

**TPNODL**  
**TP NORTHERN ODISHA DISTRIBUTION LIMITED**  
(A Tata Power and Odisha Government Joint Venture)

Ref: TPNODL/EA/01/2022/01

Date: 22<sup>th</sup> March'2022

To

The EIC (E)-cum-PCEI&SDA(O)

Power House Square

Unit-V, Bhubaneswar

Sub: -Submission of First Energy Accounting Report of Q-2 TP Northern Odisha Distribution LTD. for the FY 2021-2022.


Sir,

This is with reference to the vide letter No. 18/1/BEE/DISCOMs/2022/6780-849 recived from BEE, the compliance of statutory obligation for first energy accounting of Q2 (July-21 to September 21) is submitted in the specified Proforma (Form-1) for TPNODL.

The duly signed hard copy is attached for your kind refrence please. The soft copy of the requisite data submitted on 11.03.2022.

This is favour of your information and necessary action.

Thanking you

  
Yours Faithfully 22/03/22

D.K. Tyagi

Chief of Operation

TPNODL **Dushyant Tyagi**  
Chief-Operation Services  
TPNODL

Cc to the Director, Bureau of Energy Efficiency ,4rth Floor, Sewa Bhawan, R. K. Puram, New Delhi-110066. Copies of enclosed attached.

**Performance Summary of Electricity Distribution Companies**

<b>1</b>	Period of Information Year of (FY) information including Date and Month (Start & End)	1st July, 2021 - 30th September, 2021	
<b>2</b>	<b>Technical Details</b>		
<b>(a)</b>	<b>Energy Input Details</b>		
(i)	Input Energy Purchase (From Generation Source)	Million kwh	1445.48
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh	1445.48
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded)	Million kwh	1160.73
<b>(b)</b>	Transmission and Distribution (T&D) loss Details	Million kwh	284.75
		%	0.20
	Collection Efficiency	%	82%
<b>(c)</b>	Aggregate Technical & Commercial Loss	%	34%

**I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of 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**



Name of Authorised Signatory

Name of the TPNODL

Full Address: Januganj, Balasore, PTCL

**Dushyant Tyagi**  
Chief-Operation Services  
TPNODL



Signature:-

Name of Energy Manager: Mr. Manish Kriplani

Registration Number:

Seal

## General Information

1	Name of the DISCOM	TPNODL		
2	i) Year of Establishment	1st April 2021		
	ii) Government/Public/Private	Public Private Partenership		
3	<b>DISCOM's Contact details &amp; Address</b>			
i	City/Town/Village	TP NORTHERN ODISHA DISTRIBUTION LIMITED		
ii	District	BALASORE		
iii	State	ODISHA	Pin	756019
iv	Telephone	06782-244865	Fax	06782-244259
4	<b>Registered Office</b>			
i	Company's Chief Executive Name	BHASKAR SARKAR		
ii	Designation	CHIEF EXECUTIVE OFFICER		
iii	Address	TP NORTHERN ODISHA DISTRIBUTION LIMITED		
iv	City/Town/Village	Januganj	P.O.	
v	District	BALASORE		
vi	State	ODISHA	Pin	756019
vii	Telephone	06782-244865	Fax	06782-244259
5	<b>Nodal Officer Details*</b>			
i	Nodal Officer Name (Designated at DISCOM's)	Mr. Dushyant Kumar Tyagi		
ii	Designation	Chief of Operation		
iii	Address	BALASORE		
iv	City/Town/Village	Januganj	P.O.	
v	District	BALASORE		
vi	State	Odisha	Pin	756019
vii	Telephone	06782-244865	Fax	06782-244259
6	<b>Energy Manager Details*</b>			
i	Name	Mr. Manish Kriplani		
ii	Designation	HOD (Energy Audit)	Whether EA or EM	
iii	EA/EM Registration No.			
iv	Telephone	9799495503	Fax	
v	Mobile	9799495503	E-mail ID	<a href="mailto:manish.kriplani@tpnodl.com">manish.kriplani@tpnodl.com</a>
7	<b>Period of Information</b>			
	Year of (FY) information including Date and Month (Start & End)	1st July, 2021 - 30th September, 2021		

