

Record note of the Review Meeting on Performance of OPTCL for the period from April 2019 to March, 2020 (FY 2019-20)

Date of Review : 01.07.2020 at 11: 00 AM
Period of Review : FY 2019-20 (April 2019 to March 2020)
Representative of OPTCL Present : As per list enclosed as Annexure-I.

The Commission has conducted the review meeting of OPTCL through video conferencing on account of need for continuous adherence to the social distancing norms arising out of COVID-19 pandemic situation.

1. The Performance of OPTCL for the period from April 2019 to March, 2020 was reviewed by the Commission on 01.07.2020. During the review, financial status, status of completed/ongoing/upcoming projects, major O&M activities, status of telecom projects and steps taken by IT & HRD wing of OPTCL were discussed. The Commission advised OPTCL to avoid clustering of different issues in one slide of the presentation. Issue wise power point presentation slides should be prepared for clarity and fruitful deliberation.
2. The Commission reviewed the performance of OPTCL with reference to the execution of various ongoing transmission projects. The present status of the transmission assets available with OPTCL is as follows:

	As on 31.03.2019	Addition during April, 2019 to March 2020	As on 31.03.2020
No. of grid S/S	148	08	156
EHT Line ckt. in KM	13995.031	364.385	14359.416
Transformation Capacity (MVA)	19231	1651 MVA(396 MVA in 8 nos. of O&M S/S + 1255 MVA in 10 nos. of new s/s)	20882 MVA

3. OPTCL has submitted that 14 nos. of projects (9 nos. of substations, 5 nos. of transmission lines) have been completed during April, 2019 to March 2020 with a total investment of about Rs.560 Crores. OPTCL further submitted the present status of 60 nos. of ongoing projects, which includes 1 no. of 400 kV S/S, 20 nos. of 220 kV S/S, 21 nos. of 132 kV S/S and 18 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 March, 2021. Further, out of the ongoing projects 12 nos. of 220 kV sub-station, 12 nos. of 132 kV sub-stations are expected to be completed within FY 2020-21.

4. OPTCL has proposed to execute 13 nos. of new transmission projects with an estimated cost of Rs.2991.93 crores in future years. Out of them, 6 nos. of projects are under estimation stage, 2 nos. of projects are under the process of retendering and tendering to be initiated for 1 no of project. The implementation has been deferred for the rest 4 nos. of projects.
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 March, 2020, OPTCL has augmented 8 nos. of S/S with addition of 396 MVA transformation capacities at an investment of Rs.41.45 Crores. The capacity additions in 3 nos. of sub-stations, out of 8 nos. of augmented S/S are in the area of CESU. Those are Chandpur, Kharagprasad and Paradeep with total capacity addition of 150 MVA. The capacity addition programme has been undertaken in SOUTHCO Utility area in Rayagada sub-stations with capacity addition of 20 MVA. Similarly, 2 nos. of sub-stations i.e. Bolangir new and Sonapur in WESCO Utility have been augmented with addition of 180 MVA capacity and 2 nos. (Balasore & Bhadrak) in NESCO Utility.
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 at new Bolangir (20 MVA) and Chandpur (20 MVA) are completed and is in progress at Sambalpur (40 MVA) and Jayanagar (20 MVA). Further, OPTCL has completed the conversion of Akhusingh-Paralakhemundi S/c line to D/c with an investment of Rs.6.93 cr. The conversion work of 132 kV New Bolangir-Sonapur and Paradeep-Jagatsinghpur Single Ckt. lines to Double Ckt. lines with an investment of Rs.10.47 Cr. are stopped due to RoW & diversion of line for Railway line respectively and are scheduled to be completed by March, 2021.
7. As a part of R&M activity, OPTCL has replaced/repared, 7 nos. of 220 kV breakers, 12 nos. 132 kV breakers, 14 nos. 33 kV breakers in place of old/ defective circuit breakers and replaced 33 nos. 220 kV, 37 nos. 132 kV and 45 nos. 33 kV CTs with new ones. OPTCL has replaced 20 nos. of 220 kV, 36 nos. of 132 KV and 60 nos. of 33 kV Lightning Arrestors and installed 65 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 those 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 up-gradation of protection and control system in 8 nos. of 220/132/33 kV s/s namely Chandaka, Bhanjanagar, Jayanagar, Duburi, Joda, Meramundali, Tarkera and Theruvali are completed for strengthening the control and protection system of the utility.
 - Work in progress for installation of 125 MVAR Bus Reactor along with 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 in 8 nos. of substations (Argul, Anandpur, Basta, Konark, Shamuka, Bhawanipatna, Kuchinda and Karanjia). SAS work under PSDF funding is in progress in 21 nos. of s/s at Aska, Kesura (SOC- July, 2020), Rairangpur, Dhenkanal, Puri (SOC-August, 2020), Bhubaneswar, Sunabeda, Nayagarh, Khurda, Chainpal, Phulnakhara, Chandpur, Kharagprasad, Ranasinghpur, Banki, Jharsuguda, Khajuriakanta, Laxmipur (SOC-October, 2020) and Brajarajnaragar, Rayagada and Sambalpur (SOC-December, 2020). Protection up-gradation and SAS works are in the tender evaluation stage under PSDF funding in 7 nos. of 220/132/33 kV S/S (Balasore, Bidanasi, Budhipadar, Katapali, Narendrapur, New Bolangir and Paradeep). This will reduce O&M cost, improve productivity and asset management, increase metering efficiency etc.
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 1698 KMs of OPGW cables (220 KV-172 KMs, 132 KV-1526 KMs) with an expenditure of Rs.38.58 (till 31.03.2020). Balance work is expected to be completed by September, 2020. Thereafter, comprehensive AMC for equipment will continue for 7 years. OPTCL is in the process of providing of optical fiber based communication through 76 nos. of 132 KV and above voltage level lines having length of 2289 KMs. The Letter of Award for this purpose to the tune of Rs.62.04 crore has been given to the firm, out of which OPTCL shall avail Rs.25.61 crores as grant from PSDF. 200 KMs of stringing of OPGW has been completed during FY 2019-20 and the project is expected to be completed by June 2021. OPTCL has provided Digital Tele Protection Coupler (DTDC) in 86 nos. of 400 KV & 220 KV lines. OPTCL is earning a revenue of about Rs.2 Cr. per annum at present by way of leasing dark fibers 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 78 nos. of RTU against replacement of 51 nos. of old RTUs and 27 nos. of new RTUs on 13.12.2019 for an amount of Rs.6.2 cr. and the same are expected to be completed by March 2021.

