

ODISHA ELECTRICITY REGULATORY COMMISSION
PLOT NO.4, CHUNOKOLI, SAILASHREE VIHAR,
BHUBANESWAR - 751021

No. OERC-DIR(T)-367/09/ 72
Date : 14.01.2020

To

The Chairman-Cum-Managing Director,
OPTCL,
Janpath, Bhubaneswar.

Sub: Review of Performance of OPTCL for the period from April 2019 to September 2019 held on 09.12.2019.

Sir,

In inviting a reference to the subject cited above, I am directed to send herewith the record note on review of performance of OPTCL for the period from April 2019 to September 2019 held on dt.09.12.2019 in OERC for your information and necessary action.

Yours faithfully,

Encl: As above.


SECRETARY 14.1.2020

Copy to:

The Commissioner-cum-Secretary, Department of Energy, Govt. of Odisha,
Bhubaneswar - for information and necessary action.

Encl: As above.


SECRETARY 14.1.2020

OK

Record note of the Review Meeting on Performance of OPTCL for the period from April to September, 2019 for the FY 2019-20

Date of Review : 09.12.2019 at 11: 00 AM
Period of Review : FY 2019-20 (April 2019 to September, 2019)
Representative of OPTCL Present : As per list enclosed as Annexure-I.

1. The Performance of OPTCL for the period from April 2019 to September, 2019 was reviewed by the Commission on 09.12.2019. During the review, the status of ongoing/new projects under implementation, projects completed, major R&M activities and steps taken by HRD & IT wing as well as financial performance of OPTCL were discussed.
2. The Commission reviewed the performance of OPTCL with reference to execution of various ongoing transmission projects. The status of the transmission assets of OPTCL submitted by them is as follows:

	As on 31.03.2019	Addition during April, 2019 to September, 2019	As on 30.11.2019
No. of grid S/S	148	07	155
EHT Line ckt. KM	13995.031	255.364	14250.395
Transformation Capacity (MVA)	19231	1145 MVA(170 MVA in 4 nos. of O&M S/S + 975 MVA in 12 nos. of new s/s)	20376

3. OPTCL has submitted that 13 nos. of projects (7 nos. of substations, 2 nos. of transmission lines and capacity augmentation in 4 nos. of S/S) have been completed during April, 2019 to September, 2019 with a total investment of about Rs.378 Crores. OPTCL further submitted the status of 62 nos. of ongoing projects, which includes 1 no. of 400 kV S/S, 20 nos. of 220 kV S/S, 22 nos. of 132 kV S/S and 19 nos. of other projects (mainly transmission lines). Out of the above, 1 no of-400 KV s/s at Meramundali B is expected to be completed by August, 2020. Further, out of 20 nos. of 220 KV s/s, 4 nos. of 220 kV and out of 19 nos. of 132 KV s/s, 7 nos. of 132 kV sub-stations are expected to be completed within FY 2019-20.
4. OPTCL has proposed to execute 9 nos. of new transmission projects with an estimated cost of Rs.1890.76 crores in future years. Out of them, the tenders for 7 nos. of projects are under evaluation stage and 2 nos. of projects are under the process of tendering.