  
 Manish Kriplani

**Form-Details of Input Infrastructure**

1	Parameters	Total	Covered during in audit	Verified by Auditor in Sample Check	Remarks (Source of data)
			5		TPNODL Database
ii	Number of divisions		16		TPNODL Database
iii	Number of sub-divisions		50		TPNODL Database
iv	Number of feeders		765		TPNODL Database
v	Number of DTs		71357		TPNODL Database
vi	Number of consumers		2051642		TPNODL Database
<b>2</b>	<b>Parameters</b>	<b>66kV and above</b>	<b>31k</b>	<b>11/22kV</b>	<b>LT</b>
a. i.	Number of conventional metered consumers	37	136	450	1959946
ii	Number of consumers with 'smart' meters	NA	NA	NA	NA
iii	Number of consumers with 'smart prepaid' meters	NA	NA	NA	NA
iv	Number of consumers with 'AMR' meters	37	136	450	NA
v	Number of consumers with 'non-smart prepaid' meters	NA	NA	NA	NA
vi	Number of unmetered consumers	NA	NA	NA	91696
vii	Number of total consumers	37	136	450	2051642
b. i.	Number of conventionally metered Distribution Transformers	NA	NA	2208	NA
ii	Number of DTs with communicable meters	NA	NA	608	NA
iii	Number of unmetered DTs	NA	NA	69149	NA
iv	Number of total Transformers	NA	NA	71357	NA
c. i.	Number of metered feeders	NA	94	306	NA
ii	Number of feeders with communicable meters	NA	94	49	NA
iii	Number of unmetered feeders	NA	NA	459	NA
iv	Number of total feeders	NA	94	765	NA
d.	Line length (ct km)		106237		
e.	Length of Aerial Bunched Cables		43774		
f.	Length of Underground Cables		401		

*Condyler*

3	Voltage level	Particulars	MIU	Reference	Remarks (Source of data)	
		Long-Term Conventional	0	Includes input energy for franchisees		
		Medium Conventional	0			
		Short Term Conventional	0			
		Banking	0			
		Long-Term Renewable energy	0			
		Medium and Short-Term RE	0			
		Captive, open access input				
i	66kV and above				Includes power from bilateral/ PX/ DEEP Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee	
		Sale of surplus power	408			FG Billing Source
		Quantum of inter-state transmission loss	0			
		Power procured from inter-state sources		As confirmed by SLDC, RLDC etc	FG Billing Source	
		Power at state transmission boundary	408	Based on data from Form 5	FG Billing Source	
		Long-Term Conventional	0			
		Medium Conventional	0			
		Short Term Conventional	0			
		Banking	0			
		Long-Term Renewable energy	0			
		Medium and Short-Term RE	0			
		Captive, open access input	0			
		Sale of surplus power	1,038		FG Billing Source	
		Quantum of intra-state transmission loss	0			
		Power procured from intra-state sources				
		Input in DISCOM wires network	1,038		FG Billing Source	
iii		Renewable Energy Procurement	1,445		BST Bill OPTCL	
iv	33 KV	Small capacity conventional/ biomass/ hydro plants Procurement	0			
		Captive, Open access input	0			
		Renewable Energy Procurement	0			
v	11 KV	Small capacity conventional/ biomass/ hydro plants Procurement	0			
		Sales Migration Input	0			
vi	LT	Renewable Energy Procurement	0			
		Sales Migration Input	0			
vii		Energy Embedded within DISCOM wires network	0			
viii		Total Energy Available/ Input	1,445		BST Bill OPTCL	



4	Voltage level	Energy Sales Particulars	MU	Reference
i	LT Level	DISCOM' consumers	629	Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive	0	Non DISCOM's sales
		Embedded generation used at LT level	0	Demand from embedded generation at LT level
		Sale at LT level	629	FG Billing Source
		Quantum of LT level losses	281	FG Billing Source
		Energy input at LT level	910	FG Billing Source
		DISCOM' consumers	124	Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive	0	Non DISCOM's sales
		Embedded generation at 11 KV level used	0	Demand from embedded generation at 11KV level
		Sales at 11 KV level	124	FG Billing Source
ii	11 KV Level	Quantum of losses at 11 KV	4	FG Billing Source
		Energy input at 11 KV level	128	FG Billing Source
		DISCOM' consumers		Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive	0	Non DISCOM's sales
		Embedded generation at 33 KV or below level	0	This is DISCOM and OA demand met via energy generated at same voltage level
		Sales at 33 KV level	0	
		Quantum of losses at 33 KV	0	
		Energy input at 33KV Level		
		DISCOM' consumers	407.523	Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive	0	Non DISCOM's sales
iii	> 33 KV Level	Cross border sale of energy	0	EHT Consumer-37
		Sale to other DISCOMs	0	
		Banking	0	
		Energy input at > 33KV Level	408	FG Billing Source
		Sales at 66KV and above (EHV)	408	FG Billing Source
		Total Energy Requirement	1,445	BST Bill OPTCL
		Total Energy Sales	1,161	FG Billing Source

