



ODISHA POWER TRANSMISSION CORPORATION LIMITED

PROCEEDINGS OF THE PSC MEETING HELD ON Dt.29.04.2026	
Memorandum No.:-190 /2026	
MEMBERS PRESENT: 1. Sri P.K. Pattnaik, Director (Operation) 2. Sri P.K. Dash, Director (Project) 3. Sri S.K. Sahoo, Director (Finance) 4. Sri B.B. Mehta, Director (SLDC) 5. Sri U.K. Gupta, CFO 6. Sri A.C. Jena, CGM (Projects) 7. Sri L. Panda, CGM (O&M) 8. Sri R.K. Panigrahi, CGM (CPC)	Member Member Member Member Member Member Member -Convener

Sub: According Administrative Approval for the Project “**Engineering, Supply, Installation, Testing & Commissioning of following,**

- (i) 132 kV Underground Cable Connectivity from 220/132/33 kV GSS, Balasore to 132/33 kV GSS, Chandipur (UG Cable Route Length: 27.00 km)**
- (ii) One 132 kV AIS Bay Extension each at 220/132/33 kV Grid Sub-Station, Balasore and 132/33 kV Grid Sub-Station, Chandipur”.**

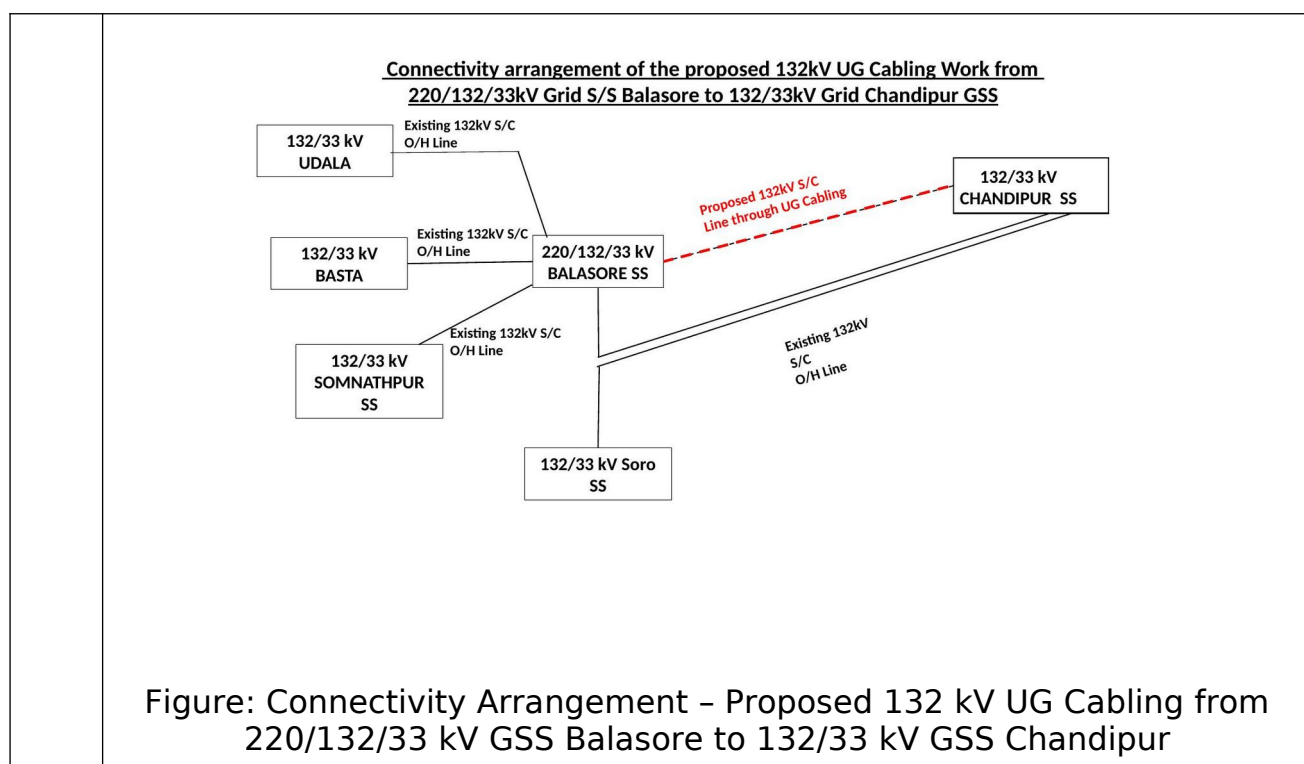
1.	Name of the work / Project / Procurement	:	Engineering, Supply, Installation, Testing & Commissioning of following, (i) 132 kV Underground Cable Connectivity from 220/132/33 kV GSS, Balasore to 132/33 kV GSS, Chandipur (UG Cable Route Length: 27.00 km) (ii) One 132 kV AIS Bay Extension each at 220/132/33 kV Grid Sub-Station, Balasore and 132/33 kV Grid Sub-Station, Chandipur.
2.	Place of the work	:	