5. As regards O&M activity, OPTCL stated that many overloaded grid S/Ss have been upgraded and renovated during the period under review. During the period from April 2019 to September, 2019, OPTCL has augmented 4 nos. of S/S with addition of 170 MVA transformation capacities at an investment of Rs.18.90 Crores. The capacity addition in 2 nos. of sub-stations, out of 4 nos. of augmented S/S are in the area of CESU. Those are Kharagprasad & Paradeep with total capacity addition of 130 MVA. The capacity addition programme has been undertaken in SOUTHCO Utility area in Rayagada sub-stations with capacity addition of 20 MVA. Similarly, 1 no. of sub-station i.e. Sonepur in WESCO Utility has been augmented with addition of 20 MVA capacity.
6. In addition to the above, OPTCL has maintained spare transformer banks to meet emergency situations with an investment of Rs.21.00 Cr. The commissioning work of spare transformer is in progress at New Bolangir(160 MVA), Sambalpur(40 MVA), Chandipur(20 MVA) and Jayanagar(20 MVA). Further, OPTCL has taken up the conversion of 132 kV New Bolangir-Sonepur, Akhusingh-Paralakhemundi and Paradeep-Jagatsinghpur Single Ckt. lines to double Ckt. lines with an investment of Rs.17.50 Cr.
7. As a part of R&M activity, OPTCL has replaced/repared, 5 nos. of 220 kV breakers, 10 nos. 132 kV breakers, 12 nos. 33 kV breakers in place of old/ defective circuit breakers and replaced 30 nos. 220 kV, 25 nos. 132 kV and 37 nos. 33 kV CTs with new ones. OPTCL has replaced 15 nos. of 220 kV, 26 nos. of 132 KV and 45 nos. of 33 kV Lightning Arrestors and installed 47 nos. of numerical relays in place of electro-mechanical relays. OPTCL has procured 60 nos. of oil BDV Test Kit, 9 nos. of Tan Delta Kit, 9 nos. of Sweep Frequency Response Analyzers (SFRA) and 6 nos. of Third Harmonic Leakage Detectors (THLD) and delivered to its field units. As a part of major R&M activity under O&M, OPTCL has also replaced conductors/hardware fittings/insulators etc. for improvement in reliability of the state transmission system in 7 nos. of EHT lines.
8. OPTCL has undertaken the following power supply developmental works on receipt of assistance from Power Supply Development Fund (PSDF)
 - Renovation and upgradation of protection and control system in 8 nos. of 220/132/33 KV s/s namely Chandaka, Bhanjanagar, Jayanagar, Duburi, Joda, Meramundali, Tarkera & Theruvali; for strengthening the control and protection system of the utility to transmit quality, reliable and secure power with minimum transmission loss at a competitive price.

- Installation of 125 MVAR Bus Reactor alongwith construction of associated bay each at 400 kV s/s at Mendhasal, Meramundali and New Duburi for VAR control and stabilization of system voltage.
 - Substation Automation Scheme (SAS) has been completed at Jajpur Road and Kendrapara. SAS work is in progress at Aska, Brajarajnanar, Rayagada and Sambalpur. Protection upgradation and SAS works are in the process under PSDF funding in 7 nos. of 220/132/33 kV s/s (Balasore, Bidanasi, Budhipadar, Katapali, Narendrapur, New Bolangir & Paradeep). This will reduce O&M cost, improve productivity & asset management, increase metering efficiency etc. SAS using Bay Control Unit has been completed in Angul and Anandpur and work in progress at Basta, Konark, Keshura, Shamuka, Bhwanipatna, Kuchinda and Karanjia.
9. OPTCL has taken up the work for SCADA interface point at vital 132 KV S/S by laying 1745 KMs of OPGW cables with an estimated cost of Rs.48 Cr. In the meantime, OPTCL has completed stringing of 1691 KMs of OPGW cables with an expenditure of Rs.36.71 cr. Balance work is expected to be completed by December, 2019. Thereafter, comprehensive AMC for 7 years will be continued. OPTCL is in the process of provision of OPGW for balance 132 kV & above level voltage lines of 2289 KMs with an estimated cost of Rs.72.89 Cr. The project has been approved by PSDF and an amount of Rs.25.61 cr. has already been sanctioned and LOA issued to the firm on 28.02.2019 for the purpose. The project is expected to be completed by February 2021. OPTCL is earning a revenue of Rs.2.01 Cr. per annum at present by way of leasing dark fibres to Powergrid and BSNL. OPTCL expects substantial increase of earning on this account after commissioning of OPGW networks in its upcoming projects. Further, OPTCL has issued LOA for provision of RTU with an estimated cost of Rs.25.04 cr.
 10. OPTCL has been entrusted by Government of India as System Implementing Agency (SIA) to implement Bharat Net Phase-II project in Odisha. Under these projects, High Speed Internet Connectivity will be extended to G.P. level with laying of around 15,171 KMs of aerial fibre link on electric poles covering around 2945 GPS in 16 districts. OPTCL has issued LOA of Rs.547.46 Cr. for this purpose and the work is in progress. Total expenditure between April 2019 to September 2019 is Rs.18.52 Cr. and the project is expected to be completed by 31.03.2020.
 11. The status of projects and its cost of completion as submitted by OPTCL during the review are mentioned below:

Sl.No.	Items	Details of Projects	Cost (Rs.in Cr.)
1	Projects completed	Sub-station - 07 Nos.	326.28
		Lines (02 Nos.)	32.82
2	Capacity Augmentation of S/S completed	4 Nos. of S/S (170 MVA capacity addition)	18.90
3	Ongoing Projects	400 kV S/S - 01 Nos	2954.82
		220 kV S/S - 20 Nos	
		132 kV S/S - 22 Nos.	
		Others - 19 Nos.	
4	Future Projects	Tenders Evaluation completed/under process - 7 Nos.	1651.61
		Tenders floated - 2 Nos.	239.15
O & M ACTIVITIES			
5	Augmentation of S/S capacity (Completed during April'17 to April'18)	2 S/S in CESU - 130 MVA	12.15
		1 S/S in SOUTHCO Utility - 20 MVA	3.11
		1 S/S in WESCO Utility - 20 MVA	3.64
		Total	18.90
6	Spare Transformers	New Bolangir (160 MVA) (Work in progress)	10.90
		Sambalpur(40 MVA) (Work in progress)	4.90
		Chandpur, Jayanagar (20 MVA) (work in progress)	5.20
7	Conversion from 132 KV S/C to D/C line	Bolangir -Sonepur(53.85 KM)	6.27
		Akhusingh-Paralakhemundi(76.90 KM)	6.93
		Paradeep-Jagatsinghpur(56.07 KM)	4.3
		Total	17.50
8	SCADA	Provision of SCADA at vital 132 S/S by laying 1745 KMs OPGW cable (Expected date of completion - December 2019 (total estimated cost Rs.48 cr. and expenditure till 30.09.2019 was Rs.36.71 cr.)	36.71
		Provision of Digital Tele-protection coupler in all 220 KV lines. Initial work order was placed for 46 nos. of DTPC for 23 nos. of 220 kV line and thereafter additional order was placed for 40 nos. of DTPC involving a cost of Rs.3.00 cr. (Expected date of completion - December, 2019, expenditure till 30.09.2019 - Rs.2.82 Cr.)	2.82
9	Provision of RTU	Supply, commissioning & comprehensive AMC of 78 nos of RTUs both for old RTUs replacement and new s/s of OPTCL (Tendering finalized & LOA issued)	25.04
10	Provision of OPGW	Provision OPGW for balance line sections of OPTCL with PSDF support.(2289 KM of lines covering 56 sub-stations)(Rs.25.61 cr. sanctioned by PSDF) (Expected date of completion-28.02.2021)	72.89
11	Provision of battery set & charger	Provision of battery set & battery charger for different telecom sections (Expected D.O.C.30.09.2019)	2.26
12	Implementation of Bharat Net phase-II project	High speed internet connectivity to GP level. Laying of aerial fibre (15,171 KMs on electric poles) to 2945 nos of GP's in 16 districts (Expenditure till 30.09.2019 - Rs.18.52 Cr.)	547.46

12. OPTCL submitted that there are around 627 and 1629 nos. of vacancies existing (as on 30.11.2019) against the sanctioned strength of 1916 and 3233 in the level of executives & non-executives respectively. OPTCL has completed implementation of e-Shakti in its 88 nos. of DDO units on HR, Payroll, Pension, Procurement, Project,

Inventory, Finance & Energy Modules. Apart from various initiatives taken by IT wing, one Primary Data Centre (PDC) for OPTCL, GRIDCO, SLDC & DISCOMs (NESCO, SOUTHCO & WESCO Utility) is expected to be ready by June 2020 & LOA to M/s. Wizentech has been issued on 28.10.2019 for this purpose.

