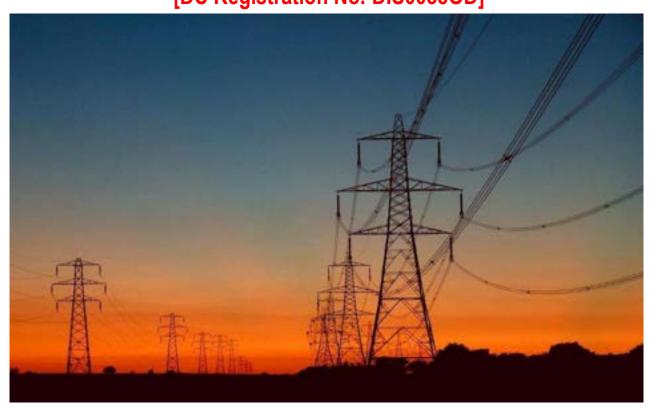
ANNUAL ENERGY AUDIT REPORT

OF TP NORTHERN ODISHA DISTRIBUTION LIMITED(TPNODL) [DC Registration No.-DIS0038OD]



Submitted to:

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Conducted by



M/s Zenith Energy Services Private Limited,

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- To.

The Secretary,

4th Floor, Sewa Bhawan,

R.K. Puram, New Delhi-110066

Ref: TPNODL/EA/BEE/2023-24/02

Dated: 31.07.2023

Subject: Submission of Annual Energy Audit Report and Energy Accounting Pro-forma of TP Northern Odisha Distribution LTD. for the FY 2022-23

Sir.

This is with reference to the Annual Energy Audit Report and Energy Accounting Report compliance, the TP Northern Odisha Distribution LTD. report for the FY 2022-23 (Apr'2022-Mar'2023) is submitted in the specified Pro-forma.

The duly signed copy is attached for your reference please. The hard copy is being sent separately.

Kindly acknowledge the same.

Thanks and Warm Regards

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TP NORTHERN ODISHA D 6TR BUT ON L M ITED

(A Tata Power and Odisha Government Joint Venture)



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ABBREVIATIONS

AMI	:	Advanced Metering Infrastructure
AMR	:	Automated Meter Reading
AT & C	:	Aggregate Technical and Commercial
BEE	:	Bureau of Energy Efficiency
CKT	:	Circuit Kilometer
CT	:	Current Transformer
DC	:	Designated Consumer
DISCOM	:	Electricity Distribution Company
DT	:	Distribution Transformer
EA	:	Energy Auditor
EHT	:	Extra High Tension
EHV	:	Extra High Voltage
EM	:	Energy Manager
FY	:	Financial Year
HT	:	High Tension
HVDS	:	High Voltage Distribution System
KVA	:	Kilo Volt Ampere
LT	:	Low Tension
MoP	:	Ministry of Power
MU	:	Million Unit
MW	:	Mega Watt
NO	:	Nodal Officer
OA	:	Open Access
POC	:	Point of Connection
PT	:	Potential Transformer
PVC	:	Polyvinyl Chloride
PX	:	Power Exchange
RE	:	Renewable Energy
RLDC	:	Regional Load Dispatch Centre
SDA	:	State Designated Agency
SLD	:	Single Line Diagram
SLDC	:	State Load Dispatch Centre
T&D	:	Transmission and Distribution
TPNODL		
ITHODE	:	Tata Power Northern Odisha Distribution Limited



ACKNOWLEDGEMENT

Zenith Energy Services (Private) Limited places on record its sincere thanks to management of TP Northern Odisha Distribution Limited (TPNODL) for entrusting the task of conducting Energy Audit of TPNODL.

ZESPL acknowledges with gratitude the wholehearted support and co-operation extended by Mr. Bhaskar Sarkar, CEO, TPNODL, Mr. Dushyant Kumar Tyagi (Chief-Commercial Services & CSR), Mr. Manish Kriplani (HoG-Energy Audit), Mr. Rakesh Singh (EM), Mr. Rahul Shukla (TL Energy Audit), Mr. Amit Kumar (HoG OT), Mr. Raja Banik (TL Finance) while carrying out the study at TPNODL.

ZESPL sincerely thanks to all the officials and staff members of TPNODL who have rendered their all-possible cooperation and assistance to the audit team during the entire period of the audit.



AUDIT TEAM DETAILS

The following team members of M/s. Zenith Energy Services Private Limited were involved in the Annual Energy Audit of TPNODL for FY 2022-23.

SI. No.	Organization	Team Member	Designation	Role
1		Mr.R.Gopala Krishna	Sr. Consultant Accredited Energy Auditor Regd. No. –AEA-0123	Project Head, Review of Data and Report
2	Zenith Energy Services (Private	Mr. D S R Krishna	Head (Energy Efficiency)	Inspection, Review of Data & Report
3	Limited)	Mr L.Radha Krishna	Sector Expert	Field Visit, Verification of Data and Report
4		Mr Ch Sai Shankar	Senior Energy Engineer	Field Visit, Compilation of Data and Report
5		Sri Sreenivasulu Gandla	DISCOM Expert and Energy Auditor EA- 9755	Data Verification and Report Preparation



CERTIFICATE

We certify the following:

- The data collection has been carried out diligently and truthfully.
- All data measuring devices used by the auditor are in good working condition, have been calibrated and have valid certificates from the authorized approved agencies and tampering of such devices has not occurred.
- All reasonable professional skill, care and diligence had been taken in preparing the energy audit report and the contents thereof are a true representation of the facts.
- Adequate training provided to personnel involved in daily operations for implementation of recommendations.
- The energy audit has been carried out in accordance with the BEE (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulations, 2021.



1.0 EXECUTIVE SUMMARY

TP Northern Odisha Distribution Limited (TPNODL) is a joint venture of Tata Power (51%) and Govt. of Odisha (49%) on the Public-Private Partnership (PPP) model. TPNODL licensed area is spread over geography of 27920 Sq.Km and serves a registered consumer base of 2.05 million. TPNODL has been carrying out the business of Distribution and Retail Supply Licensee. TPNODL has been carrying out the business of distribution and retail supply of electricity in the 5 districts of Odisha namely; Balasore, Bhadrak, Jajpur, Keonjhar and Mayurbhanj. The Company is operating through 5 Circles, 16 Divisions, 50 Subdivisions, 159 Sections with a Corporate Office based at Balasore. The business of TPNODL utility is governed by the provisions of license issued by Hon'ble Odisha Electricity Regulatory Commission (OERC) for business of distribution and retail supply of electricity in Northern Odisha.

TPNODL receives electrical power at 33kV level from 29 numbers of Grid Sub stations (GSS) and 9 nos. of Switching Stations located within the vicinity of TPNODL operational area. TPNODL distributes the power at 33kV / 11kV / 415V / 230V depending on the demand of the consumers.

Fact sheet of TPNODL:

The Fact sheet of TPNODL is furnished below.

Supply Area	27920 Sq.Km
Maximum Demand	1154.65 MVA
Power Transformer Installed Capacity	2615.8 MVA
No. of Distribution Transformer (DTs)	74726
Distribution Transformer (DT) Installed Capacity	2787 MVA
HT Mains-33 kV	3024 Ckt. KMs
HT Mains-11 kV	40188.5 Ckt. KMs
LT Mains	67486.44Ckt. KMs
Length of Aerial Bunched Cables	44786.44 KMs
Length of Under Ground Cables	401 KMs
Nos. of 33 kV Feeders	108
Nos. of 11 kV Feeders	825
Nos. of 33/11 kV Sub Station	236
Nos. of Power Transformers	550



The Energy and Performance Fact Sheet of TPNODL for the last 2 financial years is furnished below:

PARTICULARS	FY 21-22	FY 22-23
Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded) in MU	5327.04	6473.32
Total Sale (MU)	4346.99	5410.05
% of T&D Losses	18.40%	16.43%
T & D Loss (MU)	980.05	1063.27
Billing Efficiency (%)	81.60%	83.57%
Billing to Consumers (Rs. in Cr.)	2560.14	3203.91
Collection Received (Rs. in Cr.)	2411.66	3397.92
Collection Efficiency (%)	94.20%	106.06%
AT& C Loss (%)	23.13%	11.36%

Metering Status of TPNODL:

		FY 2021-22		FY 2022-23			
Category	Total	No. of Metering Completed	% of Metering Completed	Total	No. of Metering Completed	% of Metering Completed	
33 kV Feeders	98	98	100%	108	108	100%	
11 kV Feeders	797	545	68.38%	825	825	100%	
Distribution Transformers	72323	2208	3.05%	74726	2883	3.85%	
Consumers	2089083	2010760	96.25%	2041588	1999017	97.91%	



Abstract of Energy Bill Served by GRIDCO to TPNODL:

SI.No.	Month	SMD Approved by OERC(kVA)	SMD Permitted by OERC(kVA)	Actual SMD (kVA)	Total Energy Billed (MU)	Total Energy Sale (MU)	LOSS (%)	Total Energy Billed as per OERC (MU)	Total Energy Sale as per OERC (MU)	LOSS (%) As per OERC
1	Apr- 22	11,50,000	12,65, 000	11,22,526	552.103	427.016	22.66	551.981	427.016	22.66
2	May- 22	11,50,000	12,65, 000	10,51,347	547.362	425.935	22.18	547.228	425.935	22.18
3	Jun- 22	11,50,000	12,65, 000	11,54,650	566.214	489.565	13.54	566.183	489.565	13.54
4	Jul- 22	11,50,000	12,65, 000	11,58,898	546.623	428.311	21.64	546.623	428.311	21.64
5	Aug- 22	11,50,000	12,65, 000	10,55,120	561.813	485.385	13.60	561.812	485.385	13.60
6	Sep- 22	11,50,000	12,65, 000	11,05,519	568.748	432.97	23.87	568.730	432.97	23.87
7	Oct- 22	11,50,000	12,65, 000	10,01,333	555.275	490.661	11.64	555.161	490.661	11.64
8	Nov- 22	11,50,000	12,65, 000	10.41,264	485.779	456.25	6.08	485.761	456.25	6.08
9	Dec- 22	11,50,000	12,65, 000	10.61,664	492.153	423.962	13.86	492.100	423.962	13.86
10	Jan- 23	11,50,000	12,65, 000	9,67,918	512.859	432.46	16.07	512.487	432.46	16.07
11	Feb- 23	11,50,000	12,65, 000	9,99,265	501.359	430.562	14.12	501.191	430.562	14.12
12	Mar- 23	11,50,000	12,65, 000	10,88,962	583.035	486.975	16.48	582.578	486.975	16.48
TO	TAL	1,38,00,000	1,51,80,000	96,00,019	6,473.32	5,410.05	16.43%	6,471.84	5,410.05	16.43%

Note: GRIDCO is raising the invoice for the Total Energy Charges (Including the generator injection) for the TPNODL, while the OPTCL is raising the invoice for Transmission charges (Excluding the generator injection) to the TPNODL. Hence, the gap between GRIDCO & OPTCL Energy is on account of the Generator injection energy.

CALCULATION OF PAYBACK PERIOD:

Approved sale of TPNODL as approved by commission for FY 2022-23= 5410.05 MUCalculated

T&D Loss of TPNODL for FY 2022-23= 16.43%

Target T&D Loss as approved by Hon'ble OERC for FY 2022-23 = 18.35%

So, Targeted Annual Energy Savings in Mus (wrt. FY2021-22) = 5410.05*(18.35-16.43) = 103.87 MUs

Approved Bulk Supply Price of GRIDCO for FY 2022-23= 3.21 per Unit

Approved Transmission Tariff of OPTCL for FY 2022-23= 0.28 per Unit

Hence financial saving of TPNODL due to T&D loss reduction= (3.21+0.28) *103.87/10=36.25 Crores

Total investment approved by Hon'ble OERC for T&D Loss = 326.54 Crores

Simple Payback period = TOTAL INVESTMENT / SAVINGS = 326.54/36.25= 9 Years



SYSTEM ADEQUACY & NETWORK PLANNING FOR LOAD GROWTH OF TPNODL:

Since the present network is overloaded and due to increase in the consumer base of EHT and HT network TPNODL proposed to undertake the following projects and the estimate cost is shown against each project.

Major Category	Activity	Amount (in Cr.)
	Augmentation Power Transformers	4.98
	Augmentation of Distribution Transformers	20.81
	Addition of LT lines	13.66
Load Growth	Addition of 11 kV Lines (O/H and U/G)	16.98
Load Growth	Addition of 33 kV Overhead Lines (O/H and U/G)	10.87
	Addition of New PTR and New DTRs along with Associated HT/LT lines	15.58
	Provision for Nua Balasore Project	10.00
	Total	92.88

Major Category	Activity	Amount (in Cr.)
	Fencing of Distribution substations	2.34
Statutory & Safety	Boundary wall for Primary substations	3.96
Statutory & Salety	Development of training infrastructure for safety & strengthening of LOTO system	3.05
	Total	9.35

Major Category	Activity	Amount (in Cr.)
	Installation of AMR meters at Distribution transformers.	4.50
	Conversion of LT Bare conductor to AB Cable	4.93
	Meters and metering equipment for energy audit	1.19
Loss Reduction	Equipment for Meter data downloading	0.46
	Equipment for AMR enablement of 3 phase consumer meters	0.45
	Field Testing equipment - Metering (Portable Calibrator)	1.00
	Total	12.53

Major Category	Activity	Amount (in Cr.)
	Conversion of 2nos PSS from AIS to GIS	20.40
	Conversion pole mounted DTR to plinth mounted (100 KVA and above)	3.52
	Height enhancement of the lines at river crossing	4.50
Disaster Mitigation	Strengthening of poles in the cyclone prone area	2.40
Disaster Mitigation	Trolley Mounted Pad Substations	1.17
	Overhead to Underground conversion for Major City	20.00
	Emergency Preparedness (Life boat and other emergency accessories)	1.80
	Total	53.79



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Major Category	Activity	Amount (in Cr.)
	DC Hardware	10.33
	Software Licenses for IT Application	12.66
	End computing devices	8.96
Toohnology 9 Civil	Cyber Security	1.20
Technology & Civil Infrastructure	Automation of non ODSSP PSS	7.66
iiiiastiucture	SCADA-ADMS	9.05
	GIS Software Implementation and Land Base & Network Survey & Digitization for Balasore & Jajpur Circle	17.94
	Total	67.80

Major Category	Activity	Amount (in Cr.)
	Refurbishment of 33KV/11KV Primary Substation (PSS)	10.00
	33 KV Conductor up gradation	11.20
	11 KV Conductor up gradation	8.80
	Refurbishment of 11KV/0.415 KV Distribution Substation (DSS)	2.40
	Installation of LV protection at DSS	5.54
	Installation of Auto reclosure / Sectionalizes ,RMUs, &FPIs	10.60
Reliability	33KVand 11 Kv Voltage Regulators for voltage improvement	4.20
	LT FLC System - Vehicle Fitted (5 Nos 1 for each circle) + Power Analyser for	3.52
	Transformer workshop (2 Nos.) +Ultrasound Scanner (5 Nos 1 for each circle)	
	Installation of station transformers (PPS)	2.55
	Capacitor Bank at PSS for low voltage improvement	0.88
	Earthing of Power Transformers and Distribution Transformers	0.49
	Total	60.18

The present annual energy audit is conducted in compliance with BEE (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies), Regulations 2021 by Zenith Energy Services (Private Limited).

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2.0 SUMMARY OF ANALYSIS, OBSERVATIONS AND RECOMMENDATIONS:

- 1. It was observed that quantum of losses pertaining to Bhadrak circle increased from 178.62 MU during 2021-22 to 199.45 MU during 2022-23. TPNODL should take necessary action to investigate the root cause for increase in the losses. However, the T&D loss has reduced from 28% to 24%.
- 2. T&D Losses in Jajpur circle got a significant reduction i.e from 303.28 MU in 2021-22 to 243.88 MU during 2022-23 the T&D losses are 12% which is highly appreciable.
- 3. In case of Baripada circle, there is an increase in T&D losses. The quantum of losses increased from 125.57 MU to 177.82 MU.% wise also the losses increased substantially. However, the AT&C losses has substantially decreased due to increase in Collection Efficiency.
- 4. Collection efficiency with respect to agricultural consumers increased from 39.79% to 71.38% from 2021-22 to 2022-23 which is highly appreciable.
- 5. AT&C losses in Balasore BTED (Basta) Division reduced from 55% during 2021-22 to 40% during 2022-23 which is still substantially high. The T&D losses for this division also got increased from 42% during 2021-22 to 43% during 2022-23
- 6. As per the data provided by TPONDL, it is evident that the number of unmetered connections are only around 2.1% whereas T&D losses during the Assessment year are around 16.43%. This is matter of concern and TPNODL should take necessary initiatives on top priority basis to reduce the losses to the maximum extent possible.
- 7. Since sudden and stringent implementation of various type of measures to reduce the losses may call for opposition from the consumers TPNODL may take necessary steps to increase awareness amongst different categories of consumers about the importance of electricity in the development of the society, how it is produced, how much coal is spent in producing the one unit of electricity etc.
- 8. Although, TPNODL is consistently organizing customer engagement & awareness programs for Energy conservation and theft reduction.
- 9. The losses in few of the DISCOMs got reduced to less than 6% and AT&C losses got reduced to 7%. TPNODL should depute their officials to study their methodology adopted to reduce the losses and programs arranged by them to increase awareness among different categories of consumers.
- 10. One of the most important findings encountered by ZESPL is presence of high % of Harmonic currents where substantial quantity of non-liner loads IS in operation. The non-linear loads include PCs, Laptops, UPS, BLDC Fans etc. Because of these harmonics current flow in the neutral conductors is of the order of 20 to 50% of the total current in all the three phases together. Whereas in normal networks (Where non-liner loads are not present) very low neutral currents (0 to 1%) were measured. These abnormalities account for huge amount of Energy losses and also responsible for early failure of equipment and associated components. TPNODL should take this aspect into consideration and investigate new ideas to reduce the losses arising out of installation of non-linear loads.



The observations and comments with regards of the Field Visit of the Audit team to various TPNODL Grid Substations (GSS):

- 1. It is observed that the 33kV meters are installed at Grid Substation (GSS) interface points and at each consumer points. In the FY 2021-22, there is a significant increase in the meter installed at the 33/11 kV substation (PSS) input point as comparison to FY 2021-22.
- 2. SCADA & Automation system has been implemented in 105 out of 236 PSS under which 47 is in operation from PSC and 5 PSS are unmanned across TPNODL.
- 3. It is observed that the DT smart metering in various DTs under TPNODL is underway.

The various loss reduction recommendations are furnished below:

- 1. It is recommended that TPNODL should request the Hon'ble Commission for tariff rationalization measures to be adopted for HT / EHT Consumers so that HT / EHT Industries will be incentivized to procure power from DISCOM without depending muchon Open Access. TPNODL may be required to incentivise the Industrial Consumption by taking up better tariff rationalisation measures in future tariff hearing process, as increase in HT / EHT consumption will help in reducing the T&D losses and AT & C losses.
- 2. It is proposed that TPNODL should promote Energy Efficient Lighting System (LED Bulbs, Tube lights and Energy Efficient Fans) in association with BEE / EESL / Private ESCO in its utility area. There are few ESCO Companies available in India which will install new energy efficient equipment in place of old conventional equipment and share the energy savings (Monetary savings) on a pre agreed % basis.
- 3. At present Hon'ble OERC has implemented kVAh billing for the HT/ EHT/ Commercial / MSME and Industrial consumers. In view of the kVAh billing, the consumer which are having low power factor are paying higher energy bills, still the awareness about kVAh billing is not there and consumers are operating with low Power Factors. TPNODL may carry out special drives for awareness and sensitization about kVAh billing. Howerver, TPNODL has started installing Capacitor Bank and APFC Panel.



ACTION PLAN OF THE DISCOM:

Action Plan of the DISCOM to complete communicable metering of Feeders, DTs and Consumers:

In order to revive feeder and DT metering, 100% 33KV (at OPTCL GSS) and 11KV feeder metering have been already done and 9059 No. of DT metering (>=100kVA) is being targeted to be completed by the end of FY 23-24. The AMR and Modem installation is targeted to be completed by Oct'23.

With reference to the issue of communicable DT Meters, the TPNODL has started installation of the Smart Meters on DTs in the phased manner.

The consumer meter installation is in ongoing process, TPNODL have strengthened the system to liquidate all the pendency in FY 2023-24.

Metering Details	Count FY21-22	Count FY22-23	Plan FY23-24
33kV Feeder Metering (Emanating From GSS)	91	108	-
11kV Feeder Metering	327	825	-
DTR Metering (11/.4) KV (100kVA & above)	2269	2883	9059

From the data available it is observed that the following Divisions are having losses more than 38%.

- (i) Balasore (BTED Basta) 43.79%
- (ii) Bhadrak (BSED Bhadrak) 38.07%

Action Plan and Loss Reduction measures implemented by TPNODL in his service area

- Conductor Upgradation 69.25 Km (11 kV) & 24.6 km (33 kV)
- 26 new PSS commissioned under ODSSP III
- 26 Nos. New PTR (196 MVA) added in last year to ensure 100% PTR loading <80%
- Overloaded DTR capacity augmentation & Load Balancing 163 Nos. (15 MVA added)
- LT Conversion from 1-ph to 3-ph -- 40 Ckm LT Bare overhead to LT ABC Conversion 249 Ckm.
- Thermo-scanning & Ultrasound Scanning to detect electrical leakages & preventive measures to reduce losses 91
 Feeders

Line Length Reduction

- 4 Nos. longest 33KV feeders reduced to < 50km,
- 2 Nos. longest 11KV feeders (>300Km) reduced to <100km
- 4 Nos. 11KV feeders (>100Km) reduced to <60km

Network Load Flow Study Based CAPEX plan

- 33 KV & 11KV Conductor up gradation. FY 23-24: 71 & 293 Ckt. Km respectively
- New link lines FY 23-24: 210 Ckt. Km.
- 10 Nos 33 kV lines > 50 km length and 67 no 11 kV lines > 100 Km length



Pilferage proofing of LT Lines

• LT Bare Conductor with LT AB Cable: FY 23-24: 427 Ckt. Km

Plan for Length Reduction of Long 33 kV Feeders

SI. No	Name of Circle	Nos of Feeders	Feeders > 50 kms	Mitigation Plan Proposed	Remarks
1	BALASORE	26	1	1	1) New link line from Agarpada GSS to Kupari PSS Proposed in ODSSP-IV Scheme for mitigation of Khaira feeder. (WIP)*
2	BHADRAK	10	2	2	Proposal of Basudevpur feeder considered in Capex FY 22-23 from Balimunda GSS. (Line construction complete, charging subject to GSS commissioning) - Completed Chandabali GSS to Dhamra PSS Line under ODSSP - IV Scheme. (WIP)*
3	BARIPADA	19	3	3	New 7.5 kms line proposal from Karanjia GSS to Saharpada PSS for Karanjia feeder taken in Capex 22-23. (WIP)* New line of 27.1 kms from Karanjia GSS to Joshipur PSS for Joshipur feeder taken. (Proposed under ODSSP-IV Scheme)* Link line from Baripada GSS to Kalabadia PSS for New Bangiriposi feeder mitigation. (WIP)*
4	JAJPUR	12	1	1	1) Link line Planned from New Duburi grid for Sukinda Feeder. (WIP)*
5	KEONJHAR	26	3	3	New Link Line from Tikira GSS (Keonjhar No-1 feeder mitigation) - Completed New line from Telkoi GSS (Judia feeder mitigation) - Completed New line for bifurcation into 29 and 46 kms feeder respectively. (Remuli Fdr mitigation) "WIP (500 mtrs new line from Palaspanga GSS to Jhumpura tapping point line stringing left.)

Plan for Length Reduction of Long 11 kV Feeders

	11 KV FEEDERS DETAILS AND THEIR MITIGATION PLAN SUMMARY						
SR NO	NAME OF CIRCLE	TOTAL NUMBERS OF 11 KV FEEDERS	NUMBERS OF 11 KV FEEDERS MORE THAN 100 KM	NUMBERS OF FEEDERS MITIGATION PLAN PROPOSED/COMPLETE	Remarks		
1	JAJPUR	128	5	5	Charged Lalbagh PSS, Bramhabrada PSS, Chadheidhara PSS will allow the long feeders to be cut off and length reduced.		
2	BALASORE	206	4	4	New PSS under ODSSP Scheme at Bartana and Behrampur, another PSS at Teghori under DDGJY and new link line under Capex from Shyamnagar PSS to Bhol PSS – WIP		
3	BHADRAK	131	8	8	Link line btw Bonth and Munduli feeder - WIP, Talanga and Padampur PSS along with link Line - WIP under ODSSP 3.		
4	BARIPADA	184	28	26	Oldihi, Deuli, Gidhibas PSS along with link line - WIP under ODSSP 3 Segregation of 300Km Jamda Feeder - Completed		
5	KEONJHAR	148	16	11/2	3.5 kms Link line for Nayakote – WIP Sirigida PSS link line – WIP Segregation of 325 Km Kaliahota Feeder - WIP New feeder from Saharpada PSS - WIP (Bhagamunda and Ballia Fdr length feeder Complete)		



3.0 BACKGROUND

Energy Conservation has become a top most priority in today's scenario in order to have asustainable growth, productivity, enhancement & environmental protection. Considering the vast potential of energy savings and benefits of energy efficiency as per the report prepared by National Development Council (NDC) Committee on power, Govt. of India enacted the Energy Conservation Act 2001. The aim of EC Act 2001 is to provide the much-needed legal framework and other institutional arrangements so that various energy efficiency improvement drives can be easily launched at the state and national level. In order to implement the various provisions under the EC Act 2001, the Government of India established the Bureau of Energy Efficiency (BEE) on 1st March 2002 for development of policies and strategies with a thrust on self-regulation and market principles, with the primary objective of reducing energy intensity of the Indian Economy and to enact and enforce energy efficiency through various regulatory and promotional measures.

Role of BEE

BEE coordinates with designated consumers, designated agencies and other organizations and recognizes, identifies and utilizes the existing resources and infrastructure, in performing the functions assigned to it under the Energy Conservation Act. The Energy Conservation Act provides for regulatory and promotional functions.

The Major Promotional Functions of BEE include:

- Create awareness and disseminate information on energy efficiency and conservation
- Arrange and organize training of personnel and specialists in the techniques for efficientuse of energy and its conservation
- Strengthen consultancy services in the field of energy conservation
- Promote research and development
- Develop testing and certification procedures and promote testing facilities
- Formulate and facilitate implementation of pilot projects and demonstration projects
- Promote use of energy efficient processes, equipment, devices and system
- Take steps to encourage preferential treatment for use of energy efficient equipment orappliances
- Promote innovative financing of energy efficiency projects
- Give financial assistance to institutions for promoting efficient use of energy and itsconservation
- Prepare educational curriculum on efficient use of energy and its conservation
- Implement international co-operation programs relating to efficient use of energy andits conservation

Perform Achieve and Trade (PAT) Scheme

National Mission of Enhanced Energy Efficiency (NMEEE) is one of the eight national missions of the NAPCC released by the Prime Minister on 30th June 2008. BEE has been entrusted with the task of preparing the implementation plan for NMEEE. PAT scheme is formulated under National Mission for Enhanced Energy Efficiency (NMEEE) which is one of eight plans in the National Action Plan on Climate Change (NAPCC).

PAT is a regulatory instrument framed by BEE and Ministry of Power to reduce specific energy consumption in energy intensive industries and reduce T & D loss in DISCOMs with an associated market based mechanism to enhance the cost effectiveness through certification of excess energy saving which can be traded in power exchange.

Annual Energy Audit Report 2022-23 of TPNODL



Purpose of Audit and Accounting Report

DISCOMs are currently focusing on Energy Conservation and Energy Efficiency to a larger extent for reducing the T & D Loss and improving the performance. Efficient energy management, usage of energy efficient technologies and adopting best-practices for reduction T & D Loss would help utility to improve their billings, collection, energy sale and profitability. As per the PAT scheme of BEE, TPNODL being a DISCOM having annual AT & C losses more than 1000 Million kWh i.e.86000 Metric Tonnes of Oil Equivalent (MTOE) is a Designated Consumer as per EC Act 2001.

The main focus of the audit is to establish T & D Loss for the year 2022-23, collection of technical information like annual energy consumption, nos. of connections, nos. of disconnections, connected load and percentage of total connected load, energy billed, net input energy, power factor, total supply hours, scheduled outage, scheduled supply hours, unscheduled outage, available supply hours and evaluation of T & D loss, AT & C loss and billing efficiency of utility, finding out deviations from the baseline T & D loss, evaluations of energy management systems, exploring future energy conservation measures, energy saving potentials and providing recommendation for the same.

In line with Section 14(g) of the Energy Conservation(EC) Act, the Central Government has notified targets (in the form of Specific Energy Consumption) for Designated Consumers (DCs) on 26th October 2021 under the PAT cycle-VII. The baseline Distribution loss of TPNODL has been fixed as 18.74% for baseline year 2018-19 to with baseline net input energy 5575.61MU. TPNODL has been directed to reduce its T&D Loss to 17.09 % in Target Year 2024-25.

BEE (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies), Regulations 2021 has been notified on 6th October 2021 and as per Regulation 3 of the said Regulations, it is required that the TPNODL to conduct the annual energy audit by an Accredited Energy Auditor and submit the report to BEE and SDA.

The management of TPNODL evinced keen interest in availing the services of ZESPL for conducting Annual Energy Audit of TPNODL. The proposal for conducting energy audit of the DISCOM was accepted by the management of TPNODL vides their PO No. 4800002117 dated 06.04.2023. Accordingly, ZESPL has been entrusted with the work of conducting the annual energy audit and submission of reports for the same. The field study, measurement and audit activities by ZESPL was conducted at site from 3rd July 2023 to 7th July 2023 andthe report has been prepared based on the field study data, available technical data as well as information / inputs received from TPNODL.

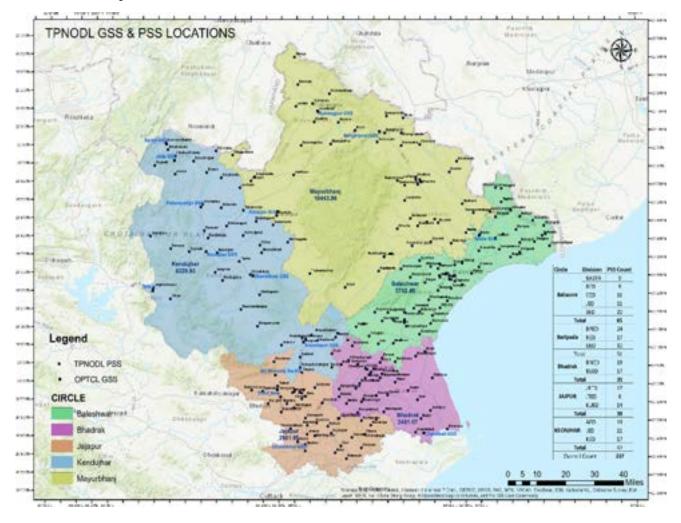


4.0 INTRODUCTION ABOUT TPNODL (DC)

TP Northern Odisha Distribution Limited (TPNODL) is a joint venture of Tata Power (51%) and Govt of Odisha (49%) on the Public-Private Partnership (PPP) model. Govt. of Odisha (GoO)'s share is held by it through its 100% owned company GRIDCO. TPNODL was vested in the Utilityof NESCO for distributing and retail supply of electricity in the northern part of Odisha, through a Vesting Order issued by the Hon'ble Odisha Electricity Regulatory Commission (OERC). The business of TPNODL utility is governed by the provisions of license issued by Hon'ble Odisha Electricity Regulatory Commission (OERC) for distribution and retail supply of electricity in Northern Odisha.

TPNODL procures power from GRIDCO which is a state-owned company, engaged in the business of purchase of electricity in bulk from various generators located inside Odisha and the state share of power from Central generators. GRIDCO supplies power to all power distribution utilities, including TPNODL under the existing Bulk Supply Agreement between TPNODL and the GRIDCO. The power procurement price is the Bulk Supply Price at which GRIDCO supplies power to Distribution utilities which is determined by Hon'ble OERC and apportioned based on the ability of each DISCOM to pay the energy charges to GRIDCO.

TPNODL license area is spread over geography of 27920 Sq.Km having coastal line of about 150 Km serving the registered consumer base of 2.05 million. TPNODL procures power from GRIDCO which is a state owned company. It receives electrical power at a sub transmission voltage of 33KV from Odisha Power Transmission Company Limited's (OPTCL) 220/132/33 kV Grid Substations and then distributes the power at 33KV / 11KV / 440V / 230V depending on the demand of the consumers. For effective operations, license area is divided in 5 circles which is further sub divided in 16 Divisions, 50 Sub-division & 159 sections which manages the commercial and O&M activities in order to serve its consumer.





The details of administrative set up of TPNODL are furnished below:

Name and Address of Designated Consumer: TP Northern Odisha Distribution Limited (TPNODL)

Corporate Office: Januganj, Dist: Balasore-756019, Odisha

Phone: 06782-244865, Fax: 06782-244259

Email: ceooffice@tpnodl.com
Website: www.tpnodl.com

NAME AND CONTACT DETAILS OF ENERGY MANAGER AND AUTHORIZED SIGNATORY OF DISCOM: CEO TPNODL:

Mr. Bhaskar Sarkar, Chief Executive Officer

Phone: 9223512396

E-mail: ceooffice@tpnodl.com

Nodal Officer:

Mr. Dushyant Kumar Tyagi, Chief-Commercial

Services & CSR Phone: 9971555724

Email: dk.tyagi@tpnodl.com

Designated Energy Manager:

Mr. Manish Kriplani, HoG Energy

Audit,

Phone: 9799495503

E-mail: manish.kriplani@tpnodl.com

Certified Energy Manager:

Mr. Rakesh Singh, Energy

Manager,

Phone: 8527056199

E-mail: rakesh.singh@tpnodl.com

IT Manager:

Mr. Amit Kumar, HoG OT Phone: 9560044457

Email: amit.kumar@tpnodl.com

Financial Manager:

Mr. Raja Banik, Team Lead Finance

Phone: 9609933777

Email: raja.banik@tpnodl.com



The details of organizational set up of TPNODL are furnished below:

DETAILS	As on 31st March 2022	As on 31st March 2023
No. of Circles	5	5
No. of Divisions	16	16
No. of Subdivisions	50	50
No. of Sections	159	159

S.No.	Circle	Division	Sub-Division
		DED Delegare	Supply No-I
		BED, Balasore	Supply No-II
		DTED Posts	Basta
		BTED, Basta	Jamsuli
		IED Jalaanna	Jaleswar
		JED, Jaleswar	Bhograi
1 1	Balasore		RE-I
		CED, Balasore	RE-II
			Nilagiri
			Soro
		CED Core	Bahanaga
		SED, Soro	Markona
			Khaira
			No.I Bhadrak
		F	No.II Bhadrak
		BNED, Bhadrak	Basudevpur
	B	·	Dhamra
2	Bhadrak	F	Tihidi
			Bhadrak Rural
		BSED, Bhadrak	Dhamnagar
		·	Asurali
			Baripada
			Rural
		BPED, Baripada	Betnoti
		, . ,	Kuliana
			Moroda
3	Baripada		Khunta
	'	UED, Udala	Udala
			Rairangpur-I
		DED D :	Rairangpur-II
		RED, Rairangpur	Karanjia
			Joshipur
			Panikoili
		JRED, Jajpur Road	Jajpur Road
		· "	Duburi
			No. I Jajpur Town
4	Jajpur Road	JTED, Jajpur Town	Dasrathpur
	,		Binjharpur
			Bari
		KUED, Kuakhia	Dharamsala
		T T	Kuakhia
			No.I Keonjhar
		KED, Keonjhar	No.II Keonjhar
			Turumunga
			Joda
5	Keonjhar	JOED, Joda	Champua
	,	, ,	Barbil
		1	Anandapur
		AED, Anandapur	Ghatagaon
		,	Bidyadharpur



4.1 SUMMARY PROFILE OF TPNODL

TPNODL receives electrical power at 33kV level from 29 numbers of Grid Sub stations (GSS) and 9 no. of Switching stations located within the vicinity of TPNODL operational area.

TPNODL distributes the power at 33kV / 11kV / 415V / 230V depending on the demand of the consumers. At present, there are 108 numbers of 33KV feeders with a combined route length of approximately 3024 KMs supplying power to 236 numbers of 33/11KV Primary Substation (Structures). The 33KV supply is stepped down to 11KV level through 550 numbers of 33/11KV power transformers at these primary substations with an installed capacity of 2,615.8 MVA. Nearly 825 numbers of 11KV feeders radiates from the 33/11KV primary substations having length of approximately 40,188 KMs and supply power to HT consumers connected at 11KV level and LT customers connected to 11/0.415KV distribution substation. Approximately 74,726 numbers of distribution transformers are installed in all five circles with an installed capacity of 2787 MVA. The length of the LT feeders is 67,486.44 KMs approximately.

The Detail of Network Systems of TPNODL is furnished below:

Network System	As on 31st March 2022	As on 31st March 2023
Length of 33 KV Line (km.)	2895	3024
Length of 11 KV Line (km.)	37591	40188.5
Length of LT KV Line (km.)	66672	67486.44
Length of LT AB Cable (km.)	43971	44786.4

Metering Status of TPNODL:

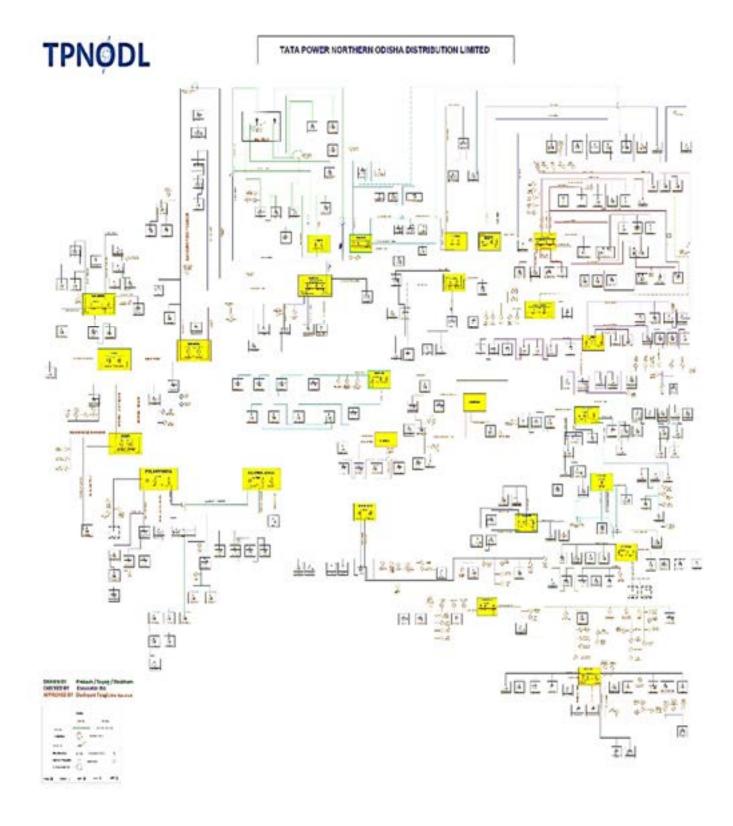
CATEGORY WISE % OF METERING COMPLETED							
		FY 2021-22			FY 2022-23		
Category	Total	No. of Metering Completed	% of Metering Completed	Total	No. of Metering Completed	% of Metering Completed	
33 kV Feeders	98	98	100%	108	108	100%	
11 kV Feeders	797	545	68.38%	825	598	72.5%	
Distribution Transformers	72323	2208	3.05%	74726	2883	3.85%	
Consumers	2089083	2010760	96.25%	2041588	1999017	97.91%	

Comments on the above table:

As per the performance review report of TPNODL submitted to Hon'ble OERC, the percentage of DT Metering in the FY 2021-22 is around 3.05 % and in the FY 2022-23 it is around 3.85%.



SLD of TPNODL as a whole:





Consumer Base of TPNODL:

The details of total numbers of Consumers in TPNODL area is furnished below:

Consumer Category	No of connections (Metered)	No of connection Un-metered (Nos)	Total Number of connections (Nos)
Residential	1834723	38354	1873077
Agricultural	25700	3124	28824
Commercial/Industrial-LT	114188	211	114399
Commercial/Industrial-HT	505	0	505
Others	23901	882	24783
Total	1999017	42571	2041588

The Detail of Assets under TPNODL is furnished below:

ASSETS	As on 31st	As on 31st
ASSETS	March 2022	March 2023
No. of 33 KV feeders (Including GRIDCO interface)	98	108
No. of 11 KV feeders	797	825
No. of 33 / 11 kV POWER Transformers	524	550
No. of Distribution Transformers (11/0.4 & 33/ 0.4 kV)	72323	74726

5.0 DISCUSSION AND ANALYSIS

The main objective of Energy Audit is to establish the following.

- Energy input to the system
- Energy utilized / sold (Energy Sales) to the consumer
- Energy losses in the system.
- To assess the efficiency of the system
- To identify the area of high T&D losses
- To assess the extent of theft & pilferage
- To take appropriate steps for making the system technically more efficient and financially sustainable

Energy audit distinctly addresses the problems of energy losses. Hence, any savings in energy usage and reduction of losses directly leads to the profitability of the utility.



The Energy and Performance Fact Sheet of TPNODL for the last 2 financial years is furnished below:

Energy Accounts of Previous Year:

TPNODL has purchased around 4346.99 MU of Energy from GRIDCO in FY 2021-22 and has billed around 4347 MU of energy to its various consumers and thus has a T&D Loss of around 18.40 % & AT&C Loss of around 23.13 % in FY 2022-23 as per the performance review report of TPNODL submitted to Hon'ble OERC.

PARTICULARS	FY 2021-22
Input Energy(MU)	5327.04
Total Sale (MU)	4346.998
T & D Loss (%)	18.40%
Billing Efficiency (%)	81.60%
Billing To Consumers (Rs. in Cr)	2560.14
Collection Received (Rs. in Cr)	2411.66
Collection Efficiency (%)	94.20%
AT& C Loss (%)	23.13%

Energy Accounts and performance of TPNODL in Current Year:

TPNODL has purchased around 6473.32 MU of Energy from GRIDCO in FY 2022-23 and has billed around 5410.05 MU of energy to its various consumers and thus has a T&D Loss of around16.43% & AT&C Loss of around 11.33% in FY 2022-23 as per the performance review report of TPNODL submitted to Hon'ble OERC.

PARTICULARS	FY 2022-23
Input Energy(MU)	6473.32
Total Sale (MU)	5410.05
T & D Loss (%)	16.43%
T & D Losses (MU)	1063.27
Billing Efficiency (%)	83.57%
Billing To Consumers (Rs. in Cr)	3203.91
Collection Received (Rs. in Cr)	3397.92
Collection Efficiency (%)	106.06%
AT& C Losses (%)	11.36%



Division Wise Energy & Performance Fact Sheet of TPNODL for FY 2022-23:

Name of Division	Energy Input (MU) (Assuming HT Loss 8%)	Energy Sold (MU)	T & D Loss (%) (Assuming HT Loss 8%)	Billing Efficiency (%)	Billing to Consumer (Rs. in Crs.)	Collection Received (Rs. in Crs.)	Collection Efficiency (%)	AT & C Loss (%)
BED, BALASORE	328.474	291.149	11.36	88.64	178.99	179.92	100.52	10.90
BTED, BASTA	151.636	85.841	43.39%	56.61%	42.05	44.78	106.50%	16.93
JED, JALESWAR	257.579	190.033	26.22	73.78	100.02	104.33	104.30	23.05
CED, BALASORE	488.412	391.338	19.88	80.12	226.58	270.38	119.33	4.38
SED, SORO	220.752	159.421	27.78	72.22	83.94	92.39	110.07	20.51
BNED, BHADRAK (N)	652.482	515.900	20.93	79.07	295.00	297.40	100.81	20.29
BSED, BHADRAK (S)	168.523	105.660	37.30	62.70	55.13	69.21	125.52	21.30
BPED, BARIPADA	340.170	248.502	26.95	73.05	139.59	145.64	104.33	23.79
UED, UDALA	101.814	78.521	22.88	77.12	41.33	45.50	110.10	15.09
RED, RAIRANGPUR	231.539	172.443	25.52	74.48	92.39	97.52	105.55	21.39
JRED, JAJPUR ROAD	1683.932	1599.067	5.04	94.96	986.11	1070.41	108.55	-3.08
JTED, JAJPUR TOWN	178.327	122.725	31.18	68.82	62.55	66.22	105.87	27.14
KUED, KUAKHIA	312.537	209.128	33.09	66.91	119.19	127.51	106.98	28.42
KED, KEONJHAR	340.970	314.605	7.73	92.27	199.42	201.12	100.86	6.94
JOED, JODA	838.147	802.137	4.30	95.70	513.39	512.81	99.89	4.40
AED, ANANDAPUR	178.027	123.582	30.58	69.42	68.22	72.79	106.70	25.93
TPNODL TOTAL	6473.323	5410.052	16.43%	83.57%	3203.91	3397.92	106.06%	11.36%



Category wise nos. of Consumers:

TPNODL is licensed to distribute electricity to consumers and collect revenue. The different categories of consumers in TPNODL are as per the following.

- Domestic
- Kutir Jyoti
- L.T. General (Com)
- Agriculture
- Agro
- Allied-Agro
- Street Lighting
- PWW
- Small Industry
- Medium Industry
- Specified Pub. Purpose (P.I.)
- Large Industry below 132kV
- Power Intensive Industries
- General Purpose
- Bulk-Supply Domestic
- Public Institution
- Irrigation
- Captive Power Plant
- Public Water Works above 110kVA
- Heavy Industries
- Railway Traction

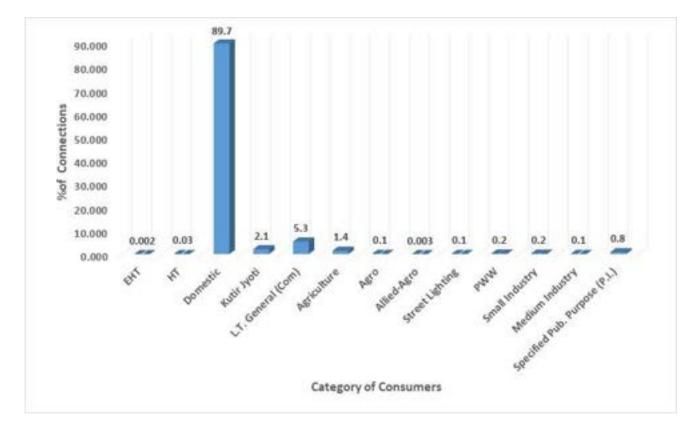
Details of category wise nos. of consumers and their annual energy consumption, contract demand, correct meter, without meter and defect meter for the last financial year are given below:

Category wise no. of consumer under TPNODL

S.No	Type of Consumers	No of Connections	% of Connections		
1	EHT	41	0.002		
2	HT	659	0.03		
3	Domestic	1830722	89.7		
4	Kutir Jyoti	42329	2.1		
5	L.T. General (Com)	108910	5.3		
6	Agriculture	28815	1.4		
7	Agro	2603	0.1		
8	Allied-Agro	57	0.003		
9	Street Lighting	1421	0.1		
10	PWW	4490	0.2		
11	Small Industry	4357	0.2		
12	Medium Industry	1132	0.1		
13	Specified Pub. Purpose (P.I.)	16052	0.8		
	TOTAL	2041588	100%		



The above data is also depicted in a bar chart for better understanding.



Observations & Recommendations:

- From the above table, it is found that the total consumers in TPNODL are 2041588 in the FY 2022-23. The same was 2089083 during the year 2021-22. TPNODL got removed around 47495 no. of non-paying connections during FY 2022-23 which were identified under special drive (**Project Khoj**), hence, is the main reason for reduction of the consumer base.
- Among all categories, the percentage of domestic category consumers is around 89 % in FY 2022-23.
- Whereas percentage of nos. of HT consumers is around 0.03% in FY 2022-23, the percentage of nos. of EHT consumers is around 0.002% in FY 2022-23. There is slight increase in the EHT connections from 2021-22 to 2022-23.



Category wise connected contract demand under TPNODL

	FY 2022-23					
Category	CD (KW)	% w.r.t total CD				
EHT	658500	19.04%				
HT	283233	8.19%				
Domestic	1892552	54.73%				
Kutir Jyoti	7559	0.22%				
L.T.General (Com)	306805	8.87%				
Agriculture	116603	3.37%				
Agro	31755	0.92%				
Allied Agro	858	0.02%				
Street Lighting	7022	0.20%				
PWW	29204	0.84%				
Small Industry	40529	1.17%				
Medium Industry	49238	1.42%				
Specified Pub.Purpose (P.I)	34048	0.98%				
Total	3457906	100.00%				

Category wise no. of consumers having defective meter in TPNODL

	FY 2022-23					
Category	Live Cons. (Nos)	No. of Defect meters	%w.r.t total defect meters			
EHT	41	0	0.00%			
HT	659	0	0.00%			
Domestic	1830722	226107	87.46%			
Kutir Jyoti	42329	20486	7.92%			
L.T.General (Com)	108910	4833	1.87%			
Agriculture	28815	5757	2.23%			
Agro	2603	56	0.02%			
Allied Agro	57	1	0.00%			
Street Lighting	1421	166	0.06%			
PWW	4490	57	0.02%			
Small Industry	4357	7	0.00%			
Medium Industry	1132	1	0.00%			
Specified Pub.Purpose (P.I)	16052	1050	0.41%			
Total	2041588	258521	100.00%			



Category wise no. of consumers having correct meter under TPNODL

	FY 2022-23					
Category	Live Cons. (Nos)	No. of correct meters	%w.r.t total			
EHT	41	41	0.00%			
НТ	659	659	0.04%			
Domestic	1830722	1567607	90.07%			
Kutir Jyoti	42329	20497	1.18%			
L.T.General (Com)	108910	103866	5.97%			
Agticulture	28815	19934	1.15%			
Agro	2603	2541	0.15%			
Allied Agro	57	56	0.00%			
Street Lighting	1421	603	0.03%			
PWW	4490	4414	0.25%			
Small Industry	4357	4350	0.25%			
Medium Industry	1132	1131	0.06%			
Specified Pub.Purpose (P.I)	16052	14797	0.85%			
Total	2041588	1740496	100.00%			

Category wise no. of consumers without meter under TPNODL

	FY 2022-23							
Category	Live Cons. (Nos)	Total No. of cons without meters	%w.r.t total					
EHT	41	0	0.00%					
HT	659	0	0.00%					
Domestic	1830722	37008	86.93%					
Kutir Jyoti	42329	1346	3.16%					
L.T.General (Com)	108910	211	0.50%					
Agriculture	28815	3124	7.34%					
Agro	2603	6	0.01%					
Allied Agro	57	0	0.00%					
Street Lighting	1421	652	1.53%					
PWW	4490	19	0.04%					
Small Industry	4357	0	0.00%					
Medium Industry	1132	0	0.00%					
Specified Pub.Purpose (P.I)	16052	205	0.48%					
Total	2041588	42571	100.00%					





OBSERVATIONS & RECOMMENDATIONS

- From the above table, it is found that the total no of consumer without meter in TPNODL is 42571 in FY 2022-23 whereas the total unmetered connection in 2021-22 were 73095. The efforts made by TPNODL to reduce the number of unmetered connections is highly appreciable.
- The percentage of no. of consumers with meter in Domestic around 86.93% in FY 2022-23 and as compared to the percentage of metered consumer in Domestic in FY 2021-22 (90.64%), there has been a significant increment in the metered consumers.
- The percentage of no. of consumers without meter in Kutir Jyoti around 3.16% in FY 2022-23 and as compared to the percentage of without metered consumer in Kutir Jyoti in FY 2021-22 (2.69%), there has been a slight reduction. However, in absolute no.s the Kutir Jyoti consumers have been reduced from 2104 to 1346.
- It is recommended to take action on priority basis to replace balance old mechanical meters with new smart meters. However, this initiative found in progress with TPNODL.
- It was observed that most of the small and medium scale industries increase their installed loads to suit their increased production requirements (Seasonal). TPNODL should make necessary efforts to identify such loads and regularize them so that system voltage balance will be maintained.
- In many of the old industries, the Transformers will not be having provision for on load tap changing. In that condition the system voltages during night hours will be very high and account for losses. TPNODL should identify such industries and insist them for installation of on load tap changers.



5.1 BILLED AMOUNT OF TPNODL

Total energy billed, amount billed, gross amount collected by the DISCOM for FY 2022-23 is furnished below:

ANNUAL BILLED AMOUNT IN CRORES									
Financial Year	Total Energy Billed	Amount Billed	Gross Amount Collected						
	Million kWh	Rs. Cr	Rs. Cr						
FY 2022-23	5410.05	3203.91	3397.92						

Abstract of Energy Bill Served by GRIDCO to TPNODL

SI.No.	Month	SMD Approved by OERC(kVA)	SMD Permitted by OERC(kVA)	Actual SMD (kVA)	Total Energy Billed (MU)	Total Energy Sale (MU)	LOSS (%)	Total Energy Billed as per OERC (MU)	Total Energy Sale as per OERC (MU)	LOSS (%) As per OERC
1	Apr- 22	11,50,000	12,65, 000	11,22,526	552.103	427.016	22.66	551.981	427.016	22.66
2	May- 22	11,50,000	12,65, 000	10,51,347	547.362	425.935	22.18	547.228	425.935	22.18
3	Jun- 22	11,50,000	12,65, 000	11,54,650	566.214	489.565	13.54	566.183	489.565	13.54
4	Jul- 22	11,50,000	12,65, 000	11,58,898	546.623	428.311	21.64	546.623	428.311	21.64
5	Aug- 22	11,50,000	12,65, 000	10,55,120	561.813	485.385	13.60	561.812	485.385	13.60
6	Sep- 22	11,50,000	12,65, 000	11,05,519	568.748	432.97	23.87	568.730	432.97	23.87
7	Oct- 22	11,50,000	12,65, 000	10,01,333	555.275	490.661	11.64	555.161	490.661	11.64
8	Nov- 22	11,50,000	12,65, 000	10.41,264	485.779	456.25	6.08	485.761	456.25	6.08
9	Dec- 22	11,50,000	12,65, 000	10.61,664	492.153	423.962	13.86	492.100	423.962	13.86
10	Jan- 23	11,50,000	12,65, 000	9,67,918	512.859	432.46	16.07	512.487	432.46	16.07
11	Feb- 23	11,50,000	12,65, 000	9,99,265	501.359	430.562	14.12	501.191	430.562	14.12
12	Mar- 23	11,50,000	12,65, 000	10,88,962	583.035	486.975	16.48	582.578	486.975	16.48
TO	TAL	1,38,00,000	1,51,80,000	96,00,019	6,473.32	5,410.05	16.43%	6,471.84	5,410.05	16.43%



5.2 METERED/UNMETERED ENERGY SALE OF TPNODL

Annual energy consumption of the consumers in TPNODL for FY 2022-23 is given below.

Annual Metered/ Unmetered Energy Consumption (in MU) under TPNODL

ANNUAL METERED/UNMETERED ENERGY CONSUMPTION IN MU									
Financial Year	I OTAL INDUIT ENARGY		Unmetered Energy Sales	Estimated unaccounted energy					
FY 2022-23	6473.32	5127.98	282.07	1063.27					

Percentage of metered, unmetered & unaccounted energy consumption

% OF METERED/UNMETERED & UNACCOUNTED ENERGY CONSUMPTION									
Financial Year	Total Input Energy	Metered Energy Sales in %	Unmetered Energy Sales in %	Estimated unaccounted Energy %					
FY 2022-23	6473.32	79.2	4.35	16.43					

Observations & Recommendations:

The estimated unaccounted energy is around 16.43% which was around 18.39% during the FY 2021-22. The AT&C losses reduced from 23.13% to 11.33% from 2021-22 to 2022-23 which is a remarkable achievement. Efforts made by TPNODL are highly appreciable.

5.3 LOSSES IN DISTRIBUTION NETWORK

The losses in a distribution network are classified into three categories i.e. Transmission &Distribution (T&D) loss, Technical loss and Commercial loss.

1. T&D loss is the difference between energy supplied to a network and the total energy billed. It includes both technical & commercial loss.

T&D Loss =Input energy to the system- Energy billed to the consumer

Distribution (T&D) Loss = Input energy supplied to DISCOM system (-) Energy billed toconsumer by DISCOM

% Distribution (T&D) Loss = [Input Energy (-) Energy Billed] x 100 ÷ [Input Energy]

 Technical loss or line loss occurs mainly due to the heating effects, loose bindings, earthing problem, unbalancing, inadequate size of conductors, shifting of load Centre, low power factor/reactive losses etc.
 This loss is difficult to calculate and the most accurate method is the load flow study using network analysis software.



The Technical losses in the system comprises of the following

- 33 kV & 11 kV Line Losses
- Distribution Transformer Losses (Iron & Copper losses)
- L.T. Line Losses
- Miscellaneous Technical Losses
- Losses due to Loose Jump Connections in the line
- Losses due to Short Circuits & Earth Faults
- Losses in Service Mains of Installations.
- Losses incurred in CT"S & Current Coils of Energy Meters.
- 3. Commercial Loss is the difference between T & D loss and Technical loss. Commercial Loss = Distribution Loss (-) Technical Loss

The commercial losses comprise of the following

- Mistakes in the billing.
- Meters not recording (MNR)
- Meters not recording correctly
- Meters by passed due to defects/ intentionally
- Meters not read & billed.
- Theft and pilferage.

5.3.1 CALCULATION OF T&D LOSS

Distribution Loss or T&D loss is the difference between energy supplied to a network and the total energy billed. It includes both technical and commercial losses.

Sample Calculation:

A typical calculation for T&D Loss for FY 2022-23 is furnished below:

The total Demand of TPNODL for FY 2022-23 = 1022.21 MVA

The total Energy Input to TPNODL for FY 2022-23 = 6473.32 MU

BST Bill (P/U) = 3.49

BST Bill of GRIDCO to TPNODL for FY 2022-23 = Energy input (MU) x BST Bill (P/U)/10 + 1.01

=6473.32 * (3.49/10) +1.01

= 2260.20 Cr

Total Energy sale to all consumer i.e. EHT, HT and LT for FY 2022-23= 5410.052 MU

Energy sale to EHT consumer = 2651.931 MU

Energy sale to HT consumer = 625.417 MU

Energy sale to LT consumer = 2132.704 MU

For HT Category of T & D Loss is assumed at 8%





T & D Loss in LT Category = 1-(Energy sale to LT consumer in MU/ ((Total Energy input in MU - Energy sale to EHT consumer in MU) – ((Energy input in MU - Energy sale to EHT consumer in MU) x 8%) - Energy sale to HT consumer in MU))

= 1-(2132.704 / ((6473.32-2651.931) - ((6473.32-2651.931)*8%) - 625.417))

= 0.2621**= 26.21%**

T & D Loss in HT & LT Category = 1-(((Energy sale to HT consumer in MU+ Energy sale to LT consumer in MU)/ (Total Energy input in MU- Energy sale to EHT consumer in MU)))

=1-(((625.417+2132.704)/ (6473.32- 2651.931)))

=0.2782= 27.82%

Overall T & D Loss of TPNODL for FY 2022-23 = 1- Total Energy sale to consumer including EHT,HT and LT in MU/ Total Energy input in MU

=1-(5410.05/6473.32)

=0.1643= **16.43**%

Based on the above methodology T&D loss for FY 2022-23 is calculated & furnished below:

PARTICULARS	FY 2022-23
BULK SUPPLY	
Demand (MVA)	1022.211
Energy input (MU)	6473.323
SALE TO CONSUMERS (MU)	
EHT	2651.931
HT	625.417
LT	2132.704
TOTAL SALE (MU)	5410.052
T & D LOSS (%)	
HT	8%
LT	26.21%
HT+LT	27.82%
OVERALL T & D LOSS (%)	16.43%



Month wise T & D loss FY 2021-22 is furnished below:

Table 3.1: T&D LOSS FOR FY 2022-23

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	TOTAL
BULK SUPPLY													
Demand (MVA)	979.826	1051.347	1154.650	989.965	1055.100	1105.519	1001.333	917.970	954.679	967.918	999.265	1088.962	1022.211
Energy input (MU)	552.103	547.362	566.214	546.623	561.813	568.748	555.275	485.779	492.153	512.859	501.359	583.035	6473.323
					SALI	E TO CONS (MU)						
EHT'	163.304	167.121	194.914	184.543	211.704	214.709	237.895	236.277	253.659	256.037	245.614	286.154	2651.931
НТ	54.693	58.648	56.719	52.620	49.589	47.637	49.913	46.509	49.522	52.686	51.272	55.609	625.417
LT	209.019	200.166	237.932	191.148	224.092	170.624	202.853	173.464	120.781	123.737	133.676	145.212	2132.704
TOTALSALE (MU)	427.016	425.935	489.565	428.311	485.385	432.970	490.661	456.250	423.962	432.460	430.562	486.975	5410.052
	T & D LOSS (%)												
LT	31.02%	31.26%	16.48%	31.85%	17.77%	38.64%	16.20%	5.23%	28.91%	32.60%	27.36%	33.24%	26.21%
HT & LT	32.17%	31.93%	20.64%	32.68%	21.83%	38.35%	20.36%	11.84%	28.59%	31.31%	27.68%	32.36%	27.82%
OVERALL (%)	22.66%	22.18%	13.54%	21.64%	13.60%	23.87%	11.64%	6.08%	13.86%	15.68%	14.12%	16.48%	16.43%

5.3.2 CALCULATION OF AT&C LOSS

AGGREGATE TECHNICAL & COMMERCIAL (AT&C) LOSS:

Aggregate Technical & Commercial Loss (AT&C Loss) is defined as the summation of all technical as well as commercial power loss that occurs due to electrical power flow through sub- transmission and distribution network.