Energy Accounting Summary			
	DISCOM	Input (in MU)	Loss (in MU)
5	i	910	281
	ii	128	4
	iii	0	0
	iv	408	0
6	Open Access, Captive		Loss (in MU)
	i	0	0
	ii	0	0
	iii	0	0
iv	0	0	
		Sales (in MU)	Loss %
		629	0.308583675
		124	0.030116847
		0	0
		407.523	0

Loss Estimation for DISCOM	
T&D loss	285
D loss	285
T&D loss (%)	0.197002799
D loss (%)	0.197002799

**Details of Division Wise**

Period From July, 2021 To Sept, 2021

Losses

Division

S.No	Name of circle	Circle code	Name of Division	Consumer profile				Energy parameters (MU)				Losses			Commercial Parameter		AT & C loss (%)				
				No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)	% of number of connections	Connected Load metered (MW)	Connected Load Un-metered (MW)	Total Connected load (MW)	% of connected load	Input energy (MU)	Metered energy (MU)	Unmetered/a assessment energy	Total energy consumption	% of energy consumption		T&D loss (MU)	T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore
1	Balasore	1	BED	4872	2021	50803	82%	104.2	2.026	106.226	55%	29.005	1.897	30.942	41%	8.434	10%	15.1483	8.3617	55.19%	
				67	5	68	0%	0.215	0.004	0.219	0%	0.058	0.018	0.076	0%			0.0135	0.0072	53.33%	
				30743	1	10748	17%	31.092	0.053	31.145	17%	83.467	8.562	6.616	9.158	20%			6.9956	5.9773	85.40%
				47	0	47	0%	21.123	0	21.123	12%	14.933	19.09	14.933	20%			11.2889	10.9077	96.98%	
<b>Sub-total</b>				545	20	565	1%	28.727	0.03	28.757	16%	19.09	14.933	26%			12.4776	11.2357	90.21%		
2	Balasore	1	MED (BAST)	60184	2047	62231	100%	191.463	2.113	193.576	100%	83.367	3.265	74.933	26%	8.434	10%	45.9239	36.5486	79.59%	
				71495	5081	76576	90%	85198	5.182	85.18	79%	11.693	3.366	15.049	67%			6.7232	3.1978	47.50%	
				1671	1871	3542	4%	6.416	5.049	11.465	10%	1.255	2.006	3.261	14%			0.7767	0.3101	39.93%	
				3919	0	3919	5%	10.195	0.019	10.214	8%	38.731	2.389	0.18	2.569	11%			1.9966	1.9871	99.52%
<b>Sub-total</b>				772	185	957	1%	2.48	0.317	2.797	3%	1.167	0.293	1.46	6%			1.0089	0.4984	49.40%	
3	Balasore	1	BED Jalapour	7858	7143	85001	100%	110.994	10.567	122.561	100%	38.731	16.684	55.415	100%	16.202	42%	10.6541	6.1887	58.09%	
				98118	11678	109796	90%	90.51	8.037	98.547	60%	18.574	23.689	45%			10.2227	3.7493	37.49%		
				2502	1713	4215	3%	10.688	7.748	18.436	11%	1.123	3.994	5.117	10%			1.0769	0.4794	44.52%	
				5987	28	6015	5%	15.524	0.05	15.574	10%	65.401	4.004	0.365	4.369	8%			3.291	2.8022	85.15%
<b>Sub-total</b>				4	0	4	0%	0.783	0	0.783	0%	0.263	0	0.263	0%			0.1791	0.3469	84.10%	
4	Balasore	1	MED Balasore	981	426	1407	1%	29.26	0.449	29.709	18%	17.927	1.465	19.392	37%			11.6597	10.2717	88.10%	
				103109	4279	107388	94%	104.871	3.835	108.706	52%	19.012	4.215	23.227	46%			10.0911	4.4406	47.33%	
				2019	217	2236	2%	7.496	0.956	8.452	4%	1.824	0.45	2.274	4%			0.5017	0.106	21.13%	
				5967	28	5995	5%	21.224	0.035	21.259	11%	84.378	5.676	0.329	5.955	11%			4.9536	4.7743	96.38%
<b>Sub-total</b>				53	0	53	0%	50.26	0	50.26	24%	13.349	26%	13.349	26%			10.9893	12.4414	113.24%	
5	Balasore	1	MED Bhubrak	12491	4722	111113	100%	10.44	0.186	10.626	100%	84.378	46.577	5.288	100%	32.513	39%	29.8352	23.8789	80.03%	
				135552	4825	140377	93%	311.322	4.764	316.086	74%	30.016	3.523	33.539	66%			14.386	7.506	52.18%	
				6932	146	7078	1%	6.349	0.738	7.087	4%	1.443	0.423	1.866	4%			0.3922	0.0598	15.25%	
				6964	32	7096	5%	20.359	0.061	20.42	11%	64.392	5.365	0.392	5.757	11%			4.4928	3.9599	87.69%