13. The information on the status of meters procured by OPTCL under different Government of India schemes like DDUGJY and IPDS as submitted during recent performance review of DISCOMs are as follows :

METER Installation Progress under DDUGJY & IPDS upto 06.12.2019																		
IPDS																		
		SCOPE					SUPPLY					INSTALLED					% of Installation	
		CESU	NESCO	OUTHCO	WESCO	Total	CESU	NESCO	OUTHCO	WESCO	Total	CESU	NESCO	OUTHCO	WESCO	Total		
1-Ph	Consumer (10-60A)	98783	40000	95089	60000	293872	98783	40000	95089	60000	293872	65655	40000	74722	60000	240377	81.80	
	Whole Current (20-100A)	405	840	735	1155	3135	405	840	735	1155	3135	405	320	700	1055	2480	79.11	
	LTCT	25	255	200	309	689	25	255	200	309	689	0	0	0	0	0	To be installed by DISCOM	
	HTTV 11 KV	25	255	180	100	560	25	255	180	100	560	0	0	0	0	0		
	HTTV 33 KV	10	5	10	50	75	10	5	10	50	75	0	0	0	0	0		
	DTR	0	500	200	500	1200	0	500	200	500	1200	0	0	110	81	191		
3-Ph		0	200	700	716	1616	0	200	700	716	1616	0	0	69	33	102	6.31	
		30	30	123	0	183	30	30	123	0	183	28	0	17	0	45	24.59	
		FEEDER 11 KV	5	15	52	0	72	5	15	52	0	72	1	0	4	0	5	6.94
		FEEDER 33 KV	0	0	0	40	40	0	0	0	40	40	0	0	0	40	40	100.00
		BOUNDARY 11 KV	0	0	0	30	30	0	0	0	30	30	0	0	0	20	30	66.67
		BOUNDARY 33 KV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Modem for existing 3 Phase meters	20000	30334	20000	20000	90334	3730	2350	1200	2200	9500	6139	3069	959	4034	14201	15.72
DDUGJY																		
		SCOPE					SUPPLY					INSTALLED					% of Installation	
		CESU	NESCO	OUTHCO	WESCO	Total	CESU	NESCO	OUTHCO	WESCO	Total	CESU	NESCO	OUTHCO	WESCO	Total		
1-Ph	Consumer (10-60A)	116217	500000	836785	800000	2053002	116217	500000	837000	850000	1893217	99922	312035	273363	293772	979692	47.69	
	Whole Current (20-100A)	3750	4980	5055	5050	18435	3350	4980	5055	5050	18435	1347	194	1711	1274	4626	25.09	
	LTCT	525	510	500	500	2035	525	510	500	500	2035	0	0	0	0	0	To be installed by DISCOM	
	HTTV 11 KV	200	200	500	90	990	200	200	500	90	990	0	0	0	0	0		
	HTTV 33 KV	10	10	5	20	45	10	10	5	20	45	0	0	0	0	0		
	DTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3-Ph		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		60	20	494	0	574	60	20	494	0	574	50	0	23	0	73	12.72	
		FEEDER 11 KV	5	30	196	0	231	5	30	196	0	231	2	0	3	0	5	2.16
		FEEDER 33 KV	0	0	0	60	60	0	0	0	60	60	0	0	0	60	60	100.00
		BOUNDARY 11 KV	0	0	0	30	30	0	0	0	30	30	0	0	0	30	30	100.00
		BOUNDARY 33 KV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Modem for existing 3 Phase meters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL (IPDS & DDUGJY)																		
		SCOPE					INSTALLED					BALANCE TO BE INSTALLED					% of Installation	
		CESU	NESCO	OUTHCO	WESCO	Total	CESU	NESCO	OUTHCO	WESCO	Total	CESU	NESCO	OUTHCO	WESCO	Total		
1-Ph	Consumer (10-60A)	215000	540000	931874	660000	2346874	165577	352035	348085	353772	1219469	49423	187963	583789	306228	1127405	51.96	
	Whole Current (20-100A)	3755	5820	5790	6205	21570	1752	514	2411	2429	7106	2003	3506	3379	3776	14464	32.94	
	LTCT	550	765	700	709	2724	0	0	0	0	0	550	765	700	709	2724	To be installed by DISCOM	
	HTTV 11 KV	225	455	680	190	1550	0	0	0	0	0	225	455	680	190	1550		
	HTTV 33 KV	20	15	15	70	120	0	0	0	0	0	20	15	15	70	120		
	DTR	0	500	200	500	1200	0	0	110	81	191	0	500	90	419	1009		15.92
3-Ph		0	200	700	716	1616	0	0	69	33	102	0	200	631	683	1514	6.31	
		90	50	617	0	757	78	0	40	0	118	12	50	577	0	639	15.59	
		FEEDER 11 KV	10	45	248	0	303	3	0	7	0	10	7	45	241	0	293	3.30
		FEEDER 33 KV	0	0	0	100	100	0	0	0	100	100	0	0	0	0	100.00	
		BOUNDARY 11 KV	0	0	0	60	60	0	0	0	60	60	0	0	0	0	100.00	
		BOUNDARY 33 KV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Modem for existing 3 Phase meters	20000	30334	20000	20000	90334	6139	3069	959	4034	14201	13861	27265	19041	19966	76133	15.72