Technical Loss is defined as the summation of power loss through 33 kV, 11 kV line and LT Line loss including transformer loss and others.

Commercial Loss is defined as the summation of power loss occurring due to theft/ pilferage, deficient meter, inefficiency in billing & unrealized revenue due to collection inefficiency.

COMPUTATION OF AT& C LOSS

Aggregate Technical & Commercial Loss (AT&C) is computed from the actual meter readings of the meter installed at various locations in the system.



Calculations:

Calculation AT & C loss for FY 2022-23 is furnished below

The total Energy Input to TPNODL for FY 2022-23 = 6473.32 MU

The total Energy sale by TPNODL for FY 2022-23 = 5410.05 MU

Total collection received by TPNODL = 3397.92 Cr

Total Billing to consumers done by TPNODL = 3202.81 Cr

Overall Billing Efficiency (%) for FY 2022-23 = (Total Sale in MU/ Total input in MU)*100 = (5410.05/6473.32)*100 = 83.57 %

Overall Collection Efficiency (%) for FY 2022-23

= (Total Collection Received (Rs. in Cr) / Total Billing to Consumers (Rs. in Cr))*100

= 100* (3397.22 /3202.81) = 106.06 %

AT & C Loss (%) for FY 2022-23

AT & C Loss (%) = 1-{Collection Efficiency (%) x Billing Efficiency (%)}

Overall AT & C Loss (%) for FY 2022-23 = 1-(106.43* 83.57%)

= 0.1136

= 11.36 %

AT & C Loss for FY 2022-23 is furnished below:

Particulars	FY 2022-23
Total Sale (MU)	5410.05
T & D Loss (%)	16.43%
Billing Efficiency (%)	83.57%
Billing to Consumers (Rs. inCr)	3203.91
Collection Received (Rs. in Cr)	3397.92
Collection Efficiency (%)	106.06%
AT & C Loss (%)	11.36%



Month wise AT & C loss for last financial year is furnished below:

Table3. 4: AT&C LOSS FOR FY 2022-23

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	TOTAL
			•	•	SALE TO	CONSUME	RS (MU)	•	•				,
TOTAL SALE (MU)	427.016	425.935	489.565	428.311	485.385	432.970	490.661	456.250	423.962	432.460	430.562	486.975	5410.05 2
						T & D L	.OSS (%)						
OVERALL (%)	22.66%	22.18%	13.54%	21.64%	13.60%	23.87%	11.64%	6.08%	13.86%	15.68%	14.12%	16.48%	16.43%
					BILLI	NG EFFICIE	NCY (%)						
OVERALL (%)	77.34%	77.82%	86.46%	78.36%	86.40%	76.13%	88.36%	93.92%	86.14%	84.32%	85.88%	83.52%	83.57%
				BILLING	TO CONS	UMERS (Rs	. in Crs.)						
TOTAL	252.25	253.35	281.24	251.32	279.24	251.60	281.93	267.70	267.27	266.39	261.63	289.99	3203.91
	_	_	_	COLL	ECTION RE	CEIVED (Rs	. in Crs.)	_	_	_	_	_	_
TOTAL	220.60	225.80	256.74	304.73	246.48	310.36	274.23	281.38	275.04	267.33	284.85	450.37	3397.92
					COLLECTI	ON EFFICIE	NCY (%)						
OVERALL (%)	87.45%	89.13%	91.29%	121.25%	88.27%	123.36%	97.27%	105.11%	102.91%	100.35%	108.88%	155.31%	106.06%
					AT & C L	.OSS(%)		-					
OVERALL (%)	32.36%	30.65%	21.07%	4.99%	23.74%	6.09%	14.05%	1.28%	11.35%	15.38%	6.50%	-29.72%	11.36%



Sample Study:

Calculation of Technical loss of 33KV feeder line loss (33KV to 11KV)

The 33 KV feeder line loss and 33/11 kV power transformer loss is calculated by comparing the energy inputs received at the 33 kV feeder emanating from OPTCL substation with the output energy in the 11KV outgoing feeder of the 33/11 kV substation.

Energy Audit calculation for 33kV Panikoili feeder:

S.NO.	PSS/HT CONSUMER NAME	METER NO	METER MF	CONSUMPTION(MU)
1	PANIKOILI PSS	TPN60769	120000	3.618
2	HP PETROL PUMP	TPNODL37101044	1	0.002
3	NOBEL GAS	NSC10723	1200	0.007
4	SRI KRUPALU STEEL &CASTING	NES52148	1500	0.000
5	ASHRIBAD AGRO PRODUCT	NSC94606	1200	0.170
6	ASHIRBAD AGRO PRODUCTS P.LTD	NES50278	1800	0.555
7	KRUPALI RICE MILL	NES52189	1500	0.174
8	HAREKRISHNA RICE MILL	NSC94507	1200	0.250
9	KRUPALU SOLVENT	NES83175	1200	0.114
10	KRUPALU REFINERY	TPN64764	600	0.002

33 KV Panikoili Feeder Input = 5.051

HT Consumer Input = 1.265

3-Phase Consumer Input = 0.009

PSS Input = 3.618

 $T&D Loss = \{5.051-(1.265+0.009+3.618)\} = 0.159$

T&D Loss % = 3.15%



Energy Audit calculation for 33kV Kuakhia feeder:

S.NO.	PSS/HT CONSUMER NAME	METER NO	METER MF	CONSUMPTION
1	IDCOL FERRO CROM COLONY	NES50277	1200	0.024
2	M/S MAHARAJA RESOURCES PVT. LTD.	NES50976	1200	0.121
3	NINL PUMP HOUSE	TPN64773	3000	0.002
4	33/11 KV BYASASAROBARA PSS	TPN60515	120000	1.177
5	33/11 KV MARTHAPUR PSS	TPN60737	120000	0.354
6	33/11 KV MATHASAHI PSS	TPN60807	60000	1.541
7	MEGALIFT	NSC95187	60000	0.016
8	33/11 KV BARABATI PSS	TPN60581	60000	1.108
9	33/11 KV KUAKHIA PSS	TPN60612	60000	2.793

33 KV Kuakhia Feeder Input = 7.524

HT Consumer Input = 0.161

PSS Input = 6.793

 $T\&D Loss = \{7.524-(0.161+6.793)\} = 0.39$

T&D Loss % = 5.18%



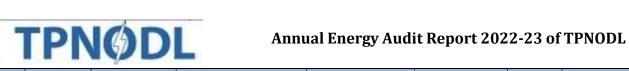
11 kV Feeder loss sheet:

S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
1	BALASORE	BED, Balasore	GANASWARPUR	KURUDA	AMR	5.50	3.55	36%
2	BALASORE	BED, Balasore	RAMESHWAR MANDIR	BUS STAND	OTHER	1.58	1.25	21%
3	BALASORE	BED, Balasore	SOVARAMPUR	BALIA	AMR	1.13	0.61	46%
4	BALASORE	BED, Balasore	CITY	ALUPUR	AMR	1.23	0.83	33%
5	BALASORE	BED, Balasore	SWADHINPADIA	BALARAMGADI	AMR	2.65	1.97	26%
6	BALASORE	BED, Balasore	SWADHINPADIA	FISHERY	AMR	0.67	0.49	27%
7	BALASORE	BED, Balasore	DIGRANIA	SUNHAT	AMR	1.99	1.62	19%
8	BALASORE	BED, Balasore	GOPALGAON	RANIPATNA	OTHER	2.03	1.16	43%
9	BALASORE	BTED, Basta	BALIAPAL	BALIAPAL	OTHER	1.61	1.49	7%
10	BALASORE	BTED, Basta	KALIAPADA	CHOWMUKH	AMR	0.83	0.45	45%
11	BALASORE	BTED, Basta	BASTA	MATHANI	AMR	1.13	0.90	20%
12	BALASORE	BTED, Basta	BASTA	SARTHA	AMR	1.75	1.13	35%
13	BALASORE	BTED, Basta	JAMSULI	NAIKUDI-1	OTHER	0.93	0.86	8%
14	BALASORE	BTED, Basta	SITADIHA(SIMILIA)	SITADIHA	AMR	0.49	0.38	21%
15	BALASORE	BTED, Basta	LANGALESWAR	BANIADIHA	AMR	1.39	0.80	43%
16	BALASORE	CED, Balasore	DURGADEVI	DURGADEVI	AMR	0.91	0.67	26%
17	BALASORE	CED, Balasore	(REMUNA)BIDYADHARPUR	GOURPUR	OTHER	0.69	0.51	26%
18	BALASORE	CED, Balasore	(REMUNA)BIDYADHARPUR	NUAPADHI	OTHER	0.72	0.42	42%
19	BALASORE	CED, Balasore	AJODHYA	AJODHYA	AMR	0.63	0.46	27%
20	BALASORE	CED, Balasore	AJODHYA	KANSA	AMR	0.80	0.51	36%
21	BALASORE	CED, Balasore	AJODHYA	MITHALI	AMR	0.29	0.25	14%
22	BALASORE	CED, Balasore	NILAGIRI	GOPINATHPUR	AMR	0.51	0.27	47%
23	BALASORE	CED, Balasore	NILAGIRI	PANCHALINGESWAR	AMR	1.11	0.92	17%
24	BALASORE	CED, Balasore	NILAGIRI	RAJANAGAR	AMR	0.71	0.41	43%
25	BALASORE	CED, Balasore	SERGARH	INDUSTRIAL	OTHER	0.98	0.53	46%
26	BALASORE	CED, Balasore	ODANGI	BALISUAN	AMR	0.98	0.57	42%
27	BALASORE	CED, Balasore	RUPSA	KASIAPADA	OTHER	0.81	0.74	9%
28	BALASORE	CED, Balasore	FULADI	FULADI	OTHER	1.24	0.89	28%
29	BALASORE	CED, Balasore	FULADI	NAGRAM	AMR	0.59	0.32	46%
30	BALASORE	CED, Balasore	FULADI	PADAMPUR	AMR	0.65	0.46	28%
31	BALASORE	CED, Balasore	RASALPUR	BHIMPUR	AMR	0.83	0.47	44%
32	BALASORE	CED, Balasore	SARAGAON	RASALPUR	OTHER	0.78	0.48	39%
33	BALASORE	CED, Balasore	SRIJANGA	KULIGAM	OTHER	0.43	0.27	36%
34	BALASORE	CED, Balasore	SRIJANGA	TUNDRA	OTHER	0.80	0.55	31%
35	BALASORE	CED, Balasore	BERAHAMPUR	BERHARMPUR	AMR	0.73	0.64	13%
36	BALASORE	CED, Balasore	BERAHAMPUR	GOHIRA	AMR	0.93	0.79	15%
37	BALASORE	JED, Jaleswar	JAGANNATHPUR	NIMATPUR	OTHER	1.87	0.97	48%
38	BALASORE	JED, Jaleswar	DEHURDA,JED	CHOUKI	AMR	0.34	0.29	16%



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S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
39	BALASORE	JED, Jaleswar	DEHURDA,JED	DEULA	AMR	1.75	1.41	19%
40	BALASORE	JED, Jaleswar	DEHURDA,JED	JAIRAMPUR	OTHER	1.20	0.82	32%
41	BALASORE	JED, Jaleswar	HATIGARH PSS	MAHULIA	OTHER	1.26	0.91	27%
42	BALASORE	JED, Jaleswar	HATIGARH PSS	RAJNAGAR	OTHER	1.54	1.04	33%
43	BALASORE	JED, Jaleswar	HATIGARH PSS	SAGI	OTHER	0.38	0.31	17%
44	BALASORE	JED, Jaleswar	TEGHARI	MAHULIA-2	OTHER	1.60	1.05	34%
45	BALASORE	JED, Jaleswar	JALESWAR	CHALANTI	OTHER	1.64	1.10	33%
46	BALASORE	JED, Jaleswar	KAMARDA	KAMARDA HEADQUARTER	AMR	0.55	0.40	28%
47	BALASORE	JED, Jaleswar	KAMARDA	MAHAGAB	AMR	0.69	0.47	32%
48	BALASORE	JED, Jaleswar	NAMPO PSS	SUGO	OTHER	1.32	0.94	29%
49	BALASORE	SED, Soro	BALIKHAND	BEGUNIA	AMR	1.06	1.00	6%
50	BALASORE	SED, Soro	JHAMJHUDI	KHIRKONA	AMR	0.50	0.35	31%
51	BALASORE	SED, Soro	JHAMJHUDI	JAMUJHADI BAZAR	AMR	0.24	0.20	19%
52	BALASORE	SED, Soro	JHAMJHUDI	JAMUJHADI RICE MILL	AMR	0.21	0.14	34%
53	BALASORE	SED, Soro	MARKONA	ADA	AMR	0.76	0.53	30%
54	BALASORE	SED, Soro	MARKONA	ANTAPUR	AMR	0.22	0.18	19%
55	BALASORE	SED, Soro	MARKONA	BARI	AMR	0.52	0.37	29%
56	BALASORE	SED, Soro	MARKONA	NAYAPALLI	AMR	0.55	0.50	10%
57	BALASORE	SED, Soro	BAHANAGA	BASULIPUR	OTHER	0.03	0.02	41%
58	BALASORE	SED, Soro	BAHANAGA	BIDU	OTHER	0.48	0.34	28%
59	BALASORE	SED, Soro	KHANTAPARA	PANPANA	AMR	0.92	0.56	39%
60	BALASORE	SED, Soro	KACHERIPADA	KESHARIPUR	AMR	0.28	0.17	37%
61	BALASORE	SED, Soro	KACHERIPADA	MANAITRI	AMR	0.26	0.13	49%
62	BALASORE	SED, Soro	BISHNUPUR (JHADTA)	ANJI	AMR	0.59	0.30	49%
63	BALASORE	SED, Soro	GOPALPUR	ARUHANBAD	OTHER	0.78	0.56	28%
64	BALASORE	SED, Soro	ANANTAPUR	ANANTAPUR	OTHER	0.82	0.42	48%
65	BALASORE	SED, Soro	ANANTAPUR	PAKHARA	OTHER	0.99	0.58	42%
66	BALASORE	SED, Soro	GOPINATHPUR	MULISINGH	OTHER	0.76	0.45	40%
67	BALASORE	SED, Soro	DUNGURA	GHARSANGA	AMR	0.58	0.48	18%
68	BALASORE	SED, Soro	GANDIBED	MAKHANPUR	OTHER	0.96	0.85	11%
69	BALASORE	SED, Soro	KHAIRA	ARJUNPUR	OTHER	0.09	0.05	45%
70	BALASORE	SED, Soro	KHAIRA	KHAIRA	OTHER	0.50	0.41	18%
71	BALASORE	SED, Soro	KUPARI	BARTANA	AMR	0.53	0.41	24%
72	BALASORE	SED, Soro	KUPARI	BAUNSAGADIA	AMR	0.20	0.14	29%
73	BALASORE	SED, Soro	KUPARI	KUPARI	AMR	0.59	0.42	28%
74	BALASORE	SED, Soro	OUPADA	OUPADA	AMR	0.31	0.28	8%
75	BALASORE	SED, Soro	ADDA	ADA BAZAR	AMR	0.41	0.34	17%
76	BALASORE	SED, Soro	ADDA	MURUNA	AMR	0.09	0.06	38%
77	BALASORE	SED, Soro	ADDA	RAFAYA	AMR	0.39	0.22	43%
78	BALASORE	SED, Soro	ADDA	SABANGA	AMR	0.21	0.12	43%
79	BALASORE	SED, Soro	PITAKALIA (ODSSP)	SABIRA	AMR	0.41	0.34	18%
80	BALASORE	SED, Soro	PITAKALIA (ODSSP)	SARSANG	AMR	0.56	0.38	32%



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S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
81	BALASORE	SED, Soro	COLLEGE CHHAKA	MANIPUR	OTHER	0.52	0.38	29%
82	BALASORE	SED, Soro	COLLEGE CHHAKA	SOROTOWN	OTHER	1.91	1.52	21%
83	BARIPADA	BPED, Baripada	RANDASAHI	KUSUMBANDH	AMR	0.92	0.55	41%
84	BARIPADA	BPED, Baripada	JHARPOKHARIA	JHARPOKHARIA	AMR	1.09	0.92	16%
85	BARIPADA	BPED, Baripada	CHANDUA	GADARGADI	AMR	0.61	0.42	31%
86	BARIPADA	BPED, Baripada	CHANDUA	KESHARPUR	AMR	0.46	0.30	34%
87	BARIPADA	BPED, Baripada	CHANDUA	KEUTUNIMARI	AMR	0.36	0.19	48%
88	BARIPADA	BPED, Baripada	KALABADIA PSS (KULIANA SECTION)	KULIANA	AMR	0.68	0.63	8%
89	BARIPADA	BPED, Baripada	BHALIASOLE PSS	CHUHAT	AMR	0.35	0.18	48%
90	BARIPADA	BPED, Baripada	BHALIASOLE PSS	SULIAPADA BAZAR	AMR	0.28	0.25	10%
91	BARIPADA	BPED, Baripada	KOSHTA PSS	KOSTA FEEDER	OTHER	0.66	0.47	29%
92	BARIPADA	BPED, Baripada	KUCHILAKHUNTA PSS	SIALGHATI	AMR	0.45	0.31	31%
93	BARIPADA	BPED, Baripada	SALABANI PSS	DANTIAMUHA (KC PUR)	AMR	0.59	0.34	42%
94	BARIPADA	BPED, Baripada	RASGOVINDPUR	MANIDA	AMR	0.80	0.41	49%
95	BARIPADA	BPED, Baripada	BAISINGHA	PAIKASAHI	AMR	0.90	0.55	39%
96	BARIPADA	BPED, Baripada	BETANOTI PSS	BETNOTI TOWN	AMR	1.48	1.38	6%
97	BARIPADA	BPED, Baripada	BARIPADA STADIUM	BHANJAPUR	OTHER	1.14	0.91	20%
98	BARIPADA	BPED, Baripada	LAL BAZAR (GOLAPBAG) (IPDS)	JUBILEE	AMR	2.37	1.80	24%
99	BARIPADA	BPED, Baripada	TAKATPUR	LIC	OTHER	1.27	1.18	7%
100	BARIPADA	BPED, Baripada	TAKATPUR	PALBANI	OTHER	1.46	0.99	32%
101	BARIPADA	BPED, Baripada	CHHANCHA	RURAL	OTHER	1.05	0.90	14%
102	BARIPADA	BPED, Baripada	RAGHUNATHPUR	KULIANA	AMR	0.48	0.25	47%
103	BARIPADA	BPED, Baripada	SAMAKHUNTA	BALDIHA	AMR	0.32	0.23	28%
104	BARIPADA	BPED, Baripada	SAMAKHUNTA	KENDUA	AMR	0.19	0.13	30%
105	BARIPADA	BPED, Baripada	SAMAKHUNTA	SAMAKHUNTA	AMR	0.73	0.60	18%
106	BARIPADA	BPED, Baripada	SAPANICHUA	BHALKI	AMR	0.46	0.32	30%
107	BARIPADA	RED, Rairangpur	KARANJIA PSS	KERKERA	OTHER	0.58	0.51	11%
108	BARIPADA	RED, Rairangpur	THAKURMUNDA PSS	CHAMPAJHAR	OTHER	0.77	0.53	32%
109	BARIPADA	RED, Rairangpur	THAKURMUNDA PSS	MAHULDIHA	AMR	0.71	0.62	13%
110	BARIPADA	RED, Rairangpur	THAKURMUNDA PSS	THAKURMUNDA	AMR	0.77	0.56	27%
111	BARIPADA	RED, Rairangpur	BAHALDA PSS	BAHALDA	AMR	1.75	1.18	32%
112	BARIPADA	RED, Rairangpur	BAHALDA PSS	BASINGI	AMR	0.64	0.51	21%
113	BARIPADA	RED, Rairangpur	KANTABANI PSS	DUBULABEDA	OTHER	1.14	0.80	30%
114	BARIPADA	RED, Rairangpur	KANTABANI PSS	RAIRANGPUR TOWN	AMR	1.29	1.09	16%
115	BARIPADA	RED, Rairangpur	TIRING PSS	TIRING	AMR	0.75	0.68	9%
116	BARIPADA	RED, Rairangpur	JAMDA PSS	JAMDA	OTHER	0.97	0.84	14%
117	BARIPADA	RED, Rairangpur	BIJATOLA PSS	PATPURA	OTHER	0.86	0.53	38%
118	BARIPADA	RED, Rairangpur	BISOI PSS	BISOI BLOCK	OTHER	0.69	0.57	17%



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S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
119	BARIPADA	RED, Rairangpur	ASANBANI	ANLADUBA	AMR	0.66	0.56	14%
120	BARIPADA	UED, Udala	BADASAHI	SINGTIA	OTHER	0.34	0.18	47%
121	BARIPADA	UED, Udala	PURNABARIPPADA	KUAMARA	OTHER	0.51	0.30	42%
122	BARIPADA	UED, Udala	PURNABARIPPADA	PASUDA	OTHER	0.38	0.31	18%
123	BARIPADA	UED, Udala	PURNABARIPPADA	SAINKULA	OTHER	0.38	0.31	19%
124	BARIPADA	UED, Udala	MANITREE	BHIMDA	OTHER	0.39	0.30	24%
125	BARIPADA	UED, Udala	MANITREE	DEULIA	OTHER	0.55	0.41	25%
126	BARIPADA	UED, Udala	MANITREE	MANAGOVINDPUR	OTHER	0.47	0.35	26%
127	BARIPADA	UED, Udala	AMBADALI	KHANUA	AMR	0.08	0.06	30%
128	BARIPADA	UED, Udala	AMBADALI	PRATAPUR	AMR	0.34	0.21	40%
129	BARIPADA	UED, Udala	SANKERKO	JADUNATHPUR	OTHER	0.23	0.16	29%
130	BARIPADA	UED, Udala	KHUNTA	KUSALDA	OTHER	0.97	0.54	44%
131	BARIPADA	UED, Udala	KHUNTA	SEEMAGADIA	OTHER	1.08	0.85	21%
132	BARIPADA	UED, Udala	SARAT	KATURIA	AMR	0.19	0.15	17%
133	BARIPADA	UED, Udala	KAPTIPADA	PEDAGADI	OTHER	0.55	0.43	22%
134	BARIPADA	UED, Udala	NUDUDIHA	NUDUDIHAA	AMR	0.23	0.15	33%
135	BARIPADA	UED, Udala	UDALA	PURUNA KHUNTA	OTHER	0.84	0.70	17%
136	BHADRAK	BNED, Bhadrak	BILANA (ODSSP)	BILANA	AMR	0.86	0.62	29%
137	BHADRAK	BNED, Bhadrak	BILANA (ODSSP)	NUNDOR	AMR	0.47	0.26	45%
138	BHADRAK	BNED, Bhadrak	POWER HOUSE	MATHASAHI	OTHER	0.84	0.74	12%
139	BHADRAK	BNED, Bhadrak	TAHASIL	BANTHCHAAK	OTHER	1.91	1.29	33%
140	BHADRAK	BNED, Bhadrak	POWER HOUSE	KANTABANIA	OTHER	1.30	0.84	35%
141	BHADRAK	BNED, Bhadrak	TAHASIL	SANTHIA	OTHER	2.27	1.32	42%
142	BHADRAK	BNED, Bhadrak	POWER HOUSE	CHARAMPA-II	OTHER	1.24	0.67	46%
143	BHADRAK	BNED, Bhadrak	ASURA	CHANDIGAON	AMR	0.35	0.31	12%
144	BHADRAK	BNED, Bhadrak	ASURA	CHARAMPA COLLEGE	AMR	1.60	1.05	35%
145	BHADRAK	BNED, Bhadrak	ASURA	POLY	AMR	0.43	0.26	41%
146	BHADRAK	BNED, Bhadrak	RAHANJA	RAHANJA	AMR	0.44	0.24	45%
147	BHADRAK	BNED, Bhadrak	BIJEGANGADHARPUR (ODSSP)	SANGAT	AMR	0.17	0.10	42%
148	BHADRAK	BNED, Bhadrak	KUNDIBAG (ODSSP)	BARANGA	AMR	1.19	0.85	29%
149	BHADRAK	BNED, Bhadrak	KUNDIBAG (ODSSP)	HARISHAKARPUR	AMR	0.50	0.35	31%
150	BHADRAK	BNED, Bhadrak	KUNDIBAG (ODSSP)	NACHIPUR	AMR	0.24	0.16	33%
151	BHADRAK	BNED, Bhadrak	NANDAPUR (TIHIDI)	DOLASAHI	AMR	0.75	0.52	30%
152	BHADRAK	BNED, Bhadrak	NANDAPUR (TIHIDI)	KAMARIA	AMR	1.03	0.66	36%
153	BHADRAK	BNED, Bhadrak	NANDAPUR (TIHIDI)	TALAPADA	AMR	0.51	0.26	49%
154	BHADRAK	BNED, Bhadrak	NANDAPUR (TIHIDI)	TIHIDI	AMR	1.69	0.86	49%
155	BHADRAK	BNED, Bhadrak	SINDOL (ODSSP)	KOLHA	AMR	0.43	0.26	40%
156	BHADRAK	BNED, Bhadrak	SINDOL (ODSSP)	MADHAPUR	AMR	0.74	0.45	39%
157	BHADRAK	BNED, Bhadrak	CHANDABALI	BIJAYANAGAR	AMR	0.78	0.62	21%
158	BHADRAK	BNED, Bhadrak	CHANDABALI	CHANDABALI	AMR	1.88	1.41	25%
159	BHADRAK	BNED, Bhadrak	CHANDABALI	TENTULIDIHI	AMR	0.44	0.28	37%
160	BHADRAK	BNED, Bhadrak	MATTO (ODSSP)	MATTO RURAL	AMR	0.51	0.27	47%

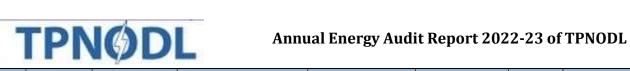


S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
161	BHADRAK	BNED, Bhadrak	MATTO (ODSSP)	MATTO TOWN	AMR	0.70	0.51	28%
162	BHADRAK	BNED, Bhadrak	JASHIPUR	GHANTESWAR	AMR	1.33	1.11	17%
163	BHADRAK	BNED, Bhadrak	JASHIPUR	JALESWARPUR	AMR	0.24	0.22	7%
164	BHADRAK	BNED, Bhadrak	BASUDEVPUR	PADMAPUR	OTHER	2.24	1.52	32%
165	BHADRAK	BNED, Bhadrak	BASUDEVPUR	CHANDIMAL	AMR	1.94	1.23	37%
166	BHADRAK	BNED, Bhadrak	BASUDEVPUR	NARASINGHAPUR-II	OTHER	0.46	0.34	26%
167	BHADRAK	BNED, Bhadrak	BASUDEVPUR	ERAM BAZAR	OTHER	1.68	1.05	38%
168	BHADRAK	BNED, Bhadrak	ERAM	ERAM	AMR	0.64	0.49	23%
169	BHADRAK	BNED, Bhadrak	BIDEIPUR	BALIMUDA	OTHER	1.74	1.05	40%
170	BHADRAK	BNED, Bhadrak	DHAMARA	DOSINGA	AMR	1.32	1.09	17%
171	BHADRAK	BSED, Bhadrak	BISALPATA	CHARIGAN	OTHER	0.32	0.25	20%
172	BHADRAK	BSED, Bhadrak	BISALPATA	KADABARANGA	OTHER	0.15	0.10	33%
173	BHADRAK	BSED, Bhadrak	ASURALI	ARNAPALA	AMR	1.80	1.01	44%
174	BHADRAK	BSED, Bhadrak	ASURALI	DHUSURI	OTHER	1.40	1.11	21%
175	BHADRAK	BSED, Bhadrak	ASURALI	JHARADIA	AMR	0.16	0.10	33%
176	BHADRAK	BSED, Bhadrak	ASURALI	NADIGAN	AMR	0.49	0.40	18%
177	BHADRAK	BSED, Bhadrak	DAHALA	AKHUAPADA(Dahala)	OTHER	0.73	0.43	41%
178	BHADRAK	BSED, Bhadrak	DAHALA	MANJURIROAD	OTHER	0.73	0.48	34%
179	BHADRAK	BSED, Bhadrak	DAHALA	RWSS	OTHER	0.05	0.04	23%
180	BHADRAK	BSED, Bhadrak	MALDA (ODSSP)	MALDA	AMR	0.59	0.32	46%
181	BHADRAK	BSED, Bhadrak	MALDA (ODSSP)	RAHANIA	OTHER	0.18	0.11	40%
182	BHADRAK	BSED, Bhadrak	DHAMNAGARCHHAKA	GUHALIA	OTHER	0.20	0.17	13%
183	BHADRAK	BSED, Bhadrak	DHAMNAGARCHHAKA	INDUSTRIAL	OTHER	0.14	0.12	12%
184	BHADRAK	BSED, Bhadrak	DHAMNAGARCHHAKA	NIRGUNDI	OTHER	0.51	0.45	12%
185	BHADRAK	BSED, Bhadrak	DHAMNAGAR (IPDS)	BHAGABANPUR	OTHER	0.41	0.30	25%
186	BHADRAK	BSED, Bhadrak	DHAMNAGAR (IPDS)	DHAMNAGAR	OTHER	1.59	1.12	30%
187	BHADRAK	BSED, Bhadrak	RANIPOKHARI (ODSSP)	KHANGARA	AMR	0.76	0.44	41%
188	BHADRAK	BSED, Bhadrak	BARAPADA	KAUPUR	OTHER	0.81	0.51	37%
189	BHADRAK	BSED, Bhadrak	RANDHIA	SARAMANGA	OTHER	0.54	0.37	30%
190	JAJPUR	JRED	DEULKANA	NACHHIPURA	AMR	0.93	0.83	11%
191	JAJPUR	JRED	DUBURI	PANKAPAL	AMR	1.45	0.85	41%
192	JAJPUR	JRED	DAMODARPUR	MANGALPUR	AMR	0.55	0.28	49%
193	JAJPUR	JRED	DAMODARPUR	PIMPUDIA	AMR	0.18	0.11	40%
194	JAJPUR	JRED	MANPUR (ODSSP)	MANPUR	AMR	1.10	0.66	40%
195	JAJPUR	JRED	MANPUR (ODSSP)	SOLEI	AMR	0.81	0.50	38%
196	JAJPUR	JRED	CHORDA	SAPAGHADIA	AMR	1.97	1.05	47%
197	JAJPUR	JRED	BYASASAROBAR	MUNDAMAL	AMR	0.73	0.50	31%
198	JAJPUR	JRED	BYASASAROBAR	RACHHIPUR	AMR	1.24	0.90	27%
199	JAJPUR	JRED	MARTHAPUR	MARTHAPUR	AMR	0.38	0.25	34%
200	JAJPUR	JRED	PANIKOILI	NATHASAHI	AMR	1.29	0.83	35%
201	JAJPUR	JRED	PANIKOILI	SARASWATI BAZAR	AMR	0.60	0.51	14%
202	JAJPUR	JRED	SALAKANA	BT ROAD	AMR	1.60	1.09	32%



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S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
203	JAJPUR	JRED	DHABALGIRI	DHABALGIRI	AMR	1.62	1.30	20%
204	JAJPUR	JRED	DHABALGIRI	NILACHACHAL	AMR	0.62	0.56	10%
205	JAJPUR	JRED	FIRESTATION	RANIPADA	AMR	0.48	0.29	39%
206	JAJPUR	JRED	FIRESTATION	TALAGADA	AMR	0.76	0.44	42%
207	JAJPUR	JRED	RAGADI	RAGADI	AMR	1.12	0.88	21%
208	JAJPUR	JRED	SALAKANA	KORAI	AMR	1.06	0.62	42%
209	JAJPUR	JRED	SALAKANA	TULATI	AMR	0.31	0.21	34%
210	JAJPUR	JTED	MANSARA	KALYANPUR	AMR	0.17	0.13	21%
211	JAJPUR	JTED	MAINDA	CHHIKANA	AMR	0.64	0.47	27%
212	JAJPUR	JTED	DAMDHADA	GUHALI	AMR	0.75	0.66	13%
213	JAJPUR	JTED	DAMDHADA	MARKANDAPUR	AMR	0.83	0.58	30%
214	JAJPUR	JTED	JAJPUR TOWN	BIRAJAHAT	AMR	1.06	0.70	34%
215	JAJPUR	JTED	JAJPUR TOWN	NO-1	AMR	3.25	2.24	31%
216	JAJPUR	JTED	JAJPUR TOWN	NO-2	AMR	3.22	2.42	25%
217	JAJPUR	JTED	JAJPUR TOWN	GOKHANA	AMR	0.60	0.48	21%
218	JAJPUR	JTED	JAJPUR TOWN	SIMULIA	AMR	0.79	0.59	25%
219	JAJPUR	JTED	BASANTIPADIA	AHIYAS	AMR	0.69	0.58	15%
220	JAJPUR	JTED	BASANTIPADIA	BAISPAN	AMR	0.52	0.35	34%
221	JAJPUR	JTED	BOULANGA	OLD DASRATHPUR	AMR	0.92	0.52	44%
222	JAJPUR	JTED	KANTIPADIA	DASARATHPUR	AMR	1.22	0.99	19%
223	JAJPUR	JTED	KANTIPADIA	NANDIPUR	AMR	0.59	0.47	21%
224	JAJPUR	JTED	BOULANGA	NARIGAON	AMR	1.20	0.78	34%
225	JAJPUR	JTED	BOULANGA	OLD AHIYAS	AMR	0.11	0.09	12%
226	JAJPUR	KUED	JARKA	NAKPOLE	AMR	1.31	0.98	25%
227	JAJPUR	KUED	NARSINGHPUR	KOTAPUR	AMR	0.77	0.44	43%
228	JAJPUR	KUED	NARSINGHPUR	KUNDAPATANA	AMR	0.50	0.40	21%
229	JAJPUR	KUED	CHADHEIDHARA	JENAPUR	AMR	0.26	0.16	38%
230	JAJPUR	KUED	KABATABANDHA	JENAPUR	AMR	1.93	1.04	46%
231	JAJPUR	KUED	CHITRAKULA(BARABATI)	BARABATI	AMR	0.60	0.33	45%
232	JAJPUR	KUED	KUAKHIA	BARABATI BAZAR	AMR	1.73	0.89	49%
233	JAJPUR	KUED	KUAKHIA	HARIPUR	AMR	1.28	1.21	6%
234	JAJPUR	KUED	CHITRAKULA(BARABATI)	SINGHPUR	AMR	1.05	0.57	46%
235	JAJPUR	KUED	MATHASAHI	DIPANCHAL	AMR	0.58	0.54	6%
236	JAJPUR	KUED	MATHASAHI	MADHUBAN	AMR	0.81	0.52	35%
237	JAJPUR	KUED	RATNAGIRI	RAIPUR	AMR	0.47	0.39	17%
238	JAJPUR	KUED	BARI	KAIPADA	AMR	0.72	0.57	21%
239	JAJPUR	KUED	BALIA	BANIARI	AMR	0.26	0.15	42%
240	JAJPUR	KUED	SUJANPUR	KUJHALA	AMR	0.70	0.53	24%
241	JAJPUR	KUED	SUJANPUR	RAGHUNATHPUR	AMR	0.78	0.49	37%
242	JAJPUR	KUED	SUJANPUR	BRAHMABARADA	AMR	2.83	2.07	27%
243	JAJPUR	KUED	BARUAN	BARUAN	AMR	0.22	0.17	22%
244	JAJPUR	KUED	BARUAN	KACHARINGA	AMR	0.16	0.10	34%



S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
245	JAJPUR	KUED	BARUAN	SANKHAMATHA	AMR	0.49	0.25	49%
246	KEONJHAR	AED, ANANDPUR	BIDYADHARAPUR	BAULA	AMR	0.68	0.64	7%
247	KEONJHAR	AED, ANANDPUR	BIDYADHARAPUR	HADAGARH	AMR	0.41	0.36	12%
248	KEONJHAR	AED, ANANDPUR	BIDYADHARAPUR	WATER SUPPLY	OTHER	0.32	0.17	46%
249	KEONJHAR	AED, ANANDPUR	BIDYADHARAPUR	SOSO	AMR	0.50	0.40	19%
250	KEONJHAR	AED, ANANDPUR	ANANDPUR	ANANDPUR	AMR	1.29	1.06	18%
251	KEONJHAR	AED, ANANDPUR	SALABANI (ODSSP)	TARATARA	AMR	0.35	0.23	36%
252	KEONJHAR	AED, ANANDPUR	CHHENAPADI (ODSSP)	BANCHO	AMR	0.33	0.20	40%
253	KEONJHAR	AED, ANANDPUR	CHHENAPADI (ODSSP)	MUGUPUR	AMR	0.55	0.48	13%
254	KEONJHAR	AED, ANANDPUR	GHASIPURA	BELABAHALI	AMR	0.99	0.56	43%
255	KEONJHAR	AED, ANANDPUR	GHASIPURA	DHAKOTA	AMR	0.78	0.58	25%
256	KEONJHAR	AED, ANANDPUR	GHASIPURA	SALAPADA	AMR	1.30	0.99	24%
257	KEONJHAR	AED, ANANDPUR	REKUTIA (ODSSP)	DEOGAON	AMR	0.72	0.58	20%
258	KEONJHAR	AED, ANANDPUR	REKUTIA (ODSSP)	KANSA	AMR	0.79	0.45	43%
259	KEONJHAR	AED, ANANDPUR	REKUTIA (ODSSP)	KESHDURAPAL	AMR	0.37	0.33	11%
260	KEONJHAR	AED, ANANDPUR	SAINKUL (ODSSP)	BATTO	AMR	0.98	0.58	41%
261	KEONJHAR	AED, ANANDPUR	DHENKIKOTE	KETANGA	AMR	0.35	0.32	11%
262	KEONJHAR	AED, ANANDPUR	PIPILIA (ODSSP)	JHARBEDA	AMR	0.58	0.44	23%
263	KEONJHAR	AED, ANANDPUR	PIPILIA (ODSSP)	TORANIPOKHARI	AMR	0.45	0.26	42%
264	KEONJHAR	AED, ANANDPUR	HARICHANDANPUR	BADAPALASPAL	AMR	1.09	0.63	42%
265	KEONJHAR	AED, ANANDPUR	HARICHANDANPUR	PITHAGALA	AMR	1.01	0.59	41%
266	KEONJHAR	AED, ANANDPUR	GHATAGAON (ODSSP)	BAIGANAPAL	AMR	0.23	0.19	19%
267	KEONJHAR	AED, ANANDPUR	GHATAGAON (ODSSP)	DHANGARDIHA	AMR	0.33	0.24	26%
268	KEONJHAR	AED, ANANDPUR	GHATAGAON (ODSSP)	GADADHARPUR	AMR	0.36	0.23	38%
269	KEONJHAR	AED, ANANDPUR	GHATAGAON (ODSSP)	GHATAGAON MARKET	AMR	0.76	0.49	35%
270	KEONJHAR	AED, ANANDPUR	PANDAPADA (ODSSP)	RUTISHILA	AMR	0.46	0.30	34%
271	KEONJHAR	AED, ANANDPUR	JANGHIRA (ODSSP)	JANGHIRA(JAN)	AMR	0.85	0.46	46%
272	KEONJHAR	AED, ANANDPUR	JANGHIRA (ODSSP)	JUNGA	AMR	0.25	0.14	45%
273	KEONJHAR	JOED, JODA	CHAMPUA	CHIMILA	AMR	0.47	0.30	37%
274	KEONJHAR	JOED, JODA	JHUMPURA	HANDIBHANGA	AMR	0.48	0.45	7%
275	KEONJHAR	JOED, JODA	JHUMPURA	JHUMPURA	AMR	1.42	0.91	36%
276	KEONJHAR	JOED, JODA	JHUMPURA	PALASPANGA	AMR	1.47	1.08	27%
277	KEONJHAR	JOED, JODA	BASUDEVPUR (ODSSP)	BASUDEVPUR	AMR	0.25	0.15	41%
278	KEONJHAR	JOED, JODA	REMULI	BALIBANDHA	OTHER	1.00	0.69	31%



S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
279	KEONJHAR	JOED, JODA	REMULI	CHAUTHIA	OTHER	0.54	0.33	40%
280	KEONJHAR	JOED, JODA	REMULI	REMULI PHD	OTHER	0.27	0.22	21%
281	KEONJHAR	JOED, JODA	UKHUNDA (ODSSP)	ASANPAT	AMR	0.39	0.35	10%
282	KEONJHAR	JOED, JODA	UKHUNDA (ODSSP)	BALAJHARI	AMR	0.24	0.20	20%
283	KEONJHAR	JOED, JODA	UKHUNDA (ODSSP)	KASHIPUR	AMR	0.22	0.19	14%
284	KEONJHAR	JOED, JODA	UKHUNDA (ODSSP)	UKHUNDA TOWN	AMR	0.12	0.10	19%
285	KEONJHAR	JOED, JODA	SUNDARA (BARBIL)	KALINGA	OTHER	0.33	0.24	29%
286	KEONJHAR	JOED, JODA	BHADRASAHI (ODSSP)	BHADRASAHI TOWN	AMR	2.02	1.61	21%
287	KEONJHAR	JOED, JODA	RUGUDI	RUGUDI	OTHER	1.44	1.26	13%
288	KEONJHAR	JOED, JODA	JODA(HIRAKUD COLONY) (ODSSP)	BANEIKALA	AMR	2.62	1.41	46%
289	KEONJHAR	JOED, JODA	JODA(HIRAKUD COLONY) (ODSSP)	BILEIPADA	AMR	1.52	0.94	38%
290	KEONJHAR	JOED, JODA	JODA(HIRAKUD COLONY) (ODSSP)	JODA TOWN	AMR	3.30	1.72	48%
291	KEONJHAR	KED, KEONJHAR	RAISUAN (ODSSP)	BANAJODI	AMR	0.65	0.56	13%
292	KEONJHAR	KED, KEONJHAR	RAISUAN (ODSSP)	KEMSODA	AMR	0.33	0.30	11%
293	KEONJHAR	KED, KEONJHAR	KENDEIPOSI (ODSSP)	KENDUAPADA	AMR	0.20	0.15	22%
294	KEONJHAR	KED, KEONJHAR	MUSAKHORI (ODSSP)	CHINAMALIPOSI	AMR	0.20	0.10	47%
295	KEONJHAR	KED, KEONJHAR	MUSAKHORI (ODSSP)	DUMURIA	AMR	0.25	0.13	47%
296	KEONJHAR	KED, KEONJHAR	MUSAKHORI (ODSSP)	MUSAKHORI	AMR	0.16	0.13	15%
297	KEONJHAR	KED, KEONJHAR	PATANA	PATANA	AMR	0.80	0.75	6%
298	KEONJHAR	KED, KEONJHAR	PATANA	SAHARPADA(PAT)	AMR	0.32	0.20	38%
299	KEONJHAR	KED, KEONJHAR	MACHAGADA (ODSSP)	MACHHAGARH(MAC)	AMR	0.21	0.12	46%
300	KEONJHAR	KED, KEONJHAR	SAHARAPADA	SAHARPADA(SAH)	AMR	0.68	0.43	36%
301	KEONJHAR	KED, KEONJHAR	BANSPAL	FULJHAR	AMR	0.46	0.27	41%
302	KEONJHAR	KED, KEONJHAR	BANSPAL	NAYAKOTE	AMR	0.60	0.35	41%
303	KEONJHAR	KED, KEONJHAR	KEONJHAR (GAMBARIA)	KJR TOWN-1	AMR	3.00	1.97	34%
304	KEONJHAR	KED, KEONJHAR	KEONJHAR (GAMBARIA)	KJR TOWN-3	AMR	2.77	2.05	26%
305	KEONJHAR	KED, KEONJHAR	KEONJHAR (GAMBARIA)	EXPRESS	AMR	0.80	0.60	25%
306	KEONJHAR	KED, KEONJHAR	KEONJHAR (GAMBARIA)	KJR TOWN-4	AMR	0.40	0.33	16%
307	KEONJHAR	KED, KEONJHAR	KEONJHAR (GAMBARIA)	KJR TOWN-2	AMR	3.23	2.25	30%
308	KEONJHAR	KED, KEONJHAR	KHIREITANGARI (ODSSP)	KANTIAPADA	AMR	0.12	0.09	32%
309	KEONJHAR	KED, KEONJHAR	KHIREITANGARI (ODSSP)	MAIDANKEL	AMR	0.35	0.22	36%
310	KEONJHAR	KED, KEONJHAR	NARANPUR (ODSSP)	JANGHIRA(NAR)	AMR	0.04	0.02	39%
311	KEONJHAR	KED, KEONJHAR	NARANPUR (ODSSP)	NARANPUR	AMR	0.54	0.31	43%
312	KEONJHAR	KED, KEONJHAR	NARANPUR (ODSSP)	SANKARPUR	AMR	0.39	0.27	30%
313	KEONJHAR	KED, KEONJHAR	JAGMOHANPUR (ODSSP)	JAGMOHANPUR	AMR	0.50	0.35	30%



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S.No.	Name of the Circle	Name of the Division	Name of the Sub-Station	Feeder Name	Type of feeder meter (AMI/AMR/Other)	Input Energy Received at Feeder (in MU)	Feeder Consumption (In MU)	T&D losses (%)
314	KEONJHAR	KED, KEONJHAR	TELKOI	KALIAHOTA	AMR	1.66	0.89	46%
315	KEONJHAR	KED, KEONJHAR	TELKOI	ORIYAGODA	AMR	0.17	0.16	6%
316	KEONJHAR	KED, KEONJHAR	TELKOI	TELKOI	AMR	0.50	0.32	36%

Observations:

- From the above table it can be concluded that % of Losses are relatively on higher side in Rural areas.
- Losses on all Agricultural Feeders are also on higher side.
- Highest % of losses observed at Manaitri (Rural Feeder) which is around 49%.

RECOMMENDATIONS

- 33 kV System Loss should be estimated as the difference of sending end energy from the 220 / 132 / 33 kV Grid Sub-Station and receiving end energy of Primary Substation including energy sent out to Bulk consumers at 33 kV level.
- 33 kV Loss should be computed considering one month consumption by taking meter reading of all the incoming 33 kV feeders of Primary Sub-Station including bulk 33 kV consumer and related 33 kV outgoing feeders of Grid Sub-Station.
- 33 kV line loss = Σ(33 kV O/G Feeder meter reading at GRID SUB-STATION Σ(33 kV I/C meter reading at PRIMARY SUBSTATION + 33 kV I/C meter reading at HT Bulk))
- Computation of 33/11 kV transformer loss: Σ 33 kV I/C meter reading at primary Substation
- –Σ 11 kV O/G meter reading at primary Substation.

> COMPUTATION OF 11 kV LOSS:

Energy Loss of 11 kV feeders should be arrived at by the difference between the sending end energy i.e. 11 kV outgoing feeders of primary sub-station and energy recorded at LV side of DTR including Bulk consumer connected in the same 11 kV feeder.

11 kV Loss should be computed considering one month's energy consumption by taking the meter reading of the 11 kV feeder of Primary Substation and all the DTR meter reading connected in the same 11 kV feeder and bulk consumer connected in the same 11 kV feeder.

Thus the total 11 kV loss for this circle found out as

11 kV line loss = Σ (11 kV O/G Feeder meter reading at Primary Substation – Σ All DTRs'meter reading connected to that 11 kV feeder) – Σ 11 kV I/C meter reading at HT Bulk.



> COMPUTATION OF LT LOSS:

Energy Loss of LT feeders should be arrived at by the difference between the sending end energy i.e. Distribution Transformer (DTR) and Energy recorded at consumer meters of LT consumers connected in the same DTR.

LT Loss should be computed considering one month's energy consumption by taking meterreading of DTR and the entire Consumers' meter reading connected to the same DTR.

Thus the total LT line loss for these circles is found out as

LT line loss = Σ (11/0.44 KV DTR meter reading – Σ All consumers' meter reading connected to that DTR)

> COMPUTATION OF COMMERCIAL LOSS:

Commercial Loss may be found out as

- = AT&C Loss Technical Loss
- = {(1 Billing Efficiency x Collection Efficiency) x 100} (33 kV loss + 33/11 kV transformer loss)
- + (11 kV Line Loss + LT Line Loss)

The Billing efficiency, Collection Efficiency, Energy Billed and Energy to be collected from the TPNODL.

Technical Loss i.e.; 33 kV, 11 kV and LT Line Losses to be computed as mentioned above.

Hence Total amount of Commercial Loss has been arrived by deducting all other components from AT&C Loss

RECOMMENDATION

a) Energy loss due to theft/ pilferage:

During field survey it was observed that there is some energy lost due to theft/ pilferage in the Power system. It needs to be prevented by checking periodically.

b) Defective meters:

Considerable percentage of defective meters is one of the reasons for provisional billing and consequential commercial losses in the TPNODL. Some energy meters installed at the consumer premises are found to be defective.



RECOMMENDATIONS

Technical loss recommendation

- Reduction in Transmission losses:
- > Improvement in power factor
- > Reconductring of transmission line
- > Conversion of single circuit to double circuit

Reduction of Transformer losses:

- > Improvement of die electric strength of transformer oil
- > Improvement of power factor
- > Thermographs of primary/ secondary cable/ bus terminations
- Reduction of contact resistance of terminations
- > Regular checking and replacement of silica gel

Reduction of Bus Iosses

- > Visual inspection of bus for detection of any loose connections or oxidation
- > Thermographs of bus section for thermal imaging to detect any hot spots/ joints
- > Reduction in contact resistance by proper termination after cleaning & tightening of contacts
- > Replacement of bus by that of higher cross section & of material of higher conductivity (Copper in place of Aluminum) if necessary.



6.0 DEMAND SIDE MANAGEMENT (DSM), ENERGY EFFICIENCY & CONSERVATION:

Demand Side Management (DSM) is applied to energy efficiency measures that would modify or reduce end-user's energy demand. It is basically the selection, planning and implementation of measures intended to have an influence on the demand either caused directly or indirectly by the utility's programs. Hon'ble OERC has framed Odisha Electricity Regulatory Commission (Demand Side Management) Regulations, 2011, based on which DISCOM has to prepare the action plan and take measures for implementation of DSM Regulations.

TPNODL has established a Distribution System Operations Control Centre i.e. (DSOCC) (ABT Cell)in its Head Office for management of load at 33KV and 11KV feeder level, so that it can adhere to allotted drawl schedule of SLDC.

Following DSM measures and energy conservation options are proposed to beimplemented in TPNODL.

Promoting the use of Energy Efficient Products:

It is proposed that TPNODL should promote Energy Efficient Lighting System (LED Bulbs, Tube lights and Energy Efficient Fans) in association with BEE / EESL / Private ESCO in its utility area. The availability of LED Bulbs, Tube Lights, BLDC Fans, IE3 Meters which are supposed to be distributed to consumers through BEE / EESL / Private ESCO as part of the Utility based Demand Side Management Program are not available in plenty. TPNODL may discuss with BEE / EESL / Private ESCO to open more outlets and increase the LED Lights, Super Efficient AC and Fans Distribution.

Promoting the use of renewable energy (Solar) through facilitation:

Hon'ble Commission has notified Net Metering Scheme for Solar Roof Top Project in the consumer premises. TPNODL should popularize the scheme for LT consumers and provide prompt support and cooperation to the consumer for net metering agreement and solar project interconnection with DISCOM systems. Once Solar Interconnection happens at the LT systems, this will improve the voltage profile and reduce LT loss. Also the RPO of GRIDCO / DISCOM can be compiled which may reduce the BSP in future and will lead to financial savings for DISCOM. TPNODL should conduct more nos. of Consumer awareness programs on saving electricity, electricity wastage, power theft, using electricity during off peak hour, using star rated equipment.

Sensitization Program on kVAh Billing:

At present Hon'ble OERC has implemented kVAh billing for the HT/ EHT/ Commercial / MSME and Industrial consumers. In view of the kVAh billing, the consumer which are having low power factor are paying higher energy bills, still the awareness about kVAh billing is not there and consumers are operating with low Power Factors. TPNODL may carry out special drives forawareness and sensitization about kVAh billing. This may lead to more numbers of APFC installation and improvement in Power Factor and will lower the burden on the existing infrastructure. TPNODL may sign MoU with ESCO / AFPC installer under the Utility based Demand Side Management program so that APFC installer will assess the data base of Consumers with low power factor, take necessary action for installation of APFC Panels in consultation with Consumers directly.



Facilitating Industrial Energy Efficiency:

TPNODL can facilitate DSM measures in industrial segments by promoting use of energy efficient motors, pumps, compressors, capacitor bank, etc. TPNODL can coordinate and inform BEE / EESL

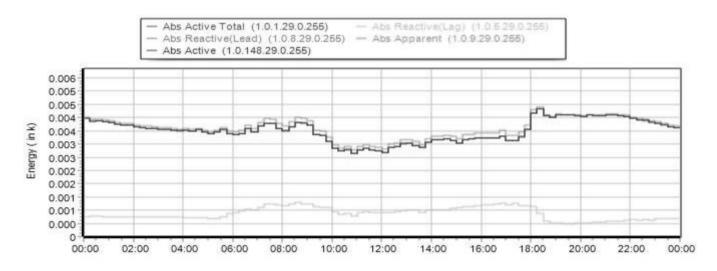
/ Private ESCO to provide the Industrial LED lighting Solution, Solution, IE3 Motors and Energy Efficient in ESCO / PMC model as per the provision of DSM Regulations. This will facilitate Demand Side Management in a long way.

The costs benefit analysis various proposed DSM measures are furnished below.

6.1 ANALYSIS OF BLOCK WISE DRAWAL PATTERN

During Audit period Energy Pattern for different days in the Month of March 2023 was collected and sample load pattern is depicted as under.

06/03/2023 : Energy



Param 1 : Abs Active Total (1.0.1.29.0.255)

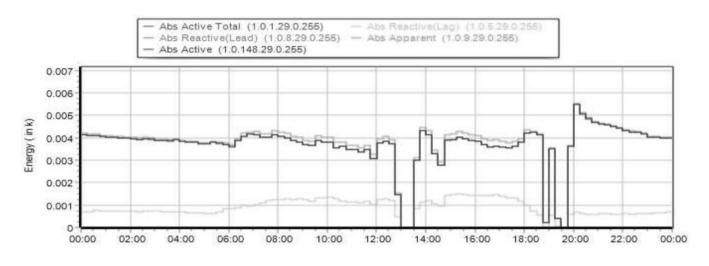
Param 3 : Abs Reactive(Lead) (1.0.8.29.0.255)

Param 2 : Abs Reactive(Lag) (1.0.5.29.0.255)

Param 4 : Abs Apparent (1.0.9.29.0.255)

Param 5 : Abs Active (1.0.148.29.0.255)

07/03/2023 : Energy



Param 1 : Abs Active Total (1.0.1.29.0.255)

Param 3 : Abs Reactive(Lead) (1.0.8.29.0.255)

Param 5 : Abs Active (1.0.148.29.0.255)

Param 2 : Abs Reactive(Lag) (1.0.5.29.0.255)

Param 4 : Abs Apparent (1.0.9.29.0.255)

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Improvement in the performance of TPNODL:

The following table indicates the improvement in the performance of TPNODL.

S.No.	Particulars	As on 31st March 2021	As on 31st March 2022	As on 31st March 2023	
1	No. of Circles	5	5	5	
2	No. of Divisions	16	16	16	
3	No. of subdivisions	50	50	50	
4	No. of Sections	159	159	159	
5	No. of Special Police Stations	5	5	5	
6	No. of Courts	1	1	1	
	No. of consumers				
7	EHT	36	37	41	
8	HT	557	614	659	
9	LT	20,07,540	20,88,432	20,40,888	
10	Total	20,08,133	20,89,083	20,41,588	
	Network System	-,,	-,,	-, ,	
11	Length of 33 KV Line (km.)	2868	2895	3024	
12	Length of 11 KV Line (km.)				
13	(,	37069 66300	37591 66672	40189 67486	
14	Length of LT KV Line (km.) Length of conductor stolen (km.)	0.33	0.00	27	
	` '				
15	Cost involved (Cr.)	0.09	0.00	0.23	
16	No. of 33 KV Group & Feeder Breakers Required	136	50	102	
17	No. of 33 KV Group & Feeder Breakers Installed	166	173	71	
18	No. of 11 KV Group & Feeder Breakers Required	126	70	147	
19	No. of 11 KV Group & Feeder Breakers Installed	228	240	107	
	Feeder Metering				
20	No. of 33 kV feeders (excluding GRIDCO interface)	91	98	108	
21	No. of 33 KV feeder metering	91	98	108	
22		720	797	825	
	No. of 11 KV feeders				
23	No. of 11 KV feeder metering	655	545	825	
24	No. of 33/11 KV transformers	488	524	550	
25	No. of 33/11 KV transformers metering position	246	246	244	
26	No. of distribution transformers (11/0.4 & 33/0.4 kv)	70429	72323	74726	
27	No. of distribution transformer metering position	2208	2208	2883	
28	MVA capacity of DTRs	2584	2657	2787	
29	Energy audit carried out -33 KV	74	77	92	
30	Energy audit carried out -11 KV	617	545	344	
31	Energy audit carried out – No. of DTR's	455	455	471	

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	Consumer Metering Position				
32	Total number of meters	19,02,980	20,10,760	19,99,017	
33	No. of working meters	17,17,944	17,37,701	17,40,496	
34	Percentage of working meters (%)	90%	86%	87%	
35	New meters installed (3 ph)	5637	4930	11213	
36	New meters installed (1 ph)	1,96,044	2,55,855	3,91,243	
37	No of 3 Phase consumers	51097	34775	37152	
38	No of consumers with TOD benefit	1124	1046	998	
39	No of consumers 10 KW load and above	11439	12761	19590	
40	No of consumers AMR rating	12979	9431	16743	
41	Total no of consumers	20,08,133	20,89,083	20,41,588	
42	No of consumers added	101577	80950	431037	
43	No of meters purchased	500	124310	431037	
44	No of meters used for installation for new consumer and replacements for old consumers	201681	260785	402456	
45	Cost involved in purchase of meters (Rs. in Crs.)	0.13	9.08	55.11	
46	Cost of meter rent collected (Rs. in Crs)	19.6	22.8	10.82	
	Anti-Theft Measures				
47	No. of cases Finalized under Section 126 & 135	5428	37893	36387	
48	Amount Finalised (Rs. Cr)	6.41	47.89	49.03	
49	Amount accessed during filing of case (Rs. Cr)	7.3	64.37	67.38	
50	No. of New connections given	114201	113608	87701	
51	No of Connections Regularised	2145	2011	694	
52	Amount Collected (Cr)	1.14	21.65	37.6	
53	No. of FIR Lodged	6	12	29	
54	No of illegal consumers prosecuted/ Initiated in Court	0	12	9	
55	Number of Disconnection made	61609	67022	126935	
56	Revenue realized (Rs. Cr)	34.42	206.06	257.94	



	Franchise Activity					
57	No of Micro-Franchises	76	211	301		
58	No of Consumers Covered	97897	184767	218583		
59	No of Macro- Franchises	0	0	0		
60	No of Consumers Covered	0	0	0		
61	No of Input based- franchises	1	0	0		
62	No of consumers covered	43732	0	0		
63	Total no of consumers covered under franchise	141629	184767	218583		
	Quality of Supply					
64	Failure of Power Transformers	17	27	8		
65	No of Distribution transformers burnt	2312	2533	2877		
66	Cost involved (Cr.)	3.85	4.41	3.03		
67	No of interruptions in 33 KV feeders	5544	16750	11571		
68	No of interruptions in 11 KV feeders	463803	339516	288140		
69	No. of Grievances received through CHP	518	388	415		
70	Disposed through CHP including Bijli Adalat	511	341	399		
71	No of GRF orders received	511	341	399		
72	Mo of GRF orders compiled	402	241	358		
	System Improvement Works During Review Period					
73	Installation of New transformers (DTR)	4	0	128		
74	Upgradation of Transformers (DTR)	8	21	147		
75	Installation of Pillar Box	0	0	0		
76	Length of AB cable Laid (KM)	12.19	29.84	337		
77	Conversion of Single Phase to Three Phase Lines	4.91	0	12		

The above table highlights the measures initiated by TPNODL to improve the performance of the Network and reduce the losses in the system.

