

CORRIGENDUM-I

TO TENDER NOTICE: TP-46/2011 & BID DOCUMENT No.:SR. G.M-CPC-TENDER-132 KV CABLE-OPTCL-55/2011.

CLARIFICATION TO QUERIES BY DIFFERENT FIRMS & MODIFICATION TO THE TENDER DOCUMENT

REF: PRE BID DISCUSSION ON 10.8.2011 FOR LAYING OF 132KV CABLE AT CHANDAKA

SL NO.	REFERENCE	OPTCL'S SPECIFICATION	OPTCL'S CONFIRMATION
1	5.1.1(e)(BQC)	The manufacturer's factory shall possess modern techniques of a vertical continuous vulcanizing (VCV) Extrusion/ Continuous Caterny Vulcanizing (CCV) System for manufacture of the 132 KV or higher voltage XLPE insulated cables. The manufacturer in this regard shall furnish a certificate and documentary evidence.	The manufacturer's factory shall possess modern techniques of a vertical continuous vulcanizing (VCV) Extrusion/ Continuous Caterny Vulcanizing (CCV) System/ MDCV process for manufacture of the 132 KV or higher voltage XLPE insulated cables. The manufacturer in this regard shall furnish a certificate and documentary evidence.
2	5.1.1(d)(BQC)	The manufacturing facilities for cables must have been certified by Quality Standard ISO 9001 release 2000 and Environmental Management System ISO 14001 by a reputed accreditation body.	The manufacturing facilities for cables must have been certified by Quality Standard ISO 9001 release 2000 by a reputed accreditation body. Quality Standard ISO 14001 for Environmental Management System as optional.
3	5.3 (a)(BQC)	The Minimum Average Annual Turnover (MAAT) of the bidder of best three years out of the last five financial years reckoned on the date of bid opening shall not be less than as specified below for the Package as per the audited financial results. Other income shall not be considered for arriving at annual turnover. MAAT: Rs. 200 Crores	MAAT: Rs. 200 Crores as specified in Tender.

4	5.1(BQC)	(A) The bidder should be an Indian Manufacturer having experience of supply and laying & commissioning of cable system as mentioned in clause no. 5.1.1 & 5.1.2 below respectively. OR (B) The bidder should be an Indian manufacturer having experience as mentioned in clause no. 5.1.1 below and does want to have joint venture partnership with an erector , who fulfills the criteria mentioned at 5.1.2 below. The bid shall include consent letter from the proposed cable erector.	No change in the QR.
5	13.0 (INB)	Price basis and Payments: Price Basis shall be FIRM	2. Price Variation applicable only for copper conductor (1000 Sq. mm) component as per IEEMA.
6	5.1.2 (BQC)	The erectors who have successfully executed a contract of underground cable laying, jointing, termination, testing, and commissioning against each lot of at least 30 (Thirty) % of tendered quantity (in km) of 33 KV or higher voltage class cable systems which must be in satisfactory operation for at least two years as on the date of bid opening. Bidder should poses valid Electrical License (HT).	License of any one (Lead/Other) partner is acceptable.
7	Vol-IIA,Cl.1 The Scope of work,V & Vi	The contractor(s) shall arrange power supply for construction of the project. The expenditure for such arrangement till completion of the project shall be to the contractor(s) account.	As per tender specification.
8	4.0(v) (TS for 132 KV CABLE)	Maximum Fault Current & its duration: 31.5 KA for 1 sec	1. Fault Current shall be 40 KA for 1 Sec.
9	5.2.1 (vii) (TS for 132 KV CABLE)	Outer Jacket: outer jacket will consist of extruded black heavy duty compound confirming to the requirement of type ST-2 for PVC & ST-7 for PE/HDPE compound should be as per relevant IEC.	As per tender specification.

10	5.2.1 (vi) (TS for 132 KV CABLE)	The Metallic Screen shall consist of Corrugated Aluminium. 3.	As per tender specification.
11	11.13 (TS for 132 KV CABLE)	Soil Thermal Resistivity/Soil Resistivity: Ground temperature has not been indicated in the TS.	Ground Temperature to be taken as 30 Deg centigrade.
12	11.11 (TS for 132 KV CABLE)	Clearance: Power cable to power cable clearance (Circuit to Circuit): 0.8 Mtr to 1.2 Mtr according to formation either trefoil/horizontal.	Spacing between Two circuits to be considered 0.8 Mtr.
13	11.7 (TS for 132KV CABLE)	Depth of Trench: the minimum depth of laying any cable from ground surface to the top of the cable: 1.5 Mtrs	Depth of laying to be considered as 1.5 mtr.
14	5.21(vi) (TS for 132 KV CABLE)	The Metallic sheath shall be so selected that Aluminium sheath carry specified fault current (40 KA for 1 sec)	Fault rating of Aluminum sheath 40.0KA for 1sec.
15	5.2 & sub Cl. 5.21(I) (TS for 132 KV CABLE)	Conductor: Single core conductor shall consist of strands, segmental, compacted circular annealed copper/Aluminum wires confirming to IEC -60228 /IS -8130.	Single core 1000 sq mm Copper conductor cable.
16	5.2 & sub Cl. 5.21(II) (TS for 132 KV CABLE)	Conductor screening: Conductor screening shall consist of an extruded layer of thermosetting black semi conducting compound which shall be firmly bonded to the outer surface of the conductor and should cover the whole surface of the conductor and suitable for the operating temperature of the cable and compatible with the insulating material. The nominal thickness of the conductor screen should be as per latest relevant IEC.	Cable should be of Triple extrusion process type.
17	6.2 (TS for 132 KV CABLE)	The bidder shall furnish two sets of type test reports and Pre-qualification test reports as per qualification requirements for 110 KV or higher voltage XLPE Cable system.	Last 05 Years type test report as per IEC is acceptable.