The Commission requested the E.D., GRIDCO to review metering status and discuss the additional requirement of meters, if any, by NESCO & WESCO & SOUTHCO Utility. If possible, more numbers of meters for NESCO & WESCO utility may be procured in IPDS/DDUGJY or any other scheme of the Government. As per the mandate in Electricity Act, 2003, in no case the consumer should avail power supply without a correct meter, hence, in any case, 100% metering of all consumers should be completed by 31.03.2020.

14. While discussing about the unified on-line grievance redressal system, the Commission directed for establishment of the consumer complaint redressal call centre to address the issues on new connection, billing/collection & consumer grievances for NESCO, WESCO & SOUTHCO utilities within 31.03.2020 till the planned system of unified complaint redressal is put in place.
15. As submitted, OPTCL has handled 13,687.97 MU of energy against OERC approval of 14,135.00 MU (prorated for six months) during FY 2019-20 (upto Sept, 2019). During the period, OPTCL earned revenue of Rs.342.20 crore out of OERC approval of Rs.353.68 crore (Prorated for six months). CMD, OPTCL pointed out that, there was less revenue of Rs.11.18 crore due to less transmission of power of 447.03 MU during the period. The detailed comparative statement are presented in table below:

Revenue Approved vis-à-vis Actual for FY 2019-20 (upto Sept,2019)

Source	ESTIMATE BY OERC FOR 2019-20			ACTUAL FOR 2019-20 (Upto Sept,2019)			
	Energy handled (MU)	Rate P/U	Amount Billed (Rs Cr)	Energy (MU)	Rate P/U	Amount Billed (Rs Cr)	Payment Received incl. rebate & TDS (Rs. In Cr.)
CESU	9,740.00			4,580.70	25.00	114.52	114.52
NESCO	6,310.00			3,027.27	25.00	75.68	75.68
WESCO	7,750.00			3,951.59	25.00	98.79	98.79
SOUTHCO	4,040.00			1,887.61	25.00	47.19	47.19
Less enegy handled in DISCOMs network	200.00						
TOTAL DISTCOs	27,640.00	25.00	691.00	13,447.17	25.00	336.18	336.18
CGPs Wheeling	600.00	25.00	15.00	235.51	25.00	5.89	
Sale to CPP	30.00	25.00	0.75	5.29	25.00	0.13	
SUB TOTAL	630.00		15.75	240.80	25.00	6.02	6.02
GRAND TOTAL	28,270.00		706.75	13,687.97	25.00	342.20	342.20