The major achievements during 2022-23 are

- (i) Installation of More number of Transformers
- (ii) Upgradation of Capacity of Transformers
- (iii) Reduction in number of Interruptions in 33 Kv Feeders
- (iv) Reduction in number of Interruptions in 11 Kv Feeders
- (v) Reduction in Failure of number of Power Transformers
- (vi) Increase in number of three Phase meters newly installed
- (vii) Increase in number of single Phase meters newly installed



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- (viii) Increase in Length of AB Cables Laid
- (ix) Increase in number of EHT and HT Consumers
- (x) Increase in the Consumption EHT Consumption from 1676 MU to 2651.931 MU

Matters of Concern

- (i) Increase in losses of LT Consumers from 24.08 to 26.21%
- (ii) Increase in losses of HT< Consumers from 26.84 to 27.82%
- (iii) Increase in number of Distribution Transformers Burnt



6.2 ENERGY EFFICIENCY IN DEMAND SIDE MANAGEMENT

The purpose of Energy Efficiency and Demand Side Management should be to reduce the load during peak period and enhance load during the non-peak period.

DSM activity should be also carried out to protect the Environment and to win the trust of consumers. The DSM can be carried out at three levels: DISCOM level, consumer level and by using technology like energy storage.

- The DSM activities are to be initiated by DISCOM however need to be carried out by consumers. DISCOM
 can only manage a few DSM activities like voltage regulation and power factor regulation.
- It is proposed that enough data are required to be generated by carrying out consumer load Research and third-party experts should be engaged.
- DSM programmes need skill about energy conservation and art of Communication with a consumer. It is better to engage Energy Manager/ Energy Auditors in a DSM cell.

Awareness program on DSM should be conducted. Based on the analysis of data and third-party survey report and action plan to be prepared for submission to Hon'ble OERC.

- At the consumer level, the involvement of consumers is must for the success of demand side management.
 Awareness, Incentives, penalties and legislation are four main tools to involve consumers. The DSM scheme should be formulated based on these four tools.
- Demand side Management requires high level of awareness in the Consumers hence it is recommended to conduct awareness programs to various category of consumers.
- BEE introduced many initiatives to bring awareness among various categories of consumers about the importance of Demand side management and its importance and also funding non-profit organizations like APSECM, TSRECO etc to conduct programs on demand side management.
- ZESPL came across a situation where Industries are offered lower rate of unit during use of electricity in night hours.





7.0 FIELD STUDY

S.No.	Date Place		Activity			
1	04.07.2023	TPNODL corporate Office	Arrival on Site, Opening meeting, Discussed Audit methodology & substation visit agenda discussion			
2		Rameshwar Mandir 33/11 kV PSS	Field Visit, Inspection, Collection & Verification of data			
3	05.07.2023	Kali Mandir 33/11 kV PSS	Field Visit, Inspection, Collection & Verification of data			
4		Odangi 33/11 kV PSS	Field Visit, Inspection, Collection & Verification of data			
5		132/33kV Basta Grid	Field Visit, Inspection, Collection & Verification of data			
5		Gaon Amarda 33/11 kV PSS	Field Visit, Inspection, Collection & Verification of data			
6	06.07.2023	Lal Bazaar 33/11 kV PSS	Field Visit, Inspection, Collection & Verification of data			
7		Salabani 33/11 kV PSS	Field Visit, Inspection, Collection & Verification of data			

TPNODL

VISIT TO RAMESWAR MANDIR 33/11 KV SUBSTATION, CED, BALASORE:



RAMESHWAR MANDIR PSS



SWITCHYARD OF RAMESHWAR MANDIR PSS





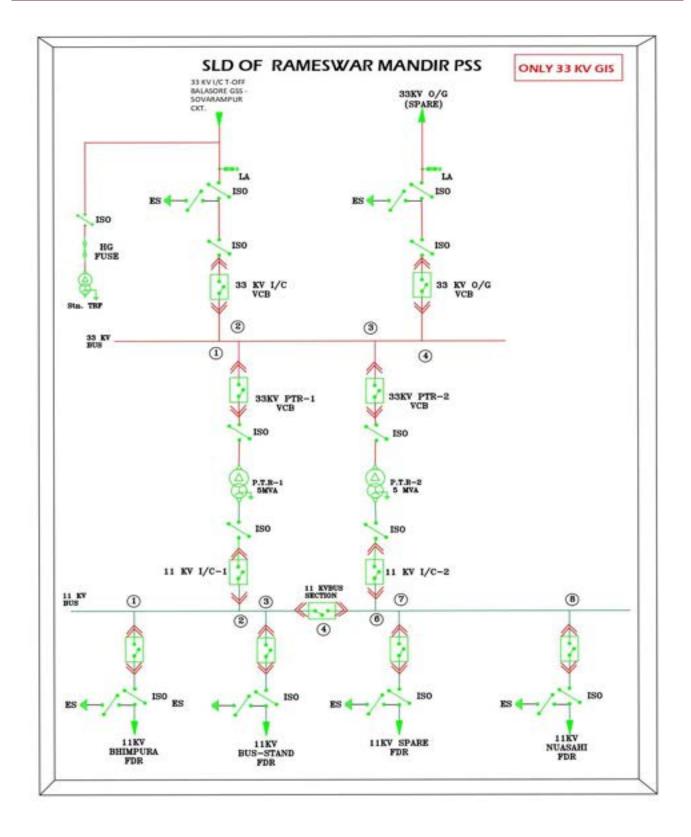


FEEDER METER OF RAMESHWAR MANDIR PSS

OBSERVATIONS:

- The 33 KV incoming is from Balasore-I Feeder.
- Three 11 KV Feeders emanate from the structure namely City Clinic, Nuasahi & Bus Stand. There is no any 33 KV outgoing feeder.
- The 11 kV Feeders have peak ampere of 25 Amp (City Clinic), 51 Amp (Nuasahi) and 93 Amp (Bus Stand).
- There are two nos. of 5 MVA Power Transformers in the structure.
- Silica gel of the transformers are also in good condition.
- WTI, OTI and Body Temperatures of the transformers are within in the limits.
- The meters of 11kV feeders are working and the reading of Kwh, KVArh, KVAh, KW, KVA etc. are shown in the energy meter in the Control panel.
- The meter at 33 kV incoming meter is smart meter and is working properly.
- All 11kV Feeder meters have AMR installed and is working properly.







VISIT TO KALI MANDIR 33/11 KV SUBSTATION, CED, BALASORE:





SWITCHYARD OF KALI MANDIR PSS





CONTROL PANEL OF KALI MANDIR PSS



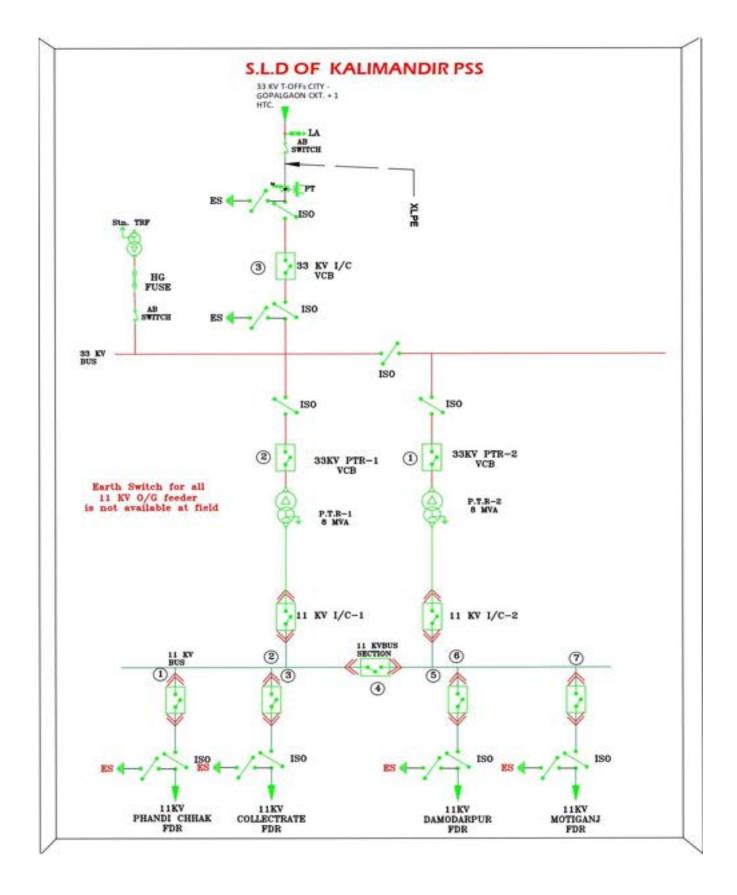
BATTERY CHARGER SET OF KALI MANDIR PSS



OBSERVATIONS:

- The 33 KV incoming is from Chandipur Feeder.
- Four 11 KV Feeder emanate from the structure namely Phandi chhak, Collecterate, Damodarpur and Motiganj. There is no any 33 KV outgoing feeder.
- The 11 kV Feeders have Peak Load of 39 Amp (Phandi Chhaka), 33 Amp (Collectorate Feeder), 44 Amp (Damodarpur) & 42 Amp (Motiganj).
- There are two nos. of 5 MVA Power Transformers in the structure.
- Silica gel of the transformers are also in good condition.
- WTI, OTI and Body Temperatures of the transformers are within in the limits.
- The meters of 11kV feeders are working and the reading of Kwh, KVArh, KVAh, KW, KVA etc are shown in the energy meter in the Control panel.
- The meter at 33 kV incoming meter is smart meter and is working properly.
- All 11kV Feeder meters have AMR installed and is working properly.







VISIT TO ODANGI 33/11 KV SUBSTATION, CED, BALASORE





SWITCHYARD OF ODANGI PSS



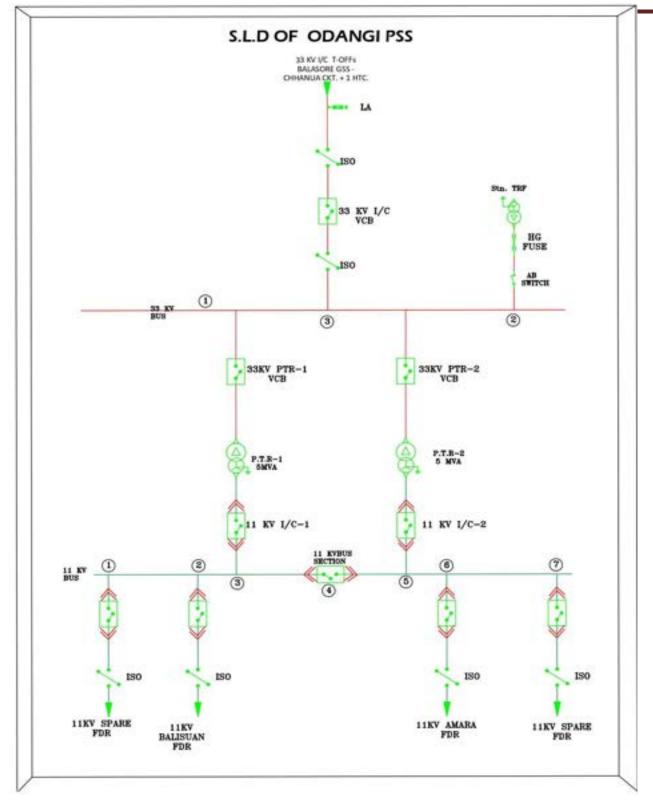


5 MVA PTR OF ODANGI PSS

OBSERVATIONS:

- The 33 KV incoming is from Odangi Feeder.
- Two 11 KV Feeder emanate from the structure namely Amara and Balisuan.
- The 11 kV Feeders have Peak Load of 42 Amp (Amara) and 67 Amp (Balisuan).
- There are two nos. of 5 MVA Power Transformers in the structure and observed that Silica gel need to be changed for one of the transformer.
- The meter at 33 kV incoming meter is smart meter and is working properly.







VISIT TO 132/33KV BASTA GRID SUBSTATION, BALASORE

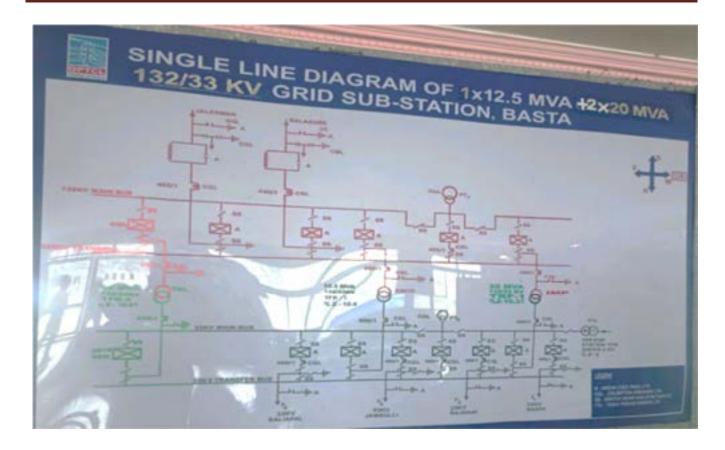


SWITCHYARD OF BASTA GRID



CONTROL PANEL & TPNODL METERS





SINGLE LINE DIAGRAM OF BASTA GRID

VISIT TO LAL BAZAR 33/11 KV SUBSTATION, BED, BARIPADA:



SWITCHYARD OF LAL BAZAR PSS





CONTROL PANELS OF LAL BAZAR PSS

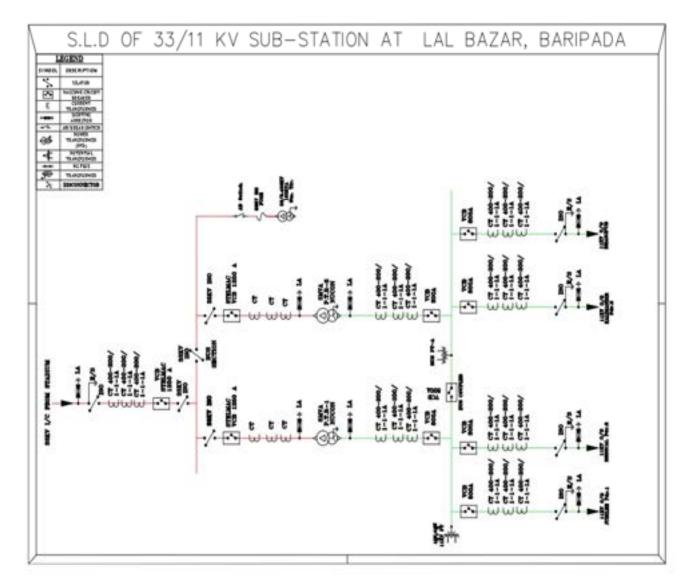


LOG BOOK OF LAL BAZAR PSS



OBSERVATIONS:

- The 33 KV incoming is from Stadium 33/11 kV substation.
- Four 11 KV Feeders emanate from the structure namely Jubilee, Gopalbag and Kalimandir.
- The 11 kV Feeders have Peak Load of 259 Amp (Jubilee), 38 Amp (Gopalbag) and 84 Amp (Kalimandir).
- There are two nos. of 5 MVA Power Transformers in the structure and observed that Silica gel of both the transformers are in good condition.
- No oil leakages observed in the Power Transformers.
- The meter at 33 kV incoming meter is smart meter and is working properly.





8.0 DETAILS OF VARIOUS SYSTEM IMPROVEMENT & LOSS REDUCTION PROJECT UNDERTAKEN BY TPNODL

8.1 PROJECTS IMPLEMENTED BY TPNODL ACROSS ODISHA

Tata Power Northern Odisha Distribution Limited (TPNODL) has invested in a number of projects across Odisha for the benefit of its habitants, bringing electricity to remote regions, villages and underdeveloped areas since its inception. From providing electricity to installing LED lights, to securing the electrical network in the elephant corridor area and laying cables to providing dedicated electrical feeders for the fishery sectors, TPNODL is constantly working towards the development of the areas which it services.

1. Integrated Power Development Scheme (IPDS)

Government of India has launched Integrated Power Development Scheme (IPDS) for the urban areas with the following components:

- Strengthening of sub-transmission and distribution network in urban areas.
- Erection of new sub-stations including Gas Insulated Sub-station along with associated 66KV / 33 KV/ 22 KV/ 11 KV lines.
- Augmentation of existing sub-stations capacity by installation of higher capacity/additional power transformer along with associated equipment/ switchgears etc.
- Erection of HT lines for reorientation/ re-alignment including augmentation of existinglines.
- Installation of new distribution transformers and augmentation of existing distribution transformers along with associated LT lines.
- Installation of capacitors.
- Renovation and modernization of existing sub-stations and lines
- Laying of under-ground cables in densely populated areas and areas of tourism and religious importance
- High voltage distribution system (HVDS)Aerial Bunched Cable for theft prone areas
- Metering of feeders / distribution transformers / consumers in urban areas.
- IT enablement of distribution sector and strengthening of distribution network.

2. Odisha Distribution System Strengthening Programme (ODSSP PH-I, II, III):

For quality supply of power to the consumers and to address the low voltage problem in rural area, Government of Odisha in Energy Department has decided to construct 99 nos of New 33/11 KV Substations in three phases in TPNODL operational area with an aim to reduce the high technical loss arising due to the length of 11 KV and 33KV lines and to provide uninterrupted power supply at appropriate voltage to the consumers by increasing the number of 33/11 KV Substations.

8.2 CAPEX PROGRAMME

In order to improve the reliability and reduce the losses, major interventions like Network reinforcement, Technology adoption is proposed in this plan so that equipment failure / tripping can be reduced and reliability, billing & collection efficiency can be improved. The network demands urgent refurbishment like re-conductoring of feeders, optimization of feeder length, dedicated feeders for industrial/ commercial customers, replacement of damaged / tilted poles

TPNODL

Annual Energy Audit Report 2022-23 of TPNODL

provision of intermediate poles, replacement of joints, enhancing system protection, replacement of sick equipment and network augmentation to improve the reliability of power supply. Introduction of advanced technologies and analytics will be prime focus area for improving the accuracy of the meter reading, curtail tampering of the meters and providing better and effective customer services. Further Business process re-engineering is required to improve the customer services. Technology adoption is also required to provide quality customer services, manage revenue cycle processes for reduction of AT&C losses and efficiently manage to deliver reliable and quality supply in safe manner to its consumer by meeting various standards of operation.

To address the challenges and reduction of AT & C loss and quality power supply to consumers, TPNODL proposed to take up a detailed Capex investment plan in the FY 2022-23 under different heads. TPNODL has inherited the power distribution network in dilapidated state at some places, which is not compliant with the requisite statutory standards and poses threat to consumers, staffetc. Further, underrated/ undersized/ worn out conductors, poor earthing, presence of either faulty equipment's or non-availability of equipment's/ switchgears/ protection devices are creating potential safety hazards to the employees, consumers, children, animals, public, etc.

TPNODL has identified several challenges related to Safety, 33kV/11kV/0.415kV/0.230kV network, Metering infrastructure, Customer Services and Technology usage. The scope includes renovation/modernization of existing and new 33/11KV S/S, re-conduct ring of 33KV & 11KV lines, implementation of HVDS system and AB conduct ring, installation of theft proof energy meters etc. The capital investments have been proposed under the following broad cost centres that shall be aligned with multiple initiatives and schemes so as to reduce AT & C losses, improve system reliability and augment the network to support continuous load growth. Further, a need isalso felt to improve the existing facilities and infrastructure to provide a better consumer experience.

TPNODL has categorised the various activities of the Capital Investment Plan under 6 major subheads.

- Statutory Compliance/Safety
- Loss Reduction
- Reliability Improvement
- Load Growth
- Disaster Mitigation
- Technology & Civil Infrastructure

Out of the above, we have considered CAPEX related to Loss Reduction, Reliability Improvement, and Technology Intervention under the scope present Energy Account Audit as we feel that these major categories will lead to T&D Loss Reduction and AT&C Loss Reduction.

Loss Reduction

The technical losses are due to energy dissipated in the conductors of distribution line and equipment in Network System. Technical losses are directly dependent on the network characteristics such as lengthy distribution lines, overloading of the Line, inadequate size of conductors, Unequal load distribution on 3 phases of the line, Poor workmanship, old Conductor having multiple joints. It is also observed that, meters are not installed on Feeders & Distribution Transformers leading to no energy accounting. As a result, it is not possible to determine energy input accurately and hence unable to measure AT&C losses at each level. Energy accounting provides the means to identify areas of leakages, wastage, and inefficient energy usage.

Therefore, in this head, following activities are planned for execution:

- Data collection & analysis for detecting problematic meters.
- Energy Monitoring System (AMR)
- LT bare to ABC Conversion
- On-site testing of meters to detect any metering abnormalities/theft.



Major Category	Activity				
	Installation of AMR meters at Distribution transformers.	4.50			
	Conversion of LT Bare conductor to AB Cable	4.93			
	Meters and metering equipment for energy audit	1.19			
Loss Reduction	Equipment for Meter data downloading	0.46			
reduction	Equipment for AMR enablement of 3 phase consumer meters	0.45			
	Field Testing equipment - Metering (Portable Calibrator)	1.00			
	Total	12.53			

Installation of AMR meters at Distribution transformers:

In the absence of the DT meter the correct peak loading on the DTs also not available so TPNODL have started installing the Smart Meter on the DTs with the following objectives:

- For accurate Energy Audit
- For recording of the DT peak loading
- Reducing the no of transformer burning due to overloading

Moreover, TPNODL have also started DT wise Audit from this financial year.





SAMPLE PHOTOGRAPHS OF DT SMART METER INSTALLATION



LT Bare Line to AB cable conversion:

To improve the safety factor, minimize the safety accident risk, reduce the chances of fault & strengthen existing 415V network, it is suggested to replace the overhead bare conductors with new aerial bundled cables. This in turn will help in providing reliable power supply for all consumers & stakeholders.

Moreover, during the survey, it is observed that LT bare conductor is more prone to hooking resulting into direct theft of the electricity. To avoid direct hooking, it is proposed to convert LT OH bare conductor into LT AB cable. This will help in eliminating the direct theft issue and thus protecting the revenue leakage.

The same shall be resulted in reducing direct 'hooking' on bare LT conductor lines therebyreducing commercial losses drastically in theft prone areas. LT Bare Line to ABC conversion would encompass following scope:

- LT Bare conductors shall be replaced with LT ABC.
- Erection of mid span pole.
- Earthing of every 5th Pole and poles which are installed across the road.
- Erection of Mid span pole wherever the span length is more than 40 meters to reduce the Sag.
- Installation of Distribution Box and removing of jumbling of service line cables.

Benefits:

- Reliable Power supply to the Consumers since bare conductor will get converted into insulated cable.
- Comparatively safer than the LT Bare conductor and eliminate the element of risk if comesin proximity.
- Simpler installation, as crossbars and insulators are not required.
- Suitable for congested lanes as well.
- Electricity theft is becoming hard as hooking would not be possible.
- Less required maintenance and necessary inspections of lines.



Network Reliability:

TPNODL have many long overhead feeders. The present power distribution network is in bad condition resulting into frequent trippings and as a result consumer are not getting reliable and quality power supply.

Table below shows trippings occurred in FY20-21 and FY21-22:

	In FY-2	021-22	In FY-2022-23			
Category of Feeders	Feeders No. of Tripping Tripping No. Min.		No. of Tripping	Duration of Tripping		
			No.	Min.		
All 33kV I/C Feeders	1 12067 1 629520		8403	390300		
All 11kV O/G Feeders	161806	4203240	108681	2299200		

The numbers of tripping are extremely high when compared to best-in-class utilities. However, trippings have been decreased as compared to previous year. TPNODL intends to implement the following actions to improve the reliability of power supply:

- Identification and replacement of faulty / sick equipment causing frequent tripping.
- Introduction of technology to ensure faster restoration of supply in case of any tripping.

Various initiatives proposed to improve the reliability of power supply in 11kV and downstreamnetwork is given below:

- 33 kV &11 kV Network refurbishment to ensure Horizontal / Vertical clearances.
- Primary Substation (PSS) Distribution Substation (DSS) Refurbishment.
- Installation of Auto Reclosure & Sectionalizer is important in critical feeders.
- Installation of Communicable overhead FPIs for faster identification of faults.
- Installation of LV protection at Distribution substation to arrest the LT faults at LT level itself instead escalating to the 11kV feeder level.
- Replacement of Battery & Battery charger to strengthen the DC protection system in 33/11kV Grid Substations.
- Installation of AB switches at 33kV & 11kV lengthy feeders for improving reliability during planned / unplanned outages.
- Proposal for trolley mounted pad substations.
- Installation of lightning arrestors.



Major Category	Activity	Amount (in Cr.)
	Refurbishment of 33KV/11KV Primary Substation (PSS)	10.00
	33 KV Conductor up gradation	11.20
	11 KV Conductor up gradation	8.80
	Refurbishment of 11KV/0.415 KV Distribution Substation (DSS)	2.40
	Installation of LV protection at DSS	5.54
	Installation of Auto reclosure / Sectionalizers ,RMUs, &FPIs	10.60
Reliability	33KVand 11 Kv Voltage Regulators for voltage improvement	4.20
	LT FLC System - Vehicle Fitted (5 Nos 1 for each circle) + Power Analyser for Transformer workshop (2 Nos.) +Ultrasound Scanner (5 Nos 1 for each circle)	3.52
	Installation of station transformers (PPS)	2.55
	Capacitor Bank at PSS for low voltage improvement	0.88
	Earthing of Power Transformers and Distribution Transformers	0.49
	Total	60.18

Refurbishment of Primary Substations (PSS):

To strengthen the existing network, it is suggested to replace the sick equipment in the existing network. Further, this replacement will help in utilization of the resources to the optimum level, managing the load in case of any exigency and mitigate the issue of overloading etc.

Following is the refurbishment work to be done:

- Replacement of the faulty equipment (VCB, CT/PT, CRP, Isolator, etc.) in PSS.
- Replacement / provision of AB switches.
- Provision of new / additional earthing as per site requirement.
- Carry out civil works as per site requirement.
- Replacement of damaged support structure at PSS. This includes MS / GI structure, channels etc. Dismantling of existing structure and erection of new structure at same location has been considered in scope of the work.
- Replacement of Battery and Charger.
- Replacement of all undersize bus bars with standard size to remove hotspot.
- Carry out civil works as per site requirement.
- Detailed technical inspection and testing of the equipment.



33 kV & 11 kV Network Refurbishment / Conductor Upgradation:

To ensure safety of equipment and human beings / animals, refurbishment of 33kV, 11kV and LV lines is urgently required in phase manner starting from critical area where movement of public /animals is high.

Refurbishment job would encompass following scope:

- Straightening of tilted poles.
- Replacement of damaged poles, insulators, and accessories.
- Earthing of every 5th Pole and poles which are installed across the road.
- Erection of Mid span pole wherever the span length is more than 50 Mtrs to reduce the Sag.
- Restringing of conductor to increase the vertical clearance by reducing the sag.
- Replacement of the conductor in the sections having multiple joints.
- Replacement of weak Jumpers and connections.
- Replacement of binding wire joints with wedge connector to remove hotspots.
- Installation of Danger boards, Anti climbing devices, stay sets etc. to ensure safety & statutory compliance. TPNODL intends to implement the following actions to improve thereliability of power supply.

Refurbishment of Distribution Substation (DSS):

Existing DSS are in shabby condition with damaged or ill-maintained HT & LT protection equipment. All connections at pole mounted or plinth mounted substations are in very bad condition which not only cause high technical loss but also give rise to undue interruptions. The Aluminium lug / sockets used in DTs and other equipment in the substations are observed to be of inadequate size and proper crimping of lugs with the help of crimping tools found missing at almost all places. This is resulting into generation of hotspots and failure of connections. Replacement of the old/ non functional equipment CT/PT, Isolator, in PSS is required to be done.

Refurbishment/Life Enhancement of DSS helps in addressing the above-mentioned issues, improves the reliability of power system and above all ensures safety.

TPNODL proposes for activities under Refurbishment of Distribution Substation:

- Detailed technical inspection and testing of the equipment.
- Replacement of damaged support structure at DSS. This includes MS / GI structure, channels etc.
- Dismantling of existing structure and erection of new structure at same location has been considered in scope of the work.
- Installation of palm connectors at HT and LT side of Distribution Transformers and ensuring that all connections are through palm connectors.
- Replacement of all undersize conductors with standard size to remove hotspot.





- Replacement / provision of AB switch, DD Fuse units, LT ACB or MCCB (depending onTransformer ratings) and all associated cables / conductors.
- Provision of new / additional earthing in all DSS as per site requirement.
- Installation of fencing to safeguard the DSS equipment and to maintain safety clearances.
- Installation of danger boards, anti-climbing devices, stay-sets etc. to ensure safety &statutory compliance.
- Carry out civil works as per site requirement.

			993.000	Quantity	Amount
S.No Description	UOM	Unit	in this FY 22-23 (Nos.)	(in Crores)	
1	100 KVA DSS	EA	0.04	65	2.34
2	250 KVA DSS	EA	0.05	33	1.67
3	500 KVA DSS	EA	0.05	15	0.79
	Total			113	4.80

Installation of LV protection at DSS:

To reduce the effect of LT fault on 11kV System, it is recommended to install the MCCB on Pole Mounting substation for 100 kVA, ACB on 250 KVA & 500 KVA Distribution Substations.

-			Venter	Quantity	Amount
S.No	Description	UOM	Unit	in this FY 22-23 (Nos.)	(in Crores)
1	Supply and Installation of MCCB-100 KVA	EA	0.007	520	3.65
2	Supply and Installation of ACB -250 KVA	EA	0.012	140	1.68
3	Supply and Installation of ACB-500 KVA	EA	0.034	6	0.21
	Total			609	5.54

Installation of Auto-reclosure / Sectionalizers, FPI, RMU AB switches:

TPNODL currently has many very long overhead feeders. Moreover, it is observed that multiple 11kV feeders are controlled through single 11kV breaker or AB switch in some primary substation. This will ensure efficient operation & monitoring under steady state, dynamic &transient condition of the system.

S.No	Description	UOM	Quantity	Unit Rate	Amount (INR)
1	Supply & Installation Auto Reclosure	Nos	10	0.156	1.56
2	Supply & Installation Sectionaliser	Nos	30	0.157	4.70
3	Supply & Installation RMU 4 way O/D at 11 KV	Nos	35	0.169	5.92
4	Supply & Installation RMU 3 way O/D at 11 KV	Nos	32	0.160	5.13
5	Supply & Installation RMU 4 way O/D at 33 KV	Nos	5	0.526	2.63
6	Supply & Installation FPI	set of 3	147	0.008	1.16
				Total	21.10



Benefits:

Auto-Recloser and Sectionaliser-Benefits:

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

RMU- Benefits:

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

FPI - Benefits:

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



9.0 CONCLUSION

In line with Section 14(g) of the Energy Conservation(EC) Act, the Central Government has notified targets (in the form of Specific Energy Consumption) for Designated Consumers (DCs) on 26th October 2021 under the PAT cycle-VII. The baseline Distribution loss of TPNODL has been fixed as 18.74% for baseline year 2018-19 with baseline net input energy 5575.61MU. TPNODL has been directed to reduce its T&D Loss to 17.09% in Target Year 2024-25. The T&D loss for the FY 2022-23 was 16.43% and TPNODL was successful in achieving the target set by BEE. Keeping in view of the present condition there is still scope for improvement in the network.

TPNODL Management has endeavored for continual improvement in its drive for achieving energy efficiency by adopting various energy saving measures with most energy efficient technology. Considering the trend in their energy performance, it is expected that TPNODL may get a target for further reduction of its T&D loss from its present level. Hence, TPNODL should focus to achieve the future target by adopting a strict energy conservation plan and energyefficiency measures.

Overall, the TPNODL management has a very progressive outlook and is open to ideas involving moderate to low investment, to improve the Energy Efficiency. Hence we feel TPNODL management needs to put best effort to achieve Energy Conservation in future.



10. LIST OF ANNEXURE FOR TPNODL MEA:

10.1 COPY OF WORK ORDER:

TPNODL

PO No. : 4800002117

PURCHASE ORDER

Vendor Name & Address M/s ZENITH ENERGY SERVICES PRIVATE LIMITED, 3rd Floor, Ramky Grandiose, Hyderabad, Telangana 500032	PO No. : 4800002117 PO Date : 06.04.2023 Release Date : 11.04.2023
Vendor Code : 300878 GSTN No. : 36AAACZ0661K128 BA Contact Person : Sindhu Jannareddy BA Contact No. : 9640064444	Contact Person: Miss Sonal Samal Contact No. : 7809820784
Purchaser Address TP Northern Odisha Distribution Limited Janugani, Balasore 756019 GSTN No.: 21AAICT5123C1ZX	References : TPNODL/LT/2600000626/2022-23

Subject: PO for Conducting Energy Audit for the FY-22-23 filing for TPNODL.

This has reference to the above mentioned correspondence on the subject. We are pleased to place an order with you as

(i) Schedule of items / quantities/ Rates (ii) Special Conditions of the Contract

Total PO Value: 225144.00 INR (TWO LAKH TWENTY FIVE THOUSAND ONE HUNDRED FORTY FOUR RUPEES)

Completion By:

Order Acceptance:

The Purchase Order constitutes Purchaser's offer to Business Associate upon the terms and conditions stated herein and shall become a binding Contract, when it is accepted either by Business Associate's acknowledgment or performance. The purchase order expressly limits acceptance to the terms and conditions stated herein. Any additional or different terms or conditions proposed by Business Associate are objected to and hereby rejected, including without limitation, Business Associate's quotation or acknowledgment forms. Any reference in the Purchase Order to Business Associate's quotation or proposal does not imply acceptance of any terms or conditions in that quotation or proposal. It is important that Business Associate signs and returns the Purchase Order copy within (3) days of receipt. Failure to return the acceptance does not diminish the responsibilities as set forth herein, but may result in delay to any payment that may be due to and may be a cause of termination of this Purchase Order

For TP Northern Odisha Distribution Limited

AUTHORIZED SIGNATORY

Digitally signed by Name : Designation : VIPIN VIPIN CHAUHAN Contact No. : CHAUHAN Date: 2023.04.11 E-mail id : CHAUHAN 11:31:55 +05'30'

Important Note:- 1. In case of any discrepancies between the stipulation in General Conditions of the Contract (GCC) give by the original order and Special Conditions of Contract (SCC), the GCC shall stand superseded by the SCC to the extensional purpose of the stipulated herein above while balance portion of respective clauses of GCC shall continue to be applicable.

2. This document does not assure or warrant as regards the measurement of performance, non-performance or short performance by the party named as contracting party herein other than TPNODL in relation to the supplies/services or works involved and the same may not be read in support of any contended right or assertion made by such party in relation thereof unless supported with relevant performance certificate issued by TPNODL.

TP NORTHERN ODISHA DISTRIBUTION LIMITED

(A Tata Power & Odisha Government Joint Venture) Regd/Corp Office: Januganj, Remuna Golei, Balasore, Odisha - 756 019 Website: www.tpnodl.com , Email: contactus@pnodl.com Phone: +91 6762 244865 Corporate Identity Number (CIN): U401060R20215GC035951

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TPNODL

PO No. : 4800002117

Annexure I

Schedule of Item/ Quantities/ Rate

Sr No	Material Code Description Details / Specifications	HSN / SAC Code	Qty	Unit	Rate	Amount INR
1	Energy Audit PY 22-23 i. Furnish the Annual Energy Audit Report in the BEE Pro-forms in accordance with the timeline and guidelines. ii. Recommendation and suggestions for system improvement (if any). iii. Submission of Annual Energy Audit Report to BEE/SDA/Concerned departments in accordance to the timelines defined in BEE guidelines.					
1.001	Filing energy audit report for FY22-23		1	AU	190,800.00	190,800,00
	IGST			%	18.00	34,344.00
	Service Subtotal					225,144.00
Service	Total(INR)	C			W (2)	225,144.00
Total F	PO Value(INR)					225,144.00

E-Invoice Clause: The Central Board of Indirect Taxes and Customs vide Notification No. 01/2022 – Central Tax dated 24th February, 2022 have notified the mandatory issuance of E-Invoices w.e.f. 1st April 2022 for those suppliers whose turnover during previous years have exceeded Rs. 20crs. In view of the aforesaid notification your office is required to issue Tax Invoice with appropriate IRN (Invoice Reference Number) and QR Code printed on the face of the invoice. Please note invoices issued without IRN and QR code if applicable to your organization will be rejected, as the same is not considered as a valid Tax Invoice.

GST Reimbursement Clause: As per GST law, the supplier/BA has to issue Tax Invoice along with supply of goods and in case of services within 30 days from the date of supply of service. The GST amount billed in the Tax Invoice has to be deposited first by your organization. In case, your organization doesn't deposit GST with Govt. treasury on/before prescribed due date, we reserve the right to withheld GST amount till the time it reflected in GSTR-2A / GSTR-2B of company portal.

TP NORTHERN ODISHA DISTRIBUTION LIMITED

(A Tata Power 8 Odisha Government Joint Venture)
Reggl:Corp Office: Janugani, Remana Golei, Balasone, Odisha – 758 019
Website: www.tpnodi.com , Emait contactus@tpnodi.com Phone: +91 6782 244885
Corporate Identity Number (CIN): U40106 OR20215 GC035951

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10.2 COPY OF MINUTES OF MEETING:

Minutes of meeting held between TPNODL & Zenith energy Services Limited.

- A meeting between TPNODL & Zenith Energy held on 04/07/2023 to finalize the energy accounting and report for the FY 2022-23.
- 2. Zenith examined the proforma prepared by TPNODL and enquired in details about each entry.
- 3. TPNODL explained various entries made by them at circle, division and subdivision levels.
- Zenith Energy requested to provide the procedure followed by TPNODL to evaluate the unit rate
 of IP sets (Unmetered Connections). TPNODL provided the procedure followed by them to
 evaluate the unit rate for agricultural pump and also gave a sample calculation.
- On request, TPNODL provided the data of Retail Tarrif Supply Rate of Consumers applicable during FY 2022-23.
- TPNODL advised that since the report is being prepared based on the data in case of any issues pointed out by BEE, the corrections in the report shall be done by Zenith based on the final approved data, Zenith accepted to do the same.
- Every Fortnight meeting carried out among the TPNODL and Zenith Energy for the audit related task and progress.

ZESPL Officials	Signature	TPNODL-Officials	Signature
Shri R Veera Swamy DISCOM Sector Expert	washing	Mr. Manish Kriplani HoG-Energy Audit	Mon
Shri DSR Krishna AEA	ber	Mr. Rahul Shukla Team Lead-Energy Au	dit Perul Stuckla
Shri. R. Sasidhar, CEA	R. Seeighu		
Shri. Sankar Satya Sai	0		
Engineer	Samo		



10.3 POWER PURCHASE DETAILS:



GRIDCO LIMITED

(A Govt. of Odisha Undertaking) (Formerly Grid Corporation of Orissa Limited) Regd. Office: Janpath, Bhubaneswar-751022 Ph:0674-2541320/2540098/2540877 Fax:0674-2541904 E-mail:sgm.pp@gridco.co.in

CIN: U40109OR1995SGC003960

Ref. No.: CGM-PP-51/2022/

Date: 05:04:2023

To

The Chief Executive Officer, TP Northern Odisha Distribution Limited Januganj, Balasore.

Sub: Energy Bill for the Month of Mar-2023

Dear Sir,

Enclosed please find herewith the Bulk supply energy bill for the month of Mar-2023 for Rs.1,87,15,43,644.00 towards supply of power by GRIDCO to TPNODL.

You are requested to kindly release the payment at the earliest. The rebate for prompt payment shall be admissible as per tariff order. The Energy Flow Statement, furnished by SLDC, based on which the bill is prepared are enclosed herewith for your reference.

Thanking You.

Encl: As stated above.

Yours faithfully, Mhonha

05 04 2823 GM (T&BS)

Copy to:

Nodal Officer, DISCOM Monitoring Unit (DMU), GRIDCO, Bhubaneswar Chief Load Despatcher, SLDC, Mancheswar, Bhubaneswar. CFO, GRIDCO, Bhubaneswar. DGM (F) PP Branch, GRIDCO, Bhubaneswar. DGM (R&T), GRIDCO, Bhubaneswar Manager, Union Bank of India, Main Branch, Bhubaneswar **GUARD File**





GRIDCO GSTIN:21AABCG6399P5Z3 Goods Description: Electricity
HSN Code: 27160000
Ref No: GRIRG/13-24/ DOR

The Chief Executive Officer TP Northern Odisha Distribution Limited Janugery, fishsione, Odisha GSTIN: 21AAICTS123C1ZX

A, Total Energy for the reseth IL SMD approved by OERC SMD permitted by OERC Actual SMD occurred

G R I D C O Limited Registered Office: Janpath, Bhubaneswar 751022 CIN: U40109OR1995SGC003960 Bill of Supply For TPNOOL

Date: Pay By Date:

583,035463 MU 11,63,069 KVA 12,65,069 KVA 10,68,962 KVA

Amount (Rs.) 1,87,18,43,843.83 1,87,16,63,843.63 5.00 0.00 Sub Total:

Total Current Charges: Beens (1+2)
Add Delayed Payment Suncharge for the month of Man-2023 (Annex-6)
Add: Previous amount outstanding (+)
() Outstanding prof.

Total Previous Outstanding: (++i)
Less payment monitored during the month
(a) Amount extended against Jan-23 bil
(b) Robate obweel for Jan-23 bil
(c) Amount against Total on Jan-23 bil
(d) Coter Adjustment (if only)

Total Payment and Adjustment (a+b+c+d)

Total Payment claimed Adjustment (a+b+c+d) 1,87,15,43,544.00 3.25,34,26,246.00 1,83,88,89,143.00 1,85,40,838.00 15,54,054.00 0.00 (1,65,40,63,845,90) 3,45,09,06,047.00 3,45,09,06,047.00 Total amount claimed through this bill items (3 to 6) (Rounded off to the marrest Repee) (Rupons three hundred forty eight crore nine lakh six thousand forty seven only)

Checked by

Samue.

Dathy AGM (EBC)

For & on behalf of GRIDCO Allaha GM (TSBS)

- The BSP Bill of Supply for the month has been prepared in line with the Bulk Supply Agreement executed with TPNCOL and ARR & ISSP Order Seed 24.03.2022 in Case No 167/2021.
- The billing for Bulk Supply of Power has been done based on the actual energy consumption statement provided by SLDC and in line with the Clause No. 388 of the ISSP order DL24.03.2022 of CREDOC for FY-2022-22 in Case No. 197/2021 in this matter of evendravial by the DISCOMs, and on per the rates slipulated at Clause No.5M & 502 of the said 858P Order. 2
- Rebata for prompt payment & Delayed Payment Suncharge shall be admissible/imposed as per the Clause No. 385 & 380 of BSP Order of GRECO Dx 24/03/03/02 in case No. 107 of 2021 of CERC and obscurint provisions of Bulk Supply Agreement essented with TPROOL. In case of any detault in monthly BSP dues by the DISCOMir, they are liable for imposition of power regulation to the extent of non-payment of monthly BSP dues as per Clause No. 365 of the BSP Order.
- Statutory lenyiduty/factors/s/of sic. Imposed under any law from time to time shall be charged over and above the bulk supply price fixed by the Commission issper Clause No. 331 of the 859° Circler.
- Discrepancy, if any, found later on, towards the billing will be taken into account.
- Details of the Americans -

Assesse 1 Energy Flow Statement Assesse 3 Open Access Statements Annexure 5 Delayed Payment Surcharge Assessers 7 Billing Consideration Statement

Annexure 4 Annexure 6

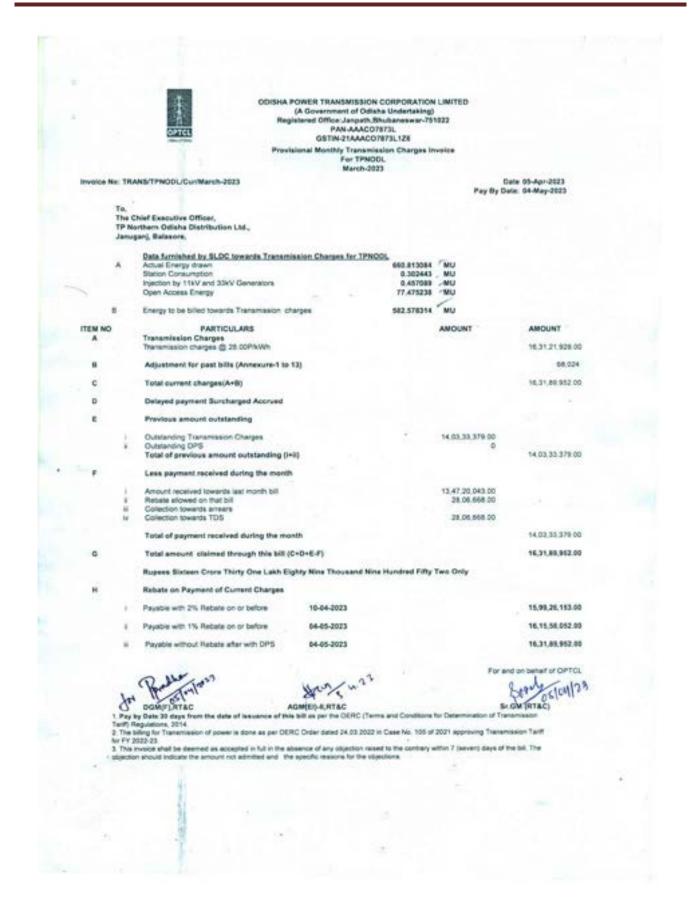
Energy Accounting Statement of SLDC

Rebate Statishent

Accessure 8

Billing information Statument









ଓଡ଼ିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି **ସଂଚାରଣ ନିଗ**ମ ଲିଃ.

ODISHA POWER TRANSMISSION CORPORATION LIMITED (A Government of Odisha Undertaking) Regd.Office: Janpath: Bhubaneswar

CORPORATE IDENTITY NUMBER (CIN) U40102OR2004SGC007553 Tele Fax: (0674) 2542120, Email id: rtc@optcl.co.in

No.RT&C-Bill-03/2022-23

1620

/Dated, 05.04.2013

To.

The Chief Executive Officer, TP Northern Odisha Distribution Ltd., Januganj, Balasore, Odisha-756019

Sub: Monthly Transmission charges Bill of TPNODL for the month of March-2023.

Sir.

Enclosed please find herewith the monthly transmission charges bill for the month of March-2023 towards transmission of power to TPNODL amounting to Rs.16,31,89,952/- (Rupees Sixteen Crore Thirty One Lakh Eighty Nine Thousand Nine Hundred Fifty Two) only. The bill is raised as per order dated 24.03.2022 in OERC Case No.105/2021 in the matter of approval of ARR and Transmission tariff for the FY 2022-23 w.e.f 01.04.2022.

Encl: As Above

Yours faithfully,

Sr. General Manager (RT&C)

C.C. to

- 1. Sr. PS to CMD, OPTCL, Bhubaneswar for kind information of CMD, OPTCL
- 2. C.G.M. (Finance), OPTCL, Bhubaneswar for kind information.
- 3. A.G.M, U.B.I. Main Branch. Bhubaneswar for kind information
- Guard File.





10.4 ANNUAL PERFORMANCE OF TPNODL FOR FY2022-23:

BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION PLOT NO.4, CHUNUKOLI, SAILASHREE VIHAR, CHANDRASEKHARPUR, BHUBANESWAR

IN THE MATTER OF: Annual Performance Review of TP Northern Odisha

Distribution Ltd. (TPNODL) for the Financial Year FY 2022-23.

And

OCINITIE MATTER OF: TP Northern Odisha Distribution Ltd.,

Corporate Office - Januganj, Balasore, Odisha- 756019

Affidavit verifying submission of information for the Annual Performance Review of TPNODL for the financial year 2022-23

I, Sri Pratap Kumar Mohanty aged about 56 years, son of late Gyanandra Prasad Mohanty, residing at Balasore, do hereby solemnly affirm and state as follows:

I am the Sr. General Manager (Risk, Regulatory & Legal) of TP Northern Odisha Distribution Ltd (TPNODL), Corporate Office-Januganj, Balasore, Odisha-756019.

The statements made in the submission are true to the best of my knowledge and the statements made are based on information and records and I believe them to be true.

Dated: 20-05-2023

Somethy after

Pratap Kumar Mohanty
DEPONENT

J N. BEHERA

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BEFORE THE ODISHA ELECTRICITY REGULATORY COMMISSION PLOT NO.4, CHUNUKOLI, SAILASHREE VIHAR, CHANDRASEKHARPUR, BHUBANESWAR

IN THE MATTER OF: Annual Performance Review of TP Northern Odisha

Distribution Ltd. (TPNODL) for the Financial Year FY 2022-23.

And

IN THE MATTER OF: TP Northern Odisha Distribution Ltd.
Corporate Office - Januganj, Balasore, Odisha-756019

The above named utility most respectfully showeth:

That, in compliance to the letter no. DIR(T)-336/08/646 dated 09.05.2023 of Secretary, OERC, the required data for the annual performance review of TPNODL for the period April, 2022 to March, 2023 in the prescribed formats are enclosed herewith for favour of kind perusal of the Hon'ble Commission.

OTAP BEHERA ON SCHEEN Pratap Kumar Maharty.
Sr. General Manager (RR & L)
For & on behalf of TPNODL



LT.PERFORMANCE FOR THE PERIOD - APR-22 TO MAR-23										
Name of Division :		BED	BALASO	RE			BT	ED, BASTA	4	
Category	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Grs.)	Amount Collected (Rs. in Crs.)	Collection Efficiency (%)	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collectio Efficienc (%)
Domestic	53070	89.491	42.91	46.21	107,70%	75014	47.850	22.45	25.10	111,789
Kutir Jyoti	50	0.002	0.04	0.00	3.02%	56	0.015	0.03	0.01	25.56%
L.T. General (Com)	11253	38.820	29.06	29.11	100,16%	4587	12.111	9.06	9.06	100.009
Agriculture	73	0.305	0.05	0.05	93.16%	3486	14.373	2.95	2.62	89.08%
Agro	121	5.759	1.20	1.18	98.59%	153	2.027	0.44	0.44	100.851
Allied-Agro	0	0.000	0.00	0.00	FOTVIOL	9	0.096	0.06	0.08	99.34%
Street Lighting	19	2.340	1.47	1,47	99.40%	63	0.628	0.56	0.50	88.59%
PWW	156	4.229	3.17	2.92	92.25%	217	2.764	2.52	3.11	123,679
Small Industry	128	0.960	0.66	0.67	102.09%	217	1,104	0.80	0.81	101,669
Medium Industry	55	3,511	2.48	2.48	99.78%	26	0.926	0.72	0.71	99.15%
Specified Pub. Purpose (P.I.)	312	1,655	1.26	1.36	107.33%	668	0.819	0.64	0.61	126,085
TOTAL LT	65237	147.072	82.3112	85.45	103.81%	84496	82.713	40.2153	43.23	107.495
Energy Input in LT (MU)			163,681					136.987		
Energy Sold in LT (MU)			147,072					82.713		
LT LOSS (%)			10.15%					39.62%	A.RI	1
AT & C Loss (%)			6.72%					35.10%	OTARI	- 12
Realisation Cost per LT Input (P/U)			522					316	2 200	10

L.T.PERFORMANCE FOR THE PERIOD - APR-22 TO MAR-22										
Name of Division :		JED	JALESWA	NR.			CED	BALASO	RE	
Catagory	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collection Efficiency (%)	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Grs.)	Collectio Efficienc (%)
Domestic	104947	64.887	28.91	33.41	115.59%	104855	80.457	36.99	43.45	117.481
Kutir Jyoti	2172	0.448	0.21	0.26	124.17%	106	0.032	0.03	0.01	28.03%
L.T. General (Com)	7321	17.412	12.76	12.47	97.71%	6725	20.019	15.10	14.56	96.43%
Agriculture	4338	20.813	4.14	3.92	94.67%	2318	8.296	1.70	1.00	59.04%
Agro	412	12.696	2.88	2.72	94.18%	338	7.476	1.52	1.50	104.231
Allied-Agro	3	0.043	0.03	0.03	92.17%	3	0.005	0.00	0.01	106.251
Street Lighting	104	1.059	0.86	1.02	118.54%	62	0.516	0.39	0.33	84.15%
PWW	245	3.759	3.39	3.96	116.64%	309	3.449	3.19	3.64	114.159
Small Industry	265	1.173	0.87	0.62	95.17%	251	1.026	0.76	0.81	105.921
Medium Industry	32	1.128	0.99	1.39	140,17%	154	6.993	6.02	5.53	91,78%
Specified Pub. Purpose (P.I.)	624	1.362	0.97	1.23	126.95%	903	2.751	2.00	2.08	104,081
TOTAL LT	120683	124.800	56.0015	61,22	109.33%	116084	131,022	67.7033	73.00	107.829
Energy Input in LT (MU)			177.382					204.780		
Energy Sold in LT (MU)			124.600					131.022		
LT LOSS (%)			29.64%					36.02%	ARY	-
AT & C Loss (%)			23.08%					31.01%	ARY	14
Realisation Cost per LT Input (P/U)			345					350 /	1250	100



Realisation Cost per LT Input (P/U)			428					20.00%	2	12 3
AT & C Loss (%)			14.81%					28.69%	ANRI	(.)
Energy Sold in LT (MU) LT LOSS (%)			24.47%					214.516	OPPOPE	-
Energy input in LT (MU)			130.949					318.431		
Energy Input in LT (MU)	153096	130,949	65.7277 173.372	74.13	112.78%	182768	214.516	114.3366	121.03	105.85
Specified Pub. Purpose (P.I.) TOTAL LT	1360	2.094	1.37	1.74	127.15%	1128	2.222	1.59	1.73	109.231
Medium Industry	52	1.446	1.56	1.48	94.96%	132	5.929	4.93	5.12	103.77
Small Industry	364	1.649	1.22	1.25	102.57%	549	2.060	1.53	1.53	99.981
PWW	431	1.997	2.23	2.11	94.65%	296	3.814	3.80	4.38	115.24
Street Lighting	93	0.967	0.62	0.92	148.21%	158	3.171	2.06	2.19	106.001
Allied-Agro	3	0.075	0.04	0.04	101.03%	13	0.214	0.12	0.11	93.861
Agro	689	2.721	0.53	0.55	103.60%	202	2.813	0.63	0.60	94.601
Agriculture	2110	2.836	0.61	0.41	68.27%	880	1.329	0.30	0.16	53.011
L.T. General (Com)	7525	21.887	16.29	16.94	104.02%	11423	39.661	29.30	28.64	97.725
Kutir Jyoti	683	0.017	0.04	0.06	162.67%	1857	0.482	0.21	0.17	83.411
Domestic	140356	95.260	41.23	48.62	117.93%	166128	152.821	69.88	70.41	109.36
Category	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collection Efficiency (%)	No. of Consumer	Censumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collection Efficient (%)
Name of Division :		5	ED, SORO				BNED, B	HADRAK N	ORTH	
L.T.PERFORMANCE FOR THE PERIOD APR-22 TO MAR-23										

L.T.PERFORMANCE FOR THE PERIOD - APR-22 TO MAR-23	k									1
Name of Division :		85ED, 8	HADRAK I	SOUTH			BPEC	, BARIPA	DA	
Category	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collection Efficiency (%)	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collectio Efficienc (%)
Domestic	104347	77.150	34.78	48,70	140.01%	193265	150.680	70.49	75.07	106.49%
Kutir Jyoti	219	0.012	0.01	0.01	137,36%	12652	1.354	1.45	1.72	118.31%
L.T. General (Com)	4402	13.819	10.20	10.35	101,46%	12055	41.883	30.52	31.06	101.83%
Agriculture	1132	1.908	0.52	0.25	47.99%	2933	10.074	2.01	1.24	61,58%
Agro	235	1.416	0.22	0.21	94.35%	145	1,386	0.28	0.26	91.30%
Allied-Agro	3	0.033	0.02	0.02	89.50%	3	0.007	0.00	0.01	452.36%
Street Lighting	88	0.623	0.47	0.71	149.56%	37	1.661	1.00	1.03	102.85%
PWW	199	0.570	0.93	1.27	136.28%	429	7.118	0.35	6.30	99.26%
Small Industry	273	1.174	0.87	0.88	101.40%	494	2.105	1.58	1.61	101.62%
Medium Industry	70	1,484	1.48	1.48	100.03%	155	3.905	3.81	3.79	99.45%
Specified Pub. Purpose (P.I.)	1015	1.606	1.26	1.45	114.77%	2163	7.047	5.25	5.53	105.25%
TOTALLT	111983	99.795	50.7740	65.33	128.67%	224331	227.219	122.7483	127.62	103.97%
Energy Input in LT (MU)			150.547					87.791		
Energy Sold in LT (MU)			99.795					27.219	400	700
LT LOSS (%)			33.71%				3	21.05%	NO	TAO
AT & C Loss (%)			14.71%					17.91%	11/ 40	15
Realisation Cost per LT Input (P/U)			434					443		C/4 .



