

**Record Note of Annual Performance Review of TPCODL held on 22.06.2022 at 11:00AM through video-conferencing in the presence of the Commission**

**Date of Review : 22<sup>nd</sup> June, 2022**  
**Period of Review : April 2021-march 2022**

The performance of TPCODL for the period April 2021 to March 2022 of FY 2021-22 was reviewed by the Commission on 22<sup>th</sup> June, 2022 at 11:00 AM through video conferencing. CEO TPCODL presented the performance of TPCODL and senior officials of TPCODL were present during the review. Number of safety & operational initiatives taken by TPCODL for improving performance was highlighted during the presentation.

TPCODL was vested with operation of Central part of distribution system of Odisha on 01.06.2020. The performance of TPCODL as indicated in their presentation with regard to the key performance indicators are summarized below:-

<b><u>ANNUAL PERFORMANCE OF TPCODL-As on March-2022</u></b>					
<b>BULK SUPPLY</b>	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-22</b>	<b>OERC Approval for 2021-22</b>
<b>AVG. DEMAND (MVA)</b>	1591.02	1364.37	1429.23	1318.45	1660.00
Energy input (MU)	8784.00	8160.11	8370.43	8814.32	9290.00
BST & Tr.Charge bill (Cr.)	2626.42	2335.29	2454.02	2741.25	2787.15
Payment made to GRIDCO (Cr.)	2617.88	2310.94	2047.30	2677.04	
<b>SALE TO CONSUMERS (MU)</b>					
EHT	1245.69	1038.27	948.15	1148.79	997.78
HT	1254.65	1293.75	1137.58	1295.36	1340.21
LT	3810.52	3939.17	4116.59	4288.45	4821.81
<b>TOTAL</b>	<b>6,310.86</b>	<b>6,271.19</b>	<b>6,202.32</b>	<b>6,732.60</b>	<b>7159.80</b>
<b>% of LT Sale</b>	<b>60.38%</b>	<b>62.81%</b>	<b>66.37%</b>	<b>63.70%</b>	<b>67.35%</b>
<b>DISTRIBUTION LOSS (%)</b>					
Energy input (MU) EHT	1,245.69	1,038.27	948.15	1,148.79	997.78
HT(Taking loss as 8 % )	1,363.74	1,406.25	1,236.50	1,408.00	1,456.75
LT Purchase Assumed	5,680.60	5,258.34	5,690.92	5,756.93	6,288.63
HT (Assume)	8.00%	8.00%	8.00%	8.00%	8.00%
LT	32.92%	25.09%	27.66%	25.51%	23.32%
HT & LT	32.81%	26.52%	29.21%	27.16%	25.69%
<b>OVERALL</b>	<b>28.16%</b>	<b>23.15%</b>	<b>25.90%</b>	<b>23.62%</b>	<b>22.93%</b>
<b>BILLING EFFECIENCY (%)</b>					
HT	92.00%	92.00%	92.00%	92.00%	92.0%
LT	67.08%	74.91%	72.34%	74.49%	76.7%
HT & LT	67.19%	73.48%	70.79%	72.84%	74.3%
<b>OVERALL</b>	<b>71.84%</b>	<b>76.85%</b>	<b>74.10%</b>	<b>76.38%</b>	<b>77.1%</b>
<b>BILLING TO CONSUMERS (CR.)</b>					
EHT	773.57	665.00	640.28	796.31	630.44
HT	786.36	816.85	742.45	919.74	851.80
LT	1807.21	1898.54	2020.78	2223.01	2353.34
<b>TOTAL</b>	<b>3,367.14</b>	<b>3,380.40</b>	<b>3,403.51</b>	<b>3,939.07</b>	<b>3,835.58</b>
Billing to Govt.Dept &PSU					
<b>COLLECTION RECEIVED (CR.)</b>					
EHT	776.44	675.82	666.09	797.21	624.14
HT	775.66	785.58	770.00	943.66	843.28
LT	1705.49	1598.30	1800.44	2121.93	2329.81
<b>TOTAL</b>	<b>3,257.59</b>	<b>3,059.70</b>	<b>3,236.53</b>	<b>3,862.80</b>	<b>3797.22</b>
<b>COLLECTION EFFICIENCY (%)</b>					
EHT	100.37%	101.63%	104.03%	100.11%	99%
HT	98.64%	96.17%	103.71%	102.60%	99%
LT	94.37%	84.19%	89.10%	95.45%	99%
HT & LT	95.67%	87.79%	93.02%	97.54%	99%
<b>OVERALL</b>	<b>96.75%</b>	<b>90.51%</b>	<b>95.09%</b>	<b>98.06%</b>	<b>99%</b>
<b>AT &amp; C LOSS (%)</b>					
LT	36.70%	36.93%	35.55%	28.90%	24.09%
HT & LT	35.72%	35.49%	34.15%	28.95%	26.43%
<b>OVERALL</b>	<b>30.49%</b>	<b>30.44%</b>	<b>29.54%</b>	<b>25.10%</b>	<b>23.70%</b>

