



## **ODISHA POWER TRANSMISSION CORPORATION LIMITED**

### **REVISED SCOPE OF WORK FOR:26-03 (UMERKOTE)**

**PACKAGE :26-03 - “CONSTRUCTION OF 2X20 MVA, 132/33 KV KV GRID SUB-STATION AT UMERKOTE,132 KV FDR BAY EXTENSION AT DABUGAON S/S AND ASSOCIATED 132 KV LINE FROM DABUGAON TO UMERKOTE ON TURNKEY BASIS”.**

**NOTICE INVITING TENDER-NIT NO. 25 / 2012-13**  
**TENDER SPECIFICATION NO Sr.G.M- CPC-TENDER- PACKAGE- 26-03 / 2012-13.**

**1.0: BRIEF SCOPE OF WORK:-**

**(I) PACKAGE- 26-03 /2012-13.(UMERKOTE).**

i)	Supply excluding power transformers and PLCC (indoor) Equipment (PLCC Panel & RTU )
ii)	Detailed design
iii)	Providing engineering data and drawings, as per specified format, for employer's review, approval and records.
iv)	Complete Manufacturing including Type, Acceptance & Routine testing, as specified.
v)	Packing and transportation from the manufacturer's works to the site including transit insurance & customs clearance/ port clearance (if required), port handling, clearance for imported goods and further loading (if applicable)" As delivered at site basis"
vi)	Receipt, Unloading, Storage, Insurance and Preservation of Sub station & Transmission Line material & accessories at site.
vii)	<p><b>(I) CONSTRUCTION OF 2X20 MVA, 132/33 KV KV GRID SUB-STATION AT "UMERKOTE". S/S has</b></p> <p><b>(1) 04 nos. 132 KV bay (Feeder bay-1,Transformer bay-02, Bus-coupler bay-01) , Bus Arrangement shall be one Main &amp; one Reserve Bus &amp; 02 Nos. spare bay unequipped (01 No. Transformer &amp; 01 No. Feeder), but with bus extension in one Main &amp; one Reserve Bus.</b></p> <p><b>(2) 07 Nos 33 KV Bays (Feeder bay- 04, Transformer bay-02, 1 B/C Bay-02), with bus Bus Arrangement shall be one Main &amp; one Reserve Bus &amp; 03 Nos. spare bay unequipped (01 No. Transformer &amp; 02 No. Feeder), but with bus extension in Main &amp; Transfer Bus Arrangement.</b></p> <p><b>(II ) Construction of one no. 132 KV Feeder Bay Extension at 132/33 KV existing sub-station at DABUGAON. The extension of bay shall be done in the existing sub-station and the bus arrangement shall be one Main &amp; one Reserve Bus.</b></p> <p><b>Care should be taken to match with the existing sub-station for aesthetic view.</b></p> <p><b>* MAIN BUS SHALL BE PROVIDED WITH TWIN ACSR MOOSE CONDUCTOR &amp; RESEVE BUS SHALL BE PROVIDED WITH SINGLE ACSR MOOSE CONDUCTOR.</b></p> <p>(a)Supply and installation of equipments as per BPS (including all civil works). Unequipped bays as suggested with required column foundations, supply &amp; erection of structures with beam, site surfacing (metal spreading),earth mat laying, bus extension etc are to be considered. There shall be no equipment foundations for the unequipped bays.</p> <p>(b) Testing and commissioning of Sub station &amp; accessories.</p>

	(c) Handing over of the completed system to the Owner. <ul style="list-style-type: none"> <li>Approximate Sub-station area(Land): 10 Acres.</li> </ul>
viii)	<b>1.CONSTRUCTION OF 132 KV S/C LINE ON D.C TOWER FROM THE EXISTING 132/33 KV S/S AT DABUGAON TO THE PROPOSED UMERKOTE S/S (APPROXIMATE LENGTH IS 43.4 KMS).</b> (2) Transmission Line route survey of entire stretch, Settlement of all issues related to right of Way and laying of line (including all civil works). (3) Testing and commissioning of Transmission Line & accessories. (4) Handing over of the completed system to the Owner (5) Satisfactory conclusion of the Contract. (6) Installation of PLCC indoor equipment (owner supply item) at both the end of the sub-station or as directed by the Engg. In charge and also as per the SLD given.
ix)	(a) Supply & Installation of PLCC related equipment (Except Indoor PLCC Panel). The link shall be as per the SLD enclosed. (b) Testing and commissioning of Sub station. (c) Handing over of the completed system to the Owner (d) Satisfactory conclusion of the Contract.

The aforesaid scope of work is only indicative. Bidders are requested to visit the proposed Sites and get familiarized fully with the site conditions & requirement before submitting the bid.

**(II) SCOPE:**

PACKAGE NO.	NAME OF THE SUB-STATION (S) & ASSOCIATED TRANSMISSION LINE	TRANSFORMER CAPACITY (OPTCL'S SCOPE)	NO OF BAYS IN UMERKOTE SUB-STATION			TYPE OF LINE & LINE LENGTH (IN KMS)	NATURE OF FOUNDATION
			132 KV	33 KV	SPARE UNEQUIPPED		
26-03 / 2012-13	2X20 MVA, 132/33 KV KV GRID SUB-STATION AT "UMERKOTE"	132/33 KV, 20MVA TRANSFORMER: QTY: 02	4	7	02 Nos (132 kV bay) 03 Nos (33kV bay) * 132 & 33 KV Main & Reserve Bus shall be extended.	CONSTRUCTION OF 132 KV S/C LINE ON D.C TOWER FROM THE EXISTING 132/33 KV S/S AT DABUGAON TO THE PROPOSED UMERKOTE S/S (APPROXIMATE LENGTH IS 43.4 KMS).	OPEN CAST FOUNDATION

**Chief General Manager,CPC**