AMENDMENT NO. 02

ENQUIRY NO. 220E222 DATED 07.02.2011 DUE ON 09.03.2011

ITEM: 400 KV XLPE CABLES WITH ACCESSORIES

PROJECT: 750 MW Pragati CCPP at Bamnauli

The Amendment No. 02 Dated 08.03.2011 to Enquiry No. 220E222 with aforementioned details is issued for reasons elaborated below :

- 1. Amendments to Technical Specification TB-335-316-001, Rev.- 01.
- 2. Due date for submission of Techno-Commercial Bid is extended upto 18.03.2011.

All other Terms & Conditions of Tender Enquiry remains unchanged.

Archana
for BHARAT HEAVY ELECTRICALS LTD.
Engineer (TBMM)

Amendments to technical specification no. TB-335-316-001, R-01

		Amandments/Clarifications
Cl. No./Item No.	Description	
1.1 of Section -1	Design ambient temperature and Minimum ambient	50°C and 0°C
(Item No. 23 and 24)	temperature	
1.2 of Section -1	The cables will be laid on Al. trays which will be earthed	The cables will be laid directly on cable racks made
(Note -4)	by providing MS Flat.	of 100X100x10 mm MS painted angle which will be earthed by providing GI Flat.
1.2 of Section -1	Link Box for Earthing	Set is defined for complete one circuit
		(approximately 1 kilometer) including jointing required to complete.
1.2 of Section -1	Link Box for Cross bonding	Set is defined for complete one circuit (approximately 1 kilometer) including jointing
		Supplied 24 core fibre ontic cable shall be
1.2 of Section -1	24 cores Optical fiber cable in each circuit for	suitable for communication to existing
(Item no. 1.4.6)	protection communication and temperature sensor	OPGW cables , protection and temperature
	interval of 1000M.	sensing purpose. This scope also include
		splashing of fibre optic cables at both end.
		Specification for fibre optic cable is enclosed.
6.0 of Section -2	Customer	DTL Property
Ad O of Spation 3	In surface trench cable will be laid in trefoil arrangement	In surface trench, cable will be laid in Flat formation
11.0 of Section -z	on support angle and will be fixed with angle by clamps	on support angle and will be fixed with angle by
	made of non-magnetic material.	clamps made of non-magnetic material
5 3-h of Section -2	Metallic Screen (Armour): The metallic screen shall be of	Metallic Screen (Unarmour): The cross section of
0.K-11 01 06001011	non-magnetic SS316 stainless steel tapes or 1% bronze	the metallic sheath that is corrugated or laminated
	tapes/ plain copper round wires, helically applied over the	Aluminium sheath in combination with statutess steel
	semi-conducting bedding tape/s.	tapes/bronze tapes/plain copper touting wife selection

Test report ensuring the above compliance shall be furnished by the contractor.	calculations of the design of metallic screen/sheath. ii) Ensuring mechanical protection of the cable. iii) Ensuring radial water tightness of the cable.	short circuit (cable operating at maximum conductor temperature) shall be indicated.	i) Sustaining the system short circuit rating of 40 KA for 1 Sec. The temperature of materials	Aluminium sheath in combination with stainless steel tapes/bronze tapes/plain copper round wire screen shall be designed to meet the following	Note: Requirement of Metallic Sheath/Screen: The cross section of the metallic sheath that is cornerated	A binder tape of suitable material/annealed plain copper shall be applied in the form of an open helix, over the metallic screen.
	Test report ensuring the above compliance shall be furnished by the contractor.	iii) Ensuring radial water tightness of the cable.	ii) Ensuring mechanical protection of the cable.	circuit calculations of the design of metallic screen/sheath.	time of short circuit (cable operating at maximum	

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