16. OPTCL reported cash inflow of Rs.808.80 crore and a cash outflow of Rs.617.21 crore during the FY 2019-20 (upto Sept, 2019). The above cash inflow includes both revenue and capital receipts during FY 2019-20 (upto Sept, 2019). Breakup of the above amount is given below:-

Particulars	Revenue	Capital	Total
Receipts (Cr.)	376.11	432.69	808.80
Expenditure (Cr.)	286.51	330.70	617.21

17. OPTCL stated that the annual account for FY 2017-18 has been adopted on 31.12.2018. Regarding the status of accounts for FY 2018-19, it has stated that the authentication of annual accounts in Board, completion of statutory audit, completion of supplementary audit and adoption of accounts in AGM shall be completed by 24.09.2019, 14.10.2019, 29.10.2019 and 31.12.2019 respectively.

18. **Action points:**

- (i) OPTCL should have proper monitoring mechanism so that the projects already approved by the Commission and under execution be completed within the time schedule to avoid cost and time overrun.
- (ii) OPTCL needs to avoid under loading of lines resulting in losses and should conduct comprehensive system study before proceeding for further network expansion plan. There should be periodic audit of relay/protection system of transmission system/distribution system within the state for reliable operation of the State Transmission System.
- (iii) E.D., GRIDCO should review meter installation status/progress since it is far behind the target and discuss about the additional requirement of meters by NESCO & WESCO & SOUTHCO Utility. If possible, more numbers of meters for NESCO & WESCO utility may be procured in IPDS/DDUGJY or any other scheme of the Government. As per the mandate in Electricity Act, 2003 in no case the consumer should avail power supply without a correct meter hence in any case, 100% metering of all consumers should be completed within 31.03.2020. A report on month-wise target and progress should be furnished to the Commission within seven days of the subsequent month.
- (iv) One on-line consumer complaint redressal call centre to address at least the issues on new connection, billing/collection & consumer grievances for NESCO, WESCO & SOUTHCO utilities may be developed within 31.03.2020 and continued till the planned system of unified complaint redressal is put in place. E.D., GRIDCO is requested to review the progress of such call centre in each quarter and furnish a report for appraisal of the Commission.
- (v) OPTCL should finalize the annual accounts of FY 2018-19 and submit the same immediately to the Commission. Adoption of accounts should be completed by 30th September for the previous financial year.

Representatives of OPTCL

1. Sri G.C.Pati, C.G.M.(Construction)
2. Sri S.K. Harichandan, C.G.M.(O&M)
3. Sri P.K.Mishra, CLD, SLDC
4. Sri R.C.Mishra, CFO
5. Ms. S.Behera,CGM(HRD)
6. Sri P.C.Mohapatra, Sr.G.M.,
7. Sri P.K.Das, Sr.G.M., SLDC
8. Sri P.K.Nanda, G.M.
9. Sri S.K.Mohanty, G.M.
10. Sri N.B.Mohapatra, G.M.
11. Sri A.K.Banerjee, D.G.M.
12. Sri C.R.Mishra, D.G.M.
13. Sri P.K.Nayak, DGM(Tel)
14. Sri. S.K.Mishra, DGM(IT)
15. Ms.P.Jojo, DGM (HRD)
16. Sri B.K.Pani, SE(Civil)
17. Sri S.K.Das, AG.M.
18. Sri S.K.Behera, A.G.M.
19. Ms. B.Pradhan, AGM
20. Sri B.K.Behera
21. Ms. M. Sethi.
22. Sri Soumya Sandipa, A.M.(Civil)
23. Sri M.R.Mohanty, A.M.
24. Sri M.R.Das.