

Proceeding of the PSC meeting held on Dt.29.10.2024
Memorandum No.Sr.GM-CPC-PSC- 287/2024.

Members present:

1) Sri B.B.Mehta,	Director (SLDC, Operation)	Member
2) Sri J.K.Senapati	E.D, Central Zone	Member
3) Sri U.K.Gupta	C.G.M, Finance (CFO)	Member
4) Sri P.K.Das	Company Secretary	Member
5) Sri A.K.Moharana	S.E (Civil) I/C	Member
6) Sri S.K.Ray	CGM (Telecom) I/C	Invitee
6) Sri Hiralal Parida	Sr.G.M (CPC)	Member, Convenor

Sub : Proposal for procurement and installation of 24F/48F OPGW in 400KV Meramundali-Mendhasal DC Line on an emergency basis.

Ref :

1. Letter No. TCC/MRM/477(3) dated 23.09.2024 of GM(TC), Telecom Circle, OPTCL, Meramundali. ✓
2. Order No,Sr.GM-CPC-e-Tender-Telecom-OPGW-54/2023/247(11) dated 14/03/2024.

Background :

The General Manager (TC), Telecom Circle, Meramundali, has requested for urgent installation and commissioning of 105 Km of 24F OPGW (Optical Ground Wire) on the 400KV Meramundali-Mendhasal DC Line.

Necessity of the work:

1. There is frequent interruptions in data transmission due to the aging and deteriorated condition of the existing 24F OPGW line. The line, which spans 105 KM, is facing increased maintenance costs and outages, adversely affecting internal communication requirements and the operations of lessees. This will also strengthen the transmission line.

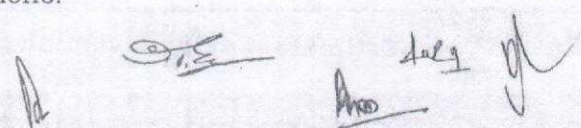
Given this situation, it is proposed to install an additional 24/48 fiber on the other circuit of the line dismantling the earthwire to ensure reliable and efficient communication alongside enhancing the scope for more revenue generation from fiber leasing.

2. CEA guide line for replacement of earthwire with OPGW:

As per the guide line of CEA, all the earth wires above 110KV line are mandated to be provisioned with OPGW to improve network reliability and performance across OPTCL.

3. Dual OPGW for Reliability:

In the Meramundali-Mendhasal D/C line, one circuit is having OPGW and the other is common earth wire at present. Replacing the earth wire with a second OPGW will ensure higher reliability and redundancy in data transmission, minimizing downtime and service interruptions.



4. Revenue Generation through Fiber Leasing:

The existing OPGW in the said section has all its Fibre leased to the third-party telecom operators, generating revenue for OPTCL. Installing an additional OPGW will increase the available Fibre capacity, providing opportunities for further leasing and increasing revenue potential.

5. Critical Communication Link for SCADA:

The 400KV Meramundali-Mendhasal Line serves as a critical communication link between SLDC and ERLDC for SCADA operations, bridging vital gaps in bandwidth capacity. The seamless transmission of data between control centres is essential for system reliability and grid management.

Given this situation, it is proposed to install an additional 24/48 fibre on the earth wire, ensuring reliable and efficient communication while enhancing revenue generation from fibre leasing.

Proposal-1:

It is to mention here that, recently OPTCL has placed purchase order on M/S Apar Industries Limited for supply of 210 KM of OPGW (190KM of 24Fibre + 20KM of 48Fibre). As the said OPGW work is urgent in nature, the materials (24F OPGW) can be procured through repeat orders and the work can be executed through OPTCL's rate contract.

Proposal-2: Alternately, as OPTCL is revamping the provision of OPGW in new lines into 48Fibre looking into future expansion and requirement, the subject OPGW work in 400KV Mendhasal-Meramundali D/C line may be carried out with 48F OPGW and the same may be procured through open tender and the stringing work along with supply of hardware accessories may be undertaken through OPTCL's rate contract.

Estimate (Proposal-1):

Estimate for 24Fibre OPGW procurement through repeat order and work to be executed through rate contract (Proposal-1).

Supply

Sl. No.	Item Description	Quantity	Unit taxable value at destination	Rate of GST	Unit landing Cost (including GST)	Total landing cost (including GST)
1	24F DWSM OPGW	105 KM	190400	18%	Rs. 2,24,672.00	Rs. 2,35,90,560.00

Commissioning through rate contract (estimate attached):

Sl. No.	Item Description	Quantity	Total landing cost (including GST)
1	Stringing of OPGW with supply of required H/W	105 KM	Rs.1,13,66,975.00

Total Estimate (Supply + commissioning) = Rs. 3,49,57,535.00

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Estimate (Proposal-2):

Estimate for 48Fibre OPGW procurement through open tender and work to be executed through rate contract (Proposal-2).