<b>Sub-total</b>				38	0	38	0%	10.404	0	10.404	5%	2.544	5%	2.544	5%			2.3245	2.2284	95.87%	
6	Bhadrak	2	MED Bhubrak	2065	198	2263	1%	10.361	0.26	10.621	6%	6.692	0.535	7.227	100%	13.429	21%	4.928	3.959	79.49%	
				146254	5201	151455	100%	18.011	5.823	19.834	100%	64.392	46.09	4.873	100%			25.1818	16.5132	65.58%	
				195105	4883	173788	93%	174.79	3.946	178.736	62%	49.821	5.325	55.146	52%			24.7897	11.2821	45.51%	
				752	32	784	0%	3.444	0.165	3.609	1%	0.435	0.137	0.572	1%			0.1303	0.0306	23.48%	
<b>Sub-total</b>				11174	0	11251	6%	30.986	0.141	31.127	12%	142.319	10.123	10.524	10%			8.1079	7.7339	95.39%	
7	Bhadrak	2	MED Bhubrak	498	62	560	1%	44.81	0	44.81	15%	17.881	0.452	18.333	17%			16.1499	13.6388	84.45%	
				182379	4854	187433	100%	29.852	4.385	34.237	100%	142.319	100.748	6.315	107.063	100%			61.698	44.6135	72.38%
				104804	4384	109188	95%	90.747	4.231	94.978	77%	25.501	3.981	29.482	83%			13.0673	4.5704	34.98%	
				904	77	981	1%	4.362	0.331	4.693	4%	0.893	0.236	1.129	3%			0.2524	0.0563	22.31%	
<b>Sub-total</b>				9	0	9	0%	14.98	0.082	15.062	10%	51.451	3.272	3.408	10%			2.6605	2.5609	96.41%	
8	Baripada	3	BRED	1132	92	1224	1%	7.247	0	7.247	5%	0.591	0	0.591	2%			0.5518	0.521	94.47%	
				10872	4603	115475	100%	12.716	4.787	17.503	100%	51.451	30.868	4.463	35.331	100%			17.2919	8.0558	46.59%
				212285	7585	219870	93%	201.144	5.936	207.08	75%	45.464	5.49	50.954	70%			29.26	11.5396	48.61%	
				2917	67	2984	1%	9.786	0	9.786	4%	2.103	0.594	2.697	4%			0.5142	0.1235	24.02%	
<b>Sub-total</b>				11036	14	11050	5%	38.758	0.074	38.832	14%	93.987	9.485	9.811	13%			7.8006	7.105	91.10%	
9	Baripada	3	UED	34	0	34	0%	9.124	0	9.124	3%	4.848	0.326	5.174	7%			3.1274	4.008	128.16%	
				2439	38	2477	1%	11.908	0.037	11.945	4%	4.024	0.504	4.528	6%			3.2384	1.5807	48.81%	
				7704	7704	236377	100%	211.21	6.347	217.557	100%	93.987	65.924	6.854	72.778	100%			37.9405	24.3578	64.20%
				96096	8510	104606	95%	60.705	4.882	65.587	80%	16.567	3.621	20.188	81%			9.2649	2.6131	28.20%	
<b>Sub-total</b>				4119	856	110328	100%	87.106	5.258	92.364	100%	28.562	20.818	4.034	24.852	100%			12.397	5.0156	40.46%
10	Baripada	3	RED	190553	4119	194672	95%	144.433	2.56	146.993	77%	30.518	2.755	33.273	69%			14.6671	5.8764	40.07%	
				2523	85	2608	1%	4.469	0.614	5.083	5%	1.747	0.339	2.086	4%			0.4099	0.4093	100%	
				6291	23	6314	3%	21.351	0.094	21.445	11%	64.57	5.924	0.314	6.238	13%			4.7353	4.0702	85.95%
				18	0	18	0%	5.141	0	5.141	3%	2.495	0	2.495	5%			1.6769	2.2202	118.99%	
<b>Sub-total</b>				2317	22	2339	1%	8.313	0.055	8.368	4%	3.825	0.528	4.353	9%			3.2021	1.0403	31.50%	
11	Jalpur	4	JRED	20102	4249	205951	100%	187.808	3.323	191.131	100%	64.57	44.509	3.986	48.445	100%			24.9913	13.2564	53.04%
				85257	7794	93051	92%	98.972	4.917	103.889	21%	26.392	8.173	34.465	11%			16.331	8.3567	51.17%	
				1498	116	1614	2%	6.314	0.464	6.778	1%	1.502	0.485	1.987	1%			0.3338	0.0495	14.83%	
				5172	32	5204	5%	21.156	0.039	21.195	5%	3.2969	7.411	0.37	7.781	3%			6.5311	6.421	98.31%
<b>Sub-total</b>				58	0	58	0%	32.847	0	32.847	65%	231.289	0	231.289	76%			150.5305	151.9148	100.92%	
<b>Sub-total</b>				685	32	717	1%	30.279	0.035	30.314	1%	329.697	295.208	9.359	304.568	100%			193.7561	186.4947	96.25%
<b>Sub-total</b>				93102	3475	96577	95%	80.987	2.664	83.651	81%	23.21	4.062	27.272	83%			12.2333	8.1769	66.80%	