L.T.PERFORMANCE FOR THE PERIOD - APR-22 TO MAR-23	7						<u> </u>			
Name of Division :	1	UI	D, UDALA				RED,	RAIRANGE	PUR	
Category	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collection Efficiency (%)	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collectio Efficienc (%)
Domestic	92283	53,924	24.41	28.27	115.81%	187853	110.341	49.57	52.81	106.55%
Kutir Jyoti	7650	1.184	0.66	0.69	105.28%	6116	1.211	0.70	0.59	85.00%
L.T. General (Com)	3785	11,168	8.37	8.78	104.97%	7240	23.589	16.89	17.47	103.43%
Agriculture	1318	2.601	0.51	0.26	50.25%	3259	8.122	1.51	0.51	33.53%
Agro	77	0.260	0.05	0.04	79.13%	22	0.739	0.13	0.12	97.31%
Allied-Agro	4	0.120	0.08	0.08	96.76%	4	0.264	0.15	0.14	95.95%
Street Lighting	9	0.314	0.14	0.09	65.57%	37	1.315	0.89	0.96	107.85%
PWW	175	2.257	2.29	2.97	129.93%	639	6.307	6.49	8.07	124.36%
Small Industry	231	1.007	0.74	0.72	97.70%	322	1.365	0.97	1.03	105.80%
Medium Industry	38	0.882	0.93	0.87	94.21%	65	1.683	1.62	1,44	88.81%
Specified Pub. Purpose (P.I.)	1125	2.647	1.82	2.06	113.23%	1979	5.105	3.70	4.29	115.93%
TOTAL LT	106695	76.364	39.9901	44.84	112.13%	207536	160.061	82,6113	87.43	105.84%
Energy Input in LT (MU)			92.693					197.249		
Energy Sold in LT (MU)	1		76.364					160.061	100	-1_
LT LOSS (%)			17.62%					18.85%	NOTA	RA
AT & C Loss (%)			7.63%					14.12%	·	1.
Realisation Cost per LT Input (P/U)			484					443 9	Bit of	FE 2

L.T.PERFORMANCE FOR THE PERIOD - APR-22 TO MAR-22										
Name of Division :		JRED,	JAJPUR R	OAD			JTED,	AJPUR T	OWN	
Category	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rx. in Crs.)	Collection Efficiency (%)	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collectio Efficienc (%)
Domestic	89905	110.058	53.95	61.26	113.54%	93356	92,886	42.64	47.11	110.47%
Kutir Jyoti	195	0.026	0.02	0.01	53.88%	368	0.025	0.04	0.03	62.32%
L.T. General (Com)	5889	35.420	26.99	27.07	100.31%	4374	17.351	12.83	12.58	98.06%
Agriculture	1702	2.324	0.44	0.36	80.70%	1163	4.282	0.89	0.26	29.52%
Agro	19	0.154	0.01	0.01	82.98%	29	0.078	0.01	0.01	100.00%
Alties-Agro	0	0.003	0.00	0.00	#DIVIOI	0	0.006	0.00	0.00	#DIV/01
Street Lighting	93	2.348	1.52	2.49	163.63%	80	0.846	0.78	1.18	152.68%
PWW	195	4.180	3.48	4.09	117,72%	148	1.918	1.69	1.79	105.83%
Small Industry	202	1.054	0.71	0.77	108.27%	256	0.953	0.82	0.78	94.23%
Medium Industry	94	3.019	2.79	2.85	102.43%	10	0.209	0.18	0.18	97.85%
Specified Pub. Purpose (P.I.)	501	2.262	1.37	1.43	104.98%	533	1.423	0.96	1.18	122.81%
TOTAL LT	96856	160.846	91,2895	100.36	109.93%	100317	119.977	60.8476	65.10	106.98%
Energy Input in LT (MU)			222.683					162.974		
Energy Sold in LT (MU)			160.846					119.977	NOTA	۵.
LT LOSS (%)			27.77%					26.38%	40.	4
AT & C Loss (%)			20.59%					-	· ARPS	the -
Realisation Cost per LT Input (P/U)			451					399	Or 000	



L.T.PERFORMANCE FOR THE PERIOD - APR-22 TO MAR-23										
Name of Division :		KUE	D, KUAKH	IA.			KED	KEONJH	AR	
Catagory	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collection Efficiency (%)	No. of Consumer	Censumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collectic Efficienc (%)
Domestic	104829	93.118	43.27	52.20	120.62%	107888	67.969	32.34	35.00	108.251
Kutir Jyoti	1565	0.188	0.19	0.16	80.06%	3409	0.267	0.35	0.37	105.931
L.T. General (Com)	5082	20.435	15.99	15.70	98.19%	6132	24.634	18.49	18.62	100.681
Agriculture	1152	3.585	0.62	0.24	38.01%	1243	1.491	0.40	0.33	82.74%
Agro	33	0.199	0.03	0.03	93.43%	47	0.318	0.07	0.08	111.491
Allied-Agro	0	0.031	0.00	0.00	#DIV/01	0	0.000	0.00	0.00	#DIVIO
Street Lighting	100	0.882	0.64	1.25	194.23%	28	2.216	1.42	1.43	100.651
PWW	190	2.026	1.75	2.26	129.21%	227	2.334	2.51	2.61	103.911
Small Industry	241	1.286	0.90	0.92	102.54%	149	1.072	0.74	0.75	101.029
Medium Industry	127	3.187	3.33	3.19	95.74%	38	1.403	1.38	1.40	101.101
Specified Pub. Purpose (P.I.)	447	1.502	1.01	1.12	110.90%	1141	3.391	2.54	3.14	123.581
TOTAL LT	113766	126.440	67.7345	77.05	113.75%	120302	105.095	60.2383	63.72	105.785
Energy Input in LT (MU)			211.716					112,706		
Energy Sold in LT (MU))		125.440					105.095	-	
LT LOSS (%)	1		40.28%					6.75%	HO7	40
AT & C Loss (%)			32.07%					1.36%	1/4	10
Realisation Cost per LT Input (P/U)			364					565	1	161

L.T.PERFORMANCE FOR THE PERIOD - APR-22 TO MAR-22										
Name of Division :		JO	ED, JODA				AED,	ANANDAP	UR	
Category	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collection Efficiency (%)	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collectio Efficienc (%)
Domestic	84980	70.043	33.68	38.02	112.89%	127585	84.491	38.33	41.10	107.24%
Kutir Jyoti	1495	0.144	0.17	0.17	104.72%	3736	0.528	0.42	0.37	87.62%
L.T. General (Com)	6203	28.715	21.64	21.79	100.89%	4914	18.225	13.49	13.93	103.25%
Agriculture	979	1.622	0.38	0.37	98.33%	729	0.361	0.09	0.15	163,20%
Agro	13	0.049	0.01	0.02	116.79%	68	0.477	0.09	0.10	106.97%
Allied-Agro	5	0.012	0.01	0.02	166.04%	7	0.041	0.03	0.03	93.45%
Street Lighting	120	3.200	1.99	1.87	93.70%	330	1.878	1.22	1.78	144.96%
PWW	360	2.550	2.47	2.71	109.58%	272	3.505	3.31	3.82	115.46%
Small Industry	163	0.894	0.65	0.64	98.76%	232	0.869	0.64	0.63	98.25%
Medium Industry	45	1.365	1.30	1.26	97.36%	39	0.653	0.85	0.88	103.69%
Specified Pub. Purpose (P.I.)	696	2.514	1.84	2.26	122.98%	1197	3.509	2.45	3.06	124.88%
TOTAL LT	95059	111.298	64.1385	69.13	107.79%	139109	114.537	60.9173	65.83	108.07%
Energy Input in LT (MU)			122.400					154.873		
Energy Sold in LT (MU)			111.298					114.537	-	2
LT LOSS (%)			9.07%					26.04%	NOTA	49
AT & C Loss (%)			1.99%					20.00%	1	1.7
Realisation Cost per LT Input (P/U)			565					425 C	Sh- 1-250 Sh- 1-250 Sh- 1-250	W -



L.T.PERFORMANCE FOR THE PERIOD - APR-22 TO MAR-23					
Name of Division :		TPNO	L AS WH	OLE	
Category	No. of Consumer	Consumption (MU)	Amount Billed (Rs. in Crs.)	Amount Collected (Rs. in Crs.)	Collection Efficiency (%)
Domestic	1830722	1441.424	665.82	752.75	113.06%
Kutir Jyoti	42329	5.935	4.56	4.62	101.43%
L.T. General (Com)	108910	385.149	286.98	288.15	100.41%
Agriculture	28815	84.523	17.12	12.12	70.83%
Agro	2603	38.569	8.11	7.94	97.90%
Allied-Agro	57	0.970	0.54	0.53	99.01%
Street Lighting	1421	23.964	16.04	19.19	119.64%
PWW	4490	52.777	49.57	56.03	113.03%
Small Industry	4357	19.751	14.46	14.62	101.12%
Medium Industry	1132	37.713	34.38	34.06	99.06%
Specified Pub. Purpose (P.I.)	16052	41.929	30.02	34.46	114.79%
TOTAL LT	2040888	2132.704	1127.59	1224.47	108.59%
Energy Input in LT (MU)		2	890.265		
Energy Sold in LT (MU)		2	132.704		
LT LOSS (%)			26.21%		
AT & C Loss (%)			19.87%		
Realisation Cost per LT Input (P/U)			424		





								,040	PORMAN	and a	9000.23	M. USA.	Lances	LINCE.	monu								
				(Resumb	el digi, Pisse abre (seri)		trop	See (Mil)			one (N)	Miles of	Majoriny Ni		Comume in De. (Rec	erton wheet or Cre.)	Calada	- Ethousey No.	47 A.C	100	Overall Restortion	L) National
		-	Company	1,5	tiria;	DIT	81	1/1	FIFTAL.	1/7	Overall	LF.	Devid	M.	NOTINE.	1.7	TOTAL.	1.7	70196	U	1016		Per LT legal
	RC TARGET?			(MICRO	*	1469,000	994-300	2735.300	4915.300	21.00%	18.36%	79.34%	BLAIR.	uun	(791.84	19625	28/4.83	19.10%	18.05%	22.47%	19.17%		100
102	DIAL .						1117		1000														
		2007-03	eter.	100.001	225.474	\$4,000	75,605	147.311	291,549	ton.	1136%	8.55	mars	81.70	19.00	85.40	179.00	100.30%	101.025	100	16.855	948	600
1	MALABORE	(Render)	Chiek	107.266	204.034	27.50	81.00	19.63	207.611	11.57%	42.69%	10.70%	87.97S.	nn	91.9	19.29	155.30	90.38%	15,14%	mais.	44.40%	600	467
		1849-Med 2009-03	04400				-									-		-					
1	BTED, BASTA	(Aprille)	0.4400	190.667	191.836	100	2118	61.00	85.841	36.00	41.38%	10.87%	MATE.	40.44	en	40.10	44,78	106 30%	THE REAL	34.98%	38.71%	396	116
		(Non-Mark)	MEDIN	128.809	ONUT	6 300	1.460	75,334	00,794	N.es.	42-19%	42.5%	11.80%	p.p	90.00	29.36	39.38	PT.38%	77.84%	81,70%	Mark	219	101
1	40.	(Apr. Rad)	1299	TITAL	36,13	60.290	4,131	231419	186,000	20,18%	36,37%	79.62%	TIJ.TES	96.76	100.60	61,20	194.30	MERCH	194,395	mer.	21.00%	400	340
1	74(13mA	Stor-West	10001	194,404	207.000	889	1.00	125.499	103.400	20.77%	22.99%	19.38%	THE	N.M	16.89	45.00	\$6.79	80.27%	H375	31.75%	21.38%	350	219
	000.	2919-29 (Apr-West	THIN	204.790	481.413	196.009	84,312	torizer	201.236	30 16%	wars.	0125	80.0%	87.21	206.58	Ti-00	279.38	100.67%	19.275	11.47%	438%	104	200
٠	BALASONE	2021-22	110031	300-01A	200.004	18.800	92.774	128,690	201,234	21.00	21.38%	44.50%	SEARS.	ED BA	119.20	88	110.26	61.67%	100 PTS	41.57%	21.00%	500	.201
i		(Aur Mol-	102706		PM.762			126,761	198-421			juans.		01.00	me.	14.12			19.5%			111	-
	100,1010	(Apr 86x1) 2001-22		-																			429
		(Aprilled)	30014	141 ADI	291.636	5.000	34.136	10.01	WEAR	14.44%	11,47%	80.50%	80,01%	10.00	86.17	16.45	71.66	95.56er	BATTE.	District.	H.NS.	345	387
	EMID.	(Aprollar)	162651	347-134	80.40	191919	25.940	Jon Pen	217.005	30.00%	JEANS.	60.50%	79.07%	110,38	295.50	121.03	297.AD	100.31%	100.01%	26.80%	26.29%	499	386
	Bricker, N	IND142 (Ascillat)	190000	304416	477,349	122,990	21,373	210.000	307.633	20.98%	25.00%	19495	14.60%	100,07	209.40	91.95	101.20	61:35%	10.30%	elm.	3237%	361	381
	1990.	SHEELS (Apr War)	111988	180.047	168,505	1887	3.531	nin iss	103,000	30.865	37.30%	81119	40.75%	\$1.15	16.15	85.33	68.21	unus	125.52%	14,24%	21.27%	411	434
7	BHIODAK (S)	SEET-EE DAMERTON	119734	191.001	100.000	1.403	1400	100.802	110,940	26.36%	Hars	15,74%	stres.	51.6	54.50	4.00	61.54	91.12%	11.05	man.	MAPS.	294	340
		3623-25	pos	207.794	365.175	1.000	25.70	100 100	248.001	11.6%	26.80%	1165	71.00%	129.29	138.56	9788	145.44	was bire	114.20%		Art man	428	461
۰	BARIFAEA	3621-02	zones	294 324		1.00		1000	-	16.65%			-	1	195.04			-					-
		Otor Wart 3003-81			500,001	4,14,010		257 126		-	-	85.40%		116.50		91.00	11434	81.04%	84,89%	31.58%	pt.38%	346	288
	160,10ALA	(Aprille) (B)1-02	106/50	at say	191,314	1100	1179	17.540	79,501	16.34%	10.8e%	mars	31,424	10.18	4(3)	44.04	6.91	19.7%	118.89%	7.56%	15.09%	447	-
		(Netfel)	11006	81,816	100.179	8.000	0.758	90,660	10.64	4.70%	1,945	100.72%	81.69%	40.64	41.99	21.48	30H	more	01,29%	30.50%	mark	29	348
	MES.	2003-25 (Apr-Mar)	307566	197249	251.559	100	15.767	158.079	177.463	26.67%	25,52%	7642%	36.48%	91.46	11.10	87.00	81,62	107,00%	111.50%	14.75%	21,38%	401	60
_	ANUGARCITUR	IND1-EE	209408	201843	207.881	1.00	11.794	180.019	101.725	11.97%	18,28%	67 02%	m715	#40	20.00	66.92	81.00	68-076	21,19%	et.un	9.95	200	296
	JANO, JAJANE	300.03	9000	202.000	1680.100	1341.315	90.505	105,027	1500.007	21.60%	1385	24.00%	84.00%	10.88	300.11	100.00	1076.41	100,05%	188.55%	18.80%	100%	636	-
15	No.	AR	prince	200 138	1789.010	en 20	106,277	140.860	110,110	M error	1405	m 31%		0.00	795,91	19.31	264.71		100.01%			594	340
H	120	3433-43	Carrie		179.329		100		100.700		21.00%				SLH.		-						-
ų	Total Control	-	Jacobs				1111							81.48	-	65.40		-	101.07%			301	200
4	1 55	Sec.	173	party and	197,508	-	1406	108/308	109.540	Hars	44,54%	III.145.	III-MIN	35.40	11.79	51.53	10,01	M.III	HHL	11.00%	4.3%	363	.288
		SOMETHING.	15	211.7%	H2.50°	41.00	35.645	130:360	209,108	31.07%	10.09%	81.42%	BLST'S.	80.04	715.19	Print.	100,01	101,70%	104.00%	31.345	8.65	-	361
	KONEN	Appeller)	100	219.000	299.027	20.000	19.500	121.456	195,601	41.78%	41.28%	86.27%	88.77%	SCM.	85.70	36.66	84	82.9%	87.50%	49.12%	40.00%	313	288

n ten	:			Sharp to Sharper	end been		S-maps	proof land		(Assume	ANT LINE	-	-	State of the last	to to to	Amo	etton street - Direct	Catalina	etum,	****	uma Phij	Owner	, u
-		1	Immore	1.7	10141	det	pt.	NT.	100%	47	Oneut	4.8	Overell	69	10114	4.0	1974	- 62	TOTAL	1.0	TOTAL.	For total	Part of the
DERC TARGE KPPROVIKL				3463,666	******	****	579,500	2710.300	41.20	21,67%	16,00%	36.27%	81.87%	4379.79	2791.04	1016.05	2014	-	-	84%	18.17%	Signal Print	Met.
	20	(0-63 e-Mws	120346	101708	Secure	100,000	40 800	165,266	PART	1000	100	91.0%	Mars	20.00	198.42	6.0	ana	mers.	100.80%	2184	8,96%	-	100
MEDINA	100 170	mits :	125000	100,040	*****	13.614	79.019	110,040	160,40	4195	10%	19.7%	11.00%	mm	181.31	NN.	197.74	mm.	87.78%	4579	1205	160	116
	100	59-81 - Mac)	9910	103.400	919.14T	ten.no	190.216	110.104	800,000	16.00%	4.8%	H 97%	81.79%	8541	10.0	86.19	FILE:	100 07%	man	1195	18%	415	100
18 3060, /	IPM IPM	PI-IT	91014	119.342	****	360,779	60.001	115,019	107.00	3674	141%	16.50%	mars.	62.66	mi.12	57.74	300.01	90.165	man.	11.20%	110%	404	401
	300 (840	DO-DO	1919	104,673	119,467	0.000	8942	+14,870	101,000	DI NOS.	10.00%	New	15 475	61.00	98.25	ento	19,79	107,88%	106.75%	20.129	25.50%	40	400
Annani	PRINT DO	(Print)	Cambin.	00'302	179.043	6.300	1300	771.984	***	20.075	Hirs.	71.875	16,675	-	40.81	40.40	10.07	TRANS.	11-17%	0.05	45%	100	.100
-	1800	00-00 I	-	2000-200	9473.309	2001.004	495.417	P100.764	1410.052	26.075	16-67%	13.79%	818%	11(1)(0)	1000.61	1526,67	1007.90	198.00%	nisars.	18475	11,34%	ten	400
SPROOF, TO	360	15-30 - March	-	HIS.ATS	4887.049	1479-515	***	green home	4544.306	24,60%	16.47%	19.879	HAT	1086.21	Steel, in	101.61	per in	10.07%	14275	***	23.0%	40	10





PERSON OF REVIEW - NPR-22 TO MARKET			_		_		-	-						
NAME OF THE DIVISION	-						869, 64	N.ASONE		_	-	-		
PARTICULARE	Apr to Mari	Air-S2	May-22	Am 83	Je/ 82	Aug 22	Step-22	OvedE	Nov-22	Deri-02	Jan 13	Feb-20	Mar-21	Total
BULK BUPPLY	-										11777			
Demand (MVA)														
Emergy Input (MU)	294.834	22,239	31.690	36.230	31.383	28.714	31,864	27.887	21.880	20.828	19.696	20.998	25.300	325.47
BET Bill of GRIDCO (Fig. W Crs.)	162.60	11.25	10.88	12.30	19.95	16.07	11.12	9.00	7.67	7.30	6.80	T.85	8.54	114.60
BST BH (PN)		3.49	3.49	3.49	3.40	3.48	8.49	3.49	3.49	3.49	3.49	3.49	3.49	-
SALE TO CONSUMERS (MU)	100.00	77.7	1000		100			-	-	3.5		- 22		1111111
EHT	57.518	5.362	3.208	8.859	8.270	0.679	9.206	8.542	5.363	1.473	8.423	8.001	5.496	54.65
нт	01.065	8.470	6.322	9.409	T.460	6.714	7.275	8.679	6.090	6.195	4.600	8.942	6.436	79.60
LT .	136,838	13.242	11.064	18,713	14.718	19.62%	14.527	14.438	11.740	A-676	8.746	7.765	7.501	147.51
TOTAL SALE MAN	267,615	29.013	34.633	12.410	27.480	27.514	27.000	34.843	21.494	20.344	16.500	16.766	19,256	291.16
Y & D LOSS (%)	401000	-	-	-		-	-5000		-	-		10000	15-216	441.11
of Japane Phi	8.00%	8.60%	8.00%	8.00%	8 00%	6.00%	6.00%	0.00%	8-50%	6.50%	8.00%	8.00%	8.00%	8.00%
LŤ	11.02%	27.46%	29.52%	2.11%	10.00%	1.74%	15.79%	-0.487%	-31.89%	431%	0.32%	11.13%	38.54%	9.885
HTALT	19.77%	26.66%	26.01%	9.29%	14.93%	9.15%	18.22%	4.85%	-8.12%	3.88%	8.19%	14.08%	30.66%	36.155
DVERALL (N)	12.69%	22.23%	21.71%	8.00%	12.42%	7.40%	15.24%	3.70%	4.80%	2.72%	1.92%	10.83%	24.01%	11,347
Billing Efficiency (NJ)	-	-					111111111111111111111111111111111111111	-			-			1000
HT .	92.00%	82.00%	93.00%	92.00%	80.00%	90.00%	82.00%	BE 00%	4700.18	82.00%	\$2.00%	82.00%	8E-00%	90,007
LT	88.28%	73.54%	73.47%	97.88%	#8.08%	96.26%	84.21%	105.46%	131.00%	106.31%	99.68%	88.87%	61.96%	99,121
HT A LT	84.23%	73.34%	73.00%	90.71%	80.07%	90.86%	81.79%	95.37%	109.12%	96.37%	91.81%	81.52%	89.34%	85,895
OVERALL(%)	87.34%	27.27%	19.29%	92.00%	82.58%	92.40%	84.78%	56.30%	106.90%	81.28%	94.57%	89.37%	75.80%	88.647
BILLING TO CONSUMERS (Rs. in Crs.)		11213										20.00		-
(of	39.62	346	3.54	3.31	3.54	3.77	3.40	- 3.71	3.63	2.79	140	1.03	3.46	43.67
HC .	64.42	4.31	4.31	5.90	4.99	4.12	4.75	4.66	4.31	4.20	3.62	1.00	4.32	55.22
LŤ	77.71	7.97	7.43	10.08	6.20	6.82	8.21	7.86	8.48	6.04	4.60	4.60	4.53	82.76
TOTAL	181.16	15.22	19.28	19.36	16.60	16.41	16.21	16.13	14.42	13.86	12.65	11.82	12.30	179.00
Billing to Gov! Dept. 8. PSU	18.76	6.74	0.82	0.89	0.94	0.82	0.86	0.00	0.40	173	8.79	248	2.65	141
COLLECTION RECEIVED (Rs. in Crs.)	10.10					7.00	- 100			-010-			2.00	
EaT	38.43	1.48	145	3.64	3.34	3.51	3.77	3.47	376	3.63	3.75	3.60	3.49	42.96
ed .	44.46	3-67	4.07	4.29	5.70	4.79	4.32	4.67	4.53	4.31	4.16	1.54	4.08	51.57
IV.	79.29	477	8.59	8.12	8.47	7.91	179	7.55	0.54	6.49	4.99	8.93	11.36	85.45
TOTAL	155.50	11.22	14.00	15.95	17,48	16.29	15.88	15.83	14.77	14.43	12.89	12.07	19.52	179.90
Collector from Govt Dept. & PSU	10.26	8.07	8.16	0.56	0.84	0.96	0.06	0.72	0.01	1.04	0.45	0.52	1.85	8.24
COLLECTION (PIL)-Ra.	5.30	3.48	4.55	4.53	9.57	5.49	4.94	8.77	6.72	4.90	6.54	8.79	7.47	140
COLLECTION EFFICIENCY (NJ.)	-							17.00	2.10					7.40
DIT	16.105	96.24%	103.20%	107 18%	94.27%	92 SWG	108.81%	93.54%	101.57%	96.67%	104.17%	163.76%	89.57%	99,611
HC .	100.09%	68.83%	D4 ARTS	7147%	118.67%	116 14%	80.87%	107.70%	105.10%	102.57%	104,88%	90.19%	94.66%	94.901
T.	99.10%	44 75%	AR.TYS	40.66%	100,00%	92,85%	97,36%	94.58%	100.51%	125.88%	- Feb. 1176	109.38%	282.40%	100.32
HT & LT	93.91%	66,36%	80.67%	77.25%	106,27%	100.44%	94.90%	99.56%	100.00%	116.80€	NOT	100.42%	176.47%	100.81
OVERALL (%)	95.14%	73.17%	91.69%	62.38%	105.27%	99.77%	97.88%	98.18%	102.44%	111,07%	100.17%	80,27%	153.66%	100.52
Coteotor eMolecoy and: Doys & PSM dues NJ	95.19%	76.41%	97.90%	83.31%	107.93%	99.04%	97.12%	99.29%	100.87%	106,2004	465715		186.50%	101.30
AT & C LOSSING	100000	25.5	0.750.00	1000		7777	17.00			1958	44.	Company of the Compan	and the same	
LT.	28.21%	53.82%	24.82%	21.16%	8.02%	8.26%	18.00%	4.18%	(03.10%	-10-65	9000	179%	42.18%	6.89%
H1 & L7	26.80%	51,41%	22.80%	29.90%	3798.1	8.73%	22,37%	1.04%	11130%			4/12/	-23.79%	13.421
OVERALL(%)	16.33%	63.10%	38.46%	24.33%	7.81%	8.58%	17.03%	1.49%	-8.60%	4 % Ch	N. 455%	10000	-16.91%	16.805

PERIOD OF REVIEW - APR-25 TO MAR-25														
NAME OF THE DIVISION							area.	BASTA	•					
PARTICULARS	J015-32 (Apr to Mar)	Apr-82	May-22	dun-2d	M-II	Aug-22	Sep-22	005-22	Nov-82	Dec-23	Am-23	Feb-03	Mar-23	Total
BULK SUPPLY														
Demand (MVA)														
Cnergy Input (MIJ)	139.527	16.403	12 902	12.867	13.363	12,601	13.600	12.145	8.890	1.409	12.575	13.244	14.567	101.636
BST BE M'ORIDCO (Rs. in Ors.)	48.58	5.72	4.50	4.52	4.66	6.28	4.75	4.24	3.10	2.96	4.30	4.62	1.04	52,921
MST 84 (P50)		3.49	3.49	3.49	2.40	3.49	3.49	3.49	3.49	1.49	3.49	3.49	3.49	
SALE TO CONSUMERS (MI)	10000									-				100.7
DHT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.000	0.000	0.000	9.000	6.800
HT	1,460	0.148	0.266	0.236	9.237	0.209	0.198	0.244	0.176	0.176	0.165	0.218	0.246	2.518
1.7	79.224	8.747	8.990	7.861	7.580	7.717	7.408	7.843	6.544	6.108	4.814	5.445	7.430	63,323
TOTAL SALE (MU)	86.794	0.893	T.196	9.096	7.817	7.926	7.606	8.186	9.522	5.281	4.379	1.061	7,676	85,841
T & D LOSS (%)	7015111		100											
HT (Assume 8%)	8.00%	4.00%	4.00%	8.00%	6.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
(T	37.49%	41,47%	40.28%	32.73%	37.13%	31.66%	39.93%	27.03%	20.71%	32.67%	57.79%	34.50%	43.52%	39.12%
HT & LT	42.10%	45.78%	44.22%	37.52%	41.50%	36.62%	46.18%	32.60%	26.64%	37.64%	60.47%	57.24%	47.31%	43.39%
OVERALL (%)	43.10%	45.78%	44.23%	37.52%	41.50%	36.60%	44.16%	32.60%	26.64%	37.64%	60.41%	17.24%	47.31%	43.39%
Silling Efficiency (%)	- 0.500	1.7		100		1000						-		- 19:30
HT	92.86%	92,00%	92.00%	92.00%	92 00%	92.00%	92.00%	90.00%	92.00%	60 00%	82.00%	82.00%	92.60%	92.00%
LŤ	62.51%	58.52%	38.72%	67.27%	62.87%	68.36%	80.07%	72.67%	79.29%	87.00%	42.21%	45.50%	56.48%	60.83%
HT A LT	57.80%	54.22%	55.77%	62.48%	58.50%	63.40%	55.84%	67,40%	73.36%	62.30%	30.39%	42.76%	52.60%	56,61%
OVERALL(%)	17,80%	54.22%	86.77%	42.48%	56.50%	63.40%	55.84%	67.40%	73.36%	62.36%	39.59%	42.79%	52.69%	56.61%
BILLING TO CONSUMERS (Rs. in Crs.)	-		-		-	-		-						
THE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	- 0.00	0.00	0.00	0.00	0.00
HT	1.01	0.19	0.17	0.15	0.15	0.13	0.13	0.15	0.12	6.12	0.11	0.14	0.16	1.61
LT	37.67	3.83	3.30	4.04	5.87	3.67	3.40	3.73	3.10	2.76	2.54	2.74	0.61	40.44
POTAL	38.98	3.83	3.46	4.19	4.02	3.80	3.52	3.88	3.22	2.62	2.65	2.88	3.67	42.85
Billing to Govt Dept. & PSU	4.74	0.35	0.32	0.36	0.33	0.32	0.32	0.34	0.34	0.36	0.31	0.28	0.56	1.02
COLLECTION RECEIVED (Rs. in Crs.)					0.10	-						4.45	2.20	
EHT	0.00	0.00	0.00	0.00	0.00	5.00	0.50	0.00	0.00	0.00	8.00	0.00	0.00	9.00
HT	1.64	0.10	0.00	0.26	0.15	0.15	813	0.13	0.16	0.12	812	0.08	0.16	1.55
LY	29.34	1.83	2.66	3.14	3.43	2.98	4.20	3.47	3.65	3.48	2.68	2.87	9.00	43.23
TOTAL	30.38	1.92	2.55	3.48	3.57	3.13	4.13	2.60	3.76	3.60	2.69	3.00	9.15	44.78
Collection from Govt Dept. & PSU	2.51	0.01	0.28	0.13	6.27	0.08	0.63	0.37	0.47	0.32	6.12	0.04	1.61	4.33
COLLECTION (PIV) Rs.	2.18	1.17	1.00	2.63	2.67	2.50	3.18	2.97	4.23	4.25	2.14	2.31	8.20	2.95
COLLECTION EFFICIENCY (NJ						-	-0.15	-	144	144	-	2.01	- 111	6.99
EHT	#ONYTE!	#DIVID	MONION	#DIVID:	405/0	#5N/99	#DWD:	#05/56	#00V6	#Dry/07	#DIVID	EDIVID	4DIVID	#DPV/St
H	102,78%	98.67%	0.00%	190.44%	96.67%	113.64%	104.87%	83.02%	131.78%	102.20%	105.90%	60.24%	101.09%	96.32%
LT	77.28%	41.67%	77.68%	17.66%	88.43%	81.17%	123.54%	93.22%	116.23%	128.6136	DIM	108.54%	256,10%	106.80%
HT & LT	77.86%	48.94%	73.08%	81.28%	48.81%	82.30%	122.86%	90 K2%	116,60%	100,655	OHM	#08-00%	249 52%	104.50%
OVERALL(%)	77.94%	48.54%	73.00%	81,26%	88.81%	82.30%	122.88%	10.82%	118.80%	UMPS	101.63%	308.00%	249.52%	104.30%
Collection efficiency exct.		ER 4000	77.47				-	mark the last of the last		7		-		-
Gort & PSU dates NJ	81.42%	53.48%	72.52%	10.50%	85.45%	87.88%	115.46%	91.35%	114.00%	10.24	Widows.	-STEETS	223.69%	106,88%
AT & C LOSS(N)	100				0.00	100	1000		177	0.00	Birtier'	MUZ.		
LT.	61.70%	72.10%	83.01%	47.78%	44.41%	44.83%	25.79%	32.26%	7.84%	184	書名を	7900	44.64%	34.98%
HTALT	54,87%	73.47%	58.74%	49.23%	48-05%	47.62%	31.39%	37.44%	14.31%	20/09/04	59.76%	1900	-31.46%	39.71%
OVERALL (%)	54.87%	23.42%	58.T#%	49.23%	48.05%	47.82%	21.30%	37.44%	14.31%	22.4%	- Spring	BURTE	-31.48%	39.71%



PERIOD OF REVEW - APR-25 TO MAR-25							711	7						
RAME OF THE DIVISION				100000			JED, JA	LESWIS .						
PARTICULARS	(Apr to Mar)	Apr-01	May-tt	And .	246.02	Aug-22	\$ep-22	Out 20	Nor-22	Dwy-00.	Am-23	Peb-25	World	Total
BULK SUPPLY							-	-	-					-
Gemand (MVA)														
Energy Input (MU):	207.062	26.838	20.798	21.678	22.473	21.807	22.779	21.058	18.860	14.669	22.438	23.716	22 700	297.07
BST Bill of GRIDGO (Rs. in Crs.)	82.49	9.37	7.24	7.57	8.19	7.61	7.95	7.36	5.48	5.13	7.83	8.28	7.60	89.89
MET BY (PA)		3.49	2.69	3.49	3.49	1.49	3.49	2.49	3.49	3.48	3.49	1.40	5.49	
SALE TO CONSUMERS (MA)					-			-	-		-		-	
THI	15.021	5.143	4.907	4.434	\$.197	8.361	4.677	5.006	4.983	8.227	6.673	8.005	5.817	86,290
HT	2,969	6.319	0.362	6.390	0.448	0.374	4.336	6.379	0.352	0.081	0.233	0.292	0.387	4.124
T.	125.450	12.042	10.185	13.597	11.780	12,721	10,813	12.457	11.171	8.487	6.583	7.213	8.555	125.61
TOTAL SALE (MU)	183,469	17,506	15.464	18.621	17,385	13.466	16.526	1T.862	16.507	63.875	11.009	12.526	13,954	190.01
TAD LOSS (NJ			10.400	140.441		10.000	14141		10.101	12010	11.000	10.000	12.204	196.02
HT (Resume 8%)	8.00%	8.00%	4.00%	6.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	1.00%	6.00%	8,005
Lf.	23.79%	28.67%	29.34%	12.13%	28.16%	13.77%	32.66%	13.00%	-18.08%	4.57%	68.12%	57.33%	46.16%	29,595
HT ALF	29.42%	43.07%	33.66%	18.89%	35.28%	20.37%	37.72%	19.72%	-4.00%	7.50%	60.69%	59.80%	49.46%	34.245
OVERALL PLA	22,59%	34.78%	25.50%	15.62%	25.54%	11.30%	20.00%	14.90%	-5.48%	4.80%	46.07%	47.17%	36 67%	Burn (NO) 500
Billing Efficiency (No	ALCOH A	4500	1000		-	10.00	24.00	14,44.8	4.464	144.5	4.50	41.11%	ARLOUGH.	26,325
HT	92.00%	90.00%	80 00%	92.50%	52 DON.	90.00%	92.80%	80.00%	90.00%	92.00%	92.00%	92 00%	92.00%	92.005
T.	76.30%	61.53%	F1 66%	67.67%	71.62%	86.27%	67 00%	86.92%	118.08%	100.87%	41.88%	42.67%	4	
HT ALF	79.38%	58.99%	88.58%	81.31%	66.38%	79.60%	87.26%	80.25%	100.00%				53.84%	76.825
OVERALL (%)	17.47%	65,24%	74.50%	84.98%	74,06%	SA.DES	70.30%	85.00%	105.48%	92.45%	39.31%	AB 19%	10.54%	65.765
BILLING TO CONSUMERS (Rs. in Crs.)	11,4116	40.475	14.00%	04.045	74.00%	24.00%	10.30%	80.00%	100.45%	98.14%	\$3.00%	52.63%	£1.47%	73.785
ENT	17.85	3.36	3.30	3.00	2.51	3.58	3.27	5.39	-					-
ed.	1.79	0.19	0.19	0.21	0.21	Acres de la constante de la co			3.54	155	3.35	3.67	3.36	49.74
HT.						0.18	0.20	0.22	0.27	8.21	0.19	0.12	0.24	2.80
TOTAL	95.69	8.23 8.77	6.41	4.54	1.00	5.86	4.54	5.41	4.66	3.67	3.7t	3.53	4.23	56.76
10000	diameter and the second		4-20-0	9.55	8.72	9.32	8.61	3.81	6.42	7.42	1.21	7.30	7.62	100.03
Billing to Good Dept. & PGU	T.06	0.55	0.62	8.55	0.76	0.54	0.82	0.91	0.68	0.53	0.50	0.53	0.47	6.48
COLLECTION RECEIVED (Rs. in Crs.)		-	-	-	-						10,70	1000	7.55	200
EHT	37.10	3,16	3.35	3.50	3.00	3.51	2.58	3.27	3.38	3.53	3.53	3.35	3.50	40.55
н	2.26	0.26	0.30	0.16	8.24	0.30	0.29	6.21	0.31	6.22	0.20	0.19	0.26	2.55
, T	45.38	2.16	3.16	5.40	5.34	4.79	1.89	5.17	:4.48	1.04	3.86	3.01	12.22	61.22
TOTAL	84.74	5.58	6.73	9.87	8.59	E.40	9.46	0.64	4.04	8.79	7.71	7.75	16.06	104.33
Collection Burn Govt Dept. & PSU.	5.40	6.20	0.25	0.71	8.52	0.36	0.07	0.50	0.48	0.46	0.29	0.29	2.56	7.38
COLLECTION (PAI) No.	3.56	2.08	3.34	4.00	3.00	3.90	6.24	6.1t	8.18	6.98	3.44	3-92	7.07	4.06
COLLECTION EFFICIENCY (N)										100		111111	100	
EHT	16.83%	94.88%	101.30%	110.29%	86.36%	99.15%	109.36%	96.67%	95.91%	100.01%	105.01%	85.88%	100.19%	99.95%
HT	126.51%	130 33%	104,79%	76.59%	110.67%	103.37%	99.09%	82.34%	93.69%	100.98%	105.34%	89.02%	113:52%	101.841
IT.	60.23%	41.10%	64.77%	85:14%	106.80%	86.17%	120.76%	95.50%	95.60%	25.474	207.57%	102.19%	289.17%	107.60
HT & LT	81.64%	44.27%	66.17%	84.86%	107.34%	66.75%	108.50%	85.46%	90.75%	O-17	WILLIAM.	101.40%	279.61%	167.57
OVERALL (%)	86.37%	63-60%	29.87%	60.62%	88.48%	81.12%	100.00%	10.69%	95.779	\$100 and	38.86	87.78%	305.23%	104.50
Collection efficiency exct.	86.19%	85.37%	82,04%	90.68%	165 12%	82.74%	116.13%	90.00%	96.20%	Vinse A	200 Mg.	101 27%	193,54%	103.641
Gord & PSU (Men To)	. Project	200,000,000	parent.	promit.	300.50 B	- Autoria	1000	-	10.0	- APRADE		MANAGE.	183,24%	100.64
AT & C LOSSING	to the	TA BOX	45.000	20.100	53 100	111111	13.515			80.14	788 - T	No.	100.000	
HT & LT	58,79%	74.80% 74.77%	13.58%	25.19%	23.19%	25.06%	12,04%	10.34%	-13.17%	Д.66409 53)	1880/	36.41%	-00.68%	20.647
	48.87%	manufacture of the same	56.96%	30.17%	28.34%	30.66%	19.87%	23.30%	43.4000	SERVE.	118	7 59.29%	41.32%	29.265
OVERALL (%)	31.39%	18.51%	40.43%	21.12%	27.06%	22.84%	15.09%	18.48%	-1.02%	9500	18 M	48:30%	-26.16%	23.057

PERSON OF NEVEW - APRICUITO MARKET								100						
MAME OF THE DIVISION							CHD, Br	HLABORE						
PARTOLARE	SEET-25 (Apr to Mar)	April 1	May-20	-im-20	24.46	Aug-22	Sep-25	0+89	No+22	Dec-83	de-II	Feb-22	Wer ES	Total
BULK SUPPLY	-				-					-			-	
Demand (8N/A)		455-075			- 25000	A	55.000			0.00				
Energy Input (MLI)	299.904	30.207	36.755	35.521	33.531	31.936	31.002	39.296	25.480	40.525	58.118	62,004	PS.142	405.452
BST BR (FORDOD (Rs. In Cis.)	104.00	11.29	12.83	11.79	11.79	11.15	10.02	10.22	3.09	14.14	19.18	21.05	24.22	175,456
BST Bill (PAJ)		1.49	3.49	3.49	140	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	
SALE TO CONSUMERS (MV)														
EHT	18.800	6.367	5.404	6.389	8.181	8.046	4.732	4.900	4.770	26 804	36.463	45.637	12 296	196.009
ref	57.774	5.428	6.623	5.636	6.738	6.311	5.050	5.012	4.832	5.062	4.851	4.971	5.676	84.212
KT.	128.690	12.587	12.077	56,469	12.734	12.216	12.179	12.819	11.206	2.013	7.8%	8.519	6.787	131.007
TOTAL BALE (MU)	266.234	23.282	25.154	26.413	33.423	22.872	21.964	82.421	26.808	33,799	49,250	57,127	64.029	291.338
T & D LOSS (NJ														
HT (Assume 8%)	8.00%	8.00%	8,00%	8.00%	8.00%	4.00%	8.00%	8.00%	8.00%	6.00%	8.00%	6.00%	8.00%	8.00%
UT.	35.68%	35.04%	43.17%	25.24%	37.48%	37.13%	36.29%	28.27%	21,20%	39.42%	40.09%	35.11%	00.50%	35.56%
HTALT	22.47%	23.16%	36.26%	25.96%	34.07%	34.82%	34.40%	29.10%	22.88%	34.11%	34.98%	29.91%	45.21%	33,30%
OWERALL CIL)	31.36%	27.76%	31.80%	21.00%	29.50%	29.32%	29.16%	23.45%	18.34%	16.60%	12.24%	810%	13.66%	19.88%
Billing Efficiency (%)														-
HT	92.00%	92,00%	82.00%	82.00%	90.00%	92.00%	E2 00/F	92.00%	82.00%	82,00%	92.00%	92:00%	92.00%	82.00%
LT .	64.32%	64.90%	56.83%	74.76%	62.61%	62.87%	63.71%	71.79%	76.60%	80.58%	26.91%	66.89%	44.50%	64.02%
HT ALT	48.52%	66.62%	61.72%	74.52%	65.09%	66.19%	85.80%	21.86%	77.68%	65.80%	66.00%	70.00%	84.79%	66.80%
OVERALL (%)	88.64%	T3.24%	44.40%	78.97%	70.45%	T4.68%	70.86%	28.55%	81.60%	83.40%	67,76%	90,83%	86.12%	86.12%
BILLING TO CONSUMERS (Rs. in Cit.)														
EHT	18.99	3.22	3.99	3.91	3.11	3.30	1-01	3.23	3.19	13.47	22.11	26.36	30.00	178.84
HT	36.63	3.35	3.97	3.49	3.53	3.26	3.12	3.12	3.12	3.35	3.23	3.30	3.87	40.43
LT.	63.64	6.10	8.04	7.24	6.36	6.34	6.01	6.13	5.43	4.62	4.15	4.51	3.94	67.21
TOTAL	119.25	12.79	14.00	14.54	15.00	12.90	12.16	12.48	11.74	21.44	23.45	24.47	17.50	224.58
Hitting to Good Dept. & PSU	7.28	0.40	0.90	6.52	0.52	0.52	0.61	0.47	0.47	0.49	0.91	5.42	0.40	8.77
COLLECTION RECEIVED (Rs. In Crs.)	- 000						-	-		1000				
EHT	29.13	3.67	3.09	3.99	3.82	3.22	16.75	16.36	16.57	8.57	19.85	24.48	32.09	157.42
HT	37.62	326	3.29	3.74	3.98	3.68	1.40	3.12	3.19	3.11	5.22	3.16	3.27	39.56
LT	10.52	3.03	5.66	5.50	5.47	5.18	6.13	5.89	5.58	5.50	4.50	3.71	16.60	73.09
TOTAL	119.26	5.34	10.13	13.23	12.85	11.07	26.29	31.37	26.32	18.27	27.81	17.36	52.55	279.38
Collection from Gov! Sept. & PSU	5.03	0.22	0.30	0.38	0.47	0.30	0.66	0.58	0.62	0.45	8.32	0.25	1.85	6.34
COLLECTION (PAI) Rs.	3.99	2.90	2.76	3.98	3.86	3.75	8.48	0.00	9.94	4.51	4.92	0.94	6.00	5.54
COLLECTION EFFICIENCY (No.												-		-
EHT	150,42%	85.40%	77.00%	103.09%	100.18%	A7.57%	102,69%	508 07%	8/18/79%	71.00%	89.57%	100.00%	108.82%	112.36%
HT	182,79%	86.58%	85.30%	107.21%	100.68%	108.86%	100.12%	89.99%	102.16%	92.98%	99.60%	95.82%	81.80%	16.85%
LT	82.52%	49.58%	60.50%	75.98%	86.08%	81.73%	182.00%	96.14%	102.42%	171,675	-110.88A	118.66%	423 85%	108.61%
HTALF	89,89%	65.20%	70.43%	86.12%	91.30%	90.97%	104.43%	87,48%	102.32%	49 July 19	M15.7mg	109.47%	285.87%	104,94%
OVERALL(%)	100.01%	73.38%	72.32%	90.39%	99.64%	60.6Y%	216 14%	200.30%	PR. HPV	APP	41675	108.38%	140.11%	119.33%
Colection efficiency and	162,62%	74.30%	73.50%	91.04%	90.00%	63.66%	219.88%	208.46%	posterial t	Oylers	a del	108.88%	136.65%	119.50%
Gord A. P.S.E. does No.	. HELECO	Control	-2.70%	esantia.	20.000	39.000	216.00.0	200,419		1	A	100.000	100.00%	119.00%
AT & C LORSON		200 0000		200 3000	- C 100	77.55	20.000	10000	14	1	100	2		-
LT DETERMINE	46,62%	88.87%	60.57% 56.57%	43.70%	46 10%	48.61%	8.65%	30.86%	18.3/%	high a	ALC: 110 A	20.63%	46.67%	38.47%
HTALT	49,19%			36.29%	40.58%	40.75%	31.50%	30.00%	20.70%	\$1.00°	211,2374	\$131%	45.73%	29,99%
OVERALL (%)	21.36%	4T 20%	90.50%	29.61%	29.80%	34.54%	63.13%	-86.63%	-79.14%	以前の	17,545,21	/1.54%	-29.92%	4.38%



PRINCE OF REVIEW APRILO TO WIRE IN									_	_				
MAKE OF THE DEVISION					-	-	950	5080	_	-	-	-	-	-
PARTICULARS	(Aur to Nat)	Aprill	Way-21	Am-ID	AASS	Aug-ST	Tep-22	04482	Nev 22	Den-22	ind)	Pet-20	Mor-22	Total
BULK SUPPLY	120.000		-		-		-	-		-	-	- months	_	-
Demand (MVK)				2000										
Energy input (MU)	216.636	23,166	23.611	22,274	22,602	21.503	21765	18.582	13.260	11.857	12.306	13.275	10.447	\$29,77
BAT BE WORKDOOD (Rs. H-CHL)	73.38	6.08	8.24	2.27	7.88	7.50	7.60	6.40	4.53	4.16	4.29	483	3.74	77.840
BST 66 (PN)		3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	2.69	2.49	3.49	2.49	11.00
SALE TO CONSUMERS (MU)			-	-	-		-					-	-	
DHT	9.800	0.006	0.000	6-000	5.000	0.000	6.000	6.000	8.000	0.000	0.000	0.000	0.000	0.000
el.	26,156	3.899	3.768	3.080	3.092	2.621	2.486	2.376	1.110	1,620	1.947	2.277	2.689	29.731
LF	143,431	14.072	16.128	16.213	11,801	12.301	10.096	12.885	19.323	6.803	5.239	7.588	7.567	109.70
TOTAL BALE (MU)	169.567	16.801	67.326	195,291	14.945	14 932	13.462	14.829	12,036	9.513	7,186	9.832	10.126	199.42
TAD LOSS ON	-							110000	10.700	-	71100		10.00	100,56
HT (Renume \$%)	8.00%	8.00%	8.00%	8,00%	8.00%	8.00%	8.00%	8.00%	4.00%	8.00%	8.00%	4.00%	8.00%	8.00%
if.	14.46%	25.16%	23,72%	6.80%	33.08%	28.32%	37.30%	15.35%	1.77%	29.34%	44.11%	2130%	30.81%	25,195
HTALT	19.49%	26.51%	29.82%	13.38%	22.89%	20.81%	38.06%	20.24%	9.30%	28.66%	41.67%	25.62%	38.43%	27,795
OVERALL (%)	13.40%	26.91%	26.62%	13.38%	33.89%	3041%	36.06%	20.24%	8.30%	18.60%	41.01%	25 82%	38.43%	27.785
Billing Efficiency (%)	10.40 %			37.00 4	10.01.4	20.01.0	201.00.1	20.24%	1200	20.00.0	41414	22.00	20.474	87.785
HT.	10.00%	80.00%	82.00%	90 00%	92.00%	90.00%	90.00%	90.00%	92.00%	92.00%	90.00%	80.00%	90.00%	44.000
17	85.36%	78.28%	76.28%	95.11%	86.30%	TLARS.	62 70%	84.69%	00.29%	73.66%	55.89%	76.00%	60.19%	82.00%
HTALT	80.81%	73 00%	73.38%	86.62%	66.17%	69.39%	61.94%	79.79%	90,65%	71.34%	58.39%	74.08%	61.57%	74.815
OVERALL (%)	99.51%	73,00%	73.36%	MARK	68.11%	69.38%	81.94%	79.79%	90,65%	71.34%		december 2011 12 and	description of the second	72.225
BILLING TO CONSUMERS (Fig. in-Crs.)	100.35%	72,000	(3.36%	86.62%	98.11%	48.38%	61.96%	79.79%	90.00%	71.04%	58.39%	74.08%	61.57%	73.23%
ENT	0.00	6.60	6.00	0.00	9.00	9.00	0.00	0.00	0.00	0.00	2.00			-
HT.	79.58	1.74	1.91	1.84	1.85	1.00	1.50	1.37	1.11		0.00	0.08	0.05	8.00
LT	98.39	6.00	6.63	7.83	5.90	6.0A	6.34		-	1.0	1,37	1.55	1.72	18.61
total	BEAT	8.39	8.80	9.47			Amino Ti Christiania	6.36	4.89	3.91	3.33	3.80	4.17	45.33
1X175	Secretary Continues to				7.74	TAF	6.85	7,72	8.00	5.04	4.70	5,48	5.87	83.94
Billing to Govt Sept. & PSU	10.25	8.40	0.90	0.49	0.47	0.43	0.48	0.43	0.40	0.38	0.37	0.45	0.41	8.24
COLLECTION RECEIVED (Rs. in Crs.)	2.00		2.44		100				-					
eri eri	0.00	1.00	0.00	0.00	0.06	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LY	19.21	1.08	1.75	1.84	1.01	1.71	1.17	1,45	1.34	1.19	1.07	1.26	1.83	18.25
	56,45	3.33	4.51	6.42	6.47	8.16	8.91	6.11	5.32	5.22	4.42	5.18	13.84	74,12
TOTAL	T1.66	8.11	6.38	8.26	6.29	7.87	8.48	7.36	6.60	6.26	5.49	6.41	15.69	92.38
Collection from Govt Dept. & PSU	7.00	0.34	0.22	0.21	8.31	0.30	0.42	0.36	0.36	0.28	9.16	0.26	2.31	3.43
COLLECTION (PM) Re.	3.40	2.21	2.80	571	3.66	3.66	3.90	4.06	4.97	5.30	4.48	4.83	8.13	4.19
COLLECTION EFFICIENCY (NJ		-		-		-						100000		0.0075
Det	MONYIEL	#Orver	KONYER	RON/ID	MON/O	KONO	MON/IOI	#DIVID	MONNO	MEN/101	#D/V/08	#ONTE	ROYID	#Q0VIII)
H	21.79%	90.70%	91.80%	100.01%	100.08%	107,91%	104.60%	105.64%	115,74%	101,77%	79.17%	81.08%	107.67%	98.00%
LT	82.29%	63.12%	65.38%	81.90%	109.77%	101,22%	129.22%	99.34%	208-63%		100.73%	131,13%	331.88%	113,401
HT & LT	84.13%	60.90%	71.10%	85.37%	107,58%	100.61%	1373.62%	87.91%	1110,6214		116.84%	110 98%	266.81%	110.071
OVERALL(%)	84.13%	60.90%	71.10%	85.57%	107,50%	1002.61%	323.82%	87.81%	1990	125.32%	MIE 84%	1 no senu	250.51%	918.07
Collection efficiency and: Gort & PSU dues No.	86.20%	\$1.00%	72.60%	87.81%	110.25%	104.63%	08385	10.62%	12/	131 3393	Vistor	.121.87%	245.67%	110.491
et e c rossien	20.000	200 4500	100 100	20.000	200.000	W. 100	700000	10.000	100		M5.	-		
17	29,20%	39.49%	80.12%	23.71%	26.01%	27,45%	16.67%	18.53%	17750	W. (17.)	1823	0.28%	49.75%	15.10%
HT & LT	32.26%	35.49%	47.82%	26.00%	28 65%	28.80%	23.30%	21.91%	100	2751% /	Nech.	13.30%	44.33%	20.51%
OVERALL(%)	32.26%	55.49%	47 82%	26.96%	26.93%	28.80%	23.30%	21.91%	0.2713	OK OF	-35 USA	13.50%	-64.33%	20.51%

PERIOD OF REVIEW - MPR 20 TO WIRE 20							10000000	20,457						
NAME OF THE OWNSON						100000	BRIED, BHAD	WENCH SHAPE						
PARTICIAARS	2021-22 Morte Mari	April 2	May 33	Jun 23	AAD	Aug-33	Sep-22	0+15	Nov-22	Dec-22	Ae+43	Fee-23	Mar-33	Total
BULK SUPPLY	-				7.000						49,54			-
Domand (MVA)														
Energy Input (MJ):	477.349	54.845	16.624	61.676	50.806	81,744	66.007	59.817	46.222	45.047	45.954	45.291	53.548	612.482
HET Bill of ORLDCO (Rs. In: Crs.)	166.12	19.16	20.50	22.86	17.73	21,88	22.88	22.88	75.14	15.72	10:04	19.80	10.51	227,716
BST BW (PVA)		3.49	3.49	1.49	3.49	3.49	3.49	3.49	3.49	3.49	3.48	3.49	3.49	
SALE TO CONSUMERS (MU)														
THE	122,966	16.721	19 652	26.586	GAD1	26.284	27.542	26.765	23.689	29.794	25.341	23.600	26-219	279,519
HT	25.379	2.430	2.867	3.297	2.669	2,338	2.373	1.986	1.195	0.813	1.562	1,759	2.299	21.560
l, f	213.300	17.574	21.400	23.408	19.300	23.529	12.809	21.172	19.741	11.862	12.288	12.078	17,944	211,791
TOTAL SALE (WU)	267.623	36.325	41.548	13.292	24.498	51.545	43.816	49.893	41.629	38.119	38.317	17.362	45.450	515,909
T & D LOSS (No.												-		
HT (Assume ETA)	8.00%	6.00%	8-00%	6.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	1.00%	1.00%	8.80%
LT	29.99%	47.30%	29.32%	28.74%	40.68%	24.81%	59.74%	25,59%	14.30%	20.79%	19.19%	33.76%	23 03%	33.50%
HT & LT	33.79%	48.58%	32.87%	37.03%	42.00%	29.07%	69.18%	30.00%	33.46%	34.87%	32.60%	36.40%	27.20%	39,55%
OVERALL (N)	25.68%	30.77%	21.89%	19.10%	32.18%	47.17%	34,11%	10.00%	9 87%	14.94%	14.60%	17.42%	14.32%	20.80%
Billing Efficiency (No	-		-			-				1	-			
HT	82.00%	47.0076	10.00%	10.00%	400.00%	82.00%	82.00%	92.00%	82.00%	92.00%	92.00%	92.00%	32.00%	82.00%
LT	79.00%	12.61%	70.68%	71.26%	10.32%	75.30%	40.36%	26.41%	85.65%	60.21%	75.72%	88.24%	76.87%	64.30%
HTELT	66.22%	11.42%	8T.13%	BT BT%	87.41%	70.80%	40.87%	60.97%	79.50%	65.13%	67,37%	63.60%	P2 P1%	83.47%
OVERALL (%)	T4.90%	44,73%	78.11%	80.30%	67.62%	41.40%	85.89%	80.41%	90.00%	85.00%	85.34%	82.18%	81.88%	28.67%
BILLING TO CONSUMERS (No. In Crs.)										-				1991.4
EHT	80.85	10.71	17.31	19.06	8.14	15.04	15.56	15.10	15.00	15.02	14.79	14.06	14.44	164.12
rift.	15.00	1.58	1.27	211	1.60	1.56	1.60	1.35	0.99	18.0	1.23	1.26	1.53	17.68
LT	100.07	9.29	12.14	12.31	10.42	12.06	7.24	11.00	AAT	7.00	6.26	8.80	4.27	113,29
TOTAL.	209.40	21.95	26.03	29.68	20.38	28.64	24.42	27.48	25.54	12.46	22.44	E1.80	21.24	295.00
Billing to Gout Days, & PRU	10.00	8.76	0.40	0.01	0.00	0.76	5.65	0.62	0.60	0.84	0.79	0.77	8.77	8.58
COLLECTION RECEIVED (No. In Crs.)	1000	-10		- 100	2.77	-505	7.40		1000	0.00	9.08	4-17	411	9.98
ENT	82.00	9.09	10.64	12.80	10.00	8.19	14.95	75.59	15.10	11.96	14.84	14.85	14.06	198.71
eff	11.71	1.16	1.54	1.62	3.03	1.74	1.78	1.56	1.29	1.04	0.85	134	3.10	17.67
T.	81.57	1.84	2.22	9.33	9.72	8.04	96.76	9.41	9.27	8.80	7.64	9.41	26.29	121.63
MATOR	100.29	16.48	26.91	23.47	24.66	18.36	27.46	26.67	25.66	23.83	22.72	28.51	41.81	297.40
Collection from Gov. (Nam. & PSI.)	10.62	0.18	0.41	1.01	0.79	0.67	1.00	0.80	1.62	0.86	0.62	0.49	2.01	
COLLECTION (PRI) Rs.	3.87	3.01	3.60	3.56	8.78	2.97	4.75	4.44	5.55	5.29	4.54	5.41	7.60	9.73
COLLECTION EFFICIENCY (NO									2.00			3.41	1.44	4.04
ENT.	97.86%	84.82%	86.84%	BLBPS.	THE SOL	54.54%	55.50%	100.27%	107.99%	80.14%	700 F3%	105.86%	97.39%	96.76%
HT	100.12%	100.12%	87 18%	86.17%	110.61%	109.88%	111.00%	515.35%	121.09%	120.25%	71.36%	96.37%	76.27%	29.94%
1	80.30%	62.80%	44.52%	79.79%	93.36%	49.30%	148.61%	85.30%	100.30%	125.80%	101 80%	127.64%	202.00%	-
MALT	PLAFE	88.20%	88.87%	27.28%	85.82%	74.61%	141.80%	88.66%	106.04%	125 29%	87.22%	122.76%	254.12%	106.90%
OVERALL(S)	ed byts.	79.50%	76.30%	79.00%	131.40%	68.10%	112 80%	96.60%	107,18%	104 17%	10.47%	111.80%	164.47%	100.00%
				10000			and the same of		100000000000000000000000000000000000000	MARCH CONTRACTOR	-	and the second		
Court & PROJECTOR TO THE PARTY AND ADDRESS OF	Javant	78.19%	77.30%	78.34%	133.28%	64.16%	311,97%	36.66%	106.57%	104.28%	100.11%	112.66%	161.62%	100.79%
AT A C LOSSING	13													
T	PION.	00.89%	34.78%	46.01%	44.82%	47.34%	40,18%	36.40%	11.53%	12.00%	27.00%	15.58%	-117.90%	28.96%
TALT CONTENT	ANTA.	64.89%	15.66%	47.47%	64.80%	41.08%	42 12%	37.86%	15.60%	18.44%	34.56%	21.02%	-64.78%	32.74%
OVERALL(%)	A 100 h	49.33%	40.40%	30.61%	10.82%	46.90%	26.86%	19.30%	3.50%	11.30%	15.10%	7.68%	40.02%	26.29%