Supply

Sl.	Item	Quantity	Unit taxable	Rate	Unit landing	Total landing cost
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File No. _____

P. No. _____/N

NOTE SHEETMemorandum No.-SGM-CPC-PSC-287/2024

Proposal for procurement and installation of 24F OPGW in 400KV Meramundali-Mendhasal DC line on an emergency basis.

Director (SLDC & Operation)ED, Central ZoneCGM (CFO)Company SecretaryCGM (Tel) I/CSE (Civil) I/CSENIOR GENERAL MANAGER (CPC)

The proceeding of the PSC meeting held on 29.10.2024 on the above mentioned Memorandum duly signed by all members is placed in the file for your kind perusal and approval.

Recommendation of PSC:-

PSC recommended as follows:

1. Administrative approval may be accorded for the work of "Provision of OPGW in the 2nd circuit of 400KV Meramundali-Mendhashal D/C line at a total estimated price of ₹ 3,86,21,648/- and the work may be booked under 'Capital works'.
2. The procurement of 48Fibre OPGW may be made through open tender and the execution of the work may be undertaken through rate contract of OPTCL.
3. The estimate for the execution portion of the work through rate contract is ₹ 1,19,21,198/- and hence, the proposal for the execution of the work through rate contract may be placed before BOD for approval.

OPTCL 25-AH

CHAIRMAN-CUM-MANAGING DIRECTORSENIOR GENERAL MANAGER (CPC)

11.12.2024
 Chrm (Telcom) I/C

11/12

ODISHA POWER TRANSMISSION CORPORATION LIMITED
REGD.OFFICE: JANPATH, BHUBANESWAR- 751022

UOI No. 58

Dated 07.04.2025

To

Director (SLDC)

OPTCL, Bhubaneswar.

Please refer to the Memorandum submitted by your branch which were placed vide Agenda Item No. 11 for Consideration and approval of the board of directors of OPTCL in the 150th Meeting held on 28.03.2025.

Relevant extracts of the Board are appended/ enclosed below.

You are requested to kindly take action, if any, in issuing appropriate instructions/ office orders within seven days of receipt of this communication. A compliance report may please be furnished for placing the same in the next meeting for review by the Board.

Encl: As above

for 7/4/25
COMPANY SECRETARY

SKR
2/c Secy (Tel)

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7/4

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**EXTRACTS OF MINUTES OF 150th MEETING OF THE BOARD OF DIRECTORS OF
ODISHA POWER TRANSMISSION CORPORATION LTD. HELD ON 28.03.2025 AT
11.30 AM AT THE REGD. OFFICE OF THE CORPORATION AT OPTCL TECH
TOWER, JANPATH, BHUBANESWAR.**

**Item-11: Re-deliberation on provision of 48F OPGW in 400 KV Meramundali-Mendhasal
DC line on an emergency basis.**

Director (SLDC) while explaining the necessity of the work, stated that the existing earth wire in the 2nd circuit of 400KV Meramundali-Mendhasal DC line which serves as a critical communication link between SLDC and ERLDC for SCADA operation, is more than 20 years old and in multiple locations damage has been noticed for which the earth wire needs to be replaced to maintain network stability. As per the CEA guidelines, primary path for tele-protection should be on point to point OPGW with an alternative on either PLCC or predefined physically diversified OPGW path. As OPTCL does not have PLCC in the said link, hence it is proposed to install OPGW on the 2nd circuit of 400KV Meramundali- Mendhasal DC line dismantling the existing earth wire. Further, envisaging future expansions and increased demand for Fibre leasing, it is proposed to make provision for 48Fibre OPGW. Accordingly an estimate of Rs.3,86,21,648/- (Supply: Rs.2,67,00,450/- & Commissioning Rs.1,19,21,198/-) has been framed. Procurement of 48Fibre OPGW will be made through open tender and the commissioning work will be done through rate contract. PSC after examination of the proposal, considering the necessity of the work has recommended to the Board for approval.

The Board after discussion, accepted the recommendations of the PSC and approved as under:

1. Accorded administrative approval for "Provision of OPGW in the 2nd circuit of 400KV Meramundali-Mendhasal D/C line at a total estimated cost of Rs.3,86,21,648.00 and decided that the work may be booked under 'R&M' work.
2. The procurement of 48Fibre OPGW may be made through open tender and the execution of the work to be undertaken through rate contract of OPTCL.
3. Award and implementation shall take place after approval from OERC.

CERTIFIED TRUE COPY


COMPANY SECRETARY