	a. Location b. Sub Division c. Division d. Circle	a. Balasore, Odisha b. EHT (P) Sub-Division, Balasore, OPTCL c. EHT (P) Division, Balasore, OPTCL d. EHT (P) Circle, Jajpur Road						
3.	Govt. Approval/Reference of In-principle approval	: In-principle approval was accorded by competent authority.						
4.	For appointment of Consultant / PMC / Service provider with the reasons of outsource	: NA						
5.5	Status of Business Plan / Transmission Plan (Approved by OERC)	: 1. The project has been sanctioned by the State Executive Committee (SEC) in its meeting held on 02.12.2025 under the Chairmanship of the Chief Secretary, Odisha, with an initial sanction of Rs. 98.10 Crore, and a revised tentative project cost of Rs. 142.19 Crore (Incl. GST) as per in-principle approval. 2. Funded through State Disaster Mitigation Fund (SDMF) – Government of Odisha.						
6.	Funding Mechanism	: State Disaster Mitigation Fund (SDMF) – Govt. of Odisha, as approved by the State Executive Committee (SEC) in its meeting held on 02.12.2025 under the Chairmanship of the Chief Secretary, Odisha. The project for 132 kV UG Cabling from Balasore GSS to Chandipur GSS was sanctioned at Rs. 98.10 Crore . Revised tentative project cost: Rs. 142.19 Crore (incl. GST) as per in-principle approval.						
7.	Scope of Work :							
	<table> <tr> <th>Sl .</th><th>Description of Scope</th><th>Qty.</th></tr> <tr> <td>i</td><td>Construction of 132 kV S/C line through UG Cabling from 220/132/33 kV GSS, Balasore to 132/33 kV GSS, Chandipur, Balasore</td><td>27 km</td></tr> </table>	Sl .	Description of Scope	Qty.	i	Construction of 132 kV S/C line through UG Cabling from 220/132/33 kV GSS, Balasore to 132/33 kV GSS, Chandipur, Balasore	27 km	
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3.8.	Estimate Reference a. Estimate No.: 2026000026(SAP) Summary of Estimate (Incl. GST): <table><tr><th>Sl .</th><th>Description</th><th>Amount (Incl. GST)</th></tr><tr><td>1</td><td>Cost towards total supply</td><td>₹ 1,29,25,45,957.87</td></tr><tr><td></td><td>b. Transmission line (UG Cable)</td><td>₹ 1,27,31,09,134.08</td></tr><tr><td></td><td>c. Bay extension</td><td>₹ 1,94,36,823.79</td></tr><tr><td>2</td><td>Stock, Storage & Insurance (3% on Sl.1)</td><td>₹ 3,87,76,378.74</td></tr><tr><td>3</td><td>Sub-Total (1+2)</td><td>₹ 1,33,13,22,336.61</td></tr><tr><td>4</td><td>Contingency @ 3% on Sl.3</td><td>₹ 3,99,39,670.10</td></tr><tr><td>5</td><td>T & P Cost @ 2% on Sl.3</td><td>₹ 2,66,26,446.73</td></tr><tr><td>6</td><td>Transportation @ 5% on Sl.3</td><td>₹ 6,65,66,116.83</td></tr><tr><td>7</td><td>Sub-Total Cost of Materials</td><td>₹ 1,46,44,54,570.27</td></tr><tr><td>8</td><td>Cost towards Electrical Erection</td><td>₹ 6,38,21,054.77</td></tr><tr><td>9</td><td>Cost towards Civil Erection</td><td>₹ 12,33,35,715.41</td></tr><tr><td>10</td><td>Total Cost of Supply, Electrical Erection and Civil Erection</td><td>₹ 1,65,16,11,340.45</td></tr><tr><td>11</td><td>Other Charges (Inspection fees, Statutory charges)</td><td>₹ 50,00,000.00</td></tr><tr><td>12</td><td>Grand Total (10+11)</td><td>₹ 1,65,66,11,340.45</td></tr></table> b. The estimated cost of the project amounts to ₹ 1,65,66,11,340.45 (Rupees One Hundred Sixty-Five Crore Sixty-Six Lakh Eleven Thousand Three Hundred Forty and Paise Forty-Five) only, inclusive of GST.			Sl .	Description	Amount (Incl. GST)	1	Cost towards total supply	₹ 1,29,25,45,957.87		b. Transmission line (UG Cable)	₹ 1,27,31,09,134.08		c. Bay extension	₹ 1,94,36,823.79	2	Stock, Storage & Insurance (3% on Sl.1)	₹ 3,87,76,378.74	3	Sub-Total (1+2)	₹ 1,33,13,22,336.61	4	Contingency @ 3% on Sl.3	₹ 3,99,39,670.10	5	T & P Cost @ 2% on Sl.3	₹ 2,66,26,446.73	6	Transportation @ 5% on Sl.3	₹ 6,65,66,116.83	7	Sub-Total Cost of Materials	₹ 1,46,44,54,570.27	8	Cost towards Electrical Erection	₹ 6,38,21,054.77	9	Cost towards Civil Erection	₹ 12,33,35,715.41	10	Total Cost of Supply, Electrical Erection and Civil Erection	₹ 1,65,16,11,340.45	11	Other Charges (Inspection fees, Statutory charges)	₹ 50,00,000.00	12	Grand Total (10+11)	₹ 1,65,66,11,340.45
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9.9	Basis of Estimate	:	The estimate has been prepared on the basis of: (i) Prevailing OPTCL Rate Contracts for the year 2025 for civil and electrical erection items. (ii) OPTCL Cost Data for the year 2025 for supply of materials. (iii) vide PSC Memo No. 180/2026 dated 20.04.2026: The rate for 132 kV, 1 Core x																																													