10. OPTCL has placed LOA to M/s. Wizertech on 28.10.2019 for establishment of Primary Data Centre (PDC) in OPTCL, to cover OPTCL, GRIDCO, SLDC and DISCOM utilities. The establishment of PDC has been delayed because of COVID-19 situation and will be completed by September, 2020.
11. The status of projects including their cost and date 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 - 09 Nos.	444.53
		Lines (05 Nos.)	115.56
2	Capacity Augmentation of S/S completed	8 Nos. of S/S (396 MVA capacity addition)	41.45
3	Ongoing Projects	400 kV S/S – 01 Nos	2918.22 (Expenditure till 31.03.2020 – Rs.1343.50 Cr.)
		220 kV S/S - 20 Nos	
		132 kV S/S - 21 Nos.	
		Others - 18 Nos.	
4	Future Projects	400 KV s/s - 5nos -2120.93 Cr. 220 KV s/s -4 nos -496.43 Cr. 132 KV s/s – 3 nos -140.18 Cr. 220 KV LILO line -100-234.39 Cr.	2991.93
O & M ACTIVITIES			
5	Augmentation of S/S capacity (Completed during April' 17 to April' 18)	3 S/S in CESU – 150 MVA	15.27
		1 S/S in SOUTHCO Utility – 20 MVA	3.11
		2 S/S in WESCO Utility – 180 MVA	14.34
		2 S/S in NESCO Utility – 46 MVA	8.73
		Total	41.45
6	Spare Transformers	New Bolangir (160 MVA) (commenced on 02.02.2020)	10.90
		Sambalpur (40 MVA) (Work in progress)	4.90
		Chandpur, Jayanagar (20 MVA) (Jayanagar work in progress) (Chandpur commissioned on 07.02.2020)	5.20
		Total	17.50
7	Conversion from 132 KV S/C to D/C line	Bolangir –Sonepur (53.85 KM) (Scheduled for March 2021)	6.27
		Akhusingh-Paralakhemundi(76.90 KM) (completed)	6.93
		Paradeep-Jagatsinghpur(56.07 KM)(Scheduled forMar,2021)	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 – September 2020 (total estimated cost Rs.48 cr. and expenditure till 31.03.2020 was Rs.38.58 cr.)	38.58
		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.	3.00
9	Provision of RTU	Supply, commissioning & comprehensive AMC of 78 nos of RTUs against replacement of 51 nos. of old RTUs and 27 nos. of new RTU's (LOA issued on 13.12.2019 for an amount of Rs.6.2 cr.)	6.2
10	Provision of OPGW	Provision OPGW for balance line sections of OPTCL with PSDF support.(2289 KM of lines) (Rs.25.61 cr. sanctioned by PSDF) (Expected date of completion-30.06.2021)	62.04
11	Provision of battery set & battery charger	Provision of battery set & battery charger for different telecom sections (Expected D.O.C.31.08.2020)	2.26