18	Vol-IB,Schd-2A, Item 1.1	1. Chandaka-Nimapara Line: Route Length: 226 Mtrs. BOQ: 2400 Mtrs 2. Chandaka-Mancheswar Line: Route Length: 587 Mtrs. BOQ: 5970 Mtrs	8. 9.	BOQ has been indicated considering: (1) Route length X 8 Nos.;(2) Height of the tower :(3) 20% extra for looping,bending etc of the cable
19	5.1.1 (b) (BQC)	b) Have designed, manufactured, type tested and supplied at at least 50(fifty)% of tendered quantity of 132 KV or higher voltage class single core XLPE insulated cable during last ten years which must be in satisfactory operation for at least two years as on the date of bid opening		As per tender specification.
20	Vol-IIA,Scope of work, Cl.1.0	The above work includes supply of materials, laying of OPTCL designed foundation with supply, Erection of dead end tower, gantry structure, 132kV Lightning arrestor & 132kV Isolator with earth switch for termination of OH line & cable termination structure for 8 cables at each D/C line side and providing end termination structures at substation end.		Tower structure should be as per OPTCL design. Supply and erection including civil works(Foundation) are under the scope of work and the same should be procured From approved vendor of OPTCL / rate contract holder for tower structures.
21	2.1.1 (II-A) Scope of work	Supply of Mandatory spares ,Maintenance & Testing Equipment as Per Schedule-III.		Mandatory spares should be as indicated in Vol -IB, schedule -3. No T&P for maintenance is required. The spares should be suitable for 1000 Sq mm copper cable.
22	4(II-A) Scope of work	The layout drawing furnished by OPTCL shall be taken as guide line		To be uploaded in website
23	Schd-2C,Item No. 3.1	Size of cable trench: 2.0 mtr (W) X 1.5 mtr (D) from the top of the cable.		The cables are to be buried underground at a depth of 1.5 mtr as indicated in tender specification.

24	Vol-IB:-Schd-2C,Item No. 6.1(Erection schedule). & in Schd 2A,2.1 & 2.2	Schd-2c: Termination charges: Erection of single phase earth link boxes, providing suitable supporting arrangements, sheath bonding cable, connecting earth leads, with all lugs, fixtures, clamps, bolts and nuts etc., complete including excavation, providing concrete box with walls of 75mm thick RCC with cover plate for inserting link boxes, and refilling, etc. including earthing as per approved drawings furnished by site engineer. Schd-2A:2.1: 3 phase link boxes with SVL suitable for 132kv XLPE under ground single core annealed copper cable. 2.2:3 phase link boxes without SVL suitable for 132kv XLPE under ground single core annealed copper cable	Single phase link box with SVL at substation end and Single phase link box with out SVL at line end to be considered.
25	Vol-IA,Cond of Contract: CI 4.4	Bidder shall include the cost of type test and other test to be carried out in line with the technical specification in the bid price.	If the type test have been carried out within last 05Years , the same will be accepted. If not done, it is to be done free of cost to OPTCL.
26	Vol-II,TS-E23-132 KV Cable, CI No.13(e)	Supply of dead end (OC) type tower.	7. PC type tower.
27	Technical Spec of 132 KV Cable: 5.1.5	Each cable length shall be provided with a pulling socket pulling eye, which shall be fitted to pulling end. The pulling socket eye end shall be able to take the pulling tension of 21000 kgs., along with factor of safety of 1.25. The supplier shall confirm whether the cable can take this pulling load.	15000 Kg

28	Technical Spec of 132 KV Cable:11.17	CABLE TERMINATIONS a) Cable terminations for outdoor shall be done in accordance with the relevant standards and manufacturer's special instructions. b) Supplier shall supply complete cable terminating tools and accessories.	9. Cable termination kit is not required.
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NOTES: REVISED BIDDING PROPOSAL SHEETS (SCHEDULE-3,2A,2B & 2C) ALSO UPLOADED IN PDF & EXCEL FORMAT. THE EARLIER BPS SHEETS MAY BE IGNORED. THE BIDDERS ARE TO QUOTE ON REVISED BIDDING PROPOSAL SHEETS (SCHEDULE-3,2A,2B & 2C).

SR. GENERAL MANAGER,CPC