### **Commission's Observations:**

The Commission reviewed the compliances of the directions given in last performance review meeting. C.E.O., TPCODL apprised the Commission about the compliances made by TPCODL.

1. The Sale of energy, distribution loss, Billing & Collection efficiency and AT&C loss relating to business operation of TPCODL for FY 2020-21 and FY 2021-22 are as follows:-

	As on 31.03.2021	As on 31.03.2022	Increase / Decrease	(↑↓)
EHT Sale (MU)	948.15	1148.79	200.64	↑
HT Sale (MU)	1137.58	1259.36	121.78	↑
LT Sale (MU)	4116.59	4288.45	171.86	↑
Distribution Loss	25.90%	23.62%	2.28	↓
Billing Efficiency	74.10%	76.38%	2.28	↑
Collection Efficiency	95.09%	98.06%	2.97	↑
AT & C Loss	29.54%	25.10%	4.44	↓

From the above table it is observed that there is increase in sale by 200.64 MU (+21.16%), 121.78 MU (+10.7%) and 171.86 MU (+4.17%) for EHT, HT and LT category of consumers respectively compared to previous year.

2. Focus on safety aspect, conditions based maintenance (including DGA, Thermography, Ultrasonic detection) sub-station automation system, GIS substation and 100% consumer tagging in integration with GIS, enforcement billing process mapped in SAP-ISU, linking of consumers with feeders & DTs in SAP, vendor registration portal, MO Bidyut portal and Mobile Customer Care Centre are some of the major initiatives taken by TPCODL for improving performance of DISCOM. TPCODL has also taken other key initiatives such as creation of 15 No. of customer care centre, organizing key consumer meet, Gaon Chalo Camps across the Divisions, RWA meet, digital promotion for improvement in customer experience service & awareness.
3. TPCODL submitted that 1,34,714 number of consumers have been added during FY 2021-22 with 310 MW of additional CD. The total number of consumers as on 31.03.2022 is 29,27,487.
4. The AT & C loss has decreased to 25.10% in the FY 2021-22 (against 29.54% in previous FY 2020-21). The billing efficiency (76.38%), collection efficiency (98.06%) is 2.28% & 3% more than previous FY 2020-21. These are good indicator of performance improvement.

5. The status of outstanding arrear under different category of consumers as on 31.03.2022 is as follows:

Connection Status	Till Mar-20		Apr-Mar-20		June-20 Onwards		Total Arrears	
	Count	Arrears	Count	Arrears	Count	Arrears	Count	Arrears
Active	831216	911.5	694064	51.7	1264591	504.5	1311281	1467.6
Inactive	380310	1109.4	37742	3.9	37108	36.0	393741	1149.4
TD	148808	410.6	144629	20.9	166563	167.0	166992	598.4
<b>Grand Total</b>	<b>1360334</b>	<b>2431.5</b>	<b>876435</b>	<b>76.5</b>	<b>1468262</b>	<b>707.5</b>	<b>1872014</b>	<b>3215.5</b>