12. OPTCL submitted that considering both executives & non-executives posts, there are about 2311 nos. of vacancies existing (as on 31.03.2020) against the sanctioned strength of 5149 nos. OPTCL has completed the implementation of e-Shakti in its 89 nos. of DDO units on HR, Payroll, Pension, Procurement, Project, Inventory, Finance and Energy Modules. Apart from various initiatives taken by IT wing, CCTV surveillance system in 60 grid s/s, video conferencing system in 94 vital grid s/s and 7 other locations [DISCOMs, DoE, GoO, OERC and EIC(Electricity) offices] has been implemented by OPTCL.
13. The information on the status (as on 24.06.2020) of single phase 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 :

Supply & Installation status of 1 Ph Meter under DDUGJY & IPDS scheme as on dt:24.06.2020

Sl No	DISCOM	SCOPE	Supply	INSTALLATION				Balance to be Installed	% of Installation
		LOA Qty	Supplied	By Linkwell	By DISCOM	By Agency	Total		
1	NESCO	540,000	540,000	415,203	20,128	60,700	496,031	43,969	92%
2	WESCO	660,000	660,000	401,823	58,642	52,350	512,815	147,185	78%
3	CESU	215,000	215,000	213,014	0	0	213,014	1,986	99%
4	SOUTHCO	931,874	822,089	513,148	36,792	0	549,940	272,149	59%
	Total	2,346,874	2,237,089	1,543,188	115,562	113,050	1,771,800	465,289	75%

BREAKUP OF BALANCE QUANTITY TO BE INSTALLED

Sl No	DISCOM	By Linkwell	By DISCOM	By Agency	TOTAL
1	NESCO	14,097	29,872	0	43,969
2	WESCO	105,827	41,358	0	147,185
3	CESU	1,986	0	0	1,986
4	SOUTHCO	208,941	63,208	0	272,149
	Total	330,851	134,438	0	465,289

- i. For NESCO & WESCO LOA issued on 15.03.2018 with 18 months completion period and extended up to 31.03.2020.
- ii. For CESU & SOUTHCO LOA issued on 12.10.2018 with 12 months completion period and extended up to 31.03.2020
- iii. 1,09,785 meters have been dropped from the scope of SOUTHCO due to non-requirement of meter by SOUTHCO itself.
- iv. 1,00,000 nos meters each delivered to WESCO & SOUTHCO, 50,000 meters to NESCO store for installation by them in order to improve the installation progress.
- v. Additional 1,30,508 nos meter order issued on 29.04.2020 & 30.04.2020 after requirement received from DISCOMs. The breakup of additional meter quantities for respective DISCOMs are(NESCO-87,095,WESCO-25,000 & CESU-18,413)
- vi. 1,13,050 meters have been diverted to agency like M/s NTPC,PGCIL,GPIL,L&T & VTL under Soubhagya Scheme for household electrification.

14. The Commission advised the M.D., OPTCL to review metering status regularly and discuss about the additional requirement of meters, if any, with the DISCOMs. If possible, more numbers of meters 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 30.09.2020.

15. While discussing about the progress of 33/11 kV S/S executed under Odisha Distribution System strengthening project (ODSSP) scheme (approved in case no. 38 of 2015 of OERC), M.D., OPTCL said that out of total 473 nos. of S/S, 273 nos. of S/S have been handed over to the respective DISCOMs. The Commission expressed its concern for delay in execution of ODSSP projects and directed M.D., OPTCL to take appropriate action for early completion of projects executed under ODSSP scheme in co-ordination with DISCOMs. The projects completed should be handed over to the respective DISCOMs immediately. A report on the status of projects (as on 30.03.2020) executed under ODSSP may be furnished within 31.07.2020 for perusal of the Commission.
16. The Commission directed for establishment of Primary Data Centre along with the features of the consumer complaint redressal call centre to address the issues on new connection, billing/collection & consumer grievances for NESCO, WESCO & SOUTHCO utilities within 30.09.2020.
17. As submitted, OPTCL has handled 24,883 MU of energy against OERC approval of 28,270 MU during FY 2019-20. During the period, OPTCL has earned revenue of Rs.622.08 crore against OERC approval of Rs.706.75 crore. OPTCL pointed out that, there was less revenue of Rs.84.67 crore due to less transmission of power of 3386.60 MU during the period. The detailed comparative statement is presented in table below:

Revenue Approved vis-à-vis Actual for FY 2019-20

Source	ESTIMATE BY OERC FOR 2019-20			ACTUAL FOR 2019-20			
	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			8,156.07	25.00	203.90	203.90
NESCO	6,310.00			5,437.36	25.00	135.93	135.93
WESCO	7,750.00			7,306.37	25.00	182.66	182.66
SOUTHCO	4,040.00			3,475.53	25.00	86.89	86.89
Less energy handled in DISCOMs network	200.00						
TOTAL DISTCOs	27,640.00	25.00	691.00	24,375.33	25.00	609.38	609.38
CGPs Wheeling	600.00	25.00	15.00	497.75	25.00	12.44	
Sale to CPP	30.00	25.00	0.75	10.32	25.00	0.26	
SUB TOTAL	630.00		15.75	508.07	25.00	12.70	
GRAND TOTAL	28,270.00		706.75	24,883.40	25.00	622.08	

18. OPTCL reported cash inflow of Rs.1669.04 crore and a cash outflow of Rs.1342.71 crore during the FY 2019-20. The above cash inflow includes both revenue and capital receipts during FY 2019-20. Breakup of the above amount is given below:-

Particulars	Revenue	Capital	Total
Receipts (Cr.)	694.24	974.80	1669.04
Expenditure(Cr.)	594.34	748.37	1342.71

19. OPTCL stated that the audited annual account for FY 2018-19 has been adopted by them on 17.02.2020. Regarding the status of accounts for FY 2019-20, OPTCL 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 31.07.2020, 29.08.2020 and 27.11.2020 respectively. Commission feels that if the statutory audit is completed by 29.08.2020, the annual accounts can certainly be adopted in the AGM by 30.09.2020. Therefore, the process may be expedited to complete the work by 30.09.2020.

20. Apart from the above discussions/ observations, the Commission directed as under:

- (i) The Commission expressed its concern about the delay in project execution. On an average, there is a time lag of about 3 years for the projects completed during FY 2019-20. OPTCL is therefore directed to have proper monitoring mechanism in place to avoid inordinate delays so that the projects already approved by the Commission and under execution should be completed within the time schedule to avoid cost and time overrun.
- (ii) While considering the upcoming projects, OPTCL needs to avoid under loading of lines resulting in losses and should conduct comprehensive system study before proceeding for further network expansion plan. The sourcing of fund for the upcoming projects should be intimated to the Commission.
- (iii) MD, OPTCL should review the status/progress of meter installation regularly since it is far behind the target and get latest information on the additional requirement of meters by DISCOM utilities. If possible, more numbers of meters 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 30.09.2020. A report on month-wise target and progress should be furnished to the Commission within seven days of the subsequent month.

- (iv) The Primary Data Centre along with the features of the consumer complaint redressal call centre to address the issues on new connection, billing/collection & consumer grievances for NESCO, WESCO & SOUTHCO utilities should be established within 30.09.2020.
- (v) OPTCL should analyse the reason of shortfall in energy drawl during FY 2019-20 in comparison with 2018-19 and also with respect to the approval of OERC in DISCOMs and GRIDCO Tariff order and submit a report to the Commission within 31.07.2020.
- (vi) OPTCL should submit a detailed report (DISCOM wise as on 30.06.2020) on the progress of the construction of 33/11 kV S/Ss under Odisha Distribution System strengthening project (ODSSP) scheme in the following format for perusal of the Commission.

Sl. No	District	Name of the 33/11 kV S/S	Tapping Point	Capacity in MVA	Type of Sub-station	Cost in Cr. (Estimated/ Actual)	Date of issue of LOA	Schedule date of completion	Actual date of completion	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)

- (vii) OPTCL should finalize the annual accounts of FY 2019-20 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 Sanjeev Singh, MD
2. Sri U.K.Pati, Director (Operation)
3. Sri S. K. Swain, Director (Finance)
4. Sri R.N. Pratihari, Director (HRD)