

**PROCEEDING OF THE PSC MEETING HELD ON Dt.06.10.2025****Memorandum No. PSC- 248/2025****Members present:**

1) Sri B.B. Mehta	Director (SLDC)	Member
2) Sri P.K. Pattnaik	Director (Operation)	Member
3) Sri P.K. Dash	Director (Project)	Member
4) Sri S.K.Sahoo	Director (Finance)	Member
5) Sri U.K. Gupta	C.G.M (CFO)	Member
6) Sri A.C. Jena	C.G.M (project)	Member
7) Sri L.K. Panda	C.G.M (O & M)	Member
8) Sri R.K. Panigrahi	C.G.M (CPC)	Member, Convener

**Sub:** Administrative approval for “Supply, installation and commissioning of OPGW (48F), 48F approach cable and 48F FODB in all non-OPGW grid S/S of OPTCL”with an estimated amount of **Rs. 17,58,97,154/-** only incl. GST.

**Background:**

Presently all the listed 16 Grid S/S data are reporting to SLDC through PLCC as there is no OPGW link available. PLCC based communication system became outdated and it is no more as reliable mode of communication compared to OPGW based communication system. OPGW based communication is required for extending applications like data (IEC\_104 protocol) communication with SLDC, IP based speech communication between grid S/S, intranet, AFAS, SAMAST etc. Moreover, OPGW based communication is also required for implementation of STAMS project. So the stringing of new 48F OPGW for mentioned 16 grid S/S will ensure speech and data communication from all OPTCL grid to SLDC through OPGW.

The existing earth wire in few lines have deteriorated due to aging and corrosion. The degraded condition of the earth wire is causing concerns regarding safety and reliability of the network necessitating its immediate replacement.

Further, as per the **recent directive from CMD, OPTCL:** all earth wires across OPTCL's network especially non-OPGW stations are to be replaced with 48 F Optical Ground Wire (OPGW) to enhance communication reliability and facilitate additional revenue generation through fibre leasing.

In addition to that the Hon'ble commission OERC has also directed to connect OPGW to all Non OPGW grid S/S of OPTCL during previous meeting held on Dated: 07.08.2025

**Justification of work:****1. Replacement of Damaged Earth Wire with OPGW:**

- The most of the existing earth wires are in a rusted and deteriorated state, requiring frequent maintenance and posing risks to grid safety.
- The replacement with OPGW will provide high-speed communication capabilities along with giving stability to the electrical network.

## 2. Implementation of CMD's Directive:

- As per the recent instructions from CMD, all existing earth wires are to be replaced with 48 F **OPGW** across the transmission network.

## 3. Shifting of Protection from PLCC to OPGW:

- Distance protection activity over age old PLCC network becomes difficult to maintain due to obsolesce of PLCC equipment. After replacement, the distance **protection operation which was previously done through PLCC, will be migrated to OPGW in 220KV and above grid S/S through DTPC (Digital Tele Protection Coupler).**

## 4. Revenue Generation through Fibre Leasing:

- The additional OPGW fibres will provide an opportunity for leasing to telecom operators, generating additional revenue for OPTCL.

### Cost Estimate:

Estimate has been framed based on the work order no. CGM (Tel)/53<sup>(10)</sup> of Dated 09.02.2024 for supply and erection of OPGW and has been duly checked by finance executive O/o CGM(O &M)

Sl. No.	Description	Total landing cost (incl. GST@18%) in INR
1	Cost of Supply of 48F OPGW, approach cable and FODP	13,77,51,978.00
2	Cost of Erection & commissioning of 48F OPGW, approach cable and FODB	3,81,45,176.00
Total Cost including GST@18%		<b>Rs.17,58,97,154.00</b>

**(Rupees Seventeen Crore Fifty Eight Lakh Ninety Seven Thousand One Hundred Fifty Four Only) including GST.**

### Recommendation of the PSC:

After detail deliberation, PSC recommended as follows.

1. Administrative approval for "Supply, installation and commissioning of OPGW (48F), 48 F approach cable and 48F FODB in all non-OPGW grid S/S of OPTCL" with an estimated amount of **Rs. 17, 58, 97,154/-** only incl. GST be through open tender.
2. The above work is proposed to be undertaken under OPTCL own fund.
3. Approval from OERC will be taken before commencement of any activity under this proposal.

C.G.M (CPC)

C.G.M (O & M)

C.G.M (Project)

C.G.M (CFO)

Director (SLDC)

Director (Operation)

Director (Project)

CGM (Finance)

**Note # 12**

Notes as above

Draft Proceedings for "Supply, installation and commissioning of 48F OPGW (DWSM), 48 F approach cable and 48F FODB in all non-OPGW Grid S/S of OPTCL" is herewith attached for further necessary action.

15/10/2025 01:17 PM

SOUMYA KANTA RAY  
SGM(TEL)

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**Note # 13**

Draft PSC proceeding DFA#18990 is attached in the draft section, may please be perused.

15/10/2025 03:16 PM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 14**

The draft proceeding has been verified.

15/10/2025 04:39 PM

UMESH KUMAR GUPTA  
CGM(FIN)

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**Note # 15**

Draft PSC proceeding DFA#18990 is attached in the draft section, may please be perused.

15/10/2025 05:17 PM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 16**

The draft proceeding is verified.

15/10/2025 07:05 PM

SRIKANTA KUMAR SAHOO  
DIRECTOR(FINANCE)

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**Note # 17**

Draft PSC proceeding DFA#18990 is attached in the draft section, may please be perused.

15/10/2025 07:06 PM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 18**

The draft proceeding is verified.

16/10/2025 03:03 PM

ANADI CHARAN JENA  
CGM(PROJECT)

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**Note # 19**

Draft PSC proceeding **DFA#18990** is attached in the draft section, may please be perused.

16/10/2025 03:04 PM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 20**

The draft proceeding is verified.

16/10/2025 03:52 PM

LAXMI KANTA PANDA  
CGM(O&M)

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**Note # 21**

Draft PSC proceeding **DFA#18990** is attached in the draft section, may please be perused.

16/10/2025 04:00 PM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 22**

The draft proceeding is verified.

16/10/2025 04:48 PM

PRADEEP KUMAR DASH  
DIR(PROJECT)

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**Note # 23**

Draft PSC proceeding **DFA#18990** is attached in the draft section, may please be perused.

16/10/2025 04:59 PM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 24**

OK

17/10/2025 07:52 AM

PRASANTA KUMAR PATTHNAIK  
DIRECTOR(OPERATION)

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**Note # 25**

Draft PSC proceeding **DFA#18990** is attached in the draft section, may please be perused.

17/10/2025 09:57 AM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 26**  
as proposed

24/10/2025 03:03 PM

BHADRESH BACHUBHAI MEHTA  
DIR(SLDC)-IT

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**Note # 27**

Draft PSC proceeding **DFA#18990** is attached in the draft section has been verified by all the PSC members, put up for your perusal and approval please.

24/10/2025 03:04 PM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 28**  
approved

25/10/2025 01:19 PM

BHASKAR SARMA  
CHAIRMAN-CUM-MANAGING DIRECTOR-OPTCL

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**Note # 29**

Approved PSC proceeding **DFA#18990** is attached in the draft section.

25/10/2025 01:24 PM

RANJAN KUMAR PANIGRAHI  
CGM(EL)

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**Note # 30**

30/10/2025 04:02 PM

SOUMYA KANTA RAY  
SGM(TEL)

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