PERIOD OF REVIEW - NPS-23 TO MAR-23														
NAME OF THE DIVISION	10000						\$160, WAS	DRAK BOUTH				100000000000000000000000000000000000000		
PHRTCULARS	Aur to Mart	Apr-EE	May-22	Aut-DI	A4-01	Aug-82	Sep-83	04-11	Nor-22	Dec 62	Jen (3)	fve-23	No-Si	Total
BULK SUPPLY													-	-
Demand MVA)														
Energy input (MJ)	188-800	18.046	17.499	19.010	11T,401	16.639	16.974	14.490	8.600	8,779	9.292	3.421	11.906	168.521
BIST BIR of GRIDCO (Rs. or Crs.)	18.67	5.29	0.11	8.29	6.07	5.88	5.92	0.06	2.46	2.06	123	3.29	4.18	58.615
957 Bit (F15)		1.49	3.49	3.49	1.60	3.69	3.49	2.49	3.49	3.49	1.49	3,49	5.49	
SALE TO CONSUMERS (MU)		17.2117		-		-	-					-	-	
EHT	0.387	3.015	0.002	0.257	0.221	0.143	0.018	0.183	0.077	0.003	0.001	0.002	0.064	1.047
HT	3.680	2.436	0.413	0.361	0.378	0.296	0.265	0.181	6.179	-0.153	9.307	0.275	0.967	3.531
LT .	104.842	11.564	10.302	12.318	16 132	11.124	5.260	90.009	7.645	3,696	5,039	5.316	9.000	191.052
YOTAL SALE (MIX)	110.529	12.315	10.767	12.510	18,791	11.565	5.543	10.384	7.761	2.191	5.468	5.393	9.471	195.666
7 & 0 L089 (%)	110000	-	1000	-	100.0	-		-	7,144				0.411	100,000
HT (hasane 8%)	8.00%	8.00%	8.00%	# 00%	8.00%	8.00%	8.00%	8.00%	8.00%	1.00%	1.00%	8.00%	4.00%	8.00%
7	29.27%	26.42%	34.08%	22.90%	34.36%	36.16%	65.70%	22.64%	13.56%	61.66%	26.86%	28.71%	16.37%	10.86%
HT & LY	34.01%	31.87%	38.62%	29.60%	39.89%	31.60%	87.42%	29.70%	22.39%	83.87%	40.97%	40.70%	20.73%	17,5479
OVERALL (NJ)	24.21%	21.84%	28.46%	28.19%	38.33%	31.32%	87.56%	28.34%	22.21%	6140%	40.90%	40.70%	20.09%	27.30%
Billing Efficiency (%)			-	20.100		2000	- N. S. S.	-	100.00	41313		40.75%	20,38%	41.34%
HT	40.00%	67.00%	W2.00%	82.50%	42.50%	60.00%	W2.00%	92.00%	10.00%	92.00%	80.00%	92.00%	92.00%	92.00%
Ÿ.	79,73%	73.54%	65,94%	FT 10%	49.40%	72.04%	34.30%	27.19%	84.55%	28.32%	63.16%	63.29%	85.60%	67,14%
HT B LT	40.72%	88.32%	81.47%	71.40%	61.10%	88.42%	32.00%	71.30%	77.81%	36.32%	68.07%	49.30%	79,17%	
OVERALL (%)	68.79%	68.30%	81.34%	71.81%	61.87%	48.67%	12.66%	71.66%	77.79%	06.00%	American Contraction of the Cont			62.46%
BILLING TO CONSUMERS (Rs. in Crs.)	44.75%		61.044	31,41%	01274	18.57%	0.00	71.66%	11,79%	26.00%	58.04%	19.20%	79.47%	62.70%
ENT.	9.42	8.01	0.00	0.31	9.16	0.11	0.00	0.15	0.08	0.00			0.07	-
HT	2.46	0.31	0.33	0.21	8.31	0.35	0.00	0.10	0.00	0.16	0.00	0.00		0.89
LT.	91.45	1.42	5.13	6.53	107	540					0.23	0.25	0.30	3.14
TOTAL	54.10					Brain Control	5.65	4.90	3.90	236	2.74	2.88	4.48	51.15
LACIST THE AND ADDRESS OF THE PARTY OF THE P		1.00	5,49	6.53	5.81	5.89	5.00	1.24	4.06	2.88	2.89	3.14	4.86	55.13
Billing to Govt Dept. & PSU	4,43	1.29	0.31	6.36	8.28	0.39	0.28	2.29	0.27	9.37	0.26	0.29	0.27	3.40
COLLECTION RECEIVED (Rs. in Crs.)		-		-		-	-	-	-	-				
THE	0.30	1.02	9.04	0.06	0.18	0.18	0.11	0.00	0.15	0.08	0.00	0.30	0.00	9.80
HT	2.35	0.30	0.38	6.36	0.21	0.21	0.26	0.23	0.18	0.19	0.96	0.18	0.24	2.08
LI	46.89	3.17	3.75	4.11	4.38	4.18	4.96	4.96	4.30	4.64	3.86	4.13	18.78	65.33
nonal,	49.54	2.91	4.12	4.10	4.85	4.67	5.36	5.21	4.72	4.89	4.62	4.32	19.82	69.21
Collection from Govil Dept. & PSU	3.96	0.13	0.13	9.23	0.44	0.35	0.36	0.38	6.31	0.25	0.23	0.09	1.23	2.94
COLLECTION (PRI): Ro.	2.54	1.96	2.36	2.51	279	277	3.15	3.58	6.77	3.57	4.34	4.80	15.90	4.11
COLLECTION EFFICIENCY (No	-	100.00	15 000					-	-	- source state				
EMT HT	71.18%	119.57%	49.79%	26.86%	102.68%	157.79%	741.68%	11.00%	141.32%	2006.21%	175.00%	100.23%	1,58%	94,15%
HT	95.63%	91.87%	108.30%	120.88AL	101.01%	121.38%	108.01%	118.19%	90.75%	101.08%	61.30%	70.89%	78.24%	98.16%
N. P. Carrier and M.	91.10%	57.30%	13.08%	44.19%	86.79%	77.00%	579,39%	101,23%	115.41%	198.42%	138.79%	144.18%	410.90%	127.72%
HIALT OTAK	And the second	59.54%	75,22%	70.83%	67.57%	78.96%	170.88%	121.87%	114,19%	189.50%	134.00%	198.32%	397.39%	128.01%
OVERALL(%)	5, 45.18%	28.08%	75.00%	89.23%	88.07%	80.57%	173.76%	89.30%	116.08%	191 66%	134.12%	198,03%	281.65%	123.12%
Contract of Contra	93,155	60.67%	16.54%	88.94%	84.68%	90.3F%	118.29%	8151#	11836%	303.27%	137.96%	149,21%	367.67%	126.18%
AT & C LOSSING - 1 M	Control	20.00		47.49		4414	-		-	44.60	41.44	7.000	-	- 1
erratif 12 meets		57.80%	\$1,81%	47.42%	43.05%	43.14%	29.49%	21.80%	3.00%	36.76%	11.79%	8.76%	-259.04%	14.24%
		59.32%	13.79%	49.37%	46.45%	45.99%	44.32%	27.36%	11.40%	31.16%	20.86%	18.04%	-215-21%	21.39%
OVERALL(%)	,4939%	18.21%	10.79%	50.29%	40.80%	44.72%	43.20%	26.84%	4.70%	30.54%-	.00.40%	15.00%	-271.00%	21.36%

MERCOD OF MENERS - MARYOLD AD MYST FO								I and a second						
MAKE OF THE DWISION							8750, 9	ARPHDA						
PRATICULARS	(Apr to War)	Apr-01	May-22	Jun-11	2441	Aug III	Sup-21	04.0	Rev 03.	Dec-22	Jand3	Pet-33	Mar-23	Total
BULK SUPPLY	200													
Demand (MVA)														
Energy input (MU)	356.291	36.550	33.726	32.459	30,032	31.274	31.879	27.815	21,586	21.587	22.939	22.647	28.062	348.17
RET BIE of GRODGO (Rs. in Crs.)	114.94	12.76	11.57	11.33	11.18	10.91	11.06	9.71	7.53	7.55	8.01	7.63	8.10	118.79
BST BH (PA)		3.49	3.49	3.49	3.49	3.49	2.49	3.49	3.40	3.49	3.49	3.49	3,49	
SALE TO CONSUMERS (WILL)	200					100	77.5	1000	1000	55/23	1137	111111111111111111111111111111111111111		
Del	0.019	0.000	2.000	9.000	0.000	0.000	0.000	9.000	0.000	0.000	9.000	5.000	0.000	0.006
HE .	13,540	2.348	2.311	2.179	2.001	2.000	1.882	1,801	1.794	2.059	2.145	2.309	2.379	25,166
LT	237,126	22,355	21,102	23.881	17.628	34.400	19.346	20.815	18.467	12.905	15.124	13.046	16 506	229.53
TOTAL SALE (MU)	296.662	24,000	23.413	28.076	19,719	26,466	18.248	22.418	29.251	14,994	17,269	18,155	19,605	348.883
T & D LOSS (N.)	100000	00000	77777						-	-		100		
nY (Assume 8%)	8.89%	6.00%	8.00%	1.00%	8.00%	8.00%	8.00%	8.00%	8.00%	4.00%	8.00%	8.00%	8.00%	8.00%
LT.	16.60%	28.85%	28.82%	13.68%	35,61%	8.61%	39.80%	13.34%	-2.20%	27.39%	28.23%	24.58%	23.04%	22.40%
HT & LT	22.29%	32.60%	30.88%	1846%	38.44%	15.37%	42.30%	19.41%	6.10%	20.59%	24.72%	28.02%	27.59%	26.95%
OVERALL (No.	22.29%	32.60%	30.58%	19.60%	33.44%	15.37%	42.33%	19.41%	£ 10%	30.59%	24.72%	28.03%	27.59%	28,99%
Billing Efficiency (No.	100000		1000		1000	110000	1000	1000	111111111111111111111111111111111111111	100	-		-	
MT	92.00%	BZ-00%	80.50%	92.00%	92.00%	92.00%	82.00%	92.50%	93.00%	90.00%	60.00%	82.00%	92.00%	92.00%
. 1	65.40%	71.15%	73.48%	66.32%	64.38%	81.38%	80.10%	88.80%	100 20%	12.61%	79.77%	75.62%	78.26%	27.60%
HTALT	27.71%	67.31%	88.67%	80.36%	41.00%	84.67%	BT EPS.	80.59%	90.84%	66.41%	15,18%	21.87%	22.41%	73.65%
OVERALL I'W I	27,71%	67.31%	69.47%	88.34%	41.36%	84.62%	ATAPS.	80.59%	93.84%	88.67%	75.28%	71.97%	72.47%	73.65%
BILLING TO CONSUMERS (No. In Cro.)		-	-		-	-		-	- Artistantin				12.214	
DHT	9.50	8.00	0.00	0.00	6.50	6.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
The	15.71	1.04	1.64	1.07	1.51	1.65	1.37	1.10	1.36	+ 52	1.60	1.62	1.70	18.35
LT	118.12	11.87	11.56	12.78	9.85	12.81	1.00	11.01	9.90	7.58	8.27	7.63	9.00	121.25
TOTAL	135.94	12.51	13.29	16.27	11.36	14.36	10.34	12.33	11.26	9.13	9.87	9.30	10.69	
litting to Gov! Dept. 4 PSU	18.60	1.66	1.66	1.63	1.61	1.64	1.64	1.60	1.51	1.54	1.44	1.24	1.26	128.39
COLLECTION RECEIVED (Rs. in Crs.)	18.00	1-4	1.00	1.00	1.01	1.01	184	1.64	1.41	1.04	1.46	1.24	1.25	18,15
EHT	8.00	8.06	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	
H	19.24	1.18	1.00	1.87	1.40	1.66	1.82	1.36	1.22	1.33	1.64	141		6.00
LE	97.89	7.28	8.97	10.02	19.48	5.87	11.66	11.04	9.58	9.50	8.24	9.09	1.70	10.01
TOTAL	104.04	8.44	18.57	11.74	11.90	19.30	12.00	12.40	10.00	11,27	2.66	10.79	24.08	127.62
Collection from Govr Dept. & PSCI	18.61	0.79	0.92	1.11	1.25	0.90	2.12	1.88	1.16	1.06				145.64
COLLECTION (PN) Rs.	3.46	2.91	3.12	3.62	3.72	3.31	4.28	4.46	9.01	6.22	1.28	4.77	5.12	19.50
COLLECTION EFFICIENCY (NA	2.44	4.81	2.12	2.44	8.04	2.41	3.00	3.40	. 9.41	5.82	4.01	4.17	9.20	4.28
DHT	#DIVIDE	4ENVIOL	#DIVID	#DIVID	#DWB:	#DIVIDE	#DIVIDE	ACIVID!	#DIVIN	#DIVID	4000000	-		
HT	194,90%	70.76%	97,74%	108.62%	94.77%	902.12%	132.14%	102 46%	80.65%		#DIVID	#DIVID	#DW0	RDIVAN
	82.04%	81.31%	17.88%	79.28%	106.61%	68.79%	130,30%	100,30%	90.07%	84.72%	102.76%	60,56%	99.90%	98.19%
HALT ANRY	84.60%	42 46%	60.065	82.28%	105.00%	B-0700000000000000000000000000000000000	130.37%			131.40%	99.35%	118.44%	248,75%	185.36%
	94.60%	62.40%	80.00%		Andrew Control	72.10%		100.53%	95.96%	123.41%	100-07%	115 19%	225.15%	104.33%
			-	82.38%	100.0614	12,10%	138.57%	100 63%	85.94%	GLHS.	100.07%	115.10%	129.10%	104.33%
Good & PSE days 1	Vrien a la	84.30%	81.62%	84.07%	108.46%	11.12%	136.83%	16.13%	86.69%	OURS	102.00%	120.82%	200 89%	104.69%
AT & C LOSSING AT & CT	1401	56.38%	43.07%	31.57%	31.33%	37.19%	21.66%	13.08%	1.00%	4.98%	20.69%	10.42%	-89.95%	18.32%
HT ALT	/507/5	57.96%	44.42%	33.00%	36.32%	38.90%	24.70%	18.98%	9.57%	14.36%	26.67%	17.12%	43.02%	23,79%
OVERALLIST 12	18/16	57.90%	44.42%	33.00%	35,32%	28.90%	24.70%	16.98%	6.87%	14.34%	24.67%	17.12%	43.07%	23.79%



PERCO OF REVIEW - MPR-23 TO MAR-13	_		_	-	_		-				1			
NAME OF THE DIVISION	801.00						140.	UDALA						
PARTICULARS	Plants Wart	Apr-32	May-21	Jun 22	24.33	Aspit	Sep-22	041-02	Revitt	Decili	an-D	Feb-20	Medi	Treat
BULK SUPPLY			-		-	-		1		-		-	-	
Denard (MVA)														
Energy input (MA)	100,170	10,152	10.175	9.589	9.307	9.404	9.665	8.300	0.790	9.647	6.933	7.046	7.885	191.81
957 Bit of GREDCD (Pis. in Crs.)	24.86	2.84	3.86	3.34	3.29	3.26	3.35	2.90	2.30	2.32	2.42	2.46	275	28.830
967 90 (PA))		3.49	3.49	3.49	3.49	3.49	2.49	3.49	3.45	3.49	3.49	1.49	3.49	20.00
SALE TO CONSUMERS (MU)			-	-	-	-		-	-		-	-		_
EHT .	8.000	8.000	9-000	6,000	0.000	0.000	0.000	4 000	0.500	0.000	0.000	0.000	0.000	0.000
er .	6.230	0.053	0.091	0.062	0.041	0.044	0.013	6013	0.015	0.041	0.165	6.213	0.255	4.976
LF	62.589	7.853	6.084	10.044	6.007	0.365	3.815	7.615	6.025	3.373	5.040	1.649	7.068	
TOTAL SALE (MIII)	93,919	7,966	6,979	18,166	6,548	8.300	3.828	7,426	6.040	2,414	5,200	1.862	T.348	77.54
FA D LOSS (%)	344.76							1.466	1040	2.414	2.200	1.002	1,810	78.52
HT (Appume 87s.)	8.00%	8.00%	1.00%	1.00%	8.00%	8.00%	8.00%	1.00%	8.00%	8.00%	4.00%	8.00%	8.00%	8.005
,T	4.72%	15.44%	15.74%	-14.00%	29.51%	2.80%	87.00%	2.76%	2.49%	44.47%	18.88%	8.89%	0.62%	19.34
HT & LT	3.34%	22.12%	31.49%	-8.87%	36-02%	10.60%	80.30%	10.54%	10.25%	48.66%	24 92%	16.80%	137%	22.89
DVERALL (N/	7.34%	22.12%	31.60%	-5.67%	36.62%	10.69%	60.39%	10.54%	10.25%	45.55%	24 90%	19.80%	A Contract of the Contract of	-
Billing Efficiency (%)	-	-	-			100.00	10.00	14.514	- Page	10000	24300	19.800%	7.27%	23.68
HT .	92.00%	92.00%	82,000	80.00%	82.30%	82.00%	90.00%	90.00%	90.00%	92.00%	80.00%	92.00%	80.000	
Y	100,73%	84.56%	74.26%	114,80%	70.49%	97.07%	42.97%	97.24%	97.30%	56.50%	81.12%		92.00%	82.801
FT & LT	92.66%	77 86%	68.50%	100.61%	64.86%	88.37%	38.67%	88.46%	89.75%	11.30%		90.11%	100.62%	83.60
OVERALL (%)	12.00%	77.88%	88.00%	101.61%	64.90%	89,34%	39.61%	49.46%	88.70%		75.08%	83.20%	92.75%	77.121
BILLING TO CONSUMERS (Re. in Crs.)	10.000	11,465		100.01%	04.004	86.85%	20,01%	39.46%	88.79%	11.30%	75.08%	63.20%	82,77%	77,129
BHT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.14				-	
ď	9.26	0.00	0.08	0.00	0.05	6.00	0.52		0.00	0.00	0.00	9.00	0.00	9.49
Y	45.64	3.82	3.62	4.80	3.22	4.33	216	0.07	0.03	8.94	0.13	0.16	0.19	0.85
TOTAL.	45.90	3.87	3,79	4.81				3.80	3.06	2.40	2.84	2.95	3.31	40.48
Bling to Govt Dept. & PSU	3.45	0.42	0.44		0.40	4.39	2.19	30.02	3.68	2.44	2.88	3.11	3.50	41.33
COLLECTION RECEIVED (Rs. in Crs.)	0.40	0.44	5.44	0.46	9.40	5.64	0.40	0.47	0.38	8.37	0.37	0.37	2.41	4.80
INC.	0.00	5.00	0.00		-		100	-		- 30.7	22.2	100		- 300
eff				0.00	0.00	0.00	0.00	6.86	0.00	1.00	9.80	0.00	3.00	0.86
1	11.40	1.04 1.34	246	0.08	0.00	0.04	0.02	6.83	0.02	0.03	0.04	0.13	0.16	0.06
TOTAL .	21.81	1.00	3.71		3.18	2.85	4.63	3.95	3.00	3.68	2.28	2.78	110,000	44.54
Cellection from Govt Dept. & FSU				1.02	3.21	2.86	4.45	3.56	3.66	3.71	2.59	2.92	11.00	45.50
COLLECTION (PAD Rs.	4.19	624	0.21	0.20	0.41	0.22	0.74	0.46	0.26	9.36	0.24	0.08	2.02	5.44
COLLECTION SPRICENCY (%)	2,18	2.54	2.66	3.16	3.44	3.08	4.60	4.26	4.52	5.58	2.14	4.15	14.00	4.67
INT	#DAYE	-	-	_			-							
et .		MOTHO?	-RONGE	KOVO.	#DOVE:	#DIVID	#DVID:	ROUGE.	RONO	#DIVIDE	MONNING.	80N/01	#DIVIDE:	#Ores
Y Commence	118.38%	21.04%	14.80%	138.41%	125 84%	196.24%	. 69.P1%	70.19%	74.37%	65.56%	29.55%	80.00%	81.94%	78.873
TAN	-08.H%	59-82%	73.61%	80.52%	\$7.57%	65.93%	204.67%	93.24%	98.86%	153:30%	89.78%	94.66%	329.52%	110.77
	68.29%	09-80%	75.12%	81,41%	87.88%	68.57%	303-50%	93.15%	98.64%	331,8954	87.GF%	80.89%	314.92%	170.101
WERALIST AND	01.79%	59.86%	73.12%	8131%	11.80%	66.67%	293.50%	93.15%	98.64%	151.80%	87 67%	80.89%	514.82%	. 110.101
See A PRO COMPANY AND ADDRESS OF THE PARTY AND	A1315	60.04%	76.38%	83.30%	87.29%	88.47%	209.76%	92.49%	100.31%	181.40%	16 05%	100.87%	291.88%	110.00
IT & CLOSEDLY .	5.0	-	-				-		171111111					
TACIOSANI CONTRACTOR	5/2	49.58%	45.41%	30.49%	31.22%	36.00%	15 104*	9.34%	3.57%	14.84%	27.17%	14.70%	-231.22%	7.34%
	D 00000	53.36%	41.00%	35.19%	36.38%	40.85%	19.42%	18 67%	21.47%	22.01%	34.63%	21.68%	-192.00%	15.09%
WERALL(N)	COLUMN !	53.38%	49.08%	39.19%	36.39%	40.55%	19.40%	16.67%	11.47%	22.01%	34.63%	21.88%	-192 AVS.	15.099

PERIOR OF REVIEW - APR-25 TO MAIN-25														
MANE OF THE DIVISION							ARC, NA	MANGPUR						
PARTICULARS	JHITH-20 (Apr to Mar)	Apr-23	May 22	Amili	24-62	Aug-22	Sep-11	doubt	Nov-82	Dec-22	An-El	Feb-23	No-23	Total
BULK SUPPLY														
Demané (MA)														
Energy input (ML)	227,591	23.000	21.987	21.149	20.862	20.963	21.639	18.212	16,640	17.385	17.361	15.475	10.088	221,519
MST SIE of GPHOCO (Ris. In Cris.)	82.67	4.05	7.67	1.38	7.26	7.18	7.55	8.70	5.88	6.06	8.04	5.60	5.61	89.867
ast se (no)		1.49	3.49	3.49	3.49	3.49	3.48	3.45	3.48	3.49	3.49	3.49	3.48	-
SALE TO CONSUMERS (MU)	7.55	-			-	-		-		-				
THE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000
ert .	11,794	1,302	1.434	1.523	1,356	1.106	1.134	1.066	1.070	1.296	1.485	1.480	1.687	15,797
LT	190,019	14,500	11.063	13.610	15.394	16.736	14.222	16,366	13.950	+1.003	11.158	12.194	10.968	136.676
TOTAL SALE (MA)	191.725	16.262	12,497	14.990	11,750	17.843	13,350	17,450	15.829	12.298	12.843	13.674		
T & D LOSS CH	141.730	14.243	13.491	14.240	11.728	17,842	19.306	17.402	10.020	16.498	12.883	15,674	12.665	172.443
HT (Assume 8%)	8.00%	8.00%	8.00%	8.00%	8.00%	4.00%	6.00%	4.00%	8.00%	6.00%	8.00%	8.00%	8.00W	8.000
LY	12.97%	24.97%	47.14%	24.62%	41,77%	8.04%	24.25%	1.56%	3.28%	25.00%	22.73%	6	6.00%	1.00%
HC & LT	19.29%	29.48%	43.10%	29.11%	43.68%	13,22%	29.063	8.15%	10.81%	28.13%	26.87%	4.47%	10.30%	29.57%
OVERALL (N)	19.39%	29.48%	43.18%	29.11%	42.68%	13.23%	29.04%	9.16%	10.81%	29.13%	26.87%	11.64%	21.34%	25.52%
Billing Efficiency (%)	19-20%	29.16%	14 10%	29.11-6	44444	10,00%	- 88,0434	0.00%	10,81%	28.12%	26.81%	11.64%	21.34%	25.52%
Steam of Concession (197)	82.00%	82.00%	90.00%	82.00%		20.000		20.000	W 1000	45.000		-	-	
MI	the state of the s	75.09%		4-250000000	82.00%	92.00%	#2.00%	92.00%	92.00%	82.00%	400.18	80.00%	92.00%	92.00%
HT ALT	80.71%	79.62%	56.66%	75.38% 75.69%	58.27%	83.96%	75.75%	98.66%	96.72%	75.00%	77.27%	95.59%	83:84%	79.43%
CONTROL OF THE PARTY OF THE PAR			4-0000000000	Accessor to the Contract of th	66.32%	86.77%	70.86%	90.84%	89.10%	70.87%	73:07%	88.36%	78.66%	74.48%
DVERALL(%)	99,71%	79.52%	56.64%	79.89%	56.32%	86.77%	70.96%	80.64%	88.10%	70.87%	73.00%	85.36%	78.66%	74.48%
BILLING TO CONSUMERS (Rs. in Crs.)	4.00			7.11	70-	-	-	_						
D+T	6.00	6.80	0.00	0.00	0.00	0.00	5.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00
HT.	7.86	0.88	0.98	0.87	0.00	0.79	0.81	0.77	6.77	0.89	1.02	1.07	1.20	19.99
IT.	89.82	7.66	6.06	7.12	3.63	8.90	7.22	8.13	6.92	6.05	6.21	6.45	5.53	85.46
TOTAL	96.88	8.00	1,04	7.89	6.13	9.28	8.43	8.90	7.69	6.35	7.24	7.52	6.74	92.39
Billing to Gout Dept. & PSU	14.19	Ud	1.20	1.34	1.00	1.08	5.22	1.39	1.00	1.06	1.07	1.39	1.28	14.11
COLLECTION RECEIVED (Rs. in Crs.)			15.77	1000		1000								
EHT.	4.00	0.00	0.00	0.00	9.00	0.00	6,00	0.00	9.00	0.00	0.00	0.00	0.00	0.00
HT.	8.58	0.57	0.76	0.99	2.01	0.80	0.79	0.84	0.77	8.71	0.92	0.96	1,10	10.00
T.	46.82	142	4.81	5.69	8.62	4.99	9.45	7.10	7.01	7.34	5.62	6.06	21.06	81.43
TOTAL	49.50	4.19	1.63	9.68	8.43	5.81	9.94	7.84	7.78	8.65	6.54	7.04	22.18	9T.52
Codection from Govt Dept. & PSU	11.50	643	0.57	0.84	9.99	6,31	2.00	1.24	1.20	0.89	0.70	0.22	5.07	14.43
COLLECTION (PVI) Re.	2.50	1.82	2.56	3.16	3.06	2.83	4.48	6.13	4.82	4.64	3.79	4.55	13.79	4.21
COLLECTION EFFICIENCY (%)											5.710	. 1766		
EHT	HOWITH	4DAIN	801VB	#D/V9	#DIVIDE	KONYO	#CIVIDE	MON/E	ACKNO.	KOVO	MONNON	#01/09	#DIVID:	FORMIN
нт	109.19%	66.43%	19.63%	113.87%	90.00%	105.18%	97,48%	109.50%	95.82%	79-52%	89.99%	31.41%	91.56%	82.25%
1	48.43%	AT ADAL	80.00%	79.96%	55.52%	53.00%	122.63%	87.35%	101,26%	121.36%	80.50%	93.34%	360.58%	181,10%
HTALT TARL	71.74%	49.32%	79.95%	63.65%	98.69%	58.32%	120 08%	89.25%	101.12%	115.80%	90.43%	93.58%	329.24%	100.50%
OVERALL(%)	70.74%	49.32%	79.95%	83.85%	16.6%	58.32%	120 08%	89.25%	101.10%	115.82%	90.43%	33.56%	329.24%	100.00%
Collection efficients	*70.00%	\$1,04%	86.67%	87,92%	98.54%	82.07%	111.89%	89.27%	16.62%	122.25%	14.84%	111.28%	308.29%	106.11%
AT A C L CORPORT	-												-44.4	- APR. 1 / M
AT A C CONSTR.	1.00	54.40%	52 91%	39.77%	41.82%	49.27%	F.10%	13.82%	2.00%	8.97%	30.07%	10.51%	-218.63%	
HEALT IN MACELIAN COM	意识	60,22%	54.00%	40,72%	44.52%	69.40%	14.79%	18.82%	9.81%	17.88%	30.00%	12.31%	A CONTRACTOR OF THE PARTY OF TH	54,79%
							100000				20.707	47.2776	-108.90%	21.38%



MERIOD OF REVIEW - APR-41 TO MAR-41		-	-	-	-		- March 11	PUR ROAD	-	-			1	
NAME OF THE DIVISION	2011-20	_	_	_	_	_	profession and the same	-	_	_	_	_		
PARTICULARS	(Aprile War)	Apr-22	May 22	Jun 22	AA432	Aug-20	Sep-22	On-22	Nev-82	Dec-31	dends	Feb-20	Mar-23	Total
BULK SUPPLY			-		-	-		-			-	_		
Demand (MVA)	-50-00	2000	-77-60	2007/10/10	5.000	30000	100000		0.000	100000000	100000	15010000		200
Energy input (MU)	1286.052	115.052	115.636	137,494	135,616	134.562	136-009	158,375	108.659	190,275	143.068	136.002	104.875	9683.93
BST Bill of DREDCO (Rs. in Crs.):	449.24	39.46	29.88	41.99	47.40	40.50	48.19	56.27	88.37	52.40	49.33	47,48	57.54	187.690
DET BIE (PU)		3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	
SALE TO CONSUMERS (MI)														
EHT	911.252	75.598	77.284	104.006	100.820	102.338	107.206	132.238	136.973	129.218	120.515	114.333	176.758	1341,311
T THE	106,277	11.369	11.040	A.281	7.821	7.489	6.799	6.220	4.266	0.004	7,177	9.867	6.872	92,126
LT	112,100	15.001	12.311	19.098	13.960	16.519	13.952	15.004	14.293	0.818	6.301	10.174	12.679.	165,227
TOTAL SALE (MUI)	1192 116	102.016	101.624	121.405	127.221	126.526	127,957	153.462	185,532	142,790	136.043	131,374	139.467	1100.04
TAD LOSS (NA			100.00	100.000		-140.00	100.000	100.710	- Contract		194444	- TOTAL C	190,000	1101.00
HT (Returns 8%)	8.00%	8.00%	8.00%	8.00%	9-00%.	8.00%	8.00%	8.00%	6.00%	6.00%	6.00%	1.00%	8.00%	1,00%
LT.	20.60%	24.82%	22.79%	15.17%	27.41%	25.57%	35.38%	15.83%	7.54%	48.38%	38.47%	22 A2%	21.46%	25.80%
HT & LT	27.04%	29.48%	22.03%	16.21%	26.86%	25.56%	10.76%	18.80%	13.30%	35.57%	31.10%	21.54%	21.77%	24.77%
OVERALL (%)	T.40%	9.75%	7.00%	4.42%	6.33%	6.12%	7.30%	3.10%	1.87%	8.04%	4.91%	3.64%	3.32%	5.54%
Billing Efficiency (%)		-	1.44.14				1.44	-	10.4				20.5	204.0
eff .	10,00%	90.00%	62-00%	41.00%	N2.00%	42.00%	80.00%	82.50%	90.00%	62 00%	90.00%	82.50%	82.00%	92.00%
LT.	69.21%	65.16%	77.24%	81.52%	72.00%	74.49%	64.01%	84.17%	82.06%	11.65%	81.52%	77.58%	78.56%	74,20%
HTALT	72.96%	70.54%	77.67%	81.79%	73.54%	24.46%	67.24%	81.20%	86.80%	64.00%	68.80%	79.46%	78.13%	79.23%
OVERALL (%)	92.50%	99.24%	92.95%	99.57%	83.87%	90.69%	92.66%	96.90%	98.02%	94.96%	95.09%	00.50%	96.68%	34.96%
BILLING TO CONSUMERS (Rs. in Crs.)		*****	10-01-1	94.01.4	00010	20.40				14.30-4	41.04.4	-0.05	99.00%	- MAN
Earl	605.28	62.00	86.53	61.75	42.11	62.62	64.38	79.24	82.22	83.32	74.68	TO TO	84.50	829.17
ect .	73.73	7.90	7.67	8.79	3.39	6.21	8.15	4.43	4.40	449	4.00	4.74	4.80	65.06
LT	81.68	8.05	9.42	19.45	8.76	9.59	7.85	8.24	7.63	5.11	5.47	5.71	7.08	90.66
TOTAL	760.81	68.01	67.32	77.90	76.24	27.12	77.14	90.00	94.50	63.12	85.66	81.15	94.78	90.00
Billing to Good Dept. & PSU	26.12	4.08	A 17	3.93	2.28	1.67	1.32	1,21	122	1.25	1.17	3.94	2.81	30.01
COLLECTION RECEIVED (Rs. in On.)	80.18			9.89	2.24	1.01	1.04	141	1.44	140	1.17	2.00	241	20.00
ENT	811.25	75.38	12.83	14.23	106.30	61.76	75.80	65.22	79.47	81.87	75 M	74.12	86.88	872.48
edf	78.54	10.92	7.72	4.77	18.39	4.90	14.00	4.42	4.46	4.64	4.62	4.80	10.00	97,57
LT.	79.21	6.41	0.04	7.19	7.13	6.56	10.19	8.10	8.24	7.20	6.23	7.78	21.50	100.00
TOTAL	764.71	90.79	67.19	79.29	134.83	73.83	100.04	27.74	99.67	91.25	86.72	89,79	98.29	1079.41
Collection from Govt Dept. 8 PSU	25.63	0.49	4.00	4.57	0.97	2.04	11.11	1.25	1.67	1.34	0.85	0.00	2.86	25.02
COLLECTION (PA) Rs.	1.04	8.00	5.91	5.11	9.93	5.66	7.25	4.81	5.75	6.21	8.06	8.37	5.96	6.36
COLLECTION EPPICIENCY (NJ)			3.00	1777						- 101		0.01		
Earl	100,97%	144.60%	105.19%	67 67%	176.67%	98.21%	.117.79%	82.37%	95.68%	97.96%	107.07%	101.84%	78.77%	105,37%
ed to	105.96%	138.13%	100.58%	101.07%	343.77%	94.38%	275.37%	99.86%	100.31%	64.60%	\$4,07%	401,00%	204.96%	149.97%
IT CONTRACTOR	82,79%	84.75%	75.62%	88.87%	81,27%	75.44%	133.10%	88.21%	105,30%	140.67%	95.62%	136.26%	302.26%	108.05%
STAIT ARY	3673%	96.05%	84.02%	68.52%	100.00%	82.34%	190.14%	98.79%	103.49%	118,72%	94.88%	120.38%	284.57%	125.32%
OVERALL (1) ARY	100.11%	110.36%	99.81%	90.00%	176.84%	96.30%	129.73%	84.38%	96.68%	100.16%	101.00%	106.64%	101.56%	108.59%
Collection efficients and a file of the collection of the collecti	Acques	136.38%	100.03%	88.60%	180 90%	94.69%	017.30%	8432%	66.37%	100.06%	100 36%	111,01%	100.00%	108.29%
	6	100,000	Market Jr.	46.00	100.00	See.	STEATS.	pe sure	98.00%	100100-9	100.00%	111.01%	182.00%	108.78%
AT A C LOSSIES	4000		10.000		NA ASSE		-	1000	7.00	100	-	-	24	11000
Y	A SECTION AND ADDRESS OF THE PARTY OF THE PA	64.31%	46.83%	41.67%	41.07%	43.81%	13.31%	17.34%	3.06%	24.42%	41.10%	-6.71%	~137.4P%	19.83%
	MARKET .	32.25%	34.49%	19.60%	-32.14%	26.71%	-27.84%	19,78%	18.17%	23.89%	34.87%	8.50%	-108.88%	1.22%
OVERALL(%) CO	6. 4XT%	-20.35%	7.22%	13.94%	-86.60%	10.40%	49.22%	18.04%	6.22%	4.00%	3-06%	-3.47%	1.60%	-3.08%

PERIOD OF REVENY - APR-22 TO MAR-23														
NAME OF THE DIVISION					•		JINE JAJ	PUR TOWN	*	-	*			
PARTOLARS	Plante Mary	Apr-85	Map-22	Jun 22	24.03	Aug-25	Sep-22	Out-20	Mov-83	Dec-12	Aer-23	Feb-20	March	Tetal
BULK SUPPLY														
Demand (MVA)	7 1 177	113/5/2	- S.C. Y.	A Control	1.00							11000	10000	100
Energy input (MLI)	197,539	19.025	19.007	18.912	18.273	17.490	57.148	14.903	10.670	9.612	9.706	10,293	19.267	178.32
BST SIE of GRIDCO (Rs. In Crs.)	68.74	0.04	6.64	8.60	6.38	8.10	5.99	5.29	3.72	2.35	3.39	3.89	4.61	42.237
BET 64 (NA)		3.49	3.45	3.49	3.49	3.49	3.49	3.49	3.48	3.49	3.49	3.49	3.49	
BALE TO COMPLMENS (MU)			_		_									
Def.	0.800	8.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.000
eff.	0.838	0.074	0.079	0.081	0.079	0.085	0.096	0.079	0.089	0.096	0.100	0.105	0.136	1.000
LF.	108.908	12.422	10.827	13,758	11.554	13.519	A.952	11.755	9.961	6.562	8.860	7.00	9,260	121.63
TOTAL SALE (MU)	100.546	12.497	10.904	13.837	11,500	54.004	9.649	11.834	19.058	5.448	6,950	1,229	9.129	123.72
a pupper my			11.00	-	100	1100		111111		-				100.00
of (Assume PL)	8.00%	8.00%	8.00%	8.30%	8.00%	8.00%	8.00%	8.00%	8.00%	6.00%	8.00%	0.00%	4.10%	8,00%
LT.	39.86%	26.72%	37.90%	20.57%	31.19%	13.05%	42.91%	13,77%	-2.40%	28.81%	22.42%	23.96%	25.76%	25.365
HT & LT	44.54%	34.31%	42.77%	26.62%	38.56%	19.94%	47.23%	20.00%	0.81%	43.37%	28.39%	29.79%	29.63%	21.181
OVERALL (N)	44.50%	34.31%	42.79%	26.83%	38.56%	19.94%	47.23%	20.59%	5.81%	40.37%	29.30%	29.78%	29.82%	21.185
British Ethornop (No			-	111111	-20.00					70.04.7	30.40.0	20.00		41-44-
NE CONTRACTOR	90.00%	82.00%	90.00%	80.00%	92.00%	82.00%	80 00%	90 00%	82.00%	81 30%	90 00%	62.00%	82.00%	90.005
T.	60.14%	71.28%	82.10%	79.47%	68.87%	86.95%	67.09%	86.23%	102.40%	61.19%	77.58%	76.00%	76.24%	74.645
elf & LY	55.46%	85.60%	57.19%	75 17%	83.44%	60.06%	52.77%	79.41%	94,19%	56.68%	73.67%	70.12%	70.37%	48.825
OVERALL (%)	25.46%	65.80%	67.29%	73.17%	63.66%	80.06%	10.77%	79.47%	94.10%	56.69%	THAT'S	20.22%	70.87%	48.825
BILLING TO CONSUMERS (Rs. In Crs.)														-
D4T	8.80	9.00	0.00	6.06	0.00	0.00	9.00	0.00	8.00	0.00	0.00	0.10	0.00	0.00
w?	0.39	0.16	0.06	6.07	0.07	0.07	3.08	900	0.04	0.09	0.11	0.11	812	1,87
i.f	55.45	6.70	5.47	7.34	5.68	6.88	4.42	6.73	4.82	0.10	3.45	3.72	4.58	61.48
TOTAL	53.79	6.34	5.53	7.49	5.75	6.99	4.50	5.80	4.09	3.27	3.38	1.83	4.76	93.55
Billing to Govt Dept. 6. PSU	5.86	9.29	0.41	5.40	0.41	0.45	9.42	0.39	0.38	0.17	0.30	6.31	0.34	4.88
COLLECTION RECEIVED (Rs. in Crs.)	3777 E	7-1-7	100		357		- 2.5	-		-				
DHT	0.00	0.00	0.00	9.00	0.00	6:00	9.00	0.00	6.00	0.00	0.00	6.00	0.00	9.00
ef.	0.40	6.29	0.10	0.10	0.00	0.50	0.10	0.01	0.00	0.03	0.85	0.01	8.15	1.12
Lf	91.50	4.15	4.79	3.11	6.30	4.80	6.63	8.59	5.09	4.34	3.25	4.54	11.76	65.10
TOTAL	62.01	4.42	4.89	5.24	5.20	5.19	6.90	5.60	5.10	4.28	3.28	4.18	11.85	66.22
Collection from Govt Dept. & PSU	7.88	8.03	0.50	9.22	0.31	0.36	0.73	0.40	4.27	0.26	0.19	6.12	1.47	5.78
COLLECTION (PIU) Rs.	3.63	2.32	2.57	2.17	2.86	2.87	4.04	3.76	4.78	4.54	3.36	4.04	8.94	3.79
COLLECTION EFFICIENCY (N)	7.11			0.00						10000				
047	WENTER	ADV/OF	#DIVID	#D/vitir	#DIVID	ACM/O	#DY/Ot	#DIVIDE	#Once:	ADVIDE	#DIVIDE	#CM/VEF	407/09	#DIVID
ef	123.46%	170,24%	150.52%	189.71%	0.00%	423.73%	129.19%	10.00%	5.03%	29.22%	27.88%	7.80%	120.83%	104,701
TARL	99.50%	66.91%	8F.00%	69-66%	81.42%	71.10%	154.44%	87.58%	105.78%	106.58%	\$4,20%	111.31%	355.54%	100,895
TAUT.	36.60%	85.49%	88.46%	70.78%	90.43%	74.80%	154.01%	86,65%	104.18%	133.32%	82,22%	108.37%	251.96%	105.87
OVERALL(S)	46.67%	89.49%	85.48%	70.79%	90.40%	74.89%	154.01%	96.85%	104.18%	133.32%	80.22%	108.37%	251.96%	105.87
Collection officers and and gar	182.074	40,11%	85.75%	72.27%	95.40%	24.37%	151.94%	MSR.	107.17%	14021%	85.89%	114.52%	237.87%	104.401
AT A C LOSSICE BOD A POPULATION	1 5 mm												-	
AT A C LOSSON DE ACCUSAN	/ Spains	52.31%	45.55%	44.80%	37.06%	28.18%	71.82%	11.88%	4.32%	16.68%	28.42%	15.35%	-04-03%	29.373
STALT (A)	(36,36h	54.38%	49.31%	49.23%	42.60%	40.20%	18.73%	33.35/2	1.87%	24.44%	33.67%	23.90%	-17.31%	27.14%
OK OOK	ST-16/3876	54.38%	49.37%	48.23%	42.63%	40.20%	18.73%	23.25%	1.87%	24.66%	33.97%	23.80%	-77.31%	27,145



PERIOD OF REVIEW - APR-43 TO MAIN 40														
NAME OF THE DWISION							KAKE.	FUAROSA						
PARTICULARS	JUST 12 Plant to Ward	Arrit	May 22	tion.	24400	Aug-11	Sep-22	Owat	No. 22	Sec-33	Jan El	f10-23	Wer-20.	Total
BULK SUPPLY	-	-			-					-			-	-
Demand (MVA)													200000	
Emergy insut (MLI)	299.407	30.757	30.664	36.312	29.516	29.737	29.084	27.236	21,890	19.679	20.320	19.812	24.302	312.65
RET BRUTGRIDGO (PA. IN CHA.)	100.38	10.73	10.71	10.58	10.30	15.03	10.15	9.01	7.64	6.94	7.09	0.91	8.46	109.07
BET BE (PU)		3,45	3.40	1.49	3.49	3.49	3.49	3.49	2.49	1.49	3.49	3.49	3.49	10000
SALE TO CONSUMERS INTO					-				-					
[sel	29.696	3.254	3.615	3.448	2 848	2.829	2.160	3.682	3.482	3.791	3.842	2.784	3.661	40.62
HT	19.549	3.276	3.244	3.140	3.407	3.394	3.339	3.440	3.410	3.607	3.190	2.967	3,000	20.44
T.	121,456	43.072	12.808	14 359	12.050	13,340	1,007	12,489	10,724	5.621	8.549	7.096	10.066	130.00
TOTAL SALE MUS	199,683	19,792	18.867	29.954	18.345	19.942	16.386	15.620	17.604	11.879	15,381	13.746	19,912	209.12
TADLOSS (%)							14341			11.4.5	3047	100.140	19.014	200.12
FT (Assume #%)	8.86%	6.00%	8.00%	4.00%	4.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
LT.	44,79%	40,20%	44.58%	33.47%	42.87%	38.78%	91.80%	31.46%	20.61%	64.03%	30,25%	37.04%	36,22%	38.57
HT ALT	45.66%	40.20%	43.68%	34.82%	41.00%	35.41%	46.50%	30.33%	23.12%	45.07%	29.67%	35.52%	35.90%	38.635
DVERALL (No.)	41,29%	36.94%	36.53%	30.67%	37.85%	31.80%	42.86%	27.80%	18.64%	38.77%	26.31%	30.62%	30,24%	33,895
Briting Efficiency (NJ	TIMES.		arece.		27.4978	31.400	42.00	0.00	13.014	40.75%	244.6	20.50	20,246	20.00
ef	82.00%	82.00%	87.00%	80.00%	90.00%	92.00%	60-10%	92.00%	90.00%	90.00%	N2 00%	82.00%	82.00%	92.005
T	55,21%	59.50%	59.42%	66.58%	\$2,10%	65,26%	48.20%	68.56%	79.38%	45.97%	69.75%	62.86%	4-20-2	
TALY	54.19%	10.80%	96.32%	46.17%	58.04%	84.00%	81.02%	87.87%	78.82%	\$1.00%		A contract of the contract of	53.78%	61.431
OVERALL (%)	18.71%	BE DEN	81.47%	48.13%	62.15%	68.67%	56.34%	12.04%	According to the second	4	70.00%	84.38%	64.21%	61.575
BILLING TO CONSUMERS (Rs. in Crs.)	96,71%	44.00%	81,47%	49,13%	62,15%	40.01%	36.34%	72.04%	80.58%	60.37%	75.60%	89.30%	89.78%	66.911
DAY	19.32	1.95	2.14	2.04	1.78	1.76	1.00	2.10	2.00					
HT	13.84	2.19	2.12	2.00	2.26	7.72		2.16	2.09	1.20	2.26	1.73	2.30	24.38
NT.	10.84	1.50					2.20	2.22	2.28	1.02	2.16	5.00	2.11	25.87
L.			0.00	T.00	6.20	8.74	4.79	6.26	542	4.32	4.71	4.36	5.61	66.94
TOTAL.	81.10	10.72	16.53	11.66	10.34	16.73	8.61	10.69	19.00	1.41	9.16	1.11	18.80	.119.10
Billing to Govt Dept. & PSU	5.89	6.32	4.32	0.34	1:30	0.30	0.40	0.42	0.32	2.34	0.32	0.26	0.31	4.09
COLLECTION RECEIVED (Rs. in Crs.)				-	-	-				-	-			1000
DHT	17.38	2.05	1.96	3.91	0.41	1.79	1.75	1.85	2.18	1:09	2.22	2.26	1.73	24.31
HT.	16.86	2.41	2.17	1.0	2:09	2.24	2.19	2.16	1:27	2.20	1.89	2.16	2.15	29.16
COLOR STATE OF THE	55.06	5.84	1.00	5.09	5.30	8.22	18.8	6.36	4.01	5.67	4.21	5.06	18,41	37,46
TOTAL	90.40	8.42	9.20	11.14	7.70	9.26	19.74	10.47	10.46	10.04	9.12	9.48	22.25	187.81
Collection from Glevi Dept. & PSU	1.62	9.32	6.20	0.34	6.22	0.28	0.86	0.44	0.36	0.28	0.17	0.16	1.41	1.42
COLLECTION (PNL) Ph.	1.0	2.74	3.00	3.67	2.61	3.22	3.70	3.84	4.78	5.05	4.09	4.73	9.17	4.66
DHT	54.87%	106.24%	W. 1986	100 100	20.000							-		100
HT .			91.28%	190,19%	22.66%	101.87%	81.28%	89.40%	104,22%	94.37%	87.00%	100.00%	75.34%	99.68%
* **	121.60%	100.90%	100.00%	102.04%	82,68%	100.86%	99.67%	BR 62%	99.28%	119.34%	BEAT%	104.44%	101.01%	589,649
The second secon	\$2,19%	10.88%	83.50%	67.28%	82.71%	77.40%	142.51%	101.20%	106,89%	121.12%	89.33%	118.10%	307.96%	911.771
THU JOIAG	97.64%	72.8Ph	88,41%	74.82%	85.30%	83.21%	128.80%	100.40%	104.60%	127.38%	88.41%	112.56%	206.26%	109.861
WERALL (%)	01,100	38.63%	26.21%	95.27%	711.47%	W 33-2*	130.76%	87.86%	154.69%	118.73%	90.79%	110,00%	222.43%	106.581
Son & PSU Son Tot	as the	77.80%	80.85%	95.14%	31.79%	86.73%	118.48%	87,75%	104.48%	120.18%	92.14%	110.31%	216.11%	106.421
74 E SE-10, FR	400	66.19%	51.89%	M-20%	82.79%	49.49%	31.30%	30.63%	10.14%	39.77%	37 68%	25.60%	-109.17%	40.30
STALT COMMENSAGE	720 15	M.17%	50.20%	9124%	50.49%	46.75%	34.21%	MLDPS.	19.53%	20.005	28.09%	-		31,34%
	A 1/105	49.70%	45,29%	34.54%	53,77%	41,29%	31.95%	29.64%				27.67%	-70.42%	32.545
THE PARTY OF THE P	# M.100%	49.79%	40.04.0	26.14%	99.15%	41.28%	21.80%	29.41%	10-74%	28.44%	31.30%	19.52%	-55.16%	38.42%

### New Principles March 1997	PRINCE OF REVIEW APRIZE TO MIRACS.														
### PARTICULARS part In Wine Ann-10 Ann-1	NAME OF THE DIVISION	1000						100 to	ECHANA.					-	
Command Minist Comm			Apr-20	May 31	Am-19	2646	Aug-St	Sep-22	04420	Nov-22	Dec-22	Jandi	Fr6-01	Wor-23	Total
Temps Marco Section											-			-	
BET BIS GROCOD (File in Circ) 93.27 15.00	Color Color State of Party Color		A										4000	1.45	
### 5.48 5.48 5.48 5.48 5.48 5.48 5.48 5.48					31.366	30.843	20,061	36.701	29-087	28.070	29.274	28.072	24.062	26.216	346.97
Section Comparation Comp		93.27	10.09	11.50	12.86	10.76	10.00	8.32	10.16	9.80	8.17	8.10	8.41	9.15	110.00
Section 17.00 1.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 1.	BET BE (PN)		3.49	2.49	3.49	3.49	3.49	3.49	3.49	3.48	3.49	3,49	5.49	2.49	
## 17	SALE TO CONSUMERS (MU)			-							-		-		
112,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 20,000 20,000 21,000 20,000 21,000 22,000	Diff	73,616	1.008	11.386	11.054	12.746	11.989	12:549	10.007	12.210	9.652	9.080	6.663	8.963	128.29
TOTAL SALE (MU) *** \$6 (1005) (%) *** \$6 (1005) (HT	76,653	1.996	7.376	7.245	6.902	5.960	4.791	7.413	7.677	7.308	7.680	6.798	6.667	83.952
TOTAL SALE (MU) A 0-1078 (N)	Ú.	112,240	10.665	10.302	21.877	19.033	10.371	9.063	8.589	2.836					103.30
TA O LOSS (NA) IT (PARSINES BY) A 20% BOOK BOOK BOOK BOOK BOOK BOOK BOOK BOO	TOTAL SALE (MU)	262.467	27.229	29,073	30.276	29.791	28.336	24.505	26,996	27,410	25,160	A contract of the second	-		314.60
April April April April 13.86% 17.20% 4.80% 0.20% 16.20% 16.20% 16.20% 17.20% 4.80% 0.20%	TAG LOSS (N)														17500
PT & LT 2,89% 16,27% 17,09% 8,37% 1,99% 1,99% 1,10% 1,	HT (Assume BN)	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.50%	8,00%
OVERALL (%) 249% 11.17% 11.17% 11.17% 2.40% 2.40% 1.17% 0.14% 7.17% 2.21% 0.21% 12.20% 7.77% 0.10% 0.00% 0.	LF	-9.78%	13.84%	17.22%	4.08%	3.25%	100.78NL	111,21%	8.00%	4.80%	-2.58%	24.16%	0.47%	45.72%	8.30%
Part	HT & LT	2,86%	38.21%	17.06%	8.37%	6.26%	1.95%	1.36%	11.50%	4.00%	6.79%	19.30%	17.06%	42.30%	12,405
Billing Milk Control (1) St. 2005 St.	OVERALL (%)	2.07%	11.13%	11.70%	3.48%	3.67%	1.13%	9.14%	7.19%	2.31%	429%	12.38%	7.72%	26 00%	7.73%
	Billing Efficiency (%)														
## 617 97.14% 83.76% 83.04% 94.85% 93.14% 88.87% 88	HT	52.00%	42.00%	92.00%	92.00%	92,00%	80.00%	90 00%	92.00%	R2.00%	90.00%	92.00%	82.00%	BE 00%	60,665
OVERALL (%) 97.00% BEATS MEATS MEATS MEATS MEATS MEATS MEATS 00.20% 00.20% 00.20% 01.0	LT	109.78%	86.06%	82.79%	104.68%	103.29%	110,79%	111.21%	90.01%	108.60%	102.56%	75.84%	31.53%	34.28%	91,765
BALAND TO COMMUNICATE (No. in Gra.)	HT & LT	97.14%	83.79%	82.04%	94.62%	93.74%	98.00%	96.60%	68.46%	96.07%	93.22%	86.72%	87,54%	97.69%	87.605
Second Color Seco	OVERALL (%)	97.80%	88.87%	88.24%	96.52%	98.30%	88.87%	99.26%	90.81%	87.60%	96.76%	87.42%	82.29%	72.00%	90.27%
## 1	BILLING TO CONSUMERS (Rs. in Crs.)	25/35/4						-						-	70.0.
\$\frac{1}{2}\$ \begin{align*}{cccc} \begin{align*}{ccccc} \begin{align*}{cccccccccccccccccccccccccccccccccccc	EHT	51,06	6.57	7.30	7,29	0.72	2.76	7.82	7.21	2.91	0.56	6.37	5.98	6.08	85.00
TOTAL 100 TOTAL		30.27	4.57	4.77	4.78	4.96	4.08	3.39	4.81	4.91	4.76	5.51	4.48	4.04	54.76
DOTAL 196.28 196.29 196.29 196.29 197.29 197.27 19	LT	19.96	5.30	5.88	4.80	5.90	5.42	5.22	4.78	4.54	4.50	18.6	3.94	2.76	29.46
COLLECTION RECEIVED (Rs. in Cro.) 91,49 4.19 6.20 5.40	DOTAL	161.31	16.95	17,96	19.77	10.77	17.47	18.43	16.80	67.27	15.87	15.24	14.40		199.43
COLLECTION RECEIVED (Rs. in Cris.) PLAP 4.18 6.36 7.30 7.20 8.21 7.78 7.82 7.27 7.81 6.56 6.37 5.98 III 95.40 2.00 5.40 6.27 3.38 6.58 4.29 5.25 4.91 6.50 6.27 5.40 III 95.40 3.00 4.81 6.41 5.57 4.91 5.54 6.57 6.39 6.30 6.27 6.48 10.69 III 95.74 16.18 16.18 16.49 16.49 16.49 17.56 17.56 17.56 17.56 17.58 17	Billing to Govt Dept. A PSU	12.90	3.91	1.00	1.06	1.81	0.87	0.00	18.0	0.65	0.06	0.88	0.83	0.80	11.04
\$ \$4.00 \$2.00 \$3.00 \$4.0	COLLECTION RECEIVED (No. in Cro.)	100000	1.72	7			-			1000			-	-	11004
17 02.00 3.00 4.00 0.41 0.41 0.67 0.60 1.56 0.57 0.60 0.40 1.40 1.60 1.60 1.56 1.57 0.60 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.5	ENT.	21,49	4.19	6.00	7.32	7.30	821	7.78	7.82	7.21	7.94	0.56	0.37	5.98	85.12
TOTAL 1973 16.19 19.69 1	n))	34.18	2.90	1.40	6.27	3.36	4.58	4.23	3.25	4.91	4.99	4.59	5.29	4.17	54.29
Collection from Grow Dept & PSU 15.43 8.39 8.21 0.64 0.79 0.55 1.00 0.90 0.92 0.57 0.59 0.52 3.13 COLLECTION (PMD) 93. 8.59 3.21 8.13 0.04 0.79 0.55 1.00 0.90 0.90 0.92 0.57 0.59 0.52 3.13 COLLECTION (PMD) 93. 8.59 0.21 8.13 0.08 8.20 8.07 8.57 8.62 0.08 6.77 6.92 6.69 8.09 0.00 0.00 0.00 0.00 0.00 0.00 0.0	LT	82.99	3.06	4.96	6.41	5-67	4.01	5.54	8.07	4.94	4.90	4.27	4.48	10.43	60.72
COLLECTION (PIL) Rs. 5.89 3.21 5.73 6.08 6.29 6.07 6.67 5.67 6.08 6.77 5.02 6.08 6.00 6.07 6.07 6.02 6.00 6.07 6.02 6.00 6.07 6.02 6.00 6.07 6.02 6.00 6.07 6.02 6.00 6.07 6.00 6.07 6.00 6.07 6.00 6.00	The state of the s	197.34	14.19	10.89	19.00	96.83	17.00	17.66	19.34	17.06	17,88	19.43	16.09	21.19	201.13
COLLECTION EFFECTIVE (1) 100-27% (1) 107-25% (1) 107-2	The state of the s									0.82	0.57	0.59	0.02	3.13	11.00
DET 100-27% 03-87% 00-67% 101-72% 07-27% 108-37% 108-37% 108-37% 07-27% 07-27% 105-37% 105-37% 105-37% 106-40% 08-57% 107-74% 00-67% 07-27% 00-67% 07-27% 107-74% 00-67% 07-27% 107-74% 00-67% 07-27% 107-74% 00-67% 07-27% 107-74% 00-67% 07-27% 107-74% 00-67% 07-27% 107-74% 00-67% 07-27% 107-27% 107-27% 07-27% 107-27% 07-27% 107-27% 07-27%		5.89	3.31	3.12	8.06	8.29	6.07	6.57	142	0.08	6.77	5.92	6.68	8.06	5.90
167.74% 63.64% (13.12% 121.28% 72.17% 110.19% (13.17% 67.49% 98.87% 104.67% 97.42% 117.13% 100.66% 11.21% 110.21% 100.66% 11.21% 110.21% 100.66% 11.21% 110.21% 100.66% 11.21% 110.21% 100.21%										0/					
\$1.00 P \$6.00% \$1.00% \$4.00% \$1.00% \$6.20% \$1.00% \$10.30% \$10.30% \$100.30% \$100.20% \$1		4-000						99.47%	108.54%	91.13%	125,47%	100.30%	100.40%	88.57%	87,79%
07.5 (1) 08.40% 57.00% 87.00% 100.91% 36.61% 88.00% 112.52% 88.82% 104.12% 108.21% 90.70% 107.51% 208.27% 07.55% 208.27% 107.00% 107.2	M. Committee				101000		112.18%	1214.72%	67 ABN.	99.67%	104.67%	91.62%	117.12%	100.69%	99.12%
OVERALL(%) 00 27% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07% 01.07%	TNON	86.80%	52.59%	84.02%	79:51%	96.20%	82.01%	108.29%	110.31%	108 75%	107.83%	110.26%	113.68%	365.49%	106.811
Steden etterstowed as // Vice.	2.0			87.85%	100:91%	86.61%	94.00%	113.53%	88.83%	194.13%	108.21%	99.75%	115.51%	208.27%	1003.139
\$100 A 750 00000 \$100 000 \$100	OVERALL(S)	0.41.79%	29.57%	H-00%	101.22%	86.47%	89.52%	108-84%	87.20%	86.21%	112,19%	101.25%	111.70%	138.41%	100,861
1 4.00 54.00 50.00 10.00	Con A PSU DANS	P85,53%	81305	M.025	101.59%	8895	102.00%	106,96%	96.37%	3638%	114.75%	165.29%	112.00%	10.57%	100,915
MALE NO. 1 1000 1000 1000 1000 1000 1000 1000	The state of the s	7100	54 74%	90 455	18.199	0.000	9.100	-08 1721	2.699	-04 NO.	- NO. 1889	10.760	4.000	20.400	
	WALL TO A														2.89%
OVERALL(%) 2004 48.79% 17.61% 2.30% 95.71% 1.60% 4.54% 8.71% 4.00% 3.20% 11.60% 3.12% 34.30%	COMPANY COLUMN					and the second									9.55%