12	Jajpur	4	ITED	Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others	830 3608 1 585	185 40 0 112	1015 3648 1 697	1%	4%	0%	1%	4.101 11.617 0.722 2.283	4.964 11.854 0.722 2.283	5%	11%	0%	3%	0.427	1.011	3%	27,251	45%	0.2263 2.515 -0.086 0.7396	0.026 2.9346 0 0.329	11.09%	116.68%	0.00%	44.46%
	Sub-total				58126	3812	101938	100%	94%	100%	100%	91.115	102.784	100%	65%	100%	100%	4.89	32.962	100%	27,251	45%	15.6282 12.5289 4.9309 4.9032	11.4665 7.3119 0.9311 4.4756	73.37%	58.36%	11.58%	11.58%
13	Jajpur	4	KUED	Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others	105631 1334 4704 31	6301 168 65 0	111932 1502 4769 31	94%	1%	4%	0%	87.663 1.582 18.537 10.053	91.608 12.288 18.564 16.053	65%	9%	13%	11%	6.381	28.336	65%	35,774	45%	12.5289 5.9301 0.567	7.3119 8.0589 0.089	15.70%	151.77%	104.01%	59.36%
	Sub-total				112286	6615	118903	100%	100%	100%	100%	2.034	2.186	2%	2%	100%	100%	0.181	0.633	1%	35,774	45%	12.5289 23.1401	7.3119 20.0326	15.70%	86.57%	52%	52%
14	Keonjhar	5	KED	Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others	104962 1021 5055 31	2560 51 17 31	107522 1072 5072 31	93%	1%	4%	0%	87.441 4.253 10.978 27.254	83.86 4.877 10.118 27.254	51%	3%	13%	17%	1.927	23.579	37%	-1,614	-3%	0.2618 4.3283 13.2803	0.0569 4.1004 15.8239	21.73%	94.73%	119.15%	94.80%
	Sub-total				112373	2645	115019	100%	92%	100%	100%	16.632	1.848	100%	27%	100%	100%	3.226	64.342	100%	-1,614	-3%	39.7282 10.9961	10.0683 7.5489	94.80%	94.35%	94.35%	94.35%
15	Keonjhar	5	JOED	Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others	785 5221 58 1100	44 9 0 9	829 5230 58 1109	1%	6%	0%	3%	3.616 21.871 136.182 40.031	1.846 21.905 116.183 46.041	1%	8%	46%	16%	0.253	0.712	1%	5,679	4%	4.7667 59.8093	4.8738 60.8159	21.61%	102.25%	101.68%	102.11%
	Sub-total				94466	3784	88270	100%	95%	100%	100%	28.881	2.304	100%	78%	100%	100%	0.498	22.052	16%	5,679	4%	16.4857 10.9961	16.8394 7.5489	102.11%	102.11%	97.71%	40.45%
16	Keonjhar	5	AED	Agricultural Commercial/Industrial-LT Commercial/Industrial-HT Others	123702 611 4269 16	3710 11 46 0	127412 622 4315 16	95%	0%	3%	0%	97.042 2.264 16.163 4.247	84.793 1.917 14.136 3.247	78%	3%	12%	3%	3.454	26.036	78%	17,211	33%	0.0784 3.1716 1.2706	0.0293 2.9818 2.5489	37.37%	94.07%	200.68%	81.89%
	Sub-total				130166	3901	134067	100%	100%	100%	100%	11.816	3.061	100%	7%	100%	100%	0.201	2.241	7%	17,211	33%	17.7217 37.7217	10.9153 10.9153	81.89%	81.89%	81.89%	81.89%

*Handwritten signature*