		630 sq.mm XLPE Insulated UG Cable has been adopted as the arithmetic average of budgetary offers received from OEMs (KEC International Ltd., Sterlite Electric Ltd., and IEMMA Updated rate), as opined by the PSC Committee. (iv) Budgetary offers from OEMs for jointing kits, termination kits, link boxes. (v) From recent Biennial Procurement, and different Approved estimate (i.e.Auto Nagar). The estimate has been duly vetted and concurred by the Finance Wing of the O/o the Chief General Manager (Projects), OPTCL, Bhubaneswar.
10	Financial Year-wise Breakup	: FY: 2026-27- ₹ 66,26,44,536.18 FY:2027-28- ₹ 99,39,66,804.27
1 1	Necessity & Justification	: <u>Existing Grid Configuration:</u> The 220/132/33 kV GSS at Balasore is a critical transmission hub serving major industrial units, urban residential areas, healthcare facilities, and tourism infrastructure in northern coastal Odisha. It feeds downstream 132 kV grids at Soro, Basta, Somnathpur, Udala, and Chandipur through Single Circuit overhead lines. The 132/33 kV GSS at Chandipur is connected to Balasore GSS through 132 kV S/C LILO overhead line. <u>Vulnerability of Existing Overhead Infrastructure:</u> • Cyclones & High Wind Speeds: Odisha's coastal belt is frequently impacted by severe cyclones (e.g., Cyclone Yaas), causing extensive damage to towers, conductors, and line components, and leading to prolonged outages. • Saline Atmospheric Conditions: Continuous exposure to saline moisture accelerates corrosion of transmission towers, insulators, and hardware fittings, reducing asset life and system reliability.