SAME OF THE DIVISION				•	*	-	4965	200A	_		_		_	-
PARTOLARS	1811-2E	Apr-33	May-22	An-22	34-81	Ave-III	Sep-22	OHIZ	Nov-27	Dec 22	Am-23	Feb.23	West 1	Total
BULK SUPPLY	Mich Mc		-		-						700.00	140.40		100
Demand ONVA)				_	_	_		_	-		_	_	-	-
Energy Paul (MU)	609.890	67.284	65.668	38.725	60.414	77.344	74.066	72.887	68.627	79.123	76.855	65,979	71.475	838.540
BST 89 of GREDCO (Pla. In Crs.)	252.24	23.48	22.92	20.49	21.09	29.96	26.86	25.44	23.88	27.81	28.62	22.63	24.84	4-22
BST BB (PA))	- Alexandra	3.49	3.49	1.0	1.49	3.45	3.49	3.41	3.49	3.49	1.49	3.49	1.45	290.513
SALE TO CONSUMERS (MU)		70000	- disting	-	800		-		204			149	2.40	
EHT	385.770	42.336	20.000	27.000	24 222		W 515 **		17.70					-
42	95,851		38 606	53.400	36.800	53.044	49.919	48.517	46,920	53,577	80.267	42,416	45.424	341.711
NI .		10.224	12.234	11.286	10.425	11.479	11.306	12.768	11.000	14.520	15.954	13.909	15.240	158.216
LT.	115.019	11.313	10.683	12.640	9.647	12.490	9.746	9.543	8.311	8.176	3.708	8.179	1.667	119,104
TOTAL SALE (MU)	587,646	63.873	81,862	57,568	56.734	77.612	19.870	70.339	66,219	76.476	71.830	84.534	64.501	802.131
T & D LOSS (N)														10000
HT (Assume 8%)	8.00%	0.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	9,89%
M 4 - M	1.62%	11.12%	15.80%	17.27%	16.67%	-15.80%	11.50%	1,10%	5.11%	4.79%	32.69%	4.69%	65.46%	15.09%
HT & LT	8.90%	13.67%	15.39%	4.63%	15-82%	0.96%	13.24%	8.40%	10.08%	10.30%	18.52%	6.12%	26.58%	12,15%
OVERALL (N)	3.65%	5.67%	6.34%	1.96%	4.08%	0.30%	4.32%	2,62%	3,17%	3.30%	8.41%	2.19%	1.09%	4.30%
Billing Efficiency (%)	1													
HT	92.00%	#2.00%	90.00%	92.00%	92:00%	82.00%	82.00%	60:30%	80,00%	92.00%	W2 00%	92.00%	87.00%	92.00%
U.	96.20%	88.88%	84.20%	107.22%	84.03%	115.80%	88.50%	96.57%	94.89%	93.29%	47.11%	105.69%	44.54%	89.95%
HT & LT	99.07%	86.33%	84,61%	96.37%	84.38%	39.54%	66.79%	91.50%	88.82%	85 67%	61.46%	90.87%	73.67%	87.85%
OVERALL (%)	96.35%	84.82%	90.98%	98.04%	93.91%	99.70%	26.66%	97 HBN.	90.83%	95.65%	92.59%	87.87%	00.31%	95,72%
BILLING TO CONSUMERS (No. IN COL.)			-	-	-					3003414	100.01.00	A1.40.40	20.01.4	99,79%
EHT	267.78	27.50	25.85	22.36	24.10	30.50	30.79	29.98	29.38	33.11	31.41	27.00	29.56	343.18
HT	65.68	7.40	8.89	8.17	7.68	8.70	7.96	8.96	2.67	10.18	11.09	8.77	10.67	100.08
V.	62.66	4.00	4.90	6.97	8.58	6.76	5.45	5.39	4.88	4.91	A.02	4.71	3.00	62.61
TOTAL.	386.12	40.96	40.69	37.52	17.15	47.A7	44.26	64.23	40.0	46.30	46.51	42.01		-
Billing to Court Dept. & PSU	14.40	1.09	1.12	1.17	1.25	1.42	1.20	1.32	1.30	1.38	1.45	1.14	42.68	513.30
COLLECTION RECEIVED (Rs. in Crs.)	10.0	1.98	1.4	2.47	1.48	1.04	1,00	1.00	1.00	7.26	1.49	1.14	0.97	14.87
EHT	265.20	25.79	27.49	30.50	19.30	33.33	30.65			1000		-	-	
off .	69.57	1.80	7.79	11.00	8.36	7.19		29.89	27.86	26.16	32.30	31.43	27.66	341.12
LT.	87.74	3.57	5.20	5.90	8.41	3.67	8.10	7.64	3.00	7.82	10.17	10.99	10.01	182.35
TOTAL	280.81	24.66	29.50	47.25			5.56	5.80	5.31	1.43	4.85	4.55	10.30	49.53
Collection from Gov! Dept. 8 PSU					21.47	46.70	44.10	42.43	42.16	41.41	47.32	67.20	47.37	512.81
COLLECTION (PA) Rs.	14.37	5.79	0.79	18.0	1.22	1.21	1.03	1.35	1.26	1.16	1.24	1.29	2.81	15.77
COLLECTION EPROPRICE (NU	6.26	5.22	1.09	9.00	5.31	8.06	5.95	5.82	6.18	5.23	0.14	7.16	6.68	6.12
CONTROL OF THE PROPERTY OF THE	A4 500	44 W.	100 000			10000000					1000		Linear II	1800
EHT	88.22%	83.76%	106.32%	135.39%	79.80%	102.51%	#F.53%	85.72%	94.79%	86.06%	102.52%	114.18%	36.40%	19.48%
	100.02%	76.28%	82.06%	134.54%	95.36%	93.83%	101.38%	88.67%	714.18%	76,60%	91.74%	112.82%	95.58%	93.55%
T	12:14%	56.91%	87.49%	85.39%	114.92%	83.90%	109.36%	100.47%	108.82%	110.00%	120.74%	101.30%	334.98%	108.67%
MALT NO.	89,19%	80305	84.28%	111,95%	87,79%	88.30%	104,81%	96.36%	112.17%	87.80%	00.43%	108.90%	149.55%	100.70%
	38.804	85.81%	96.27%	125.61%	84.25%	96.37%	89,68%	95.91%	100-00%	80.31%	101.6354	112.36%	113.52%	19.11%
Colordon officiary Color	MARK	86.00%	99-00%	127.28%	60.78%	00.79%	100.30%	85.71%	100.30%	80.00%	102.02%	112,35%	109.36%	19.86%
AT & C LOSS(S)	DAY II		-							eccess.	- CO-100-17			10.04%
	Trians.	47.84%	26.33%	8.40%	3.44%	2.84%	3.21%	4.22%	2.340	0.000	10.000	V 100		
HTALT ST	1/14%	30.00%	28.73%	4.725	17.48%	11.51%	9.24%		-2.36%	-3.18%	18.07%	-7.16%	-49.20%	2.24%
OVERALLIST CO. S.	4200	15.54%	7.90%	Control Control				11.79%	-0.M/L	21.31%	19.97%	-2.22%	-6.00%	11.53%
DEFINITION OF A	AREN	18.34%	7.70%	(23.44%)	20.88%	1.90%	4.62%	6.80%	3.12%	16.36%	4.36%	-0.90%	-0.53%	4.40%

YERIOD DF REVIEW - MPR-52 TO MAR-23						100	100000	20.10						
make of the ownson							AEO, AN	AND APUR						
PARTICIALARS	Skirt to Mart	April2	May-12	An-It	34-22	Aug-22	Sep-22	Ounts	N=42	DecdI	Janets	Fe6-23	Wor-23	Total
BULK SUPPLY	73,102,03	5.557.71		100			77.5117.5	11,7,11	1000					
Demand (MVA)														
Errergy input (MU)	179.543	17.863	17,701	. 16.000	17.008	17.832	17.683	14.278	11.500	11.038	11.336	11.336	13.698	176.60
BST BIT of ORIOCO (Fig. in Ors.)	62.48	8.25	8.18	6.62	5.85	6.22	6.17	5-52	4.01	3.60	3.96	3.96	6.79	62.13
BST DR (PS)		3.49	3.49	3,49	1.49	3.49	3.49	2.49	3.48	3.49	3.49	3.49	3.49	
SALE TO CONSUMERS (MIL)			-			-				-	-	-		
EHT	0.000	8.000	9.000	0.000	6.000	6 000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	9.000
HT	7.358	8.967	0.860	0.898	0.843	6.765	0.392	0.379	0.457	0.529	0.942	1.040	1.100	8.940
LY	111.044	11.019	9.361	12.734	ROCF	12.625	9.897	9.962	8.90K	T.SAS-	8.805	7.817	7.115	114.67
TOTAL SALE (MIS)	919.300	13.666	10.601	13,452	16.758	13.336	16.280	16.341	9.345	9.040	1.747	8.817	8.215	123.66
T & D LOSS (NJ)			1000				10.401	78.0-11						
HT (Messume 80s)	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	6.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.007
LT .	29.07%	24.74%	36.85%	13.10%	33.05%	19.59%	37.88%	22.45%	12.18%	21.67%	28.37%	19.76%	38.09%	21.90
HFALF	23.59%	29.29%	40.11%	19.50%	36.76%	25.25%	61.81%	29.08%	18.74%	26.00%	31.66%	21.87%	38.98%	30.58
GWERRALL (SL)	33.59%	29.38%	48.11%	19 30%	36.76%	25.25%	41.81%	28.08%	18.74%	26.90%	31.66%	21.67%	29.38%	30.581
Billing Efficiency (%)	-		-			-	and the same of	-20,000	-				1	
ef	90.00%	92.00%	90.00%	80.00%	92 DON	92.00%	90' 00%	90'00%	80.00%	90.00%	92.00%	90.00%	82.00%	92.001
17	79.93%	75.26%	63.18%	M 90%	66.95%	60.41%	62.34%	77.50%	67.62%	78.30%	71.72%	83.26%	61.00%	74.04
HT ALT	66.47%	70.81%	20.66%	80.50%	63.24%	74.79%	58.19%	71.94%	81.28%	73.10%	88.34%	78.13%	60.02%	89.AZ
OVERALL (%)	98.43%	78.81%	10.80%	60.50%	63.24%	74.75%	58.10%	T1.94%	81,28%	73.10%	88.34%	78.13%	40.02%	00.42
BILLING TO CONSUMERS (Ru. in Crs.)	10.00	10000	-35.00.	- Miles						10.101		10.10.0		900.002
EHT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.80
HT	6.02	0.79	0.84	0.54	6.65	0.58	0.37	0.38	0.44	0.49	0.76	0.81	0.84	7.30
LT	38.00	5.56	5.23	6.76	5.14	6.37	5.19	5.14	474	4.20	4.07	4.22	1.00	81.00
TOTAL	63.61	6.68	5.67	1.36	5.79	5.90	5.57	5.51	5.18	4.88	ARE	5.04	4.81	69.22
Brilling to Govr Dwgs. & PSU	9.63	0.82	0.86	0.00	2.81	0.86	0.91	0.68	0.83	0.64	140	0.04	0.91	10.48
COLLECTION RECEIVED (Rs. in Crs.)	100		1		-	100			-		2.00	0.01	2.01	79.46
DHT .	0.00	0.00	6.60	8.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	1.00	1.00	0.00
HT	7.16	2.68	0.76	2.58	8.83	0.71	0.56	0.35	0.35	146	3.49	8.71	0.62	6.95
LT	41.40	2.62	3.84	4.20	4.71	4.36	3.00	4.60	4.59	4.52	3.76	4.87	17.66	45.63
TOTAL	52.57	3.59	4.59	4.79	5.24	5.81	1.89	4.98	4.32	4.87	4.25	5.66	18.80	72.79
Cutection from Govt Dept. 8. PSICI	8.34	0.69	0.82	0.69	0.84	0.67	1.85	6.77	8.99	0.67	0.56	0.50	2.06	11.12
COLLECTION (PHI) By.	2.93	2.04	2.59	2.87	3.06	2.69	3.22	3.40	1.79	4.51	3.75	5.01	10.74	4.09
COLLECTION EPPICIENCY (NJ			1.00		2.00	2.44	2.22		1420	431	219	241	10.75	4.09
EHT	40WB	#DIVIDE	*DIVIDI	#00V/0	60W8	#05V65	KOV9	600/01	KOVO	KOND	4DVD	KONR	KOND	KONS
HT	119.02%	86.42%	118.72%	107.36%	81.86%	123.80%	149.84%	85.47%	78.07%	92.74%	64.51%	ET MES	80,08%	96.585
LT CONTRACTOR	79.66%	48.77%	73.50%	42.25%	91.57%	68.45%	102,72%	90.84%	96.78%	107,75%	82.30%	117.52%	450.77%	167.89
TAR.	11.42%	53,79%	75,150	63.60%	90.50%	73.00%	100.87%	90,29%	86.185	106 10%	87.95%	112.80%	369.24%	106.70
manager of the state of the sta	1147%	\$3.79%	28.50%	65.60%	80.80%	73.60%	105.87%	80.29%	60.18%	100,19%	87.90%	112.00%	389.24%	106.70
Colection efficiently with	72.85%	49.00%	81.42%	88.67%	10.40%	the following the same of the	-							
GOLF PED BOOKS	A series	49.00.0	85.68%	SEAT-C	66.60%	86,00%	104.00%	90.75%	92.59%	111.00%	AC00.18	123.40%	404,31%	106.77
AT & C LOSSING	15													
C. m-cst 34/189	是此	63.30%	53.58%	45.50%	38.89%	41.86%	35.67%	29.70%	13.00%	15.80%	33.78%	2.12%	+179.03%	24.125
71. N 41	3635	42.02%	53.14%	47.79%	42.77%	45.40%	38.40%	39.06%	22.00%	22.37%	39.90%	11,86%	-130.00%	25.835
OF THE	NAME OF TAXABLE PARTY.	60.00%	63,14%	47.10%	42.71%	45.40%	36.40%	36.06%	22.66%	22.37%	39.90%	11.86%	133.60%	28.535



						No. of the last of	Contractor of			1			
						TPHODIL A	S WHOLE				-		
2021-22 (Apr to Mar)	Apr-22	May-22	Steek.	3612	Aug-22	Sep-22	Out-22	Nov-22	Dec-22	Jan-20	Feb-23	Mar-23	Total
845,4116	979.826	1051.347	1154,650	989,965	1955,100	1105.519	1001.333	917,979	954.679	967,918	999,253	1068,962	1022.21
5327.045	552.103	547.362	106,214	546.623	581.813	568.745	555.275	485,779	492.153		501,359	183.835	6473.32
1640.96	192.77	191.11	157.68	150.86	196.16	190.50	192.86	169.62	171.85	179.67	175.04	203.96	2290.30
	1.49	3.49	3.49	3.49	3.49	3.49	3.40	3.49	3.49	3.49	1.49	3.00	
-													200 K W
1675.005	163,364	167.121	194.914	184.543	211,704	214.709	237,893	336.277	253,659	296.607	245.814	386.154	2681.53
543.348	\$4.883	58.648	56.719	52.420	49.509	47,637	49.313	48,509	49.522	52.686	51,272	55,689	625.417
2987,798	309.919	200.166	207.912	191,148	224.092	178.634	292.853	173.664	129.791	123,737	133.676	145.212	2110.76
4346,998	427.016	425.905	489.565	428.311	485.385	412.970	430.661	456.250	423.962	432,460	438.542	486,975	5419.05
												100	
8.00%	8.00%	8.00%	1.00%	8.00%	8.00%	8.00%	8.60%	1.00%	8.00%	8.80%	4.00%	8.00%	8.00%
34.09%	31.82%	31,26%	16.45%	31.85%	17,77%	38.64%	16,20%	5.22%	28.91%	32.60%			28,21%
26.86%	32.17%	31.60%	28.64%	12.68%	21.83%	38.35%	20.36%	11.84%	29.59%	21.31%	-	-	27.82%
18.40%	22.66%										-		16.47%
		-	100111		100010	4000	110410		12411	10.46.6	12.44	10.44.4	19.4014
92,00%	92.00%	92,80%	92.00%	92.00%	92.60%	90.00%	\$2,50%	92.00%	92.00%	92 MM.	97.66%	80 888	92.00%
		But the second	the property of the last	American State of Sta	the second second				3403114			THE RESIDENCE OF THE PERSON OF	73.79%
		_	the second second second	are an inches in the last	months months in the	rishuli Orio Court	mariti de la Como			211074		and the second	mere distribution (in
						manufacture and	INDEPENDENCE IN	mary faithful for feature	month or comme				72.18% 83.57%
#1000.W	. Interes	11,040.0	00.4013	19.99.8	10,41.4	78.10%	89.09.5	70.76.74	89.74%	94.36.5		80.00%	89.57%
1112.39	105.01	108.00	110.01	114.67	130.05	430.58	164.11	46.61	160.00	159.50		177 16	1648.37
		description of the latest termination in	ment con continued	and the control of th	and the first of t	mention of the following	Street, all All Street, Street, St.	the state of the s	17774	7,000,000		And and the Control of the Control o	Maria Property Cale
						-		man di Adam di Sanata	man and a state of the state of		341-4		427.95
	-									STREET, STREET		and the second	1527.59
	marry CANACOTO	Britania Commit	Company of the Control of the Contro								mind to michigan		3200.91
161.81	14.07	12.09	19.29	1981	12.98	12.38	10.34	11/80	11.60	11.32	12.75	13.27	196,48
4470.48	434.54	400.00	245.66	404.94	244.00	101.00	444.00	200.00		450 70	100110		
			-			and the latest designation of the latest des	manager and the same of	-1127		10.47.7		-	1721.61
	and the same of								Processor (NOT SEE SECTION)	The second second			451.84
	name (Information Common	brist College Street							term detection in the same	married which is	and the Comme		1234.47
	nine montrion	beautiful to the fact of	manufacture design	terminal terminal terminal terminal	medical desirations	the state of the s		303,044			- PARTICIPATION AND ADDRESS OF THE PARTICIPATION AND ADDRESS OF TH	the state of the s	3097.92
						- Charles					-	the state of the s	166.95
4.30	4.00	4.13	4.53	5.57	4.30	3.46	4.94	5.79	5.59	5.21	5.68	7.72	5.25
888 THE	404 BIN	444 876	400 Ave	440 500	44.499	245 SWW	A4 944	400.040	41.500			*****	
	the contract of the contract of	property and the control of the	Emmand Automorphisms	transfer for the second		and the second					and the state of t		104.44%
						turner to the department		www.prystopoolius				-	105.58%
	2711777		111111111111111111111111111111111111111				and the second second	www.cococococ				administration (and a	108.59%
NAME OF TAXABLE PARTY.	tem (100 school and	m00046666	transfer de la constitución de							STATE OF THE OWNER, SHAPE	her har hard and a state of		907.76%
94.29%	87.A3%	89.12%	91.29%	121.25%	88.27%	133.36%	97.27%	100.11%	102.91%	100.35%	106.88%	155.31%	196.86%
94,31%	BAS	99.85%	91.71%	123.60%	80.93%	118,94%	97.05%	105.33%	103.59%	101.67%	112.00%	148.20%	106.02%
Same	44 565	49 300	37.43%	14 545	27 100	22 000	10.77%	1 695	0.000	70.455	14.616	844.600	44.600
	tenducations and	America Carlo Chand	Professional Confidence	and the Color and							reference could make	and the second second	19.87%
23,13%	32.36%	30.65%	21.87%	4.99%	23,74%	6.00%	14.01%	1,39%	11.35%	15.38%	19.50%	-29.72%	11.36%
	#45.410 \$45.410 \$45.410 \$45.410 \$45.410 \$46.610 \$45.410 \$46.610 \$45.41	April April	Bay to Hart			Bas	2019-12	### 18 ### ### 19	2015-127 Ago-32	200-12 Apr-22 May-22 Aur-22 Aur-22 Aur-22 Sup-22 S	2007-12	2007-12	2007-12





TPNOOL CONSUMER MIX DATA AS ON 31.03.2023

SI. No.	Name of the Division	Category in terms of Area				No of	No of						
		Urban	Rural	Total	Kutir Jyoti	Agricultural	Domestic	Commercial	Industrial	Traction	Others	Villages	Villages Electrified
1	BED, Balasore	59004	6303	65307	0.002	0.305	91.496	51.582	60.096	64,033	23.196	2933	2933
2	BTED, Basta	4346	80152	84498	0.015	14.373	47,85	12.111	3.173	0	7.709		
3	JED, Jaleswar	16949	103750	120699	0.448	20.813	64.887	17.928	3.088	60.29	21.76		
4	CED, Balasore	6112	110062	116174	0.032	8.296	80.457	22.193	253.458	0	26.827		
5	SED, Soro	15532	138176	153708	0.017	2.836	95.26	22.515	13.971	0	26.069		
6	BNEO, Bhadrak (N)	35764	147087	182851	0.482	1.329	152.821	129.354	156.312	60.984	17.373	1314	1314
7	BSED, Bhadrak (S)	2009	109989	111998	0.012	1,908	77.15	14.665	5.006	0	5.632		
8	BPED, Baripada	41899	182487	224386	1.354	10.23	150.68	45.826	21.002	.0	23.292	3966	3966
9	UED, Udala	7238	99453	106701	1.184	2.642	53.924	11.168	2.712	0	5.71		
10	RED, Rairangpur	13414	194152	207566	1.211	8.18	110.341	25.776	14.26	0	16.06		
11	JRED, Jajour Road	19488	79443	98931	0.026	2.347	118.154	51.077	1293.128	118.931	11,023	1388	1388
12	JTED, Jajpur Town	9967	90356	100323	0.025	4.282	92.886	18.096	1.162	0	4.615		
13	KUED, Kuakhia	2696	111115	113810	0.188	4,102	93.282	21.03	82.24	0	4.686		
14	KED, Keonjhar	20810	99538	129348	0.267	1.502	68.356	29.001	149.923	55.963	11.304	2125	2125
15	JOED OT AR	31508	63645	95153	0.144	1.841	76.463	35.045	573.404	102.973	13.46		
16	4/ED, Syrandapur	. 12516	126619	139135	0.528	0.361	54.519	18.397	8.149	0	11.395		
	Carried and	200251	1742337	2041588	5.935	85.347	1458.626	525.795	2641.084	463.174	230.091	11726	11726



PERFORMANCE OF TPNODL - SYSTEM IMPROVEMENT					
Particulars	As on 31st March 2021	As on 31st March 2022	As on 31st March 2023		
No. of Circles	5	5	5		
No. of Divisions	16	16	16		
No. of Subdivisions	50	50	50		
No. of Sections	159	159	159		
No. of Special Police Stations	5	5	5		
No. of Courts	1	1	1		
No. of consumers		9			
EHT	36	37	41		
нт	557	614	659		
LT	2007540	20,88,432	20,40,888		
Total	2008133	20,89,083	20,41,588		
Network System					
Length of 33 KV Line (km.)	2868	2895	3024		
Length of 11 KV Line (km.)	37069	37591	40189		
Length of LT KV Line (km.)	66300	66672	67486		
Length of conductor stolen (km.)	0.33	0.00	27		
Cost involved (Cr.)	0.09	0.00	0.23		
No. of 33 KV Group & Feeder Breakers Required	136	50	102		
No. of 33 KV Group & Feeder Breakers Installed	166	173	71		
No. of 11 KV Group & Feeder Breakers Required	126	70	147		
No. of 11 KV Group & Feeder Breakers Installed	228	240	107		
FEEDER METERING					
No. of 33 KV feeders (excluding GRIDCO interface)	91	98	108		
No. of 33 KV feeder metering	91	98	108		
No. of 11 KV feeders	720	797	825		
No. of 11 KV feeder metering	655	545	825		
No. of 33 / 11 kv transformers	488	524	550		
No. of 33/11 kv transformer metering position	246	246	244		
No. of Distribution transformers (11/0.4 & 33/ 0.4 kv)	70429	72323	74726		
No. of Distribution transformer metering position	2208	2208	2883		
MVA Capacity of DTRs	2584	2657	2787		
Energy Audit Carried Out-33 KV	74	77	92		
Energy Audit Carried Out-11 KV	617	545	344		
Energy Audit Carried out- No of DTRs	455	455	471		





Annual Energy Audit Report 2022-23 of TPNODL

Particulars	As on 31st March 2021	As on 31st March 2022	As on 31st March 2023
Consumer Metering Position			
Total number of meters	1902980	20,10,760	19,99,017
No. of working meters	1717944	17,37,701	17,40,496
Percentage of working meters (%)	90%	86%	87%
New meters installed (3 ph)	5637	4930	11213
New meters installed (1 ph)	196044	255855	391243
No of 3 Phase Consumers	51097	34775	37152
No of Consumers with TOD benefit	1124	1046	998
No of Consumers 10 KW load and above	11439	12761	19590
No of Consumer AMR metering	12979	9431	16743
Total No of consumers	2008133	2089083	2041588
No of consumers added	101577	80950	-47495
No of meters purchased	500	124310	431037
No of meters used for installation for new consumer and replacements for old consumers	201681	260785	402456
Cost involved in purchase of meters (Rs. in Crs.)	0.13	9.08	55.11
Cost of meter rent Collected (Rs. in Crs.)	19.60	22.80	10.82
Anti Theft Measures			
No of cases Finalised under Section 126 & 135	5428	37893	36387
Amount Finalised (Rs. Cr.)	6.41	47.89	49.03
Amount Accessed during filing of case (Rs. Cr.)	7.30	64.37	67.38
No of new connections given	114201	113608	87701
No of Connection Regularised	2145	2011	694
Amount Collected (Cr.)	1.14	21.65	37.6
No. of FIR Lodged	6	12	29
No. of illegal consumers prosecuted/Initiated in Court	0	12	9
Number of Disconnection made	61609	67022	126935
Revenue realised (Rs. Cr.)	34.42	206.06	257.94







Particulars	As on 31st March 2021	As on 31st March 2022	As on 31st March 2023
Franchisee Activity			
No of Micro-Franchisees	76	211	301
No of Consumers Covered	97897	184767	218583
No of Macro-Franchisees	0	0	0
No of Consumers Covered	0	0	0
No of Input Based-Franchisees	1	0	0
No of Consumers Covered	43732	0	0
Total no of consumers covered under Franchisee	141629	184767	218583
QUALITY OF SUPPLY			
Failure of Power Transformers	17	27	8
No. of Distribution Transformers burnt	2312	2533	2877
Cost involved (Cr.)	3.85	4.41	3.03
No of Interruptions in 33 KV Feeders	5544	16750	11571
No of Interruptions in 11 KV Feeders	463803	339516	288140
No. of Grievances received through CHP	518	388	415
Disposed through CHP including Bijuli Adalat	511	341	399
No. of GRF Orders received	511	341	399
No. of GRF Orders Complied	402	241	358
SYSTEM IMPROVEMENT WORKS DURING REVIEW PERIOD			
Installation of New Transformers (DTR)	4	0	128
Upgradation of Transformers (DTR)	8	21	147
Installation of Pillar Box	0	0	0
Length of AB Cable Laid (KM)	12.19	29.84	337
Conversion of Single Phase to Three Phase Lines	4.91	0	12





		TPNOD				
		STATUS OF A	RREAR			
						(Rs. in Crs.
Arrears as on 31.03.2022	Billing for the period (Apr-22 to Mar-23)	Collection against current dues (Apr-22 to Mar-23) against '3'	Collection against arrear during (Apr-22 to Mar-23) against '2'	Total collection	Arrear for the period (Apr-22 to Mar-23)	Arrear as on 31-03-2023
2	3	4	5	5=4+5	7=3-4	8=2-5+7
390.26	1648.37	1594.05	127.56	1721.61	54.32	317.02
72.07	380.55	377.10	24.27	401.36	3.45	51.26
1993.81	1018.59	953.05	154.95	1108.00	65.54	1904.41
0.67	47.41	44.40	6.08	50.48	3.01	-2.40
15.12	108.99	108.64	7.83	116.47	0.35	7.64
2471.93	3203.91	3077.23	320.69	3397.92	126.67	2277.92
	31.03.2022 2 390.26 72.07 1993.81 0.67	2 3 390.26 1648.37 72.07 380.55 1993.81 1018.59 0.67 47.41 15.12 108.99	Arrears as on 31.03.2022 Billing for the period (Apr-22 to Mar-23) Mar-23) against current dues (Apr-22 to Mar-23) against 33 4 390.26 1648.37 1594.05 72.07 380.55 377.10 1993.81 1018.59 953.05 0.67 47.41 44.40 15.12 108.99 108.64	Arrears as on 31.93.2022 Billing for the period (Apr-22 to Mar-23) against current dues (Apr-22 to Mar-23) against '3' against arrear during (Apr-22 to Mar-23) against '2' 2 3 4 5 390.26 1648.37 1594.05 127.56 72.07 380.56 377.10 24.27 1993.81 1018.59 953.05 154.95 0.67 47.41 44.40 6.08 15.12 108.99 108.64 7.83	Arrears as on 31.03.2022 Billing for the period (Apr-22 to Mar-23) Billi	STATUS OF ARREAR Arrears as on 31.03.2022 Billing for the period (Apr-22 to Mar-23) Collection against current dues (Apr-22 to Mar-23) against 2 Collection against arrear during (Apr-22 to Mar-23) Arrear for the period (Apr-22 to Mar-23) 2 3 4 5 6=4+5 7=3-4 390.26 1648.37 1594.05 127.56 1721.61 54.32 72.07 380.55 377.10 24.27 401.36 3.45 1993.81 1018.59 953.05 154.95 1108.00 65.54 0.67 47.41 44.40 6.08 50.48 3.01 15.12 108.99 108.64 7.83 116.47 0.35





_		TPNODL		
	OUTSTAND	NING GOVT ARREA	ARS	V
				Rs. in Lacs
SL No.	GOVT. DEPARTMENTS	AS ON 31.03.2022	AS ON 31.03.2023	ARREAR ADDED
1	Housing & Urban Development			
(i)	PHD (Urban)	-342.88	-182.75	160.13
(ii)	Others	12.18	12.70	0.52
1.17	Total	-330.70	-170.05	160.65
2	Rural Development			
(i)	Rural Water Supply (RWSS)	1836.49	1304.51	-531.98
(ii)	Others	-3.96	-4.31	-0.35
	Total	1832.53	1300.20	-532.33
3	Irrigation(WR)			
(i)	Lift Irrigation			
(ii)	Panipanchayat			
(iii)	Others	-84.81	-40.49	44.32
	Total	-84.81	-40.49	44.32
4	Home Deptt			
(i)	Judiciary			
(ii)	Police	-41.28	-111.12	-69.84
(iii)	Jail			
(iv)	Others	0		
_	Total	-41.28	-111.12	-69.84
5	Law Deptt			
(i)	Judicial courts	-29.15	-31.17	-2.02
(ii)	Endowments			
(iii)	Others			
	Total	-29.15	-31.17	-2.02
6	Panchayat Raj Deptt			
(i)	Zila Parishada			
(ii)	Panchayat Samiti			
(iii)	Grampanchayat	1053.02	724.64	-328.38
(iv)	Other Establishments			
4.1F	Total	1053.02	724.64	-328.38
7	School & Mass Education	-359.91	-310.62	49.29
8	Higher Education	-86.48	-122.68	-36.20
9	Industries			,
(i)	Technical Education	-0.34	-7.43	-7.09
(ii)	Other Establishments	-16.67	-7.78	8.89
4.00	Total	-17.01	-15.21	1.80
10	Revenue	-28.43	-47.01	-18.58





SL No.	GOVT. DEPARTMENTS	AS ON 31.03.2022	AS ON 31.03.2023	ARREAR ADDED
11	Works	-16.71	-31.13	-14.42
12	Fisheries & Animal Resources			
(i)	Fisheries	-16.18	-15.72	0.46
(ii)	Veterinary			0.00
(iii)	Others			
	Total	-16.18	-15.72	0.46
13	Co-Operatives			
(i)	Spinning Mills	-1.15	-0.60	0.55
(ii)	Other Establishments	-1.64	-1.39	0.25
	Total	-2.79	-1.99	0.80
14	Forestry	-19.86	-19.66	0.20
15	Civil Supply	4.74	-0.86	-5.60
16	Health &Family	-464.07	-441.65	22.42
17	Transport	-1.85	-0.69	1.16
18	Other Departments	-206.54	-172.63	33.91
	Total State Government	1184.52	492.16	-692.36
19	Urban Local Bodies			
(i)	Municipal Corporations			
(ii)	Municipality			
(iii)	NAC / Municipality	39.28	59.49	20.21
	Total	39.28	59.49	20.21
20 PSU		355.06	-28.32	-383.38
Total Outstanding Arrear		1578.86	523.33	-1055.53





10.5 TPNODL RETAIL SUPPLY TARRIF ORDER FOR FY 2022-23:

Annexure-B

RETAIL SUPPLY TARIFF EFFECTIVE FROM 1st APRIL, 2022

SL No.	Category of Consumers	Voltage of Supply	Demand Charge (Rs/KW/ Month)/ (Rs/KVA/ Month)	Energy Charge	Customer Service Charge (Rs./Month)	Monthly Minimum Fixed Charge for first KW or part (Rs.)	Monthly Fixed Charge for any additional KW or part (Rs.)	Rebute (P/kWh/ kVAh) / DPS
	LT Category		7.500.700.0	(PSAWN)		100000	7	
1	Domestic					1000		
1.a	Kutir Jyoti <= 30 Units/month	LT	FIXED MONT	HLY CHARG	3E-3	993		
Lb	Others	2000						Rebute 10
	(Consumption <= 50 units/month)	LT		300,00				
	(Consumption >50, <>200 units/month)	LT	_	450.00		20	20	
	(Consumption >200, <=400 units/month)	LT		580.00				
-	Consumption >400 units/month)	LT	_	620.00				B 5
2_	General Purpose < 110 KVA	LT	_	500.00			-	Rebate 10
_	Consumption = 100 units/month		_	790,00		30	30	
	Consumption >100, <>300 units/month	LT	_	760,00	_	249	30	-
3	(Consumption > 300 units/month) Impation Pemping and Agriculture	LT	_	150,00		20	10	Rebote 10
4	Allied Agricultural Activities	LT	_	160,00		20	10	Rebate 10
3	Allied Agro-Industrial Activities	LT	_	479,00		20	50	Rebase DPS
6	Public Lighting	LT	_	620,00		20	15	Rebate DPS
7	L.T. Industrial (S) Supply <22 KVA	LT	_	629,99		300	35	Rebate 10
	L. T. Industrial (M) Supply >= 22 KVA		_	620.00				ROPORCE TO
8	<110 KVA	LT		620.00		100	30	Rebate DPS
9	Specified Public Purpose	LT		620.00		50	50	Rebate DPS
	Public Water Works and Sewerage		_			77.7	100	
10	Pumping <110 KVA	LT		620.00		50	50	Rebate 10
11	Public Water Works and Sewerage Pumping >= 110 KVA	LT	266	620.00	30			Rebate 10
12		LT	200	620.00	30			Rebate DPS
13	General Purpose >= 110 KVA Large Industry >=110 KVA	LT	200	620.00	30			Rebate DPS
13	targe material >-110 KVA	1.1	200	Energy	.00	_	_	Senate Dr S
	HT Category		y 200 mg	Charge (P/kVAh)				
14	Bulk Supply - Domestic	HT	20	499.00	250			Rebate 10
15	Irrigation Pumping and Agriculture	HT	30	140.00	250			Rebate 10
16	Allied Agricultural Activities	HT	30	150.00	250			Rebate (4)
17	Allied Agro-Industrial Activities	HT	50	460.00	250			Rebate DPS
18	Specified Public Purpose	HT	250	1000	250			Rebate DPS
19	General Purpose >70 KVA < 110 KVA	HT	250		250			Rebate 10
20	H.T Industrial (M) Supply	HT	150		250			Rebate DPS
21	General Purpose >= 110 KVA	HT	250	As	250			Rebate DPS
22	Public Water Works & Sowetage Pumping	HT	250	indicated in the	250			Rebote 10
23	Large Industry	HT	250	below	250			Rebate DPS
24	Power Intensive Industry	HT	250		250			Rebate DPS
25	Mini Stort Plant	HT	250	1	250			Rebate DPS
26	Railway Traction	HT	250	1	250			Rehate DPS
27	Emergency Supply to CGP (kWh)	HT	.0	789,00	250			Rehate DPS
28	Colony Consumption (Both SPP &	IIT	0	490.00	0			Rebate/DPS
	Industrial)	.545		Energy	-			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	EHT Category	2000		Charge (PAVAh)				
29	General Purpose	EHT	250		700			- Rebate DPS
30	Large Industry	EHT	250	An	700		-	Rebate DPS
31	Railway Traction	EHT	250	indicated in the	700		7	Rebate DPS
32	Heavy Industry	EHT.	250	notes	700		1 1	Rebate DPS
33	Power Intensive Industry	EHT	250	below	700			Rebate DPS
34	Mini Steel Plant	EHT	250	1000	700			Rebate DPS
35	Emergency Supply to CGP (kWh)	EHT	0	770.00	700			Rebate DPS
36	Colony Consumption	EHT	- 0	485.00	0			Rebate DPS



Note:

Slab rate of energy charges for HT & EHT (Paise/kVAh)

Load Factor (%)	HT	EHT
= < 60%	585.00	580.00
> 60%	475.00	470.00

- (i) Energy charges for all LT consumers shall continue to be billed on the basis of kWh whereas the energy charges for HT and EHT consumers shall be billed on the basis of kVAh drawal. All open access transaction will be maintained in kWh sale only and kVAh based sale shall be converted into kWh base on the power factor for the month provided in the energy bills if necessary. For Electricity Duty purpose kWh shall be the unit for the consumers for whom ED is levied on the per unit basis. For load factor purpose kWh reading shall be taken into consideration.
- Power factor penalty / incentive and reliability surcharge are abolished.
- (iii) The reconnection charges w.e.f. 01.04.2015 shall continue unaltered

Category of Consumers	Rate Applicable
LT Single Phase Domestic Consumer	Rs.150/-
LT Single Phase other consumer	Rs.400/-
LT 3 Phase consumers	Rs.600/-
All HT & EHT consumers	Rs.3000/-

- (iv) Energy Charges shall be 10% higher in case of temporary connection compared to the regular connection in respective categories.
- (v) The meter rent w.e.f. 01.04.2022 shall be as follows:

Type of Meter	Monthly Meter Rent (Rs.)
1. Single phase electro-magnetic kWh meter	20
2. Three phase electro-magnetic kWh meter	40
3. Three phase electro-magnetic tri-vector meter	1000
4. Tri-vector meter for Railway Traction	1000
Single phase Static kWh meter	40
6. Three Phase Static kWh meter	150
7. Three phase Static Tri-vector meter	1000
8. Three phase Static Bi-vector meter	1000
9. LT Single Phase Smart Meter	60
10. LT Three phase AMR/AMI compliant meter	150

Note: Meter rent for meter supplied by DISCOMs shall be collected for a period of 60 months only. Once it is collected for sixty months meter rent collection should stop. All statutory levies shall be collected in addition to meter rent. The Commission may revise the meter rent by a special order.

(vi) All HT industrial consumers (Steel Plant) having Contract Demand (CD) of 1 MVA and above shall get a rebate on energy charge on achieving the load factor as given below:



Annual Energy Audit Report 2022-23 of TPNODL

CD upto 6 MVA CD above 6 MVA

For load factor of 65% and above upto 75%

10% on energy charge

For load factor above 75% upto 85%

For load factor above 85%

15% on energy charge 8% on energy charge 20% on energy charge 10% on energy charge

The above rebate shall be on energy charges of entire unit of consumption.

Load reduction shall not be permitted to such category of industry for availing this rebate during the financial year 2022-23.

- (vii) Any industry having CGP with CD up to 20MW willing to avail power from DISCOMs upto double the CD shall be allowed to draw power without payment of overdrawal 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 (kVAh) beyond CD shall be Rs.4.30 paise per kVAh. However, the DISCOMs shall not exceed their approved SMD during that period. The DISCOM must ensure that for such overdrawal the distribution system is not overloaded and no load shedding is imposed during that period.
- (viii) Any industry having CGP willing to avail power from DISCOMs 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 drawal above 80% load factor. No overdrawal penalty shall be levied on them. Any industry having CGP without CD availing emergency power only can also get this benefit for incremental energy (kVAh) above emergency drawal. For this purpose the industry shall enter into a tripartite agreement with DISCOMs and GRIDCO.
- (ix) All the industrial consumers drawing power in EHT shall be eligible for a rebate of 10 paise per unit (kVAh) for all the units consumed in excess of 80% of load factor.
- (x) LT Single Phase consumers of all categories having CD upto 5 KW with pole within 30 meters from the consumer premises shall pay new connection charges excluding processing fees as follows:

Upto 2 KW : Rs.1,500/-Beyond 2 KW upto 5 KW : Rs.2,500/-

Provided that if the line extension is required beyond 30 meters, the licensee/supplier shall charge @ Rs.8,000/- for every span of line extension in addition to the above charges.

- (xi) A "Tatkal Scheme" for new connection is applicable to LT Domestic, Agricultural and General Purpose consumers.
- (xii) In case of installation with static meter/meter with provision of recording demand, the recorded demand rounded to nearest 0.5 KW shall be considered as the contract demand requiring no verification irrespective of the agreement. Therefore, for the purpose of





- calculation of Monthly Minimum Fixed Charge (MMFC) for the connected load below 110 KVA, the above shall form the basis.
- (xiii) LT Domestic, LT General Purpose and HT Bulk Supply Domestic consumers will get 10 paise/unit rebate for prompt payment of the bill within due date. Thereafter, if the bill is paid within the next due date, there shall be no Rebate/Delayed Payment Surcharge. But if it is paid beyond the next due date then there shall be a Delayed Payment Surcharge of 1% of the billed value for each month of delay.
- (xiv) The billing demand in respect of consumer with Contract Demand of less than 110 KVA should be the highest demand recorded in the meter during the Financial Year irrespective of the Connected Load, which shall require no verification.
- (xv) Three phase consumers with static meters are allowed to avail TOD rebate excluding Public Lighting, emergency supply to CGP, LT Domestic and LT General Purpose categories @ 20 paise/unit for energy consumed during off peak hours. Off peak hours has been defined as 10 PM in the evening to 6 AM of the next day.
- (xvi) Hostels attached to the Schools recognised and run by SC/ST Department, Government of Odisha shall get a rebate of Rs.2.40 paise per unit in energy charge under Specified Public Purpose category (LT / HT) which shall be over and above the normal rebate for which they are eligible.
- (xvii) Swajala Dhara consumers under Public Water Works and Sewerage Pumping Installation category shall get special 10% rebate if electricity bills are paid within due date over and above normal rebate.
- (xviii) During the statutory restriction imposed by the Fisheries Department, the Ice Factories located at a distance not more than 5 Km. towards the land from the sea shore of the restricted zone will pay demand charges based on the actual maximum demand recorded during the billing period.
- (xix) Poultry Farms with attached feed units having connected load less than 20% of the total connected load of poultry farms should be treated as Allied Agricultural Activities instead of General Purpose category for tariff purpose. If the connected load of the attached feed unit exceeds 20% of the total connected load then the entire consumption by the poultry farm and feed processing unit taken together shall be charged with the tariff as applicable for General Purpose or the Industrial Purpose as the case may be.
- (xx) The food processing unit attached with cold storage shall be charged at Agro-Industrial tariff if cold storage load is not less than 80% of the entire connected load. If the load of the food processing unit other than cold storage unit exceeds 20% of the connected load, then the entire consumption by the cold storage and the food processing unit taken





- together shall be charged with the tariff as applicable for general purpose or the industrial purpose as the case may be.
- (xxi) Drawal by the industries during off-peak hours upto 120% of Contract Demand without levy of any penalty has been allowed. "Off-peak hours" for the purpose of tariff is defined as a period from 10 PM in the evening to 6.00 A.M. of the next day. The consumers who draw beyond their contract demand during hours other than the off-peak hours shall not be eligible for this benefit. If the drawal in the off peak hours exceeds 120% of the contract demand, overdrawal penalty shall be charged on the drawal over and above the 120% of contract demand (for details refer Tariff Order). When Statutory Load Regulation is imposed then restricted demand shall be treated as contract demand.
- (xxii) General purpose consumers with Contract Demand (CD) < 70 KVA shall be treated as LT consumers for tariff purposes irrespective of level of supply voltage. As per Regulation 134 (I) of OERC Distribution (Conditions of Supply) Code, 2019 the supply for load above 5 KW upto and including 70 KVA shall be in 3-phase, 3 or 4 wires at 400 volts between phases.</p>
- (xxiii) Own Your Transformer "OYT Scheme" is intended for the existing individual LT domestic, individual/Group General Purpose consumers who would like to avail single point supply by owning their distribution transformer. In such a case licensee would extend a special concession of 5% rebate on the total electricity bill (except electricity duty and meter rent) of the respective category apart from the normal rebate on the payment of the bill by the due date. If the payment is not made within due date no rebate, either normal or special is payable. The maintenance of the 'OYT' transformer shall be made by DISCOM utilities. For removal of doubt it is clarified that the "OYT Scheme" is not applicable to any existing or new HT/EHT consumer.
- (xxiv) The rural LT domestic consumers who draw their power through correct meter and pay the bill in time shall get rebate of 10 paise per unit in addition to existing rebate for prompt payment.
- (xxv) 3% rebate over and above normal rebate shall be allowed on the bill to the LT domestic and single phase general purpose category of consumers only over and above all the rebates who pay the bill through digital mode. This rebate shall be applicable on the current month bill, if paid in full.
- (xxvi) 2% rebate shall be allowed to all pre-paid consumers on pre-paid amount.
- (xxvii) A Special rebate to the LT single phase consumers in addition to any other rebate, he is otherwise eligible for shall be allowed at the end of the financial year (the bill for month of March) if he has paid the bill for all the 12 months of the financial year consistently



- without fail within due date during the relevant financial year. The amount of rebate shall be equal to the rebate of the month of March for timely payment of bill.
- (xxviii)The Educational Institution (Specified Public Purpose) having attached hostel and / or residential colony who draw power through a single meter in HT shall be eligible to be billed 15% of their energy drawal in HT bulk supply domestic category.
- (xxix) The consumers of any category can get a Green Consumer Certification by DISCOMs, if 100% of their power requirement is met from renewable sources by DISCOMs. The consumer has to pay additional 50 paise per unit as premium over and above the normal rate of energy charges. This facility shall be in force for one year from the effective date of this order. The consumer has to apply the concerned DISCOM in advance for this purpose. This facility shall not be available to the consumers having Captive Generating Plants (CGPs).
- (xxx) The printout of the record of the static meter relating to MD, PF, number and period of interruption shall be supplied to the consumer wherever possible with a payment of Rs.500/- by the consumer for monthly record.
- (xxxi) Charging of electric vehicle through public charging system/station shall be covered under General Purpose (GP) category and single part tariff of Rs.5.50 per unit shall be applicable. The charging unit established by group housing society through a separate connection shall also be treated as public charging system/station.
- (xxxii) The Mega Lift consumers (who are using electricity for irrigation purpose and not covered under irrigation pumping and agriculture category of the Regulation) connected either to HT or EHT system shall be treated as GP consumers and shall not pay any demand charges and shall get an additional rebate of Rs.2 per unit (kVAh) on the respective energy charges.
- (xxxiii)LT Industrial (S) Supply consumers shall avail a rebate of 10 paisa per unit for all the units consumed if their monthly operating load factor is more than 60%.
- (xxxiv)Tariff as approved shall be applicable in addition to other charges as approved in this Tariff order w.e.f. 01.04.2022.



Annexure C

 The Open Access Charges i.e. Cross Subsidy Surcharge, Wheeling and Transmission Charge for Open Access consumer of 1MW and above for FY 2022-23 effective from 01.04.2022 as determined by the Commission are given in the table below:

Surcharge, Wheeling Charge & Transmission Charge for Open Access consumer IMW & above

Name of the	Cross Subsidy Surcharge (P/U)		Wheeling Charge P/U applicable to	Transmission Charges for Open Access Customer (applicable for
licensee	ЕНТ	нт	HT consumers only	HT & EHT consumers)
TPCODL	163.39	83.02	98.43	The Open Access customer
TPNODL	149,32	57.50	113.69	availing Open Access shall pay
TPWODL	123.19	53.60	77.12	Rs.6720/MW-day (Rs.280/MWh)
TPSODL	212.30	127.08	112.01	as transmission charges.

- The normative transmission loss at EHT (3.0%) and normative wheeling loss for HT level (8%) are applicable for the year 2022-23.
- Additional Surcharge: No additional surcharge over and above the Cross-Subsidy Surcharge needs to be given to the embedded licensee.
- The consumers availing renewable power through open access shall have to pay the transmission charge, wheeling charge and cross subsidy surcharge as applicable to consumers availing conventional power.
- These charges as notified for the FY 2022-23 will remain in force until further order.



10.6 TPNODL CAPEX PLAN DETAILS COPY:

TPNODL: CAPEX Approved Vis-a Vis Actual up to FY 2022-23

(Rs. Crore)

		7.0			(As. Crore)	
SI No.	Major Category	Vesting Order	Capex Approved	Actual Capex till 31-03- 2023	Capitalised till 31-03-2023	
FY 2	2021-22					
1	Statutory & Safety		28.45	20.97	19.86	
2	Loss Reduction		16.39	14.83	12.57	
3	Reliability	246.00	94.35	82.26	62.95	
4	Load Growth	246.00	21.71	22.76	22.51	
5	Technology & Infrastructure		97.88	89.19	87.53	
6	Disaster Mitigation			2	-	
	Total	246.00	258.78	230.00	205.41	
1	Statutory & Safety	4	9.35	16.56	15.05	
FY 2	2022-23					
2	Loss Reduction	7	12.53	11.11	7.13	
3	Reliability		60.18	49.82	27.13	
4	Load Growth	376.00	92.88	87.54	62.37	
5	Technology & Infrastructure		97.81	71.71	65.17	
6	Disaster Mitigation		53.79	10.57	6.72	
	Total	376.00	326.54	247.31	183.57	
Tota	d upto 31-03-2023		-263961014			
1	Statutory & Safety		37.80	37.53	34.91	
2	Loss Reduction		28.92	25.94	19.70	
3	Reliability		154.53	132.08	90.08	
4	Load Growth	622.00	114.59	110.30	84.88	
5	Technology & Infrastructure		195.69	160.90	152.70	
6	Disaster Mitigation		53.79	10.57	6.72	
-	Total	622.00	585.32	477.31	388.98	

SI. No.	Capex Head	Board Approved Capex	Capex as per revised DPR Submitted
1	Statutory & Safety	49.41	49.41
II	Loss Reduction	56.61	56.61
Ш	Reliability	118.06	118.06
IV	Load Growth	102.14	102.14
V	Technology & Infrastructure	121.60	121.60
VI	Reducing Carbon Footprint	4.98	4.98
	Total Proposed Capex	452.80	452.80



(Rs. in Crore)

SI No	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
1	Fencing of Distribution Substations	11.55	11.55	11.55
2	Boundary wall work at Primary Substations	10.73	10.73	10.73
3	Life enhancement of network and maintaining safe horizontal / vertical clearances	8.43	8.43	8.43
4	Yard Fencing with in PSS	0.98	0.98	0.98
5	Fire Extinguisher & Water Hydrant System for Jajpur Store	2.09	2.09	2.09
6	Fire wall for PTR "6Mtr*8Mtr"	1.14	1.14	1.14
7	Defective cable replacement	10.00	10.00	10.00
8	Shifting of O/H lines on safety ground on public request	4.34	4.34	4.34
9	Intrusion system for theft prevention is store	0.15	0.15	0.15
	Total	49.41	49,41	49.41

SI No	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
1	Testing equipment for Meter, Meter Reading, HT/LT Accucheck& other material.	5.91	5.91	5.91
2	Conversion of LT Bare conductor to AB Cable	43.35	43.35	43.35
3	Meters and metering equipment for energy audit	5.66	2.83	2.83
4	Equipment for AMR enablement of 3phase consumer meters	0.56	0.56	0.56
5	Field Testing equipment (PTR testing, PQ analizer, Switch gear testing kit)	7.93	3.96	3.96
	Sub-total	63.41	56.61	56.61



SI. No.	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
1	Replacement/Addition of network component in 33/11kV Primary Substation	20.36	10.18	
2	33 KV Conductor up gradation	10.74		-
3	11 KV Conductor up gradation	30.14	15.07	15.07
4	Refurbishment of 11KV/0.415 KV Distribution Substation (DSS)	3.11	3.11	3.11
5	Installation of LV protection at DSS	33.38	33.38	33.38
6	Installation of Auto reclosure /Sectionalizers, RMUs	15.04	7.52	7.52
7	Installation of FPIs for O/H Lines	1.86	1.86	1.86
8	Installation of AB Switch, HG Fuse & LA for DTRs	25.47	25.47	25.47
9	11 KV Voltage Regulators for voltage improvement	5.01	5.01	1.73
10	Installation of Station Transformers (PPS)	1.44	0.72	0.72
11	Procurement of spares and servicing for ODSSP & IPDS	1.45	1.45	14
12	Indoor Switch gear (AIS) for 33KV & 11KV	6.39	-	
13	Earthing of Transformer	14.29	14.29	14.29
t.	Sub-total	168.69	118.06	103.15

SI No	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
1	Augmentation of Power Transformer	5.23	2.60	2.60
2	Augmentation of Distribution Transformer	24.57	24.57	24.57
3	Addition of LT Lines	39.58	-	-
4	Addition of 11 kV Lines (O/H and U/G)	24.12	24.12	24.12
5	Addition of 33 kV Overhead Lines(O/H and U/G)	19.79	9.80	9.80
6	Addition of New PTR at PSS	5.08	5.08	5.08
7	Addition New DTRs along with Associated HT/LT lines	17.37	17.37	17.37
8	Network enhancement for unforeseen emergency	10.00	-	-
9	New 33/11kV PSS with Associated Lines	38.07	18.60	18.60
	Sub-total	183.81	102.14	102.14





(Rs. in Crore)

SI. No.	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
1	Security cameras, heavy-duty Racking system / Storage solutions for Jajpur store	1.50	1.50	1.50
2	Civil Infrastructure (Office Buildings, PSS,		29.68	29.68
3	Office Administration	5.75	5.75	3.95
4	Automation of Non-ODSSP & SCADA Integration	12.00	12.00	12.00
5	Bluetooth printer, cash drop box, RRG App	0.88	0.88	0.88
6	Data Recovery (DR) for Hardware Equipment	25.09	16.82	16.82
7	Data Centre (DC) for Hardware Equipment	3.50	3.50	3.50
8	End computing devices	6.35	0.75	0.75
9	Cyber Security	8.70	7.70	7.70
10	Communication	4.01	4.01	4.01
11	SCADA-ADMS, Computing devices	1.95	10.10	10.10
12	GIS Software Implementation and Land Base & Network Survey & Digitization for 9 Division	36.30	27.86	27.86
13	Additional left-out Budget of previous FY for GIS & SCADA	18.15	#	2
14	Software and Application	0.75	0.75	0.75
15	Drones and its licence	0.30	0.30	0.30
	Sub-total	167.64	121.60	119.80

SI. No.	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
1	Budget for Electric Scooter/Car	3.99	3.99	1.00
2	Rooftop Solar System on office building (Solar Roof top system (Corp office, circle offices, Balasore Store)	0.99	0.99	0.99
	Sub-total	4.98	4.98	1.99



consideration and to promote EV under pilot project, the Commission approves an amount of Rs.433.10 Cr. for the financial year 2023-24 against the TPNODL's CAPEX proposal of Rs.452.80 Cr. The details are shown in the table below:

TPNODL CAPEX Proposal and the Commission's approval for FY 2023-24

	MONUTA-0810 0 1250 0 1				in Crore)
SI. No.	Major Category	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
		Fencing of Distribution Substations	11.55	11.55	11.55
		Boundary wall work at Primary Substations	10.73	10.73	10.73
		Life enhancement of network and maintaining safe horizontal / vertical clearances	8.43	8.43	8.43
		Yard Fencing with in PSS	0.98	0.98	0.98
1	Statutory & Safety	Fire Extinguisher & Water Hydrant System for Jajpur Store	2.09	2.09	2.09
		Fire wall for PTR "6Mtr*8Mtr"	1.14	1.14	1.14
		Defective cable replacement	10.00	10.00	10.00
		Shifting of O/H lines on safety ground on public request	4.34	4.34	4.34
		Intrusion system for theft prevention is store	0.15	0.15	0.15
		Sub-total	49.41	49.41	49.41
	Loss Reduction	Testing equipment for Meter, Meter Reading, HT/LT Accucheck & other material.	5.91	5.91	5.91
		Conversion of LT Bare conductor to AB Cable	43.35	43.35	43.35
2		Meters and metering equipment for energy audit	5.66	2.83	2.83
2		Equipment for AMR enablement of 3phase consumer meters	0.56	0.56	0.56
		Field Testing equipment (PTR testing, PQ analyser, Switch gear testing kit)	7.93	3.96	3.96
		Sub-total	63.41	56.61	56.61
3	Reliability	Replacement/Addition of network component in 33/11kV Primary Substation	20.36	10.18	-
		33 KV Conductor up gradation	10.74		
		11 KV Conductor up gradation	30.14	15.07	15.07



SI. No.	Major Category	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
		Refurbishment of 11KV/0.415 KV Distribution Substation (DSS)	3.11	3.11	3.11
		Installation of LV protection at DSS	33.38	33.38	33.38
		Installation of Auto reclosure /Sectionalizers, RMUs	15.04	7.52	7.52
		Installation of FPIs for O/H Lines	1.86	1.86	1.86
		Installation of AB Switch, HG Fuse & LA for DTRs	25.47	25.47	25.47
		11 KV Voltage Regulators for voltage improvement	5.01	5.01	1,73
		Installation of Station Transformers (PPS)	1.44	0.72	0.72
		Procurement of spares and servicing for ODSSP & IPDS	1.45	1.45	9
		Indoor Swich gear (AIS) for 33KV & 11KV	6.39	-	-
		Earthing of Transformer	14.29	14.29	14.29
		Sub-total	168.69	118.06	103.15
		Augmentation of Power Transformer	5.23	2.60	2.60
		Augmentation of Distribution Transformer	24.57	24.57	24.57
		Addition of LT Lines	39.58	-	
	Network Optimisation	Addition of 11 kV Lines (O/H and U/G)	24.12	24.12	24.12
4		Addition of 33 kV Overhead Lines (O/H and U/G)	19.79	9.80	9.80
	& Load	Addition of New PTR at PSS	5.08	5.08	5.08
	Growth	Addition of New DTRs along with Associated HT/LT lines	17.37	17.37	17.37
		Network enhancement for unforeseen emergency	10.00	-	
		New 33/11kV PSS with Associated Lines	38.07	18.60	18.60
		Sub-total	183.81	102.14	102.14
	Technology	Security cameras, heavy-duty Racking system / Storage solutions for Jajpur store	1.50	1.50	1.50
5	and Civil Infrastructure	Civil Infrastructure (Office Buildings, PSS, Stores, Approach Roads, Record	42.41	29.68	29.68



SI. No.	Major Category	Activity	Capex Proposed in Original DPR	Revised Proposal based on BoD Approval	Approved by Commission
		room, Cafeteria Canteen, MRT office, STS office, STS Lab and others)		. 200	
		Office Administration	5.75	5.75	3.95
		Automation of Non-ODSSP & SCADA Integration	12.00	12.00	12.00
		Bluetooth printer, cash drop box, RRG App	0.88	0.88	0.88
		Data Recovery (DR) for Hardware Equipment	25.09	16.82	16.82
		Data Centre (DC) for Hardware Equipment	3.50	3.50	3.50
		End computing devices	6.35	0.75	0.75
		Cyber Security	8.70	7.70	7.70
		Communication	4.01	4.01	4.01
		SCADA-ADMS, Computing devices	1.95	10.10	10.10
		GIS Software Implementation and Land Base & Network Survey & Digitization for 9 Division	36.30	27.86	27.86
		Additional left-out Budget of previous FY for GIS & SCADA	18.15	-	
		Software and Application	0.75	0.75	0.75
		Drones and its licence	0.30	0.30	0.30
		Sub-total	167.64	121.60	119.80
		Budget for Electric Scooter/Car	3.99	3.99	1.00
6	Reducing Carbon Footprint	Rooftop Solar System on office building (Solar Roof top system (Corp office, circle offices, Balasore Store)	0.99	0.99	0.99
		Sub-total	4.98	4.98	1.99
		Total	637.94	452.80	433.10





 Accordingly, the year-wise and cumulative Capex approved by the Commission is shown in the table below:

Financial Year	Minimum Capex required as per Vesting Order (Rs Cr)	Capex Approved by the Commission (Rs Cr)
FY 2021-22	246.00	258.78
FY 2022-23	376.00	326.54
FY 2023-24	260.00	433.10
Cumulative Capex till FY 2023-24	882.00	1018.42

- The approved cost shall be passed in the ARR as per the norm subject to rational utilization by the petitioner and prudent check through audit.
- 31. In addition to the observations stated above, the Commission directs TPNODL to
 - (i) Prioritize the completion of important works like strengthening/expansion of distribution infrastructure, measures for loss reduction, metering, addressing overloading & low voltage issue etc. over the refurbishment of PSS (in non-ODSSP) for implementation of SCADA & work related to DR & DC etc.
 - Submit the Capex proposal along with the approval of Board of Director for FY 2024-25 onwards for consideration by the Commission.
 - (iii) Submit the Capital Investment Plan strictly adhering to the provisions of Wheeling & Retail Supply Tariff Regulations, Vesting Orders and the License Conditions prioritizing the operation area of TPNODL (indicating the name of Division & activities undertaken) for proposed investment.
 - (iv) Submit quarterly progress report for the works along with the details of materials utilised vis-à-vis various activities shown in the DPR.
 - Formulate implementation plan for the approved Capital Investment and take steps for execution accordingly to avoid cost and time overrun.
 - (vi) Procure the materials/award the contracts only through transparent competitive bidding process. The requirement of materials shall be prepared based on standardisation of distribution elements. The ratings of equipment / material including DTRs & PTRs need to be standardized across the Discoms and standard specifications need to the adopted across the Discoms.