6. The SAIFI and SAIDI of divisions under TPCODL are 377 and 155 respectively.
7. The Commission reviewed the progress in consumer metering. C.E.O., TPCODL informed that presently consumer metering is 99%. Regarding Energy Audit & metering, TPCODL submitted that out of 216 nos. of 33 kV feeders, 181 nos. are metered and 117 nos. of 33 kV feeders have been audited. Out of 1229 nos. of 11 kV feeders, 946 nos. of feeders have been metered and 428 feeders have been audited. Out of 76,309 nos. of DTs, 8743 DTRs are metered and 455 numbers of DTRs have been audited 1624 nos. out of 797 nos. of PTs 232 PTs have been metered.
8. The failure of Power Transformers (PTs) (5 nos.) burning of Distribution Transformers (DTs) (3174 nos.), no. of interruptions in 33 kV feeders (2950 nos.) & 11 kV feeders (7018 nos.). However grievances received are more or less similar to previous FY 2020-21. C.E.O., TPCODL informed that by system strengthening and preventive maintenance against interruptions in 33kV and 11 kV feeder have reduced by 64% and 37% respectively. The failures of PTs have come down to 4 nos. against 12 nos. in last FY 2020-21. These are good signs of improvement in performance over previous FY 2020-21.
9. C.E.O., TPCODL stated that they have planned for use of Rey bar Lacing Pole (RLP) (in place of H-Poles) in coastal area as it is more resilient to withstand high wind speed upto 300 kmph and easy to handle due to light in weight.
10. TPCODL has also introduced 5 numbers of trolley mounted mobile substations which can provide temporary connections for any emergency requirement within 2 hours.
11. TPCODL has initiated “Gaon Chalo” programme under which they have organized 660 camps and brought 1077 consumer into digital platform and collected Rs. 3.13 Crore.
12. 169 Nos. of Substations have been integrated with PSCC Completed and communication link has been established for 120 Nos. of ODSSP Substation. 52 Nos. Sub Stations are unmanned and are controlled and monitored through PSCC.
13. On Commission’s enquiry about status of Smart meter installation approved by the Commission, TPCODL informed that order for the same has been placed.
14. The manpower per thousand consumers i.e. 1.79 is to be brought down to 1.4 and accordingly TPCODL has planned to bring down the required manpower ratio to 1.39 by FY 2027.

**Directives of the Commission:**

1. The Commission directs to provide the following information:
  - (a) Measures being taken to reduce AT&C loss.
  - (b) Actual HT loss based on energy audit
  - (c) Status of printing of electric Bill in Odia and English language
  - (d) Action taken to ensure that Bills are generated on monthly basis.
  - (e) The steps being taken to optimize capital investment and creation of assets.
  - (f) Availability of power supply (in hours/per day)
  - (g) The initiative taken for creation of EV charging station.
  - (h) No. of net metering connections for prosumers of RE and steps being taken to facilitate & assist consumers interested for availing net metering/ gross metering/ GNM/ VNM facility for promoting renewable generation in the State.
  - (i) The details relating to the Other Misc. shown under cash inflow for the FY 2021-22.
  - (j) The details regarding Capex funding in relation to Equity contribution and debt for the FY 2021-22.
  - (k) The details of cumulative Capex expenditure capitalized till date for FY 2021-22 as per Vesting order.
  - (l) The initiatives being taken to reduce failure of PTs, burning of DTs, no. of interruptions in 33 kV feeders.
  
2. Details of Present load & energy requirement are to be submitted in following suggested format:

Name of Circle/ Division	Description	Load in MW (Avg. load & Peak load)	Energy requirement in MU
Name of Circle			
Name of Division	1. Name of Sub-Division: (a) Total No. of 33/11kV substations: (b) Average Distance Between Substations: (c) Requirement of 33/11kV substations based on Standardisation of substation MVA capacity (indicate standard substation MVA capacity) (d) Total No. of 11/0.4kV substations: (e) Average Distance Between Substations: (f) Requirement of 11/0.4kV substations based on Standardisation of substation MVA capacity (indicate standard substation MVA capacity)		
	2. Name of Sub-Division: (a) Total No. of 33/11kV substations: (b) Average Distance Between Substations: (c) Requirement of 33/11kV substations based on Standardisation of substation MVA capacity (indicate standard substation MVA capacity) (d) Total No. of 11/0.4kV substations: (e) Average Distance Between Substations: (f) Requirement of 11/0.4kV substations based on Standardisation of substation MVA capacity (indicate standard substation MVA capacity)		
Average Load of DISCOM:			
Peak Load of DISCOM (Time & Month):			