			Adoption of underground cabling is essential to enhance transmission system resilience and ensure uninterrupted power supply to Balasore's critical load centres, particularly during extreme weather events.
1 2	Land acquisition status: a. Whether Government land or private land? b. Status of soil investigation, contour survey, line survey etc	:	➤ NA
1 3	Implementation schedule	:	To be completed in 18 months from date of LOA.
1 4	Mode of tendering: (Open / Limited e-tender or open / Limited manual tender)	:	Open Tender
1 5	Project appraisal	:	NA
1 6	Status of approval of Govt. and OERC	:	The proposal has already been submitted to OERC For approval on Dt.05.05.2026.
1 7	DOP Guideline	:	As per Sl. no. 2.7.1(a) of DOP of Corporate office, "For construction of new projects and major renovation & modernization of substation and lines, the Board of Directors has full power to accord Administrative Approval (more Rs.50.00 Crore) on recommendation of PSC. "
1 8	Connectivity Arrangement (SLD) :		



Background & Justification:

Existing Grid Configuration: The 220/132/33 kV GSS at Balasore is a critical transmission hub serving major industrial units, urban residential areas, healthcare facilities, defence establishments (DRDO), and tourism infrastructure in the northern coastal belt of Odisha. The 132/33 kV GSS at Chandipur is presently connected to Balasore GSS through a 132 kV S/C LILO overhead line. The existing overhead line is vulnerable to frequent cyclonic disturbances and saline atmospheric conditions prevalent in the coastal zone of Balasore district.

Vulnerability of Existing Overhead Infrastructure:

- (i) **Cyclones & High Wind Speeds:** Odisha's coastal belt is frequently impacted by severe cyclones (e.g., Cyclone Yaas, Cyclone Fani), causing extensive damage to overhead towers, conductors, and line hardware, and leading to prolonged outages affecting critical loads.
- (ii) **Saline Atmospheric Conditions:** Continuous exposure to saline and humid coastal atmosphere accelerates corrosion of transmission towers, insulators, and hardware fittings, reducing asset life and increasing maintenance cost and system downtime.
- (iii) **Reliability & Continuity of Supply:** The existing overhead line infrastructure does not provide the required N-1 security for critical loads including the DRDO establishment at Chandipur, industrial units, and coastal communities.

Underground cabling eliminates the above weather-related risks and ensures high reliability.

Need for Underground Cabling: Adoption of 132 kV underground cabling is essential to enhance transmission system resilience along this critical coastal corridor and ensure uninterrupted power supply to Chandipur and its surrounding load centres, particularly during extreme weather events and to avoid critical ROW issues.

Key System Benefits:

- Elimination of weather-induced outages on the Balasore-Chandipur 132 kV corridor, ensuring reliable power to critical defence, industrial, and civilian loads.
- Enhanced transmission system resilience against cyclones, flooding, and saline corrosion in the coastal zone of Balasore district.
- Improved N-1 security for the 132/33 kV GSS, Chandipur, reducing dependence on the single-circuit overhead network.
- Reduction of maintenance costs and outage durations associated with overhead line infrastructure in high-risk coastal zones.

Note:

- I. The proposal for funding under SDMF was initially submitted vide letter dated 13.05.2025 for an estimated cost of ₹98.10 Crore based on preliminary assessment (Previous RC), wherein detailed route survey had not been carried out. Subsequently, in-principle approval was accorded on Dt. 03.01.2026 for ₹142.19 Crore based on tentative revised costing (After approval of funding and to initiate further necessary work).
- II. Thereafter, during preparation of the detailed estimate, detailed route survey were carried out for the proposed 27 RKM underground cable corridor. Based on the finalized scope, the requirement of 81 km single-core 132 kV, 1 Core × 630 sq.mm XLPE UG Cable was assessed. Since UG cable forms the major component of the project, the adopted cable rate ₹1,22,93,532.29 per KM resulted in a total UG cable cost of approximately ₹117.50 Crore, which itself constitutes the major portion of the total project cost.
- III. It is pertinent to mention that, if the estimate had been prepared based on existing OPTCL cost data rates, the UG cable cost would have been approximately ₹73.61 Lakh per KM and the overall project cost would have been around ₹112.25 Crore only. Therefore, the increase in the total project cost to ₹165.66 Crore (inclusive of GST) is primarily attributable to the adoption of prevailing market-based rates for the 132 kV UG cable and associated accessories during detailed estimation.