- (vii) Effort should be made to optimise project cost with efficient project management and leveraging various technology options so that the benefit can be passed on to the consumers.
- (viii) Ensure that there is no duplication of work covered under the CAPEX approved for 2023-24 and the assets created/ to be created through Government Schemes/support.
- (ix) Planned new 33/11 kV substations shall have (N-1) contingency provision for incomer & Power Transformers (PTRs), double bus switching scheme/main & transfer bus scheme with Bus coupler and adequate space should be available in PSS for future expansion to avoid additional substations in the nearby areas.
- (x) TPNODL should have regular interaction with the OPTCL to ensure that the requirement of additional Grid Sub-stations (220/33 kV or 132/33 kV or 220/132/33 kV) are planned as per need of TPNODL which will help in resolving low voltage issues and at the same time the available 33 kV outlets from existing Grid Sub-stations of OPTCL should be utilised by TPNODL for their distribution system.
- (xi) Provide cost benefit analysis and quantification of benefits in terms of percentage of loss reduction, metering & billing, asset mapping, reduction in low voltage areas, reduction in tripping of 33 kV & 11 kV feeders, reduction in failure of equipment/material (PTRs, DTRs, CBs, SAs, etc.), and improvement in safety by reduction in fatal & non-fatal accidents of human being & animals etc. in different divisions of TPNODL's operating area due to addition of distribution infrastructure covered under the capex proposal for the FY 2023-24.
- (xii) Provide the financial plan for funding of capex proposal along with rate of interest for the FY 2023-24
- (xiii) The details of investment in development/augmentation of distribution infrastructure in various divisions of the TPNODL.
- (xiv) Submit details of compliances of the direction given in the Capex Orders of previous years.
- (xv) The system study report relating to installation capacitor banks.



- (xvi) TPNODL need to carry out load flow study of the distribution network for a longer time frame (at least 5 year) as directed during the approval of capex for the FY 2022-23.
- (xvii) Submit the status (on the date of taking over and as on 31.03.2023) of existing distribution system for each division indicating the achievement (quantification) in respect of following areas by September 2023:
 - Reduction in feeder / line / section length at 33kV & 11kV level;
 - Reduction in overloading of 33kV & 11kV lines, PTRS, DTRs;
 - · Reduction in low voltage pockets;
 - · Repairing of boundary walls for PSSs and fencing of DSSs;
 - . (N-1) contingency for PTRs and incomer at 33kV level in existing PSS;
 - Smart metering of 33kV & 11kV feeders, PTRs, DTRs, Govt & non-Govt. establishments & 3 phase consumers etc;
 - Provision of protection for 33kV & 11kV overhead lines & UG cable, PTRs & DTRs (primary & secondary side);
 - · Improvement in earthing in PSS &DSS;
 - Length (in ckt.km.) of overhead line converted and proposed to be converted to ABC in future.
- 32. Accordingly, the case is disposed of.

Sd/- Sd/- Sd/-

(S. K. Ray Mohapatra) (G. Mohapatra) (S. C. Mahapatra)
Member Member Chairperson



10.7 TPNODL VESTING ORDER:

ODISHA ELECTRICITY REGULATORY COMMISSION BIDYUT NIYAMAK BHAWAN PLOT NO. 4, CHUNUKOLI, SHAILASHREE VIHAR, BHUBANESWAR-751021

Present: Shri U. N. Behera, Chairperson Shri S. K. Parhi, Member Shri G. Mohapatra, Member

Case No. 9/2021

IN THE MATTER
OF:

Suo Motu Proceeding on sale of utility of NESCO under Section 20 of the Electricity Act 2003 and for vesting of Utility (NESCO) to the intending purchaser under Section 21 of the said Act.

And

IN THE MATTER OF:

Director (Regulatory Affairs), OERC

...... Designated Petitioner

Vrs.

Principal Secretary to Government,
Department of Energy, Government of Odisha,
Bhubaneswar -1 and Others Respondents

NESCO Power Engineer's Association

..... Intervenor

ORDER

Date of order: 25.03.2021

- North Eastern Electricity Supply Company of Odisha Limited (the "NESCO") was incorporated on 19th November 1997 under the Companies Act, 1956. Pursuant to the Odisha Electricity Reforms Act 1995 and Odisha Electricity Reforms Rules 1998, all the assets of GRIDCO pertaining to the distribution business in the Northern Zone of GRIDCO comprising districts of Balasore, Mayurbhanj, Keonjhar, Jajpur, and Bhadrak were transferred to NESCO.
- On 1st April 1999, 51% (fifty one percent) shares of GRIDCO in NESCO were transferred to BSES Limited selected through competitive bidding process. NESCO continued to be managed by BSES Limited and later by its successor R-Infra



Limited

- 3. Under Section 19 of the Electricity Act, 2003 (the "Act"), the Commission revoked license of NESCO with effect from Mar 2015 and appointed CMD, GRIDCO as the administrator under Section 20(d) of Act and vested the management and control of NESCO Utility along with their assets, interests and rights with the CMD, GRIDCO Limited. The order on revocation of licenses by the Commission was upheld by the Hon'ble APTEL in Appeal No. 64 of 2015 and has also been confirmed by the Hon'ble Apex Court vide their Order dated 24.11.2017 in Civil Appeal No.18500 of 2017.
- Thereafter, in terms of Section 20 of Act the Commission initiated a transparent and competitive bidding process for selection of an investor for sale of utility of NESCO and had issued the updated Request for Proposal (the "RFP") on 31.07.2020.
- In response to the said RFP, single bid was received by the bid due date. After
 detailed evaluation by independent bid evaluation committee set up by the
 Commission, The Tata Power Company Limited (the "TPCL") was recommended
 as the successful bidder and Commission accepted the same under Section 20(1)(a)
 of the Act.
- Thereafter, the Commission issued a Letter of Intent (the "LoI") to TPCL vide Letter No. OERC/RA/SALE of NESCO-26/2019(II)/160 dated 29.01.2021. TPCL communicated the acceptance of the LoI vide Letter No. T&D/BD/DOM/FY21/OERC/ NESCO/PPP/100 dated 05.02.021.
- 7. That as per the terms of the RFP, upon completion of sale, NESCO Utility shall vest in a special purpose vehicle (the "Project SPV" or "Operating Company") in which TPCL shall hold 51% (fifty one percent) equity shares and Government of Odisha ("GoO") shall hold 49% (forty nine percent) equity shares through GRIDCO.
- 8. The Commission vide letter No. OERC/RA/SALE OF NESCO-26 /2019 (Vol.II)/162 dated 29.01.2021 then directed GRIDCO to incorporate the SPV to which the utility of NESCO shall be vested and license of NESCO Utility shall be transferred. TP Northern Odisha Distribution Limited (the "TPNODL") will be incorporated as a wholly owned subsidiary of GRIDCO with an authorized share capital of Rs. 1000 crores (Indian Rupee One thousand crores) only and paid-up capital of Rs. 5 lakhs (Indian Rupee Five lakhs) only. TPNODL shall be the SPV in



- which TPCL and GRIDCO shall hold 51% (fifty one percent) and 49% (forty nine percent) equity shares respectively after the completion of sale.
- The Commission vide letter no. OERC/RA/SALE OF NESCO-26 /2019 (Vol.II)/162
 dated 29.01.2021 provided GRIDCO/ OPTCL the RFP Documents namely Share
 Acquisition Agreement, Shareholders Agreement, Bulk Supply Agreement and Bulk
 Power Transmission and SLDC Agreement for execution by concerned parties.
- 10. TPCL quoted a purchase price of Rs. 375 crores (Indian Rupee Three hundred seventy five crores) in its financial Bid in response to the RFP for 100% (one hundred percent) equity in the SPV. TPCL is required to pay 51% (fifty one percent) of the purchase price of Rs. 375 crores (Indian Rupee Three hundred seventy five crores) quoted in its Bid. As per terms of RFP, this amount is required to be deposited by TPCL with the Commission.
- The Commission vide letter No. OERC/RA/SALE of NESCO-26/2019(II)/160 dated 29.01.2021 (LoI) had directed TPCL to submit the Performance Guarantee and deposit the amount equivalent to 51% (fifty one percent) of the purchase price with the Commission.
- 12. TPCL vide letter No. T&D/BD/DOM/FY21/OERC/NESCO/PPP/113 dated 10.03.2021 communicated that they have deposited Rs.191.25 (Indian Rupee One ninety one crore and twenty five lakhs only) with the Commission which is 51% of the bid amount of Rs. 375 crore and submitted the Performance Guarantee of Rs. 150 crores (Indian Rupee One hundred fifty crores) as per the directions of the Commission.
- 13. The Commission vide letter No. OERC/RA/SALE of NESCO-26/2019(II)/161 dated 29.01.2021 directed TPCL that it is required to comply with the requirements of the Competition Act, 2002 and furnish a certificate on such compliances to OERC. TPCL vide its letter No. No. T&D/BD/DOM/FY21/OERC/NESCO/PPP/106 dated 09.02.2021 informed the OERC that they have filed the notice with the Competition Commission of India (CCI) seeking its approval for the proposed transaction, which was acknowledged by the CCI on 08.02.2021, M/s TPCL vide its letter No. T&D/BD/DOM/FY21/OERC/NESCO/PPP/113 dated 19.03.2021 communicated to the OERC that CCI vide its e-mail dated 19.03.2021 to the TPCL intimated that it considered the proposed combination and approved the same under sub-section (1)



- of Section 31 of the Act. This approval is with reference to the notice filed by the Tata Power Company Ltd. (TPCL/Acquirer) on 08.02.2021 under sub-section (2) of Section 6 of the Competition Act, 2002.
- As per the proviso to Section 21(a) of the Act, the debt, mortgage or similar obligation shall attach to the purchase price in substitution for the utility of NESCO.
- 15. The transaction related costs shall be deducted by the Commission from the purchase price deposited with the Commission by TPCL. The transaction related costs shall include the fees paid to transaction advisor and legal advisor engaged by the Commission for advising in sale of utility of NESCO, the cost of incorporation of TPNODL, the fees of auditors for audit of the annual accounts for the period from 01.04.2020 to 31.03.2021 of NESCO Utility as provided in the para 51 of this Order and the cost of incorporation of a residual company in which the liabilities of NESCO Utility shall remain, if decided by the Commission and any other cost as determined by the Commission (the "Transaction Process Costs").
- On 10.03.2021, the Director (Regulatory Affairs), OERC initiated the suo-motu petition as the Designated Petitioner with the following prayers to the Commission:
 - (a) To issue suitable directions to give effect to the vesting of utility of NESCO to TPNODL as per Section 21(a) of the Act.
 - (b) To issue suitable directions for attachment of purchase price to debt, mortgage or similar obligation of NESCO Utility as per proviso to Section 21(a) of the Act.
 - (c) To issue suitable directions for transfer of rights, powers, authorities, duties and obligations of the license under the license of NESCO Utility to TPNODL as per Section 21(b) of the Act.
- 17. The petition also stated that the following are required to be complied as per the provisions of the Act and the conditions of RFP:
 - (a) The paid-up share capital of TPNODL shall be Rs. 250 crores (Indian Rupee Two hundred and fifty crores) only. This is the reserve price for the utility as per the RFP.
 - (b) TPCL shall hold 51% (fifty one percent) equity shares and GRIDCO shall hold 49% (forty nine percent) equity shares in TPNODL. Share Acquisition



- Agreement and Shareholders Agreement shall be executed to this effect between TPCL and GRIDCO.
- (c) The Bulk Supply Agreement shall be executed between TPNODL and GRIDCO and the Bulk Power Transmission and SLDC Agreement shall be executed between TPNODL and Odisha Power Transmission Corporation Limited (the "OPTCL").
- (d) NESCO Utility shall be sold to TPNODL and the purchase price shall be received by the Commission. The Transaction Process Costs shall be deducted by the Commission from the purchase price deposited with the Commission by TPCL. As per Section 21(a) of the Act, such purchase price shall attach to the debt, mortgage or similar obligation of utility of NESCO. Remittance of this amount shall be as approved by the Commission.
- (e) The Administrator of NESCO Utility shall deliver the utility to TPNODL on 01.04.2021.
- (f) The Administrator of NESCO Utility shall be required to make available its provisional balance sheet as on 31.03.2021.
- (g) An opening balance sheet for TPNODL shall be carved out from the balance sheet of NESCO Utility as on 31.03.2021 to effect the transfer of the utility to TPNODL. The carved out balance sheet shall be as per the broad principles laid out in Annexure - 1.
- 18. The Commission decided to dispose of the petition registered as Case No. 09/2021 through a hearing of the concerned parties namely NESCO Utility, TPCL, GRIDCO, OPTCL and the Government of Odisha and accordingly issued notice to the parties directing them to file written submissions to the suo-motu petition and appear for the hearing on 18.03.2021. Accordingly, the parties have filed their written responses.
- The NESCO Power Engineer's Association requested the Commission to implead them as respondent in the proceeding. The Commission allowed the intervener to take part in the proceedings.
- 20. GRIDCO submitted its response with prayers related to suitable addressal of past dues on account of power purchase, non-servicing of loan and other dues. GRIDCO submitted that the arrear collection as committed by TPCL may be prioritised for



paying/ settling the outstanding dues of GRIDCO. GRIDCO suggested that TPCL may maintain a separate account for deposit and utilisation of the arrear towards GRIDCO dues with periodical reconciliation on quarterly/ monthly basis. GRIDCO further submitted that the Commission may consider recognising the net receivable after adjustment of the purchase and committed arrear collection by the operating company as on effective date as 'Regulatory Assets' and keep provision for amortisation of the same in future against the revenue gain to be achieved on AT&C loss trajectory as committed by the purchaser. GRIDCO has also submitted to frame an appropriate payment security mechanism for recovery of outstanding dues. GRIDCO has also submitted regarding payment of current dues of GRIDCO, Government of Odisha CAPEX Scheme loan outstanding, charge on current revenue in case of default in payment of BSP dues after utilising LC and PBG and capital expenditure committed by the TPCL.

- 21. OPTCL submitted that the Commission may issue appropriate orders making the successor organisation liable for making payment of revised transmission charges other applicable charges to OPTCL, if any prior to the date of vesting in case the energy quantum is revised by SLDC. OPTCL further submitted that the successor organisation be made liable for payment of any other dues of OPTCL receivable from NESCO which may appear in due course of transmission related activity of OPTCL.
- 22. TPCL filed its response with prayers such as removal of lien on escrow accounts, removal of corporate guarantee, mitigation of any tax impact on Deemed Licensee for subscription of equity in kind by GRIDCO, indemnification of TPCL from any claim of third party in relation to acquisition of the controlling stake in Deemed Licensee including the acquisition of controlling stake being stayed or reversed by a court of law (both in SAA & SHA), relaxation in AT&C loss levels and adjustment of the recovery of past arrears provided during the bidding process due to change in arrears in case any amnesty scheme/ Government scheme is launched.
- 23. Representatives from NESCO Power Engineer's Association submitted that the Commission may order to protect service condition of the employees which shall be applicable and continuance of present service regulation, for future post creations and appointment, no parallel cadre, adoption of DA as per State Government declaration, no lateral entry in any cadre, transparent recruitment process, no



modification or review of the AT&C loss target fixed by the Commission, restriction on creation of charge over any assets of NESCO, the new company to come under purview of CAG audit and RTI to ensure public trust and transparency and the vesting order to attain finality after acceptance and no further application for modification or review be entertained by the Commission.

- 24. The Commission conducted a hearing of the parties under suo-motu proceedings through video conference on 18.03.2021 in which the respondents as well as intervenors were heard by the Commission.
- 25. In the written submissions filed by the respondents, the Commission has observed that the respondents have agreed to enter into the following agreements:
 - (a) Share Acquisition Agreement shall be signed amongst GRIDCO, TPNODL and TPCL;
 - (b) Shareholders Agreement shall be signed between GRIDCO and TPCL;
 - (c) Bulk Supply Agreement shall be signed between GRIDCO and TPNODL; and
 - (d) Bulk Power Transmission and SLDC Agreement shall be signed between OPTCL and TPNODL.
- 26. The Commission further observed the following from the submissions made by the parties:
 - (a) TPNODL has been incorporated with an authorised share capital of Rs. 1000 crore and a paid-up share capital of Rs. 5 lakhs (Indian Rupee Five lakhs) only.
 - (b) The trade payables to GRIDCO (in the books of NESCO Utility) amounting to Rs. 249.95 crores (Indian Rupee Two hundred forty nine crores and ninety five lakhs) shall be converted to equity share capital of TPNODL. With this, the equity share capital shall be Rs. 250 crores (Indian Rupee Two hundred crores) only as required for the transaction. NESCO Utility has stated that it shall comply with the directions of the Commission in this regard. The Commission is concluding that the proposed transaction structure has been agreed among all the parties- GRIDCO, NESCO Utility and TPCL.
 - (c) As per the Share Acquisition Agreement, TPCL shall acquire 51% (fifty one percent) of the equity shares of TPNODL. Therefore, TPCL and GRIDCO



- shall hold 51% (fifty one percent) and 49% (forty nine percent) of the equity shares respectively in TPNODL with effect from 01.04.2021.
- (d) The utility and license of NESCO Utility shall be transferred to TPNODL on 01.04.2021.
- (e) GRIDCO and TPNODL shall execute the Bulk Supply Agreement on or before 01.04.2021. This agreement incorporates the terms of RFP related to power procurement conditions and establishment of payment security mechanism(s).
- (f) OPTCL and TPNODL shall execute the Bulk Power Transmission and SLDC Agreement on or before 01.04.2021. This agreement incorporates the terms related to payment of transmission and SLDC charges and establishment of payment security mechanism(s).
- (g) The purchase price after deducting Transaction Process Costs determined by the Commission shall be remitted to GRIDCO for extinguishment of past liabilities of NESCO and NESCO Utility towards power purchase cost from GRIDCO. NESCO Utility shall comply with the directions of the Commission in this regard.
- (h) From the provisional accounts of NESCO Utility as of 31.03.2021, a provisional opening balance sheet for the utility transferred to TPNODL shall be prepared. This shall be done in accordance with the principles laid out in the Amexure 1. Thereafter based on statutory audit of NESCO Utility, the provisional accounts of NESCO Utility as of 31.03.2021 shall be updated to prepare the final accounts. This shall be done on or before 30.09.2021 and shall be submitted to the Commission. From the final accounts of NESCO Utility, the actual opening balance sheet of TPNODL shall be finalized based on the principles as laid out in Annexure 1 and shall be submitted to the Commission.
- (i) As per the Shareholders Agreement, TPCL and GRIDCO shall maintain 51% (fifty one percent) and 49% (forty nine percent) shareholding respectively at all times and any future equity investment from GRIDCO in TPNODL shall be either in form of cash, kind or any other consideration as decided by GRIDCO in accordance with the Shareholders Agreement.



- (j) The RFP provided the principles for carving out the balance sheet of TPNODL from the balance sheet of NESCO Utility. Following these principles, an indicative opening balance sheet as of 01.04.2020 had been prepared based on the latest audited accounts of NESCO Utility as of 31.03.2020. The revised provisional opening balance sheet of the proposed Operating Company as of 01.04.2020 has been prepared and is provided at Annexure 2.
- The Commission has taken cognizance of the communications and submissions of all the parties till date and now issues this Vesting Order.

ORDER OF THE COMMISSION

- As per Section 21(a) of the Act, the utility of NESCO shall be vested in TPNODL
 with effect from 01.04.2021 (the "Effective Date") subject to completion of sale
 and delivery of the utility to TPNODL.
- 29. The Commission approves the transaction structure proposed by the parties. TPNODL has been incorporated with a paid-up share capital of Rs. 5 lakhs (Indian Rupee Five lakhs). The trade payables to GRIDCO (in the books of NESCO Utility) amounting to Rs. 249.95 crores (Indian Rupees Two hundred forty nine crores and ninety five lacs) only shall be converted to equity share capital of TPNODL. With this, the equity share capital shall be Rs 250 crores (Indian Rupee Two hundred fifty crores) only. TPCL shall purchase equity shares equivalent to 51% (fifty one percent) of the equity share capital in TPNODL from GRIDCO at the premium of Rs. 63.75 crores (Indian Rupee Sixty three crores and seventy five lakhs) only by paying to GRIDCO an amount of Rs. 191.25 crores (Indian Rupee One hundred ninety one crores and twenty fifty lakhs) only.
- 30. The amount of Rs. 191.25 crores (Indian Rupee One hundred ninety one crores and twenty five lakhs) only is already deposited by TPCL with the Commission as per the requirement of RFP documents. The Commission shall, after vesting of utility of NESCO with TPNODL, remit the amount after deducting the Transaction Process Costs incurred by the Commission for the sale process directly to GRIDCO. Suitable accounting adjustments may be made in the financial statements of NESCO Utility and GRIDCO to this effect.
- If the Administrator of NESCO Utility delivers the utility to TPNODL but the sale does not get completed in its entirety by 01.04.2021, TPNODL shall, as per Section



20(4) of the Act, operate and maintain the utility for a maximum period of upto 7 (seven) days from 01.04.2021, pending completion of transaction. In case transaction is not completed in its entirety within such extended period, then the Commission may, at its discretion, either grant extension on day by day basis or cancel the LoI. The decision of the Commission shall be final in this regard.

TERMS OF VESTING

- 32. As per Section 21(a) of the Act, the utility shall vest in TPNODL free from any debt, mortgage and similar obligation of NESCO and NESCO Utility except for certain serviceable liabilities that are being transferred to TPNODL along with mechanism for funding of such liabilities as provided in para 52 of this Order.
- 33. As per Section 21(b) of the Act, the rights, powers, authorities, duties and obligations of the license under NESCO Utility's license shall stand transferred to TPNODL on Effective Date upon delivery of utility on the same date. The amended license shall be issued by the Commission within 90 (ninety) days from the Effective Date.
- With the transfer of utility of NESCO and license, the rights and responsibilities of NESCO utility shall transfer to TPNODL with effect from 01.04.2021.

35. Performance Guarantee

- (a) As per the terms of RFP, TPCL has provided to the Commission Performance Guarantee of Rs. 150 crores (Indian Rupee One hundred and fifty crores) with following details:
 - (i) Bank Guarantee (PBG) No. OGT0005210052060 for an amount of Rs. 110 crores (Indian Rupees One hundred and ten crores) from INDUSIND BANK LTD., 78 Janpath, Kharvelnagar, Bhubaneshwar with expiry date of 31.03.2024 and claim date of 31.03.2025.
 - (ii) Bank Guarantee (PBG) No. 0393NDLG00261821 for an amount of Rs. 40 crores (Indian Rupees Forty crores) from ICICI Bank Ltd., Mega Branch, Bhubaneswar with expiry date of 31.03.2024 and claim date of 31.03.2025.
- (b) As per the terms of the RFP, the Performance Guarantee(s) shall be renewed till the completion of 15 (fifteen) years from the Effective Date by TPCL at





least 30 (thirty) days before the expiry date of such Performance Guarantee.

- (c) Upon satisfactory performance of TPNODL for a period of 5 (five) years from the Effective Date, and TPNODL having met all its obligations in regard to the performance and commitments made as part of its Bid in response to the RFP as determined by the Commission in performance review as per para 57 of this Order, the value of the Performance Guarantee shall be reduced to half of the original amount in para 35(a) above i.e. Rs. 75 crores (Indian Rupee Seventy five crores).
- (d) The existing bank guarantee as per clause 35(a) shall be returned to TPCL on submission of a revised Performance Guarantee of Rs. 75 crores (Indian Rupee Seventy five crores) by TPCL which shall initially be valid for 3 (three) years and thereafter renewed every year by TPCL till the end of the 10th (tenth) year from the Effective Date.
- (e) Further, the Commission, on satisfactory performance of TPNODL between the 6th (sixth) and the 10th (tenth) year of operations, may further reduce the Performance Guarantee to 25% (twenty five percent) of the original amount in para 35(a) above i.e. to Rs 37.5 crores (Indian Rupee Thirty seven crores and fifty lakhs). The same shall be required to be maintained by TPCL till the end of the 15th (fifteenth) year from the Effective Date.
- (f) The reduced Performance Guarantee shall be refunded to TPCL at the end of the 15th (fifteenth) year from the Effective Date.
- (g) TPCL shall restore the Performance Guarantee to its original amount within 30 (thirty) days of its being encashed. Failure to restore the Performance Guarantee to its original value shall result in non-compliance of the license conditions and the Commission shall then act as per the relevant provisions provided under the Act.
- (h) The Performance Guarantee may be encashed for any reasons as follows:
 - Failure to meet loss reduction target as specified in para 40(b);
 - (ii) Failure to collect Past Arrears as per para 43(e);
 - (iii) Failure to pay the Bulk Supply Price and Transmission Charges as per para 37 and 38; or



(iv) Any other reason as mentioned in the RFP and required under the license conditions.

36. Power Procurement conditions

- (a) GRIDCO, a wholly owned company of the State Government, is engaged in the business of purchase of electricity in bulk from various Generators located inside and outside Odisha and the State share of power from the Central Generators for supply in bulk to the four distribution utilities in the State. Pursuant to the Government of Odisha notification No. PPD-II-2/05 (pt) 7947, Bhubaneswar dated 17.08.2006, GRIDCO is notified as the "State Designated Entity" to sign the Power Purchase Agreements (PPA) for procurement of all forms of power from different Generators. The terms of sale of power by GRIDCO to TPNODL shall be governed under the Bulk Supply Agreement.
- (b) In order to fulfil its obligation as the bulk supplier in the State, GRIDCO has signed PPAs to meet the existing as well as future demand of power for the retail supply licensees in the State. As of 24.06.2020, the list of PPAs tied up by GRIDCO along with details, such as quantum, supply start date and supply end date are as provided in Amexure - 4.
- (c) If in the opinion of GRIDCO, at any time during the term of license of TPNODL, the PPAs provided in Annexure – 4 are insufficient to meet the power purchase requirement of the retail supply licensees, then GRIDCO may sign additional PPAs with prior consultation with TPNODL, other retail supply licensees in the State and prior approval of the Commission. Such consultation shall also be required in case GRIDCO signs any PPAs to procure power from renewable energy sources to fulfil its Renewable Purchase Obligation targets set under the regulations and orders of the Commission.
- (d) Till the time GRIDCO expresses its ability to meet the power purchase requirement of TPNODL from the PPAs provided in Annexure - 4 and any additional PPAs signed as per para 36(c) above, TPNODL shall be obligated to meet the full extent of its power purchase requirement from such PPAs from GRIDCO.
- (e) In case GRIDCO conveys, in writing, its inability to make available any quantum of power requisitioned by TPNODL, such incremental quantum may



be procured directly by TPNODL from alternative source, provided that such alternative source is selected through a transparent and competitive process and with the prior approval of the Commission.

Payment security mechanism for payment of BSP bills

- (a) In order to ensure security to GRIDCO for payment of its Bulk Supply Price (BSP) bills in full, TPNODL would need to provide GRIDCO with a revolving letter of credit facility backed by necessary security including Corporate Guarantee, if required, by the TPCL for an amount equivalent to the average BSP bills of 2 (two) months as a primary payment security mechanism. This Letter of Credit would be opened and maintained as per the provisions laid out in the Bulk Supply Agreement.
- (b) In case of failure of GRIDCO to recover its dues through this letter of credit mechanism, it can approach the Commission with a request to encash the Performance Guarantee to the extent of the shortfall in the payment of BSP bills. Encashment of the Performance Guarantee would be at the sole discretion of the Commission. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order. The Commission shall provide TPNODL and/or TPCL with a reasonable opportunity to be heard before encashment of Performance Guarantee.

38. Payment security mechanism for payment of transmission and SLDC charges

- (a) In order to ensure security to OPTCL for payment of transmission and SLDC charges in full, TPNODL would need to provide OPTCL with 2 (two) separate revolving letters of credit facilities backed by necessary security including Corporate Guarantee, if required, by the TPCL as payment security for transmission charges and SLDC charges. The amount of letters of credit shall be equivalent to the average transmission charges and average SLDC charges of 2 (two) months respectively. These letters of credit would be opened and maintained as per the provisions laid out in the Bulk Power Transmission and SLDC Agreement.
- (b) In case of failure of OPTCL to recover its dues through this letter of credit mechanism, it can approach the Commission with a request to encash the



Performance Guarantee to the extent of the shortfall in the payment of transmission charges and SLDC charges. Encashment of the Performance Guarantee would be at the sole discretion of the Commission. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order. The Commission shall provide TPNODL and/or TPCL with a reasonable opportunity to be heard before encashment of Performance Guarantee.

39. Capital investment plan

- (a) The RFP required the bidders to provide a capital expenditure plan for first 5 (five) years of licensed operations as part of their bid.
- (b) In its Bid submitted in response to the RFP, TPCL committed capital expenditure of Rs. 1,270 crores (Indian Rupee One thousand two hundred and seventy crores) only for period FY 2021-22 to FY 2025-26 as follows:

Table 1: Capital Expenditure Commitment by TPCL

Capex Commitment (INR Cr)						
FY22	FY23	FY24	FY25	FY26	Total	
246	376	259	247	141	1,270	

(c) To allow flexibility in the capital expenditure planning, the Commission stipulates that, in the capital expenditure plan to be submitted by TPNODL as per the license conditions, the capital expenditure commitment for each year of the period FY 2021-22 to FY 2025-26 must be such that capital expenditure proposed up to a year shall be at least equal to the cumulative capital expenditure committed up to that year in the Bid submitted by TPCL. For avoidance of doubt, the minimum cumulative capital expenditure to be proposed by TPNODL for the period FY 2021-22 to FY 2025-26 must be as provided in the table below:

Table 2: TPCL Cumulative Capital Expenditure for 5 years

	Cumulative	Capex Expendit	ure (INR Cr)	
Upto 31-	Upto 31-	Upto 31-	Upto 31-	Upto 31-
Mar-2022	Mar-2023	Mar-2024	Mar-2025	Mar-2026



	Cumulative	Capex Expendit	ure (INR Cr)	
Upto 31- Mar-2022	Upto 31- Mar-2023	Upto 31- Mar-2024	Upto 31- Mar-2025	Upto 31- Mar-2026
246	622	882	1,129	1,270

- (d) TPNODL would be required to seek the Commission's approval on the detailed capital expenditure plan in line with the regulations. TPNODL shall satisfy the Commission that the capital expenditure plan submitted in line with regulations adheres to the capital expenditure plan submitted as part of the Bid.
- (e) The Commission will evaluate the performance of TPNODL at the end of 3rd (third) and 5th (fifth) financial year of operation. Failure to incur cumulative committed capex or meet the timelines committed as part of Bid may lead to imposition of a penalty which may be in the form of encashment of Performance Guarantee. However, before encashment of Performance Guarantee, the Commission will notify TPCL and will allow TPCL to wire transfer the penalty amount within notified timelines. Failure to transfer the amount within the timelines will lead to encashment of Performance Guarantee. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order. The Commission shall provide TPNODL and/ or TPCL with a reasonable opportunity to be heard before encashment of Performance Guarantee.
- (f) The penalty amount from wire transfer or encashment of TPCL's Performance Guarantee shall be transferred to the TPNODL and the same shall be deducted by the Commission during the true-up process or future Aggregate Revenue Requirement so that the benefit of the penalty amount, so collected, is passed on to consumers.
- (g) The capital investments made by TPNODL shall be allowed recovery of depreciation in line with the rates prescribed in Annexure – 3 till the time applicable regulation is notified by the Commission. The depreciation rates specified in regulations shall prevail over the rates specified in Annexure – 3 as and when applicable regulation is notified by the Commission.
- (h) Depreciation on all existing assets transferred to TPNODL shall be determined based on the existing methodology being followed by the Commission.



(i) The funding on account of the various ongoing schemes of the Government of Odisha will be made available to TPNODL as and when available and applicable.

40. AT&C loss targets

(a) As per terms of the RFP, the bidders were required to provide AT&C loss trajectory for first 10 years of operations i.e. FY 2021-22 to FY 2030-31 with the condition that the AT&C loss level in FY 2023-24 and FY 2025-26 shall not be higher than 21.5% and 16.0% respectively. As part of its Bid, TPCL has provided the AT&C loss reduction trajectory shown in the following table:

Table 3: AT&C Loss Trajectory Commitment by TPCL

AT&C Loss Trajectory (%)									
FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31
24.32	22.32	20.80	17.80	15.50	12.50	11.50	10.50	9.50	8.90

(b) As stated in the RFP, the Commission shall review the performance of TPNODL at the end of FY 2023-24 and FY 2025-26 to ascertain whether the committed AT&C loss targets have been achieved. In case of failure to achieve the targets, the Commission shall have the right to recover the penalty amount by encashing the Performance Guarantee for any shortfall in meeting the AT&C loss targets committed by TPCL in its Bid and/or revoke the license of TPNODL. TPCL shall be liable to pay a penalty of Rs. 40 crores (Indian Rupee Forty crores) for every 1% (one percent) shortfall in meeting the committed AT&C loss targets, or proportionately for a part thereof, found as a result of the Commission's review at the end of the FY 2023-24 and FY 2025-26. For the purpose of clarity, for example, if at the end of FY 2023-24, TPNODL has achieved an AT&C loss of 22.00%, vis-à-vis the committed target of 20.80% (being the committed AT&C loss for FY 2023-24 provided in Table 3), an amount of Rs. 48 crores, being [Rs. 40 crores x (22.00 - 20.80)], shall be recovered by the Commission by way of encashment of the Performance Guarantee. However, before encashment of Performance Guarantee, the Commission will notify TPCL and will allow TPCL to wire transfer the penalty amount within notified timelines. Failure to transfer the amount within the timelines will lead to encashment of Performance



Guarantee. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this Order. The Commission shall provide TPNODL and/or TPCL with a reasonable opportunity to be heard before encashment of Performance Guarantee.

- (c) The penalty amount from wire transfer or encashment of TPCL's Performance Guarantee shall be transferred to the TPNODL and the same shall be deducted by OERC during the true-up process or future Aggregate Revenue Requirement so that the benefit of the penalty amount, so collected, is passed on to consumers.
- (d) The penalty for non-achievement of AT&C loss targets may be relaxed by the Commission under conditions of Force Majeure, including acts of God, acts of GoO or the Government of India (de jure or de facto) or regulatory body or public enemy, war, riots, embargoes, industry-wide strikes, thereby, hindering the performance by TPNODL or any of its obligations hereunder. The Commission's decision in this regard shall be final and binding on all parties.
- 41. AT&C Loss Trajectory for tariff determination
 - (a) As part of the RFP, the Commission provided the following 10-year AT&C loss trajectory to be adopted for determination of tariff for period FY 2021-22 to FY 2030-31:

Table 4: 10-year AT&C Loss Trajectory for Tariff Determination

	A	T&C Lo	ss Traje	ctory for	Tariff I	Determin	ation (%	6)	
FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31
19.17	19.17	17,09	15.00	13.83	12.76	11.77	10.85	10.00	9.50

(b) TPNODL would be entitled to retain any gains resulting from its meeting and surpassing the AT&C loss trajectory for tariff determination. Such gains would be over and above the return on equity allowed by the Commission as part of OERC (Terms and Conditions for Determination of Wheeling Tariff and



Retail Supply Tariff) Regulations 2014 (the "Tariff Regulations") and shall not be adjusted as other income or in any way appropriated through any truing up process or future Aggregate Revenue Requirement process.

42. Payment of BSP for the month of March, 2021

On the Effective Date, BSP bills for the month of March, 2021 to be raised in April, 2021 will be outstanding. TPNODL will be required to pay the bill after taking over.

- 43. Recovery of Past Arrears and incentives thereon
 - (a) As part of the RFP, bidders were required to provide a commitment to recover Past Arrears from live as well as permanently disconnected consumers in the first 5 (five) years of operations. This was one of the criteria for evaluation of bids.
 - (b) As per the incentive mechanism for sharing of Past Arrears collection provided in the RFP, TPNODL shall be eligible for an incentive of 10% (ten percent) on Past Arrears collected from live consumers and 20% (twenty percent) on Past Arrears collected from permanently disconnected consumers. Such incentive would be on the amount of Past Arrears collected from the consumers, net of all taxes and duties recovered from consumers. However, collections from current live consumers may first be appropriated towards current bill and then towards Past Arrears. In this regard, the Deemed Licensee is expected to keep a separate records/ account and information regarding Past Arrears and their collection in each consumer's ledger. The cost incurred by TPNODL for such recovery of Past Arrears will not form a part of Aggregate Revenue Requirement of TPNODL.
 - (c) TPCL has committed to the recovery of following quantum of Past Arrears in its bid:

Table 5: TPCL Past Arrear Recovery Commitment

Commitment of Collection of Past Arrears (INR Cr)					
FY22	FY23	FY24	FY25	FY26	Total
50	120	100	80	50	400

(d) As stated in the RFP, the Commission shall review the performance of TPNODL vis-à-vis its commitment to collect Past Arrears, at the end of FY





- 2025-26, on an aggregate cumulative basis, by when TPNODL is required to meet the commitment of Past Arrears collection for the entire period of 5 (five) years.
- (e) Failure to meet the committed Past Arrears collection target at the end of FY 2025-26 shall lead to encashment of Performance Guarantee, to the extent of 10% (ten percent) of such shortfall, as computed at the end of FY 2025-26. For the purpose of clarity, for example, if at the end of the FY 2025-26, TPNODL has achieved Past Arrears collection of Rs. 370 crores (Indian Rupees Seventy crores) only vis-à-vis the committed target of Rs. 400 crores (Indian Rupees One hundred crores) only, an amount of Rs. 3 crores (Indian Rupee Three Crores) only, being [10% x (Rs. 400 crores - Rs. 370 crores)], shall be recovered by the Commission by way of encashment of the Performance Guarantee. The Commission's decision in this regard shall be final and binding on all parties. However, before encashment of Performance Guarantee, the Commission will notify TPCL and will allow TPCL to wire transfer the penalty amount within notified timelines. Failure to transfer the amount within the timelines will lead to encashment of Performance Guarantee. Upon encashment, TPCL shall be required to replenish the Performance Guarantee to its original value as provided in para 35(g) of this
- (f) The penalty amount from wire transfer or encashment of Performance Guarantee shall be transferred to TPNODL and the same quantum shall be deducted by OERC during the true-up process or future Aggregate Revenue Requirement so that the benefit of the penalty amount, so collected, is passed on to consumers.
- (g) The Past Arrears recovered from consumers, after deducting the incentive of TPNODL, shall be dealt with in manner specified in para 52 of this Order. In case the Additional Serviceable Liabilities stated in para 52 of this Order are extinguished, then the Past Arrears recovered after deducting the incentive shall be paid to GRIDCO. After the past liabilities of GRIDCO are extinguished, the Past Arrears recovered after deducting the incentive shall be paid to OPTCL for outstanding transmission and SLDC charges of NESCO Utility.



- (v) Failure to restore the Performance Guarantee as per para 35(g); or
- (vi) Failure to meet the cumulative capital investment commitment at the end of 5th (fifth) year as per para 39.

TRANSFER OF LICENSE

- As per Section 21(b) of the Act, the rights, powers, authorities, duties and obligations of the NESCO Utility under its license dated 27.10.2006 issued by the Commission shall stand transferred to TPNODL upon completion of sale.
- 60. TPNODL shall be the licensee to carry out the function of distribution and retail supply of electricity covering the distribution circles of Balasore, Bhadrak, Baripada, Jajpur and Keonjhar in the state of Odisha for a period of 25 (twenty five) years from 01.04.2021 unless the LoI is cancelled or this Order is withdrawn pursuant to para 31 of this Order.
- 61. Under Section 16 of the Act, the Commission has powers to lay down the license conditions of TPNODL. To incorporate the terms of the sale process and commitments made by TPCL in its Bid, the Commission shall through a separate order, amend the license conditions applicable to TPNODL.
- 62. The order amending license conditions shall be issued within 90 (ninety) days from the Effective Date. Till the time amended license is granted, the provisions of this Order and the rights, powers, authorities, duties and obligations specified in the existing license of NESCO Utility shall apply to TPNODL.



OTHER ORDERS OF THE COMMISSION

- The ongoing government schemes under capital work in progress are being transferred to TPNODL. TPNODL is not allowed to use this capital amount for any other purpose.
- 78. The Commission notes that some amount of grants provided by the GoO in the past for various works is lying unspent in NESCO Utility at present. TPNODL shall ensure that any funds provided for specific purposes by GoO to NESCO Utility in the past which remains unutilized as on the Effective Date, along with interest earned on such funds, must be accounted for separately and utilized for those purposes as specified in the sanction order from time to time. Such schemes shall be jointly monitored by GoO, GRIDCO, OPTCL and TPNODL. In this regard, the Commission directs that TPNODL shall agree to the terms and condition for utilization of such grants through an agreement with GRIDCO/ GoO/ OPTCL. For new schemes formulated by the GoO, if TPNODL wishes to avail funding under such scheme, an agreement shall be signed between GoO/ GRIDCO/ OPTCL and TPNODL for utilization of such grants.
- 79. TPNODL or TPCL shall not be allowed to create any charge or encumbrance on the following throughout the term of the License:
 - (a) Fixed assets transferred to TPNODL as part of this Order; and
 - (b) Financial assets corresponding to Consumer Security Deposits.

Further, TPNODL or TPCL shall free the above listed assets from any

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encumbrances/ charges that may exist on these assets as per the opening balance sheet of TPNODL as on Effective Date within a fixed time frame, not later than full 5 (five) Financial Years of operations from the Effective Date, as may be approved by the Commission.

- In addition to para 79, TPNODL shall not create any charge or encumbrance over other assets of TPNODL, including but not limited to receivables of TPNODL, without prior approval of the Commission.
- 81. TPCL in its submission has made certain prayers for redressal. Such prayers include relaxation in AT& C loss levels, removal of lien on Escrow accounts, past arrear recovery, removal of corporate guarantee, mitigation of tax impact on account of transfer of assets by GRIDCO and indemnification from any third party claim on acquisition of stake in TPNODL. The Commission is not inclined to provide any concessions/ further clarifications in this regard as the conditions of the RFP and RFP Documents namely Share Acquisition Agreement, Shareholders Agreement, Bulk Supply Agreement and Bulk Power Transmission and SLDC Agreement provided with the RFP are amply clear.
- 82. With regards to the prayer of TPCL for removal of Escrow, it may be noted that continuation of Escrow account had not been envisaged in the RFP. Regarding payment of BSP bills to GRIDCO, adequate payment security mechanism in the form of Letter of Credit for an amount equivalent to 2 (two) months' BSP bills has been provided in para 37 of this order. Once the LC as mentioned above is made available there is no need for continuation of Escrow mechanism that was an arrangement with the earlier distribution licensee, when LC was not being provided. Binding down the cash flow of the Operating Company through an Escrow mechanism even after the LC for 2 (two) months' BSP bill is made available will severely constrain the operational flexibility of the Operating Company for meeting its expenses approved in the ARR and affect its efficient functioning. Regarding GRIDCO's concern for collection of its past receivables from the DISCOM, the Operating Company is not liable to pay those dues except as provided for in this Order. The purchase consideration is being remitted to GRIDCO against its past dues as per Section 21(a) of the Act. In addition, para 43 of this Order provides an additional mechanism for recovery of the past receivables of GRIDCO. Continuance of Escrow to secure its past receivable is not in conformity with Section 21 (a) of the



Act since the successor DISCOM cannot be forced to discharge the liabilities of the predecessor DISCOM. With adequate measures in conformity with the Act provided in this Order, there exists no sufficient ground for continuing with the Escrow arrangement that had been made with the earlier Licensee. The Commission therefore directs that within 7 (seven) days of opening of Letter of Credit by TPNODL, the escrow arrangement shall be discontinued and any lien/charge created on the bank account/Escrow account of TPNODL shall be vacated.

- 83. In case of any conflict between this Order and the provisions of RFP or RFP Documents namely Share Acquisition Agreement, Shareholders Agreement, Bulk Supply Agreement and Bulk Power Transmission and SLDC Agreement, the decision of the Commission shall be final.
- 84. The Commission shall not allow recovery or true up of costs owing to tax implications or any other costs arising out of this transaction in any manner except stamp duty on transfer of asset. The Commission directs TPCL and GRIDCO to ensure that necessary steps be taken while executing the transaction so as to not burden the consumers due to taxes and duties arising out of this transaction.
- 85. The terms of this Vesting Order shall be final and binding on the parties. The parties shall not be allowed to make any further submissions with regard to the matters dealt with in this Vesting Order.
- 86. The suo-motu proceeding is accordingly disposed off.

Sd/- Sd/- Sd/
(G. Mohapatra) (S.K. Parhi) (U. N. Behera)

Member Member Chairman



CERTIFIED COPY OF SECTOR SPECIFIC PROFORMA



My lur ruplan

	G	eneral Info	rmation		
1	Name of the DISCOM			TPNODL	
2	i) Year of Establishment		1,77,000	st April 2021	
	ii) Government/Public/Private		Public 1	Private Partnership	
3	DISCOM's Contact details & Addre	255			
i	City/Town/Village	TP NOR	THERN ODI	SHA DISTRIBUTION	LIMITED
ii	District			Balasore	
iii	State	ODIS	HA	Pin	756019
iv	Telephone	06782-2	44865	Fax	06782-24425
4	Registered Office			M	
i	Company's Chief Executive Name		Mr.	Bhaskar Sarkar	
ii	Designation		Chief	Executive Officer	
iii	Address	TPNOR	THERN ODE	SHA DISTRIBUTION	LIMITED
iv	City/Town/Village	Janug		P.O.	Janugani
v	District		and a	Balasore	
vi	State	ODIS	HA	Pin	756019
vii	Telephone	06782-2	14865	Fax	06782-244259
5	Nodal Officer Details*				
i	Nodal Officer Name (Designated at DISCOM's)	Mr. Dushyant Kumar Tyagi			
ii .	Designation		Chief-Comr	percial Services & CSR	
iii	Address			Balasore	
iv	City/Town/Village	Janug	anj	P.O.	Janugani
Y	District	- American	1000	Balasore:	
vi	State	Odisl	ha	Pin	756019
vii	Telephone	997155	5724	Fax	NA.
6	Energy Manager Details*		Alternative and the second		
i	Name	237697340	Mr. N	Manish Kriplani	
ii	Designation	HOD (Energ	y Audit)	Whether EA or EM	NA.
iii	EA/EM Registration No.			NA	
iv	Telephone	9799493	5503	Fax	NA.
v	Mobile	9799495503	E-mail ID	manish kriplanie	Prgnodi.com
7	Period of Information			WE DE CONTRACTOR	Sellen i
	Year of (FY) information including Date and Month (Start & End)		1st April	2022 - 31st Mar 2023	

Sushyant Tyagi
Chiel Commercial Services & CSR
TPNODL

Page 152



	Performance Summary of Electricity Distribu	ition Companies	E	
1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st April 2022 - 31st Mar 202		
2	Technical Details			
(a)	Energy Input Details			
(i)	Input Energy Purchase (From Generation Source)	Million kwh	7491.31	
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	6473.32	
(111)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh	5410.05	
		Million kwh	1063.27	
(b)	Transmission and Distribution (T&D) loss Details	%	16.43%	
_	Collection Efficiency	%	106.06%	
(c)	Aggregate Technical & Commercial Loss	%	11.36%	

my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised Signatory and Seal

hona lo umano

R Gopala Krishna

Name of AEA* Registration N

AEA-0123

Name of Authorised Signatory

Dushyant Tyagi
Chiel Commercial Services & CSR
TPNODL

Name of the DISCOM:

Full Address:-

R. GOPALA KRISHNA

Accredited Energy Auditor (B E E) EA-0432, AEA-0123

Seal



-	ACTUAL PROPERTY AND ADDRESS OF THE	Form-Details of Inpu	t Infrastructure	With a second control of the second control	
*	Parameters	Tetal	Covered during in midh	Verified by Auditor in Sangle Check	Remarks (Source of data)
L	Number of circles	.5			TPMODL Data Base
+	Number of divisions	16			TPNDOS Data Base
146	Number of sub-divisions	50			CPNODS Dieta Rase
Fe	Number of 33/11kV Sub-Stations	236			TENODS, Data Base
Y.	Total Number of feeders	933			TPNOIS, Oyta Bate:
NI.	Total Number of DTs	74726			TPNOOS, Divisa Base
985	Promiser of consumers	2041188			FFRODE Data Base
I.	Perameters	66V and above	316V	1187	LT
9.1	Number of conventional metered consumers	43	258	101	1996317
-	Priorities of consumers with "smarl" meters :-				
H	Number of consumers with 'smart prepaid' meters.	174		197	
hr.	Number of operations with 'AMN' meters				-
٧	Number of consumers with 'non-smart prepaid'	+		186	1
el.	Number of unmetered consumers	+			429.71
W	Number of total consumers	41	158.	101	2040888
ta i	Number of conventionally metered Distribution Transformers			2883	100
4.	Number of 171s with communicable meters.			104	
61	Prumber of unmetered Difs			78865	
iv	Number of total Transformers			74726	
4.4	Number of metered feeders.		108	8/5	
ж.	Number of feeders with communicative meters	152	308	598	- 14
84	Number of unmetered feeders			1 4/2	
N.		+	304	825	
st.	Line length (ct km)		9024 67	-00C88.30	57085.44
	Length of Aerial Bunched Cables		44786.40		
4,	Length of Underground Cables		401.00		
3	Voltage levels	Particulars	MU	Reference	Remarks (Scorce of platte)
		Long-Term Conventional		Includes input energy for Franchisecs	
		Medium Conventional Short Term Conventional	-		
		Backing			
	SARV and Mana	Song Term Renewalds energy Medium and Short-Term RE		Tech-desi power from bibliory/ FT/ ODDP	





	Captive, open access input	3/1	Any power wheeled for any purchase other than cale to DISCOM, Bleet nut. to liefs must be franchises.	
	2775		THE SHIP POLICE OF THE LIVERY.	
	Salte of sucplus power	3 10	The second second second second	
	Standard of other-state aurocompanions		As confirmed by SERC, RLDC etc.	
	Power precured from inter-state sources		Manual un statis from Cores 5	
	Power at state transmission boundary	0.00		
	Subg-Term Conventuinal			
	Modium Conyphipinal			
	Direct Ferm Consentence	6475.81		
	Sarking			
1 100V	Samp Term Renewable erings			
	Medium and Shiert-Term III			
	Kaptive, open access input			
	Dails of supplied power			
	Quantum of intro-cture numericales has	0.00		
	Power procured from intra-state sources	6479.80		
N .	Saged in DISCOM wires setwork	6473.00		
1117	Penawakia Lheigy Procurement	1000		
	Small cognitive conventional/ deample/ hydro plants			
	Procurament			
	Captive, spen access right	_		
+ 115V	Penecabit Inorgy Procurement			
	Small capacity conventional/ bramery hydro plants	_		
	Proceeding			
	Select Migration Input			
e ar	Parendia frega fraueners	_		
	State Migration legal	_		
y6.	Steering Embedded within DISCOM wires retween	0.00		
in .	Total Frentsy Available/ Input	6479.80		OPTG RST NO.
Woltage breat	Energy Sales Particulars	MO	Reference	SPRANT SE
-	DRCOM specimen.		transaction to consumers or	
	The state of the s	2102.70	franchises programmaned	
	A THORN SOMETHING TO BE	13111.0	LIFELINGER STEEL COMMENTS	
	Demand from open acress, captive		Non-Stationary States	
LT Lovel	Embedded generation used at Ut level		Demand Torn ambodded generation	
			at 17 and	
	Safe at 1.7 fever	.2332.76	W. 1 200	
4	Quantum of all ferel laters	104/10		
	Energy Ingut at (1 level	1311.94		
	Oricon continues	130-34		
	Patron Imiralia	625-62	Include upon to conjumes in	
		47)-42.	franchise areas, unincreased	
	The state of the s		13834093	
	Demand Fore open access, captive		Main DISCOM's sales	



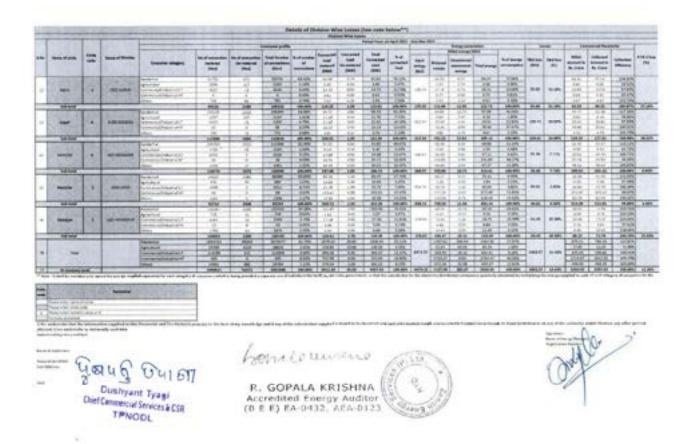
×	11 KV Level	Embedded generation at 11 kV level used		Demand from embedded generation	
				at 133V lenat	
		Sales at 32 NV level	825.42		
		Quantum of Loroes at 11.41'	28.06		
		Therety input at 11 kV level	851.68	and the second second second	
		DISCOM (creaviner)		Invitable sales to consumers to	
				Yandster areas, stometered	
				campaners	
		Demand from open yours, captive		Non-DISCOM's sales	
	****	Embedded generation at 53 kV or below level		This is DISCOM and DA demand met	
#	10 kV (avel			via energy generated at same softage	
				leyed	
		Sales at 30 kV level		100	
		Quantum of Groves at 23 KV	9.00		
		Energy input at XIXV Level	100	and the state of t	
		DSCOM' consumers		include sales to consumers in	
		1000 CC 575-5745	2011.03	Transissee areas, unmetered	
				DESCRIPTION	
	22300	Demand from open access, captive		Minr DISCOM's takes	
3 -1	= 13 AV	Cross border sale of analyy			
	1000	Safe to other DOCDNA			
		Binking			
		Energy input at > 3 (Kr Level	26/11/18		
		Sales at SSRV and above (DFV)	2911.07		
		Total Energy Requirement	6473.30		
		Total Energy Sales	3410.05		
	-000	Energy Accounting Summary			
	DISCOM	THE RESERVE OF THE PARTY OF THE	Sale	LOUR	100 %
7		Dr. MUI	De MU	(in MIQ	10000
÷	11.84	5349.69	2512.70	2017.31	33%
÷	1044	651.48	623.42	26.06	4%
÷	- 83 ky	3651.93	10000		1.
ũ	- 53 Mr		2651.91	0.00	(%)
	Open Access, Captive	Input (in MU)	Sole (In MIC)	Look (in MU)	Loss %
1	J.			7	
	13.Ev	4	- 1	-	
	50 by				
br .	> 33 m	3094.53	1019.33	2.00	0%

Loss Estimation for DISCOM				
TSD ions.	1,067.25			
3 Apres	1,063.25			
PROF Soon (SN)	16.40%			
O Rena (NG)	16.43%			