3. The present status and action plan in stages for 100% metering (with smart meters having prepayment feature) for all category of consumers, Power Transformers (PTs), Distribution Transformers (DTs), feeders/lines in each Division and time frame for implementation matching with guideline & time line of Ministry of Power, Govt. of India. A suggested format with typical example is given below:

Sl. No.	Name of Division (Circle & District)	No. of existing meters	No. of meters already replaced with smart meters in terms of % of total requirement	Target (in %) for 100% installation of smart meters for Industrial consumers, Govt. establishment, other types of consumers, etc.					Action Required/ Action being taken
				22-23	23-24	24-25	25-26	26-27	
1	A (Circle: Cuttack & Dist. Cuttack)	<b>33kV:</b> (a) PTs: (b) Lines/feeders: (c) HT Consumers: (d) Total: <b>11kV:</b> (a) DTs: (b) Lines/feeders: (c) LT Consumers (Industrial, Govt. Establishment, Other type Consumers): (d) Total:	Nil (%)	10%	30%	50%	75%	100%	

4. The present status and action plan in stages for 100% agricultural feeder separation indicating time frame for implementation. A suggested format with typical example is given below:

Sl. No.	Name of Sub-Division/Section (Division, Circle & District)	No. of agriculture feeders	No. of Agricultural feeders already separated in terms of % of total Agricultural feeders	Target (in %) for 100% segregation of Agriculture feeder					Action Required/ Action being taken
				22-23	23-24	24-25	25-26	26-27	
1	A	33 kV: 11 kV: 0.4 kV:	10%	30%	60%	100%			Identification of Agriculture feeder is in process

5. The present status and the action plan in the stages for 100% distribution asset mapping and consumer indexing/mapping (GIS mapping) indicating the Sub-Division/Section (Division,

Circle & District) and time frame for implementation. A suggested format with typical example is given below:

Sl. No.	Name of Sub-Division/Section (Division, Circle & District)	Present status of implementation of Distribution Asset (substations & lines) mapping		Target (in %) for 100% Asset mapping				
		No. of lines and substations	Coverage (in %)	22-23	23-24	24-25	25-26	26-27
1	A	<b>33kV:</b> (a) No. of lines: 10 (b) No. of PSS:5  <b>11kV:</b> (a) No. of lines: 10 (b) No. of DSS: 5	Nil  Nil	10  30	40  70	70  100	100%	

Sl.No.	Name of Sub-Division/Section (Division, Circle & District)	Present status of implementation of consumer mapping & indexing		Target (in %) for 100% consumer mapping & indexing				
		Type of consumer (Industrial/ Commercial/ Domestic/ Others)	Coverage (in %)	22-23	23-24	24-25	25-26	26-27
1	A	Ind – Comm – Dom – Other -	Nil Nil Nil Nil	20% 10% 10% 10%	60% 40% 40% 30%	100% 70% 60% 50%	100% 80% 70%	100% 100%

6. The list of diagnostic tools available in different circles for Condition Based Maintenance (CBM) of distribution assets and requirement of additional diagnostic tools for catering to all Divisions in the area of the operation of the DISCOMs.
7. Progress in the direction of implementation of 100% protection system for over head lines, cables & transformers (PT/DT) on HV & LV side etc; 100% SCADA & Automation system, AMI covering peak management, outage management, etc, creation of Central Control Centre and measures for cyber security, etc giving the implementation schedule.
8. Steps being taken to improve billing and collection efficiency by resolving billing related issues covering generation of bill with monthly billing cycle as per OERC supply code, bi-lingual bills (English/Odia), resolution of bill related issues of consumers, collection of outstanding dues, establishment of consumers service/call centre, etc.
9. Steps being taken for safety of human being and equipment – Covering earthing fencing, cradling, protection of transformers (PT&DT) and lines/cables, Personal Protection Equipment (PPE), maintenance of minimum electrical safety clearance.
10. To provide the details regarding the past year collections, TPCODL's incentive on collection and amount remitted to GRIDCO.
11. To submit a revised cash flow statement showing the month wise inflow and outflow for the FY 2021-22 and a comparison with the last year for better understanding of movement of funds.

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