

ODISHA POWER TRANSMISSION CORPORATION LIMITED

Note

ODISHA Province

Reference to P.W.D. Code

DIVISION: - O/o CGM Telecom, OPTCL, BBSR

Chapter VII, Part 7

STATION:- O/o CGM Telecom, OPTCL, BBSR

NAME OF WORK:- Supply, installation and commissioning of OPGW (48F), 48 F approach cable and 48F FODP in all non-OPGW grid S/S of OPTCL.

FUND: - OPTCL OWN FUND

DEPARTMENTAL HEAD:- CGM Telecom

SERVICE HEAD: - CAPITAL Work

MAIN HEAD OF CLASSIFICATION :-

SUB HEAD OF CLASSIFICATION:-

ARM OF THE SERVICE: - Telecommunication

ESTIMATE NO- 07 of 2025-26

AMOUNT- Rs. 17, 58, 97,154/-

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

Estimate of original works (showing Ref Specification Detail and Abstract)

O.S.E.B-144A
(First Sheet)

Bol
13-9-25
DGM Finance
O/o. CGM Telecom OPTCL
Bhubaneswar

SANCTIONED
Rs. 17, 58, 97, 154
(Rupees.. Seventeen Crore
Fifty Eight Lakh
Ninety Seven Thousand one
hundred fifty four only.)

Sanmyakanti Das
12/9/2025
Senior General Manager
O/o CGM, Telecom, OPTCL
Bhubaneswar

Estimate framed by Amita Rani Biswal, Assistant Manager (Telecom), O/o CGM, Telecom for the proposed expenses of Supply, installation and commissioning of OPGW (48F), 48 F approach cable and 48F FODP in all non-OPGW grid S/S of OPTCL for the year 2025-26.

REFERENCES -REPORT-SPECIFICATION

PLCC based communication system became outdated and not as reliable mode of communication as of OPGW based communication system.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 non-OPGW 16 grid S/S will ensure speech and data communication from all OPTCL grid to SLDC through OPGW.

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

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

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

Accordingly, a cost estimate of Rs. 17,58,97,154/- (Rupees Seventeen Crore Fifty Eight lakh Ninety Seven Thousand One Hundred Fifty Four Only) incl. GST has been prepared for Supply, installation and commissioning of 48F OPGW (DWSM), 48 F approach cable and 48F FODP in all non-OPGW grid S/S of OPTCL. The estimate has been prepared based on work order no. CGM (Tel)/53⁽¹⁰⁾ Dated: 09.02.2024

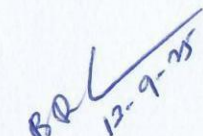
This estimate may please be sanctioned early.

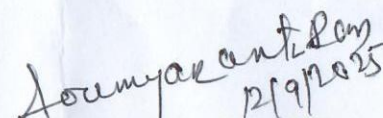


Assistant Manager (Telecom),
O/o CGM (Telecom),
OPTCL, BBSR

ESTIMATE FOR PROCUREMENT OF 48F OPGW & accessories for Non-OPGW stations					
SL NO	NAME OF MATERIALS	UNIT	QNTY	RATE IN RS	AMOUNT IN RS
1	48F(DWSM) OPGW Cable	KMS	568	194896	110700928.00
2	OPGW hardware set like suspension Assembly,Tension Assembly(Dead end assembly,pass through assembly),Vibration Damper,Down lead clamp Assemblies for 48F	KMS	568	4216	2394688.00
3	48 fibre(DWSM)OPGW Joint Box.	Nos.	210	6091	1279110.00
4	Supply of 48F approach cable (DWSM)	KMS	11.2	10307	115438.40
5	Supply of hardware set(HDPE duct, HDPE coupling etc.)for 48 F FOAC	KMS	11.2	93700	1049440.00
4	FODP(Fibre Optic Distribution panel)48 F indoor type,rack mounted with FCPCcoupling and pig tails(DWSM fibre)	Nos.	32	37480	1199360.00
5	SUB TOTAL				116738964.40
6	GST@18%				21013013.59
7	TOTAL				₹ 13,77,51,977.99
8	GRAND TOTAL				or say ₹ 13,77,51,978.00
Rupees Thirteen Crore Seventy Seven Lakh Fifty One Thousand Nine Hundred Seventy Eight Only					


 13/10/25
 Asst. Manager (Telecom)
 O/o CGM, Telecom, OPTCL
 Bhubaneswar


 12-9-25
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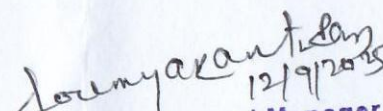

 21/9/2025
 Senior General Manager
 O/o CGM, Telecom, OPTCL
 Bhubaneswar

Estimate for stringing of OPGW(48F) and related stringing works in 48F OPGW to non-OPGW stations					
SL No.	Description	Unit	Qty.	Rate/unit in Rupees.	Amount in Rupees
1	Stringing of 48 F OPGW(DWSM) along with joint Box without supply of hardware fittings.	KM	568	46,800.00	2,65,82,400.00
2	Installation and commissioning of Joint closure including testing and splicing of fibers	Per work	210	23,426.00	49,19,460.00
3	Laying of 48F approach cable with supply of approach cable, HDPE Pipes and Coupler in exsting cable trench/ open space.	KM	11.2	46850.00	5,24,720.00
4	Erection of FODP	Nos.	32	9370.00	2,99,840.00
5				Sub-Total	3,23,26,420.00
GST 18% of Total Amount					5818755.6
TOTAL					3,81,45,175.60
Rounded up to					3,81,45,176.00
(Rupees Three Crore Eighty One Lakh Forty Five Thousand One Hundred Seventy Six) only					

Summary		
	Supply	₹ 13,77,51,978.00
	Erection	₹ 3,81,45,176.00
	Total price in Rs.	₹ 17,58,97,154.00
(Rupees Seventeen Crore Fifty Eight lakh Ninety Seven Thousand One Hundred Fifty Four) only		


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