3		-			_			made pt 10		DEL STORMS RES MINISTER		1	-	-	_	-	_			-		-	
Т								_			Solled (rost)	of the last	,10096.5		Nimeter.						-		
1		100			STATE OF THE PARTY OF	B000000	A CONSTRUCTION	F-5-170000	12.1	THE OWNER OF THE OWNER OWNE	0.00	100	1		Plat song !	100		-	100			-	15 2
ì	Service .	=	-	-	-	-	that further				-	-	-	10,00	-	-	Service.	-	100	Mine Localities Should	1000	-	12
t	11111111	100	THE SHARE	55.5	136		1000	308	100	141	DOM:	1996		.97.		300	3000	-		24	710	3600	
	-	3	Nil Harriste	CONTROL -	1 è		- Light	禄	4	-8-	- 22	臉	40	54	10	#15 #15	4.676 0.486	***	1 80	-15	20	-65	4-
H	1000		100010	det .	1000	1	2000	15.00	100	190	25	148	100	100		\$17.70	0.000	-	10.000	100	198	90,00	
Ī	or other lates		STEEL STATE	2000	1.00%		100000	80,005	-55-	-5%	- 8AC	7.76400	-	-56	10.00 m	-85-	3.65		-	4.3	1.001	300	N
	-	100	en nine	STREETS AND LOCAL CO.	14		100	源	100	Đ.	- 100	摄		楚	18	-	155	##h	*(0)	-8:	先	- 65	
	1999	-		Distance of the last of the la	100	-	er Micro	100	- Mile	- 44	100	1444	-	44	-69	60.64	1190	-	18.005	100	9.0	1000	
	Breed	10	10000	535	1-2		-65	-12	100	15	-55	疆		弘	100	ME 27	240	153	DO	-th-	1	3107	
	200000	229		Continues.	1 - 1 -		1000	1000	-36	115		1.98		Life:	14	100	-10	22.4	5530	38.	1200	2.36M	800
	1000			NAME OF TAXABLE PARTY.	1 Silver	10.00	1000	450	DEA.	100	m/r.	100	20.00	100	200	1001	10.00	2.5	NID.	88	948	- 22	
	19001119	MINO		963	122	-19-	1990	200	-115	-11-	Lighter.	F-1025-		-14	- 0	12/22	2009	565	1000	1480	10	12140	100
	-	1	NI MATE	Visite in	1.0		15	100	-25	-12	-05	部				(B) (6)	105		-144	1.00	ALI.	28	Ŋ
H	10.00	_			1000	100	THE REAL PROPERTY.	100.000	100.00	1769	200	100	100.00	nika:	166	200	-82	12	1000	100	100	10110	
	STATIST	1994	S	Market A.	1000	100	100	1500	-77	- 15	18.55	1-7/20		-11.5	-10-	200	100			-75-	7.5	- 20	4
	State .	79	1000	Still State	9	Œ	1000	133		H	-80	鹽		丑	-8-	28.80 11.81	100	-	prop.	100	20	(ELE	9 :::
÷	NAME OF	-		Till the common of the common	1000	terrifico:	ALM	100	1000	militari	100	HAS.	1000	1000	-45-	200	A 104		11100	100	2.0	1947	-
	195-251	10.0	DOM: N	2000	100	- 0	100	150	45	-15-	- M.F.	1-100		1775	45.	199	120		-	335.	311		
	100	37			100		1000	-tth	22	12	- 12	100			12	#	100	1034	2190	NA.	M.	39.07 39.07 50.07	\$
ż	1900	_			1000	100	400	100	- 600	100	- 2.0	144	-	400	-	7535	() (FE) (() () ()	100	2000	100	-06-	- 100	
ı	Tarre		No. of Concession,	Andrew Commencer	110	-1	200	盟	30	10	100	語		100		(8.6) (3.6) (8.6)	1,00 (41 2,00	10	11400	100	-38	94	4
	14048	1201		Contract Contract	- 2	100	784	100	-35	-11	-13-	146		-18-	18	10-	168	189	100	-36.	1383	309	8:
	1000		1000		1000	100	1000	100,000	tolde:	128	100	188	Dept.	Mic.	100	100	1000	24	STATE OF	60	40	32	4
	0/5/5/20	201		Total Control	7000			100	-05		1100	1700		770	1-02-	100	110	837	1000	- 26	-53	100	4
	1140	340	DESTRUCTION.	Strictmin	1998		130h	1985	133	-3.	100	THE R.	100	9.8	L IR.	MIN	BUX.	50	SHEEK.	- 40	A-S	26037	Q
		200		1700	179		196	100	-11		18	122		AT.	1-10-	1431	115		-	-00	-72-	1180	
	1000		-		Pullet.	318	- 65	100	366	18	805	100	140	DIRRO	88.	DEE.	- 600	20	Arth.	ine	100	199,65	15
	10000	271		NAME OF TAXABLE PARTY.	100		184	3340		-15		出路		100	-12	100	127	638		111	12-	1000	5
	See 1	250	(drime)		Hot	-	360	- 305	U.S.	-15-	-15	1108	Adapt.	41.94	-16-	100	3.69	21.0	400	1000	1.5	193.65	Marcon I
L	100	100	H-0.5-05-		180		100000	1366	.15.	19:	100	1100		TIR:	120	100	UA-		Julias	10	100	100.00	
i	20000		_	Winds.	and .		100	500	-	1.00	-0.5	177	200	80.	- 0.0	7616	7.00	300	HMC	58.	380		ÇΖ
	Select .	1	-	Mild Common	100		EE.	112		- 2	器	醤	-	基	10	器	譜	34	in	- 14	-12	910 910 614	g:
ı	Man			444	-53	-	100	1989	-	-15	9.00	1075		15.61	18	1875.	130			100	-13-	17079	4
Ť	-			F. 1	100	- 44	100	100	100	1.0	100	100	150.	Mar.	88	STAN STAN	pa an.	20	AHS	6.8	84	185	-
l	199	1	40.00	bion.	13		1	级	36	15	- 25	疆		盖	18	1	100	-	1HV	100	1	200	9
1	MAN .	1000	Della Control	their control of the	64	1 - 2	447	17100	10.00	- 12	100	7-7-22	1	100		1-120-	1-770-		11-1	-55		+-055	3 -







19.8	Form-Input energy Details of Input energy A. Summary of energy input & Int		
5.No	Parameters	Period From 1st April 2022 - 31st Mar 2023	Remarks (Source of data)
AI	input Energy purchased (MU)	7493.31	OFTCL BST B-8
A.Z.	Transmission loss (N)	0.00%	
A.5	Transmission loss (MU)	0.00	
A.4	Energy sold outside the periphery(MU)	0.00	beschiefter manager and a surviv
A.5	Open access sale (MU)	1017.97	Open Access & Substation Consumption.
A.5	EHT sale	0.00	
6.7.	Net input energy (received at DISCOM periphery or at distribution point)-(MU)	6473.33	OPTCL BST Bill
A.E	Is 100% metering available at 66/33 kV (Select yes or no from full)	Yes	1.000,000
A.9	Is 100% metering available at 11 kV (Sefect yes or no from list)	Yes	
A.10	% of metering available at DT	4%	
A.11	% of metering available at consumer and	98%	
A.12	No of feeders at 66kV voltage level		No any 66kV Network
A.IS	No of feeders at 33kV voltage level	108	TPNODL Data Base
A.14	No of feeders at 11kV voltage level	825	TPNODL Data Base
A.15	No of LT feeders level	74726	Total No. of DTs.
A.16	Line length (ckt. km) at 66kV voltage level	0.	No any 66kV Network
A.17	Line length (ckx. km) at 33kV voltage level	3024.07	TPNODE Data Base
A.18	Line length (ckt. km) at 11kV voltage level	40188.50	TPNODL Data Base
4.19	Line length (km) at LT level	67486.44	TPNODL Data Base
A.20	Length of Aerial Bunched Cables	44786.40	TPNOOL Data Base
A21	Length of Underground Cables	401.00	TPNODL Data Base
A22	HT/LT ratio	0.64	



	-	-	-	_					A Service	of Street way o	-			_	_			_	_	_	
			10000		12000000	F September			- Jensely Venezia	Front & Noor	The same	Married Married	700	THE REAL PROPERTY.		Seattle	a late to the	SE SE			
							100		2000	Cartest.	Station.	Access of the	Total Control	Transfer I	100						-
7.75	-		100	-	to trave	14.600	100	See and	PROJECT OF		- market	11.5	STATE OF THE PARTY.	SERVICE IN	100	-	1	haser	Sime?	Market 1	Sweet
	100		100	2000			100		-					- mandy	440			000	-		-
7	200	1400	10.10	-	the order.	Marie	Sec.	The Labour Live	-	Tarleté :	Total Control	140	HOMOTO	202000	1000	7000	-	100	=	-	
14	200	Sideren.	Later 1	_	the state of	march .	100	100000	200	1000	1000	100	10.76	_	_			-	-	-	-
41	7944	-	-		-	-	10000		-	-	-		SELECTION	-	- 940.	-	-	ma	100	H-	
-		18mm	40.00	-	- 11-	TIBET	200	(Facertee con)	-	E 1-40	- 44004	100	100	-	-74	yd (900) (80	-	14.0	100	9.0	
**	-	-	-	-	-	Signer	200	Tions of the	-	- 10:00	-3.840	10.	A code	340	14	1000	-	List m	484		
.41	(Marian	Hamm	0.4	-	1/6	Ster.	304	CTPS-SHIP, SHIP	2004	- Traction	17000	190	100	-	100	4940	446	709-11	100	30.4	- H-W
94	-	44411	-59.00	-	1600 (101	Antion :	3176	(Bodon-Autological)	-thirty	D. See		190		10.	100	$20 \mathrm{yr/m}$	700	400	140	000	
81	-	4400	464		16010	Meles .	Yes.	- Incaringer	-	le berest	1000	1961	109	-	746	$(\Phi_{i,j}(x)) \in$	-	1881	440	-01-	-
41	Jede	(Beauty	10-4	0.00	isoto	Spe	tale	200 (400 40 40 400	heave.	(faciled	Amore	- Non-	1/176	- Co- (1)	74	1915001	100	+-+	0.10	(4)	100
81	-	parent	40.0	9790	40-100	800	36.70	The Reliance Service	-	Sector .		2100	41.95	100	40	-	100		+41	0.0	(0) H-W
400	1000	A. Rambia	950	10	the interest	Mari.	9100	New tenton	-	femile .	20.00	10-	Party Street, and	-	:60	$H_{i} = \{i=i\}$	244	1111	101	No.	101 m. p.
0.0	(2904)	a (bission)	100	10	rimerine	Par	date.	Manhaultan.	-	System	(Name)	5.4940.2	April 10	100		apin in	-	1411	100	40	
111	(916)	rene	794	-	19841-111	Tribut.	21/6	194 10 (329)	-	Toront	00000	THE	4.1.M	1011	-	2774	pel	744	411		100
10	***	Taleston		min	Seese inc.	(Septem)	11/4	COLUMN TOTAL	-	Indian	Specie	Poli	representative and the		100	0.00	-	100	160	310	
+=	dean	paren	100	781	Marine Str.	CTANACT	100	Table Systems	1494	Contract C	0.446	160	40.00	-	. 196	2750	-	1140	-0104		Section 4
+0	Period.	(Been)	Land 1	-	district of	Market	Tree.	the second		District	5400	-	40 to 10 to	-	122		-	lene.	-	Vie	
TO	rhela	1,8000	1916	- 100	and the	ente -	200	25,000,000	-	- Imme	Commit	-	10.94		-		-	1014			100
40	Made	Secon	140		Minus (rich	- 4664-17	1100	OTHER DISTRICTANT	-	Seatter	1905	100	Philippine Ly	-	100	-	540	0.00	-040	400	
414	0.0	Enterer	1854	-	and the second	- Sandylan	Sec.	nie warm	-	No. days		The '	12.00	-	- 240	siriaca.	1.0-		-		-
10	1764	Johnson		-	No. let	Server !	inter	To be land	1000	Section	Sec. Sec.	- 000	11.00		100	White.	4.00	4.0	-		
4.0	7961	Liberton	No.	100	1.00	Semestras	1200	- Commercial	-	Torrier .			10/30	-	-073					**	
-	rigin.	14000	Al-re	-		to interfer	Seed	situations through	-	11 Saint	-		THE RESIDENCE AND	-	191		Page 1	100	40	lun	100
40	rhain	1400	100	- in-	dering	and .	The same	The base of the	-	- Inner	100	-	1/196	-	240	9000	100	201.06		he h	77.15.4
-		patricular	100	in	to the	480	100	- Name of the		- 14/44	1	120	200		100	ist beauti	=	min.		To be	-
4.4	-	respect		-		100	200	- International	- Table	Factor	1	198	150	-	100					-	at 16 6
44	200	19961		-	THE U.S.	September 1	2700	NAME OF TAXABLE PARTY.	i-mi	- Series		-	10.76	_	_	_	-	200A	45	100	
-		beton:	100	-	-and	-	-		-		_	-	148	- 10	34	11.3643	-	200		44.10	and the te
-	-			-		trates	934	TO CHARLES	7880	Suiter	- Marine		785	-	-	5.000	- 10	Arr	- 10		ORC; Box or
417	-	me	1946.	-	MANAGE TO S	46.000	Street,	- Halphood Carrier	-	Interes	10000	100	10.00	-	- 104	35,0431	-	10.60	140	-17	EE
0.00		111111	-9%	-	INCOME.	77.00	2410	thrend-part	-	(mass)	Street,	190	1.4%	100	-		140	-	-10	14.11	and a series
14	-	76.60	-0.0	80	19419	Arrive	-	THE R. P.	-	Terrer :	0000	196	11136	-	-3.	-	100	5.4	- 10	44.71	77.76.4
94	-	75.01	100	-	44000	40.000	plan	Steel Debug	-	Toront .	DOTE .	100	1-110	-	100	2000	100	-	-111	100	(C) (C)
**	-	-01/41	100	40	20ma (4.0)	1004	200	Thirth Co.	1464	(Fortpot)	(bires)	100	10.96		-91		-	40		0.0	mi te k
b-tr	_	Amount	94	-	destrict.	Marie 1	8140	10/10/20 (19/10)	-	(Sobre)	bride.	(9)	The same of	100	-04	-	per	4-1			
4.4	-	-	144	-0-1	Name of Street	4400	946	Million Street	-	[] James	Pr(1-69)	rie-	1119	100	- 20	A1146(9-84)	100	711	-	to be	m1 10 W
+-1.	-	None	100		Name and A	Hila:	line		100.00	(1) factori	historic.	-	10.00	+	-		10	0-1	240	0.46	
+ =	190	\$11,000	16 10		Manager 6-pai	trid.	low	140443140	Asset .	Same (++	-(-	tule .	-	-	144000	140	80-4	-	-	
++	-	2000	0.00	040	(8 kg = 1 -	temper.	204	1603-01-0730-1	-	li-ise :	-	-	Lyl.Nr.	10.	100		100	1914	100	94	
2.0	100,000	-	400	90	delinion (N)	C Brown 1	(stee)	A Description	-	-	++	-	TANK.	-	100	1490.00	pen :	99.00	200	20.04	and the se



	-	1000			-	-			5 Males and	of a risk and while to	The same	-				-	-	-	-		
1	1	1	-	-	-	-	11		HH		1111	-	1100		HHE	-	-	=			-
24		print.		100	mayor.	Aplane	-	THE REAL PROPERTY.	-	2000	Local	-	100	-	104		- 1-0	0.00	-	4	
+=	4-9	10000		-	- mark	1991	Sect.	Mintel Science	THE .	Section 1	1000	-	The second	1300	60	101000	-	-6	that -	200	-
	-	198801		-	make .	1986	and t	STATE OF THE PARTY NAMED IN	1000	-	2000	100	to the	19-71	lar-	-	100	64	-	40.0	-
Act.	ALM.	Inte	100		Other LT	Nation.	-	bijerojecer.	1000	Springer	ande.	- 0.0	10.00	790	-	976.0	100	10	100	400	
4=	1000	im-in-		-	- Armeri	Make	Spec.	Nacialists (1911)	Selection-	poder!	5000	-	20.00	Conti	100	-	im	(4.06	100	24	
4-	Pulie 1	Owide		800	Open to 1	10000	- 64-10-	Name of Street or		-	4940	400	21.00	100	394		200	M-0.	time is	40.01	-
10	Part I	1940		-	Box TE	Palet	816	TRUST SCHOOL STONE	01.0	torine	-	-	STRUCTURE OF LA	-	100	200	766	70.0	-	18/10	
-	-	-	100	_	Park III	Citigate C	No.	min'musike	-	States 6	90.00	464	Service of the service of	360	- 94	10000	-	++	100	346	
-		resin	10.00	8.01	Maria in 199	1004	160	Name and Add	1000	Sales .	part.	141	01.00	-	-in-	defeating.	190	dia	447	the	-
100	-	Ineles	1	Page 1	Park to 100	764	100	ARREST ACTOR	-	destrue.	1000	7441	200	144	100	1000	40	30.4		in.	
-		Trans.			Name of the last	No.	2011	Married Lands	-84	lane.	-	-	Total of Makes Total	140	-	-	See	111.0	~	100	
	And a	-	1.0	444		Series.	200	State of the last	-	Judge-	4000	Carl	1000	100		-	-	7.5	10	100	40,40
-	14.740	1000	24	-	Project Co.	Security 22	Minte	THE SECOND SECTION	-	Section	GOOD!	and .	01 10 10 1 10 10 10 10 10 10 10 10 10 10	- 14	24	-	344	200	140		
	7140	0.00		100	100.00	Parties lat	-	Marine Civile	1000	1.6-4	1000		THE DESCRIPTIONS	-	24	4000	-	279	100	1717	-
7		-		-	44.70	at landauging to-	466	National Section	1000	1-444	Cham.	140	The Control of	141	100	and the	-	127	-	244	
\pm	Pro-	- Obert	-01-	-	-0.010	of the region in con-	16-011	MANGETTON	Sec. of	Service	NAME:	-100	THE PERSON NAMED IN	-	140		-	0	44.	27.0	15.00
	-	26.00	1000	_		Wildfallers In the	6.00	- Control	1	1845-4	20.00	100	NAME OF TAXABLE PARTY.	- 4	1400	in each	-	44	100	. 841	
	2.4	-00.00		-	. me-tho	err (serving	2.70	The cash city		Texton	20.00	190	THE REAL PROPERTY.	-	100		ini	100	100		
1/4	-	- 00.0	1-	481	Daniel Co.	2000	See	The personnelle	-	Serie-C	No.ex	- Our	P. 2	-	100		100	80	100	180	-
=	-	- Obert		791	(Special Co.)	Nageric -	400	Section and sections	1000	Sprane	4444	ales.	Back to a second	- 100	100	400	Last	100	-	100	
100	200	-	-	400	Semal-Vil	Personal	-	invested and	-		10000		10000	-	100		loui	100	100	200	-
		-41	100	-41	- Amount	- Northrop	with.	Table of the last	-	-	200.00		The state of		344	Total Control	- 100		140		
	PROD.	States	200	AND	7000	Applicat .	100	. separately	-	lanine.	Times.	-	-	-	44	12 345	-	24	100	100	ani-dra
=		descri	0.00		Barriot	Page	-	or make turned by the	-	Inches	2000	100	100	-	-	411		-	140	-	miles.
÷	0.40	200	200	-	400	8.64	5.00	Colore Carlo		Anna	date.	100	100	1	-		-	2.0	100	-	-
		des	-	-	net.	Ada	4.11	Million City	-	lastes	2000	-		100	100	est in		110	-	278	-
	-	-	1	-	Sec. 104	140	Acres	Tank by	-	20000	4				100				14		
=	Police	- Ages	100	-	186-1.E	Mari	Lon	No. of Concession.	-	Series.	40.00	100	10077500	-	100			1111		-	
-		-		1	No. of Street,	200	line	manufacture.		S. cree	-	14	Contraction of		-			100	les.	-	-
		-	100	-	Basic Str.	Internal	abari.	No. State of State of Street	-	Antique	6000	100		-	100	-	-	0.4	Sec.		20.00
-	-	-	-		100.0	bileres -	M IN	The month of		Incine	-	-	wellen.		-	-	-		140	100.00	-
-	-	-0.7	_	_	-		+	Total American	-	1.00	-	100	WW. 187	-	100		1=	-	-	-	
	-	AH.	-0.0	- 1	-0017	Traces:	200		-	- Sales	-	100	10.00	-	-		-	14	140	100	
1.0	1440	-		-	4470	Triange	200	200-104-704	=		-	12	219	1	-		10	100	-	1444	-
4	4.0	0.0	-		40.00	-	E-1	The second	-	Advant	1	1	2.7	10	-		10	100	1	100	
411		76.0	1	- 11	100,000	Total Park	2000	1000100000	200		-	-	199		-		1	100	-	Service	-
***	_	7400	800		944790	MARK	-	Table and the	810	Stephen	10.00	100	the latest trans	-	100	-	+=		-	-	-
100		High	90	-	Mr-10	100 (100	1	Milliant Cont.	-	30-500	I love	144	200	1.96	100	1000		811	101	314	40.018



The column The	Part	-	1	-		-			1.		HIL	And the second		Topic tip		1111	Hill	-	and the same	=	-	-	=
The column	The column	***	1991	Marijan	. 1010	1000	000 500	100	- pane	District DESIGNATION OF	****	(deman	-	1000	with the first company	-	-	de-basis.	-	min.	240	m/4	
100 100	100 100	inte	190	Name of	Jahr	1000	86/76	100	-	Company of the Compan	-	hetes	2000	Cales C	All to being your	-	100	der festerland	700	100	Tipe .	401	
Column C	Column C	100	.100	Periodical	ire		460 (60	-	47146		-	Amber	-	-	(Mining States Street	100	-	prience	-	100	0.00	4010	-
March Marc	March Color Colo	10	- merica	Author	1000	100	440/00	Profession (N	dept	selective view year	Seese 1	- Select	2010	-	THE REAL PROPERTY.	-	.500	Militar	(44)	110	100	100	
March Marc	The column		(46.0)	Autropia	199.	- 000	Sentir ripl	denderda	10.00	of processors	-	tenne .	2001	44	ALC: N	-	100	-maile.	900	41 in	-	4.0	
Part	The column The	de.	(Marin	Autique	let-	-00	Station 1992	teacher/for	mm	Telegraphic parties	****	breine	2 Pt 102	491		-	-		(rec	41)1	040	-	PK. 60
Column C	Column C	+0	-	Notice	MEL	080	designer (VIII)	feeder (n	200	MICHAEL STREET		13/836	2012	-	total by	-	300	MINIST A	-	40	100	410	(m, 40)
Column C	The control of the	-	1900	Notice	10/100	0.0	initials.	Service .	1010	- Season Super-Utility	1	feeter	1,1000	de	THE US IN LABOR STORY	-	100	ornore	-04	0.6	140	50	inc44
Company Comp	Column C		1980	Annalus	4.90	700	Marrie 198	PROGRAMA	Anna	State and the	District	System		-		100	-	Traperto	-	100.00	- 640	100	
10 10 10 10 10 10 10 10	Company Comp		State	People	9.00	-	*0000 100	FOUNDAME	Acres.	200 mars (200)	-	Takena	No.	-	OTHER DESIGNATION OF THE PERSON NAMED IN	-	-	prome.	-	15.00	100	24	
10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10	-	1910	None in	Mr. C	100	Avenue (to)	PROFESSION.	9000	100 hours (100)	(Mysel)	Swinz	Service .	164	SPANANTES		-	contra para	941	104	100	100	-
Property	Property	-	19.01	Souther	,100	100	mention (April	- PRIMPINA	-	Parameter Ser	Acres 1	futter	30000	and .	SHARING THE RESERVE THE PARTY NAMED IN	-	-	or name	300	140	-	100	E-114
10 10 10 10 10 10 10 10	Column C	r lyft	1994	handar.	2.00	int.	Applied 1,000	POSSIBILIA.	NO.	Trade / Sec (Site)	-	- Server	No. of Street	West .			100	erione	- Aud-	No.	180	to de	-
Column C	Column C	rin	Heat	Notice	46.0	Winds	motion Like	Plustonia	NO.	In premius san	-	A Street	1000	mul		-	-	970.00	-	nin	im		-
Column C	Column C	-	inter	2000	100	whose	mental time	- Proprieta	-	THE RESIDENCE PROPERTY.	-	- Frank	-9404	-	COTTON DESIGNATION AND	4	144	40 tomak	-	+0.00	-	-	
Part	Part	k jed	(retreet	toner	180	100100	Server risk	PROPERTY	Anni.	THE RESERVED	the last	feeled	4464	- mat	ATT TO TO AND ADDRESS.	14.	-	479.60	700	min 14	-	4.7	40.40
Process Proc	Property Color C	100	rheits	here	-1000	- 1400	topological distri-	Pallet	499	TO ARREST GROOT	See 1	- American	0.00	-	OR ST. ST. Purple		-	arrigo and	-		-		
Property	Property April A	100	1949	ture :	100	40	Named -1 total	Total .	wine	Interespond	-	1. September 1	20.00	Non	All by brings of	-	- 64	Property.		_	_	_	-
100 100	10 10 10 10 10 10 10 10	H.C	(rest)	Pine	-810	- 440	Name + Add	agent facts to	-	15 percent	-	Stoke .	20.00	- Mark	White British and	-		oracini	-		100		-
Management of the control of the con	Total Section	-	Design						50	Name and Address of				100	-					-	150	100	100-401
The state of the s	Temporary Control of the Control of	110	PRO							Special manager							-				-	_	
The Control of the Co	The Control of the Co									Mary rough		n.mir								JES C	WATER		
The City field of City	The CIC Tries of April 1995 of her level All tries are found in the common of the cic tries of t			1200	1200	1000	201/3-5			-	-			-	-		1						
							gradienten.																



			Getalls of to	gut Energy Source				
			Paried From Lot	April (807) - Note Mar 25	23			
			A Longston p 4	philadelian Puriposity (No.	elle.			
E.be.	Name of Concredes Marine	Conventor Coperation (In SPR)	Type of Station Consequence (Report Saled) Coal Japanes Lipsch Conditioner (80) Homeon Septembliffscry)	Type of Commercial	Tipe of Loss chara-	Police of Viscouries of POCI Loss ME	Tritings Earners M. Imports	Brown to class on of Aspai
	SHREWINGER TRACTION SUB-STATION	23.66V	Subsect	164	neo-bone	. 79	ted	-22.5 - 52.5 - 57.5 - 5
	MO INDAL STORE & POWER LTD.	60.MW	Store	State .	Intro-Male	195.	Red.	1994(SSL) not deporture
	SENDEDVISIONAL ELECTRICAL DISS	JEMW	Release	165	men state	255	red .	fried Perculatificate Capital Fried Paris Security
-1	SAS EMANI CEMENTURE.	13.966	Corbent	NA.	10014 55499	26	947	PRANTO TRICOL A purchasis
3	TSICS FERRO ALLOYS FLANT 7605	ZEMW	Design	NA.	mana-Sharer	. 1%	Helt	power harm tradeCU no.
4.	NASANA KORLATE	35 MW	Sitest	FeA.	new Stew	29.	Det	DETEL Industrial
- 3	TACK SMILE SPORGE BEING TO.	20 MW	\$7090E-909	54	mena-Statu	.76.	Det	
- 6	MG (DW CEMENT LTD.	LEMW	Certest	NA.	HEIGH-SERRIN	- 17%	693	
	M/S PACOR POWER LAWTER	100 toler(may have two DRP but now only one or unit)	Steel and Power	**	789 599	- 0	041	
10	M/S DIRN (AGNONATIVE STEELE & PWY UTD	35 MW	Steel	168	Gena-Stone	255	per	
M	MATERIAL MATERIAL PROPERTY.	SMW	See	144	more fitate	. 14.	pet	
	SASSIBLE METHORS LING UCONS	1409	Steel.	NA.	mine State	DK.	(147)	
. 13.	RUNGER MINES CTD, SPING RES DAY	40 MW	Find Oile	NA.	THESE STREET	2%	Det	
34	NOS SURCIA MINICE CRATE LETTE	2.5 5/6	145,400	765	otto litrie	25	HT	
10	impa, store, status.	2*125MW + 198W	Specifical State	19.6	meta-draw	7%	HT	
. 16.	KALINGA IRON WORKS COURT	35 MW	ton	79.6	mounting.	1%	HE	
37	MAS GREWING ASSOCIATES (PLCTS)	TMW	\$45966 RD9	risk .	orbita filador	196	HT	
10	WIS ARRAMACRIT SINGH AND WHICH	(SMV)(In use)* BMW(Corently not it use)	Steel Plant	.165	etta State	26	147	-



			Consumers)	100		and the same of
500			of Energy	in a second		
_	_	Period from 1st April	2022 - 31st Mer	2023		
S.No.	Fyge of Consumers	Category of Consumers (EHT/HT/LT/Oc Ren)	Voltage Level (In KV)	No of Consumers	Total Concomption (In MU)	Remarks (Source of date
1	Domertic	LT .	(320-440WV	1890723	3461.474	AG manag Source
/2:	Kutir Iyeti	1.7	1220-4409N	42529	5.995	FG Silling Source
1	L.T. General (Core)	17	(220-440)KV	108910	385 145	76 SillingSounit
4.	Agriculture	U	1220-446/RV	28815	84.523	FG Billing Souther
3	Aera	17	1220-4409V	2603	18.566	. Fill Milling Source .
. 6	Alited Agro	U	1720-480WV	52	0.97	FG INSig Source
. 2	Street Lighting	LT	[220-440)kV	1471	23.964	FG Arring Source
	PWW	L.	(220-490k/v	4490	\$2,777	TO Billing Source
.9	Small industry	UT.	{220-440WV	4357	39.731	FG SHing Source
10	Medium Industry	LT LT	1220-44090V	1132	37.713	FG Billing Source
:11	Specified Fulb. Purpose (P.I.)	0.	1220-4409/V	16012	41.929	Pli fillingSource
13	Earge Industries below DQ to	(47)	(13-339kV	3/0	473,032	FUBITING Source
12	Power Intensive Industries	HT:	(11-33)WV	- 1	10.632	76 Billing leaves
11	General Parpose	N.	D13-303AV	127	54,739	FG Billing Source
15	Bulk Supply - Domestic	HT	(13-80%V	.76	17,202	FG Silling Source
111	Public Institution	HT	(11-339eV	-86	12.158	FG SHings over the
.17	regation	H*	ELIS-BRINA	9	0.834	- 16 MilegSouth
-15	Al-Agra	HT	(11-30)W	73.	17,383	FC Billing Source
19	M Agro ind	N"	C12-3036A	.13	31.622	FG Billing Souther
30	Captive Fower Plant	18°	[35-339W	2.	0.147	PG It the Source
31	Public Water Works above 110 KVA	HT.	(11-339kV	20	10.524	FO RETING SCOTES
122	Heatry Industries	196	K11067	- 1	8.571	FS Bring Source
.23	Prower intendive Industries	846	<110W	. 2	81.977	FG 16tingSource
24	Rallway Traction	710	<110kV	. 8	463.174	FG Billing Shorte
25	CPP	Det.	<\$10kV	- 2	1.140	TG Billing Source
-25	General Purpose	740	<\$110VV	1	83,942	FS Billing Source
-27	Large leductries at 132 kV	143	<\$100V	17	2011.137	Fix Billing Source
	TOT	AL.		2041588	5410.05	



=	_						(Details of Feed		190	-				-	-	
8	10	Special in	Basin	-		Name and Address of the Owner, where		Van ditenti i mineminenti montanti intenti montanti	-	Paper bridge Apper by the Terror by the	- NAME OF STREET	State	-	MAC THE PE	School Section (Strength School Section (1) Section Admitted (2)	-
世	3900	-11112-	1000	MACHINE TO A	TANGGOOD IN	1200	4770	1750	2565	100	-15	rise ((Davis	- 53		105	
	2000	Annual Contraction	T-BH Roses	1000 St. At 1000	DUMBER .	1015	46.4	700	AMIL		126		12	-		THE OWNER OF
9	PROX.	HANK	-BS-Nerco		100		000	2005	100	100	1.0	- 11-	144	_	- 12	Total Control
+	420	- BACK	455000	BPS/100: MARIE	State metros.	1000	Res. Contract at 11	No.	105	18.	-12	-4-	175		19%	CONTRACTOR SAFERING
н	3600	EAS.	CEARBOO.	MODOR AND RE	Market	-112	255	1911	- 100	-15	12		. 19.		185	1 (Min Shadow) to
Œ	3600	All to the	\$1,500m.	101111111111111111111111111111111111111	2001/201	-76L/ES-	bearing.	religion	100	-8-	12	100	100	-	105	Copper State Co., p. grd. Fr.
4	200	-5555	- which focus	3836,33	ALC: N	40000	the collect	5080	SPAN		0.00	- 6	- 6		-	Street Street
Ħ	900	1000	10000	2000 VI	Maria	1000	10000	1.700		100	100	15	- 22		16%	
ΕĪ	7400	818,75(8)	Phil. N/10	3667154	120	200	NO.	T SANCORC		- 108		15-	- 10	_	165	
	1600	12000	ED:	BM 91-31	Bridget .	20016		10.106	27600	100	100	18	-8		395	
H	完	95/655 98/655	\$70,000 \$70,000	200.75	THE REAL PROPERTY.		25004	TANKS IN	Ask	105	4.00	1.8	196		100	
н	Series.	25/05/5	29.560.04	MERSE	Today Control	- 004055 - 1086455	STATE OF THE PARTY	AMA.		-15-	12	1/6	-10-		105	
п	100	360,000	I 960 February		STREET, STREET	SAPARE	SAMPLE	NAS	100			185	- 10	-	160	
14		MANNY.	CHARGO	E10.Put-re.	AMERICAN REPORTED	100711		1.41	1746	-17	- 15	186	100			
Ξ		PARTY	-75-bros-	16/5/6	500/000	26804	3400	700	404	-569	- 18	145	100		1675	
: 1	悬	1988		3157	505 PK	500 TO	Sec.		- 22	100	16	-1/6	104		1975	
· I		29525	All Sent A	1641.54	A1195	22945	2012/01/2	334		-10	10		- 15	-	100	
14			LIE BOOK		500	THORAGO.	Methologyeli	5.54	194	1.24	1.0	100		-	100	_
н	100°		4-m2000	90 1 (F	200	200,000	MANUE	B/B/A	- 000	3.0	100	146	100		100	
œ	1996.	1-121	10 torre	Market Street	(8/8)	8095	Stocker.	100	(146) 160	-18-	-	- 116	494			
Œ	12666.	August.	Silver .	#30-18-005 9-00-18-005 9-00-18-005	34%	-3555	10757	1.00	1790	MI			505	-	305	
53			Michigan L.	MARTINGUES.		-0.00	199	P. (R)	1790	125	- 12	19	100	_		
-	200	-850XB-		W C0-1 18 , GOOD	- 055	100000	10000	9.00 9.00 9.00	400	595	100	19	100		188	
œ	50.	134000	10,19919 (6)30000	MUST ENGINE	1000	100400	Access to	205	.00			1.76	. Pite		181	
ᄄ			CHI MAN	MARTINAN	156401		1000	100	100	-0-	12	-12	125		.105	
5.5	200		1100	H-ST-14E-SCH	3000	- 100 tb -	20027	1/10 1/10	1000	546	12	100	- 12	_		
-	500	200	SEASON AND ADDRESS OF THE PARTY.	n of the late	The second second	1000,000	3/8/2	1796	100	- 16-	1.0	149				
÷	3980.	July 1	L'Alberta I	1600	Charles Co.	10/309	State of the last	199		175	14	- 10	18.		365	
- 1	7505.	L. ROWING	Chimne.	MODEL SE	ALMOND MADE	75000	PROFESS.	RECUSAL.	100	- 12	12	18	10.	-	186	
:4	355	- total	Minney's	E000E3125	10000	- Intuiti	No.	584	168	- 12	14	136	100	-	-	
	-	7.00	JELOWAE.	- Positivi	35050	A Highlander T	Mar.	3.75	346		144	1.61			- 6	
ш			All Miles	Accord to	Al-State Co.	- 133/5	and a	1010039	120	18	14	-38	-10-			
Œ		BOACH!	CTOOMS.	ACC908128	An ingle-10	- DOUTS:	1000	336	-020-	-19	14	191	-12-	_		
-	2001	25/6/25	ELIMINA.	AUGUS	Hillsen III	- Diorei		332	100	4.94	146	19	1000	-		
H	<u> </u>	DOM: N	- Ballion	ACCUSED .	Spirit	1000000	TOTAL STREET	3.64	100	196	100	19				
			1000	10011	Tarati -	PRODUCTION OF THE PERSON OF TH	MARKET MATEURIN	100000000	356	-15	100	18		_		
4	3	25/505	St. Hight.	ANIAN	State of a	Alleria.	125500	2000 COM		12	12			-	- 2	
-	-203-	755	All John en		2000	LUNGTEN	246	1000	Direct.	1.90	1.0	14				
н	-30 H	r-0555-	M1.564	Ballion III	10 THE R. P. LEWIS CO., LANSING, MICH.	ABAS.	-000	A 40		18.	100	- 18	- 41		- 5	
I			3355	BRADE DEAL CO.	1000		AT ATTEMPT AND A	700	- 11	-55-	15	- 18	- Ph		- 100	
-			120.00	MICH.	199534	THE RES	ARCHITECTURE.	490	-	- 15		- 12	-12-	_	-	
-	- 200-		E-LOSS SEE	8876764105	9000	2003	AGE SECTION	100	Ann	- 11	100	4.0	- (2)		385	
			100	1000000	10 To Table	200.00	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	AAA	166	- 12	100	1.44	145		1896	
Œ	560	500	81,54	And A Color Color		2012	100	100	105	-10-		-16	-6		- 25	
-6	2005	Str. Arty Ltt.	10. by	Bit-Helicy Life	RINGS	생성	1937.0	100	6098	-10			- 12		-	
-6	-202∼	-050-	and the second	prevent of the	1,256	-05646-4	140.	9.16	1041	14	. 100	12	- 10			
±	1900	The same of	- NO. 100	Microsoft Co.	51000	2010	THE REAL PROPERTY.	195	105	-15-	- 15	100	76.		341	
-				200.00	707700	20 LOS	Market M.	550	104 104	- 12	- 15	- 44	- E5		- 6	
+	200-	-565-	- 915, here	7600N(KT)	ADMINGS/ON.	-88		3/35	- 100	13	- 12	- 20	- 74		-8-	
н		Married Marrie	20. hrs	1900°	MANAGE TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF	- monatore.	menosis.	5.05	2000	1.8	-15		-			
T.	State 1	Marin.	100 kg	220	66500	600.000	1000000	5.65	200	-15	-16	10	- 61			
	1966	MADE.	100 test	100.00	DAY EX	40000	2000 P	515	-12-	-11-	-15	- 14	- 63			
+		main.	83.10	1.5%(1)	Printer.	430.0	4000		ALE	1.4	18.	16	- 10		90	
+	100	BOACO.	80.80	13804	20070	16100	Married Co.	100	1004	14	0.00	-	775			
7		- PAGE - 1000 - 1000	80.30	100 G	-540	3000	ENDER.	NO.	-83-	- 14	146	- 100	-1			
			20140	5 Date (Co.)		200	80.00	100			146		199			

	-	-	200		1222 1 111		(Details of fee		440							
	-	-	Section .	-		-	-	Control of the Contro	Na river des i	Input time:	The State of	Team Teamson	1		Total Control	-
211	201-	1000	-550-	4953.55	100	-000	monon	8,80	-165	18	18	40	-6-		- 100	
		MINIS	20,544	NAME OF	200	THE REAL PROPERTY.	Column Ballington	Address deaths	100	- 15-	18	18	- 85		-	
2 10	990	RUSSE		AMARINA UN	104	1000 W.	60.8GH	8.60	10.0	10		-10-	-72-	_	-	
	560.3	MOSON	MA-344	MARKET AND	10	Market III	- Bullione	defec	1995	- 13	1.00	108	10.		-	
	200	DOM: N	-56	2000 C		100 m	arres.	500	MA	1.0	18	530	AA.		Mark.	
	THE R. L.	ALC: U	ID. bes	Market Inc.	tio Management	-500	SAMPLE .	846		10	- 12	- 05	-65-		- 100	
X D	9600	ALC: U	- 20	10010	HEAT STATES	100.00	Internal	8.80	146	1.6	12	-12-	100	-	- 12	
	366	Acres.	ACC Service	- NW1M	Street smale	ede no	34654	1.80	2590	-12-		- 10	120	-		
	-0.7	Married Married	His land	1804	SPARE STORE	9094255	300000	1896	2065	18.	14.	186	344			
	700	1000	Mile Month.	254 Len	Anti-play Anti-play (Sec.	50,000	PERMIT	MAG	- 65	-15	-11-	- 15	45		. m	
9:8	500 1	- Daniel	.570,7800c.	SUBSCIENT.	president	RENEW TEXAN	A STATE OF THE PARTY OF T	191	- 200		-12	-55-	- 65	-	100	
4 D	946.3	Activities	WHO RANGED	DUTTE	2093	10,010	NUMBER OF	AAN	448	124	14	- 12		_	- 100	
4 17	966.7	Bellinda	PSS between	WENGER.	10000	PERMIT	St. Colorina	20,000	-046	0.0	146	11.04	101		341	
	200	2000	White Records	BL 51.7 (FT)	PURSULTAXABILIDA	33446	0.00	889		146	190	191	. 81		261	
		-2025	20.50m	101000 101000	\$16,000 PE	RESON	To the ball	846	- 155	-15-	- 15	-58	-		766	
20	MAG. 7	10010	995 broots	10100	\$1000 C	ALCOPUS.	SATISFACE PARTY	540	2546	1.0	-10	15	- 15-	-	- 20	
× E	-	- Bellevije	970 ROOM.	3480903	10000000	There's	Married .	844	100	1.0	-15	10	- 10		-	
			PRIL Moude	WICKS INCH	WASHING.	81304	540100000000	4.64	446	109	19	0.64	100		365	
紐		-	.853.0roxin.	40000	30810355	La Salania La	And the second	4.44	AMM	199	19	0.41	- 60		366	
2.17	프라	BATTER .	STATISTICS.	200000	M7445 N	360	\$100 Car	696	795	100	18	18	- 85	_	- 200	
217	200	MARCHAE.	WAY DOWN	GO STATE OF	MARKET TRACKS	-2000-1	10,000	100	(7)47		18	15	-0-	_	140	
3.17	980	Reference	WYS, Brilland.	SOMETICA	on board to contract from	Altered 1	144	100gAp	AND .	19	- 18	100	- 75	-	198	
	200.7	2600365	P55.56(seeb.	300000	930	- 00x00x1		100	62	122	19	12	-3-			
50	200 -4	MMC164	ESS brown.		3400	PER 1991 I	NA ANT	AAAnn	Street.	1.8	19					
24	ᇒ	開助	- ESS Month		100 0000	- 10 mm	40 min	1000	20.65	- 15	- 35	- 55	12			
	-	Married.	Ett.born	- 862	SANCERS.	district.	16.146	5.50	755			- 16		-	-	
AH	900.7	Married .	BELL SALES	B113,646	36600 N/O	56000	1001	6/86	08	- 22	12	-11-	2	_		
H.L	9083	BORNIA	\$50 Month	200.604.6	MERCHANIC.	400000	20000000	200	.008	4.5	19	72		-	-	
55	200-7	-0000	MARKETT.	80.004	September 1974	Millions, 1	Ball.	326		15		7.0	- 12		100	
54	2001		Historian Historian	-1000	100000000000000000000000000000000000000	638140	COST .	190	1195	-18-	-15	46	-10			
25	500	1200012	All Seman	10 0000	Telephonophic Te	-2005		1,84	2040	-25-		-55-		_	-	
	966.	Section Section	Albanean.	SELECTION.	100 miles	hite	1000	10%	- 44	12	19	100	10	_	- 10	
	255.7	mereca.	MI-Street,	TERROROPY 1	100000000000000000000000000000000000000	SISON	\$100.00	17500		18	1.65	181	160		361	
器	200-4	and age	Histories.	MARKET C.	200,000	- (000)	900	U401	1546	14	- 589		45		381	
=+	⊕ 0+		His beautier	100 MODEL	15.05375	- 30500	102005 Sur	USAN:		1.0	- 15	18	. 65	-		
誑	900	married.	MS.Astroper	PROPERTY !	1911/200	Alban	766	130	- 12	15	19	- 10		_	- 10	
ED	506.7	materia.	All horses	Market CP-12 /	0755	Albert	- 25	3.00	-75	12-		184	100		-	
21.64	201	- Belleville	Althorage:	107007.01	3000000 880000	19800		1000	- 112	74	- 12	191	- H			
	201	MINISTRUM.	Sistema	1000x231	300,51	10000	400,600	1000	3040	100	19	186	-13			
	-	-	M3. hoores	\$6,600	Market Co.	2008	157	Name .	Times (Image)	10	15	10	- 65		- 20	
	-motor "	previous.	180,000	32,600	- CONTROL -		Autoria.	0.000	1781	13	100		1-12-			
4.17	200-	MINISTER.	380.584	265 No.001	Liference Add.	-ture.	- Mari	8,650	10.45	12	1.95	131	100			
247	38-	-85%-	-155-35N-	2035/61	CARDON NO.	-100	STREET, STREET	8.00 8.00	- 8	-11	-15	38	18.			
24	200	300 S.O.	365,350	25 MARS	520	2000	printer.	5.00	275	10		15	-8-			
98	THE R. L.	MARKET SALE.	180,064	- SEC Annabora	2200		THE REAL PROPERTY.	0.00	2190	10	100	-6-				
	200	900/1604	- 景.数	SHEEDER	030%	Albiti	2000 A	8,86	466	19.	186	14	- 8-		100	
247	205	2000	-05-66	83570	03305	-	PERM	0.60	518 5188	18	19	5.61	- 11		-	
211	-	MATERIA.	30.06		Section 1	NAME OF	APOLITIE.	100	518	-11	-15-	-35-	- 8-			
1	8	THE CO.	(II) (100)	201000	1141	2017	STREET, STREET	100	- 53	- 75	-12		-5-			
4.17	200	1000	- (S) (23)	great Ann	Desir	40.00	1000	DES.	-12-	- 12	- 15	100	- 10		- 100	
16.47	965.7		国際-	BETTERN.	25/19904	40.00	201943	186	2526		13	- 12	34			
244	000-	DESCRIPTION OF THE PERSON OF T	165 100	905-0044	ecolulars.	2005	SHELDING.	100	PUE.	1.3	4.4	9.65	100		379	
24	200-	2000	45.20	Section 2	244	20070	SAME NO.	300	-950	-10-	-15	- 15	- 19			
	ALC: Y	110.70	MO-Retail	1900	Ball Sale		NAME AND ADDRESS OF THE PERSON	100		-15-	-12	-10-	- 0		- 10	
		Broken.	MED Months	100 M	THE REAL PROPERTY.	\$100	200904	phone	2040	14	-12	-12-	- 10		- 100	
噩	505.	THE PARTY.	- Belli, Broken	66.19k	Control of	ME1.00	10015346	100	1940	100	- 15	15	100			
- 17	200	2000	MED STATE	23.36	CHESTLE	MEDICAL TOTAL	100 (9600)	2004	1744	18.	-15	Jan.	. 61			
					Territo.	#D000	38554	17686	8048				-0			

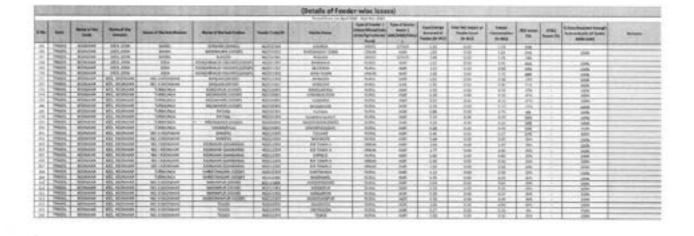


-						7.	(Details of For	COT WINE TOO	410							
-	-	-	-	No. of Street or other	-	-		Tipo d'Toubri i chantification montproduction mont	Compt.	Tipe (selp- less selve (selve) selve	Treate Sports Sellings Seaso	Freeze Company	100.000		The Special Street According Street	term
Н	-705	Page 84	Mari, Styles Mari, Styles	16.755	.000			1.5%	AAR	1.6	14	18	1.10		-	
	1900	2000	BEC. Burns	70.10	F1.91	-5000-1	THE PERSON NAMED IN	130 250	60	15	18	-35		_	- 45	
	~~~	-	MEL But a	40.00	Annex	politicas;	Parties.	2.64	200	-12	18	-10	10	_		
П	:98	RODER	MICS Rights	761380	RESPECTATION OF LINES.	90(4)(5)	1966	17904	168	122	4.00			-	100	
П	:33	BOOK A	Self-States	2010	500000000	750175	2200	386	365	5.4	4.00	12	-12		36	
H	250		MICHAEL PROPERTY	40.7 (4	550961000	40300	TOUGHER	196	- 88	-00	- 15	1.00	- 89		180	
ŧ	-20		BACK WARRY	W. H.	ADDRESS OF THE	ACTOR .	EGG-1	0.000 N.000	44	17	12	1.8	- 12		100	
	-	- 80000	MINITED BY STATE	200.44	26000 A 7 8 56	2010	100	8.00	- 12	100	100	19	10	-		
	30	PROPER	FM1. Rycus.	THEFT	1996/874 (1966)	All Total	Topico.	836	AAA	4.6	1.00	1.90	- 69		- 20	
	NAME OF	Becke	MCL Bridge	THEN	MARKAN / Territ	- NO. 15	1666	4.00	AAA	100	19	181	49		366	
		Broken.	961, 910 E	Name of Street	200,000	- BIG-+	Marie	8.60 9.64	- 84	- 55	- 15	1.8	- 85		385	
	20	STORM	Will Rubin	1901/6	- Dedicates	461000	Pull-research	690	100	- 12	-12	- 15	- 5	_	- 8	
	1966	BOOKS	WICH, Bridge	THE PERSON	S-Addison.	46.00	1 march and 1	0.00	186	-13	18			_		
	翠	\$1057.5	MELTANIA.	3904	12000	-1566	The Contract of the Contract o	8/8/9	196	1/8	19	19	- 85		- 100	
			MISS Room.	106.44	B4034000	25500	March Control	8:4%	106	1.3	18	- 48	100		100	
			MIL SHARE	THE SECOND	BATTS ARRIVE	15300	2500	5.00	115	13	-36	- 18	-8-	-	100	
	200	\$2100.0	Met Saku	79844	233	15.101C	CONTRACTOR .	100	- 111	15	-16	15	.13		- 100	
	-70	BRURN	MICL BASIS	Beliefel Ad Like	Security of	Militar.	PROBABILITY OF THE PARTY OF THE	5,65	Ener.	-15-	12		-0-	-	-	
	-	BACKET	MILE BARR	MELABORUS L/E	Section (Co.)	Miller .	10/6/248	richts.	100	18	1.00	-19-	1-70	_	- 100	
	3	10.70	SHICKSON.	#5/E3/O/S	PR 8.00	15.00cm	make the control of	3.85	2940	14	110	0.86	44			
			50-201	BELLEVIA CO	200	10.00	MACHOE.	1/30	106	18		365	- 100			
	999	2000	BEC BALL	Section 1/2	Maria.	10/00 ·	Page 100	146	174	-10-		16	-0-		385	
	8	E-STATE OF	WWW. Rooms	Distance of the	STREET, ST.	Rich I	2000	156		-12	19	- 12	-12-	-	100	
			. PRO Rest &	2.65 2500	MALES	PRINCES.	19854	136	700	12	12	1.6	100			
	256	BOOKS	Hill Horse	At 12 begins	Rosperin	2007	104904	3305	1794	6.0	490	180	10.			
	-000		200 Ent 1	Boline 18	586	10001	35653	100	44	1,80	4.00	295	10		386	
ŀ	-006	80000	(NO Rose	19,7% 33	Politic	10000	1000	- 555	219	1.0	-16-	16	- 12	-		
ľ	940	BANKA	100 Fores	Market 18	81891	Access .	5000	100	- 02	-10-	-15	-15-	-	-	- 0	
		- Bridge	TRO Posts	Personal Control of Co	3006	1655	METAL DATABLE	2.50		- 12	19		-8-	-	_	
	-250	55050	730 Bx54	2138855547-25	20064	ADDOOR 1	ADMINIST.	7/4/4	198	17	1.00	197	100			
		1000	TES BUTS	THE REAL PROPERTY.	10/2/C2007	1000	Arris	5.69	27.00	140	195	195	310			
	-	20050	WE PULL	THE RESERVE OF	100000	2000	550	3,44	med local	1/2	18				- 100	
ľ	THE R.	BOOKS	THE BUT &	DOMESTICAL CO.	120000000000000000000000000000000000000	HELEN.	Service.	5.04 5.04	1745	-15			-85-	-		
	2000	TOO SEC.	BES. Ruck	THE RESIDENCE AND	Printerpoliticals.		ALCOHOL:	9102		8.0	19		-			
ļ	300	20050	200,0104	THE RESERVE OF THE PERSON NAMED IN	production of the	40046	Model	悪	1946	15.	19	5.80	124			
۰	-20	BUCKE	900 KH64 900 KH44	District Co.	THE REAL PROPERTY.	#50.00 #50.00	- Printerior	836	258	-14		- 15	85			
ľ	-60	ENGRE	RES PROFILE	Name and Add	Marriage at the	#15(B)	- Interest	5,60	1081	12	- 15	-6-	-0-	-		
		ROOM	BES Field	N. of Bridge	people	49000	PUNCTO	266	100	-12-		-15-	- 45	-	-	
	2501	ANTERN	260.00464	SCIENCES.	104000	#00mm	Section .	6.86	Tropi.	101	122	12-	-			
ļ	BALLANSKI	800		100	100	100	16,000,00	686	498		- 696	86			(85)	
	8	100		140	September 18	5000	19505	V003	105	146	1.00	16	60		Landan T	
				144	(Married of	41000	HARLING.	100	-65-	-10-	- 12	55			- 10	
	-	1000	263 260	A 8 0 0 000	Deliver server	ALLEY	3555	5.66	-12	13	19-	-15	-2		- 100	
		100	- Par	35500	20723-0075	ALC: UNK			306	- 14	12	1.11	- 22		- 12	
			- 20	JAKU 1000	Section 2	RITE.	MUNICIPAL TO A STATE OF THE PARTY OF THE PAR	3000		-15	4.94	146	41		315	
	-385	800 800 900	A)	(A) (2 (c)	100000	-0.00	Mindales.	100	725	1.2	-15	6.8	29.		200	
į	鸾	1000	562	more con-	Married Co.	\$1500	Married Co.	100	100	14	- 12	100	- 12		-0-	
l	靈	Infor.	- PM	, E9003	12104	ACK!TE	N. Hallet	100		106	1.0	140	80.		- 2	
ļ	300	804	200	720001	0000	311324		1760	Ana	100	197	111	146		- 1	
ļ	-20	and the	765	312708	90,000	4-2000	150		408	1/8	18	100	35		100	
ŀ			- 5	907,750 907,750	MARKET .	2000-	MACHINE.	- 00	- 04	100	- 13	18.	-35			
ŀ	-30	854	100.0	ACCION	PROFILE.	COLUMN TO SERVICE STATE OF THE PERSON AND ADDRESS OF THE PERSON AND AD	Barriera	6.64	- 12	-13	15	- 12	- 10			
	-	10000	255	2805 NR	90.00	CALACID.	Spinish.	3/84	ALK.	100	18		R		- 10	_
ļ			(83)	4669	3666	-339-	phon	8-84	Article	101	1.75	186	-2-		- 2	
ŀ	-00	805	- 20	20000	9000	200	- 103	505	518	- 105	18	166	40		- 70	
i	100	100.00		POSTER	0000	-500	1000	0.000 0.000	118	- 55	-10	05	- 85-		100	
ı		Before:	218	BNG BYCK	9166	1000	(0.211)	244	And And	13.	17	-12-		-	_	
	型	in/hat	200	JAMES TOWN	products	417041	6000	500 500	118	105	18	10	100		-	
		100/100	298	ARREST STATE	Park Trans	4004	400,000,000	0.04	100	100	12	14	-		- 2	



-	-	22000	_	272700			(Details of Fee	der whe little	HESD.	100						
-			Bapa of the Street	-	-	Peter State S		Special States	C. TANKET T	torten bearing	Made for Equipment Health Count Str. 801.0	I major I major prince I m m nj	-	**	Million Records Consigly Section of the Consistency of Taylor (SAR) (1985)	-
땐	-100		- 51	2007 TOWN	AND 180	2000	popularies.	900		18	18	-0.5	-70-		100	
21			70	- CONT. (1944)	state lower	80000	- 1	- 20	848	-55-		175	- 22	_		
m	-		764	AND DWG	AAA IMA	MANAGEME	LIEBUS.	1000	200	-12-	-12	16		-	- 5	
ж.)	296	100.00	268	AUTOR SCHOOL	AND VALL	MENUNE	9694	37905	722	13	14	- 100	- 22	_	100	
87	-26	5.4555	254	100 Monthly	PROPERTY.	ALC: YES	Milital	324	- 64	436	110	100	- 10		165	
84	-15	2-1-202		interior a	#synfrance	R1000	Mana	196	100		0.00	1.00	201		100	
94	-55	2 - 255 -	- 61	Table 1994	ESSENCE.	MATTER .	THE LEASE PROPERTY.	540	- 65	-10	18	110	86		100	
83	500		1	MORNING A	10479000	1-202-1	5400	200	- 12	15	- 15	-15-	-13-	-	100	
87	366	M	(10.8	Selectoria	NOV MOR	40700	Marian	E-max	144	12	- 24	-15-	-0-	-		
э.)	396		- (10)	Selectory).	William Mary A.	ALTERNA .	201 Security	5,66	44	11.1	1.0	100	100		-	
54	-150	5 505	100	2000000		Alme	MODE	666	198	3/8/	196	1190	100		100	
54	-2	5	8.60	- Indexity	189,6554	Acres	2004			1/9"	100	100	794		100	
54		1000	100	professor.	THE REAL	AUGUS	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	MM	- 65	119	165	4.8	- 64		100	
51	rigi		70%	Proteins.	paramete.	2000	Shared Shared	100	722	-12	-15	18.			- 100	
	-		10.00	NAMES.	SHOW AND ADDRESS.	2000	Page 1	444	And .	10	18	-0-	-2-	-	- 10	
E.	100	M. P. Marce	1940	KINN	SUALIS.	46.09	SHOW NOT	5,60	166	1.75	-15-	- 12-	- 65		- 6	
11.	299	858	100	30964	5000	420(6)	Avenue.	5.00	319	1.00	122	1.6			- 100	
54	-59	8	199	599.0	SCHOOL SHOWING THE PARTY OF THE	- 4000	Asserted	Avenu.	test	100	1.0	100	- 42		984	
54	7		196	ADDRESS.	Minda	5965	10000	585	705	105	.16		- 0		360	
54	-2		- 500	53000 340	STATE OF	55/55	90460	545	348	10	199				369.	
91	390		100	840	800	ACCES.	107.00	100	105	- 57	8.00	100	275	-	100	
23	386	6.1 100	-25	\$40	95,0	#0.F04	254	100	44	-12	- 15	- 15		-	385	
C	-96		8,000	840	Montplate	80675	10764	186	120	-10-	-12	-10-	-0-	-	- 10	
s	-396		Appli	240	Scottage Coll	800%	360560908	100	100	1.8	12	140	-8-	_	90.	
ы	-384	N-1650	- 60	Sizery.	SUPPLY .	Minister.	PORTS CO.	100	104	100	346	100	1000		296	
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# BUREAU OF ENERGY EFFICIENCY

Examination Registration No.: ..... EA-0432

Accreditation Registration No.: AEA-0123



# Certificate of Accreditation

This is to certify that Mr./Ms....RGopalakrishna having its trade/registered office at Hyderabad ........ has been given accreditation as accredited energy auditor. The certificate shall be effective from ...26th day of .November 2013...

The certificate is subject to the provisions of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

This certificate shall be valid until it is cancelled under regulation 9 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010

On cancellation, the certificate of accreditation shall be surrendered to the Bureau within fifteen days from the date of receipt of order of cancellation.

Your name has been entered at AEA No...0123.. in the register of list of accredited energy auditors. Your name shall be liable to be struck out on the grounds specified in regulation 8 of the Bureau of Energy Efficiency (Qualifications for Accredited Energy Auditors and Maintenance of their List) Regulations, 2010.

Given under the seal of the Bureau of Energy Efficiency, Ministry of Power, this .......26......... day of May 2014

Bureau of Energy Efficiency New Delhi

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