Observations of the PSC

The matter was deliberated in detail in the PSC vide Memorandum No.190/2026 dtd.29.04.2026 and the following observations were made by the committee:

- 1) The project is sanctioned under SDMF and essential for ensuring reliable power supply in the cyclone-prone coastal belt of Odisha.
- 2) The existing overhead line is vulnerable to cyclones and saline conditions; underground cabling will enhance system resilience, reliability, and N-1 security for critical loads.
- 3) The rate for **132 kV, 1 Core × 630 sq.mm XLPE Insulated UG Cable** has been adopted as the arithmetic average of budgetary offers received from OEMs (KEC International Ltd., Sterlite Electric Ltd., and IEMMA Updated rate), as opined by the PSC Committee **Vide PSC Memo No. 180/2026 dated 20.04.2026**.
- 4) The estimated cost of ₹1,65,66,11,340.45 (incl. GST) is based on rate contracts rates and budgetary offers from OEMs and other approved estimates.
- 5) The proposal aligns with **disaster resilience objectives** and will significantly reduce outage duration, maintenance requirements, and ROW-related issues in the coastal corridor.
- 6) The proposal under SDMF was initially submitted on 13.05.2025 for ₹98.10 Crore based on preliminary assessment without detailed route survey and was subsequently revised to ₹142.19 Crore after in-principle approval dated 03.01.2026. During detailed estimation, route survey finalized the requirement of 81 km single-core 132 kV, 630 sq.mm XLPE UG cable for the proposed 27 RKM corridor. Since UG cable constitutes a major component of the project, adoption of the prevailing market rate of ₹1,22,93,532.29 per KM resulted in a UG cable cost of about ₹117.50 Crore. Therefore, the increase to ₹165.66 Crore is mainly attributable to adoption of prevailing market-based UG cable rate.
- 7) Vide MoM No. 155 dated. 29.11.2025 of BoD, it has been decided that, After GOO approval wherever required and OERC approval, the proposal is to be placed to the Board for its Administrative approval of the Project and also award of Contracts. However, effort may be made to put up Administrative approval and Award of the Contracts on the same Board Meeting. **Meanwhile tendering activities may be initiated parallely, if required as a preparatory work.**

Recommendations of the PSC

Basing on the observations, members deliberated the proposal in detail and recommended:

- I. The proposal to the BoD for according Administrative Approval to the project **"Engineering, Supply, Installation, Testing & Commissioning of 132 kV Underground Cable Connectivity from 220/132/33 kV GSS, Balasore to 132/33 kV GSS, Chandipur (UG Cable Route Length: 27.00 km) along with One 132 kV AIS Bay Extension each at 220/132/33 kV Grid Sub-**

Station, Balasore and 132/33 kV Grid Sub-Station, Chandipur", at a total estimated cost of ₹ 1,65,66,11,340.45 (Rupees One Hundred Sixty-Five Crore Sixty-Six Lakh Eleven Thousand Three Hundred Forty and Paise Forty-Five Only), inclusive of GST.

- II. A proposal shall be made to State Executive Committee (SEC) for granting of the differential amount required, over and above the earlier approved cost.
- III. LOA to be issued **after obtaining investment approval from OERC.**

Declaration: None of the members have any interest towards the above mentioned firm

**DIRECTOR (OPERATIONS)
(FINANCE)**

DIRECTOR (PROJECTS)

DIRECTOR

DIRECTOR (SLDC)

**CGM (FIN) CUM CFO
(PROJECTS)**

CGM

CGM (O&M)

CGM (CPC)