



# भारत हेवी इलेक्ट्रिकल्स लिमिटेड

## Bharat Heavy Electricals Limited

Transmission Business Group

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### **AMENDMENT -01 to NIT No. 27449 Dated 23-05-2016**

**Ref: Tender Spec No: TBSM/BANASKANTHA/ETC/PKG-II/TENDER DATE: 06.05.2016**

With reference to above tender for "RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 400KV SWITCHYARD AT BANASKANTHA & SANKHARI IN GUJARAT (PACKAGE-II)" following amendments may please be noted.

**1. Addition of sub item in BOQ:**

**a. BOQ for ETC works of 400kV switchyard at Banaskantha :**

**Following items added in BOQ. Please refer file name "8.1 rev\_01\_BOQ for ETC works of 400kV switchyard at Banaskantha (Annexure-I)" :**

S.No.	Voltage Class (kV)	Type	Description	Unit	Total Qty
16.14.1		Supply included in bidders scope	Supply and Laying of 25 mm GI pipes( light grade) conduits alongwith socket, bend and joint on trench rack support . Cutting, threading, fixing of clamps sockets/ bends/joints where required etc. complete. Supply of required clamp for fixing GI conduits on Cable rack shall be in ETC contractor scope. (Payment will be made for the as erected pipe length). GI conduits shall be used for laying of fiber optic cables /sensor cables.	M	1500
16.14.2			Armoured FO cable along with connectors for SAS & Busbar Protection. The laying of network/optical cables cables shall be in the contractor scope. However, Optical cable will be laid under SAS supplier's supervision. Splicing and Termination shall be in SAS supplier's scope.). FO cable shall be laid in 25mm dia. GI pipes .	M	2000

**b. BOQ for ETC works of 400kV switchyard at Sankhari :**

**Following items added in BOQ. Please refer file name “8.2 rev\_01\_BOQ for ETC works of 400kV switchyard at Sankhari (Annexure-II)”:**

S.No.	Voltage Class (kV)	Type	Description	Unit	Total Qty
9.5.1		<b>Supply included in bidders scope</b>	Supply and Laying of 30 mm HDPE pipes conduits along with socket, bend and mounting on trench wall / rack support . Installation of the same in complete aspect. Supply of required clamp for fixing of the HDPE pipe on Cable trench wall / rack shall be in ETC contractor scope. (Payment will be made for the as erected pipe length). HDPE Pipe shall be used for laying of fiber optic cables /sensor cables.	M	500
9.5.2			Armoured FO cable along with connectors for SAS & Busbar Protection. The laying of network/optical cables cables shall be in the contractor scope. However, Optical cable will be laid under SAS supplier's supervision. Splicing and Termination shall be in SAS supplier's scope.). FO cable shall be laid in 30 mm HDPE pipes .	M	500

**c. BOQ for unloading & storage works of 400kV switchyard at Sankhari : The unit of item at Sl. No 8.5 may be read as km in place MT. Please refer to file name “8.4 REV\_01\_BOQ for unloading & storage works of 400kV switchyard at Sankhari (Annexure-IV)”.**

1	2	3	4	5
Sl. No.		Item Description	Unit	Quantity
8.5		50X6 MS Flat	KM	0.5

**In view of queries by some bidder, the clarification are as below.**

**BOQ for unloading & storage of equipment**

Sl. No.	PERTICULARS	CLARIFICATION
1	Storage location for both Banaskantha & Sankhari substations are common or 2 separate locations. Please indicate distance between both substations.	Storage locations for both Banaskantha and Sankhari shall be at the respective site. (approx. 25km apart)
2	Distance between storage location & erection sites.	Storage is situated within project premise.
3	Equipment wise Dimensions & weights of material to be handled & stored at each location.What is the total weight of material to be handled?	Weight of switchyard equipment's are standard. PI refer standard Powergrid equipment's.
4	Weight & dimensions of 400kV 125MVAR reactor.	Typical drawing attached for the same. PI refer the same for weight and dimensions.
5	Whether any closed storage envisaged/provided for storage? If yes what is the dimensions.	Banaskantha - 2 or 3 number open store of size 2000 Sq Meter each + 2 number closed store of 200 Sq meter each. Sankhari - 1 number open store of size 250 Sq Meter + 1 number closed store of 100 Sq meter
6	No. of watch & ward persons to be provided per shift per location.	Adequate manpower to fulfil the security of material under scope.
7	Where is the mandatory spares to be handed over to customer?	Spares are to be handed over to customer at their store within project premise.

## BOQ for ETC work

8	What is weight of 125 MVAR reactor to be erected? What is the quantity of oil to be filtered?	Typical drawing attached. Pl refer the same for weight and dimensions. In addition to the quantity mentioned in GA drawing, <u>Additional 10KL Spare insulating oil will be processed as spare.</u> Oil qty may slightly vary.
9	What is rating of 220V & 48V battery banks?	220V, 1500AH VRLA Battery, and 48V, 1500AH VRLA Battery
10	What is size of 11kV XLPE cable?	11kV XLPE cable of 1Cx185 mm <sup>2</sup> (Aluminium Conductor)
11	In annex 1 BOQ, quantity is not specified for item nos. 16.08 to 16.14. Whether unit rate is to be indicated?	Pl refer BOQ Rev.01 uploaded on website.
12	In annex. II BOQ item no. 9.5 specifies FO cable to be laid in contractor supplied HDPE pipe where as notes at end of BOQ indicated FO cable to be laid in HDPE duct. Please clarify. If duct is to be supplied by contractor. If yes please indicate size & specs.	HDPE duct means HDPE Pipe. The same is under contractor's scope of supply. Size indicated in BOQ.

2. Due date & time for tender submission and technical bid opening are extended as below

**Tender submission date & time** : **03-06-2016, 15:00 hrs.**  
**Technical bid opening date & time** : **03-06-2016, 15:30 hrs.**

- All other terms & conditions of the tender specifications remain unchanged.
- Please enclose with your Technical Bid a copy of this amendment-01 duly signed by your authorized signatory and stamped.
- Bidder should submit the price in revised Price bid format enclosed with this amendment as below
  1. 8.1 rev\_01\_BOQ for ETC works of 400kV switchyard at Banaskantha (Annexure-I)
  2. 8.2 rev\_01\_BOQ for ETC works of 400kV switchyard at Sankhari (Annexure-II)
  3. 8.4 REV\_01\_BOQ for unloading & storage works of 400kV switchyard at Sankhari (Annexure-IV)
- Accordingly price bid format with following file name stands deleted
  4. 8.1 BOQ for ETC works of 400kV switchyard at Banaskantha (Annexure-I)
  5. 8.2 BOQ for ETC works of 400kV switchyard at Sankhari (Annexure-II)
  6. 8.4 BOQ for unloading & storage works of 400kV switchyard at Sankhari (Annexure-IV)

**Krishna Swaroop Singh**  
**(DGM/TBSM)**