



2X660 MW OPGCL IB THERMAL POWER STATION, BANHARPALI, UNITS 3 & 4

REF NO. : PE/PG/OPGCL/E-4474/2014

DATE: 02.08.2014

CORRIGENDUM-3

Ammendment -1 to Technical spec and due date extension

EXTENDED DUE DATE
16.08.2014
02.00 PM (IST)

Tender Enquiry no.: PE/PG/OPGCL/E-4474/14 DTD. 21.06.14
2X660 MW OPGCL IB THERMAL POWER STATION, BANHARPALI, UNITS 3 & 4
CONDENSER ON LOAD TUBE CLEANING SYSTEMS (COLTCS)

Bidder to note following:

1. Due date has been extended upto 16.08.14 (02:00 PM)
2. Tech specification has been revised as per enclosed Annex-01. Bidder to Quote/
Revised their offer accordingly.

With Regards,
For & on behalf of BHEL

Haseen Ahmed
DY.MANAGER/PG-II-1

Encl:-Annex-1 to amendment of Tech Specification.

Please reply to:

S Bhattacharjee / Haseen Ahmed, Dy. Manager
PG-II-1

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AMENDMENT-1 dated 02.08.2014

Volume	Section	Clause	Statement	Amendment
IIB	C1 (Mechanical details)	3.2.1 j)	Power and Control cables between PLC/LCP and various drives in bidder's scope of supply	Power and Control cables between PLC/LCP and various drives in BHEL scope of supply
IIB	C1 (Mechanical details)	3.2.1 l)	Control cables between field instrument and PLC control cable	Deleted
IIB	C2 (Electrical details)	Annexure-I to section C: Standard Electrical scope between BHEL and Vendor	S. no.3	Refer Annexure-1 for changes.


AMENDMENT-1 dated 02.08.2014

REV : 0 DATE : 05.06.2014

ANNEXURE – I TO SECTION – C: STANDARD ELECTRICAL SCOPE BETWEEN BHEL AND VENDOR

PACKAGE: COLTCS

PROJECT: 2X660 MW OPGCL IB Valley TPS

S.NO	DETAILS	SCOPE SUPPLY	SCOPE E&C	REMARKS
1	415V MCC	BHEL ^{\$}	BHEL ^{\$}	1. 415 V AC/240 V AC supply shall be provided by BHEL based on load data provided by vendor at contract stage for all equipment supplied by vendor as part of contract including power supply equipment (battery charger etc) required for the PLC/control panel (as applicable) for the system supplied by vendor. 2. Interposing relays (RE 302 of Jyoti make or equivalent), if required for PLC and microprocessor based systems, shall be provided by BHEL in MCCs. Requirement of these relays shall be furnished by vendor during detailed engineering stage.
2	Local Push Button Station (for motors)	BHEL ^{\$}	BHEL ^{\$}	Located near the motor.
3	Power cables, control cables and screened control cables for a) both end equipment in BHEL's scope b) both end equipment in vendor's scope c) one end equipment in vendor's scope	 BHEL ^{\$} BHEL ^{\$} BHEL ^{\$}	BHEL ^{\$} BHEL ^{\$} BHEL ^{\$}	1. Sizes and quantity of cables required shall be informed by vendor at contract stage (based on inputs provided by BHEL). Finalisation of cable sizes shall be done by BHEL. Vendor shall provide lugs & glands accordingly. 2. Laying of cables by BHEL except for cabling in vendor scope. 3. Termination at BHEL equipment terminals by BHEL. 4. Termination at Vendor equipment terminals by Vendor.
4	Any special type of cable like compensating, co-axial, prefab, MICC, fibre optical etc.	Vendor	Vendor	
5	Cable trays, accessories & cable trays supporting system	BHEL ^{\$}	BHEL ^{\$}	
6	Cable glands and lugs for equipments supplied by Vendor	Vendor	Vendor	1. Double compression Ni-Cr plated brass cable glands 2. Solder less crimping type heavy duty tinned copper lugs for power cables 3. Solder less crimping type heavy duty copper lugs for control cables.
7	Conduit and conduit accessories for cabling between equipments supplied by vendor	Vendor	Vendor	Conduits shall be medium duty, hot dip galvanised cold rolled mild steel rigid conduit as per IS: 9537. Makes of conduits shall be subject to customer/ BHEL approval at contract stage.
8	Lighting	BHEL ^{\$}	BHEL ^{\$}	
9	Equipment grounding & lightning protection	BHEL ^{\$}	BHEL ^{\$}	
10	Below grade grounding	BHEL ^{\$}	BHEL ^{\$}	
11	LT Motors with base plate and foundation hardware	Vendor	Vendor	Makes shall be subject to customer/ BHEL approval at contract stage.
12	Mandatory spares	Vendor	-	Vendor to quote as per specification.
13	Recommended O & M spares, E & C spares, erection &	Vendor	-	As per specification

ANNEXURE – I TO SECTION – C: STANDARD ELECTRICAL SCOPE BETWEEN BHEL AND VENDOR

PACKAGE: COLTCS

PROJECT: 2X660 MW OPGCL IB Valley TPS

S.NO	DETAILS	SCOPE SUPPLY	SCOPE E&C	REMARKS
	maintenance tools & tackle.			
14	Any other equipment/material/service required for completeness of system but not specified above (to ensure trouble free and efficient operation of the system).	Vendor	Vendor	
15	a) Input cable schedules (C & I) b) Cable interconnection details for above c) Cable block diagram	Vendor Vendor Vendor	- - -	Cable listing for C & I systems for vendor supplied equipment shall be furnished during detail engineering by vendor in soft copies in the BHEL cable schedule format.
16	Equipment layout drawings	Vendor	-	For ensuring cabling requirements are met, vendor shall furnish layout drawings (both in print form as well as in AUTOCAD) of the complete plant (including electrical area) indicating location and identification of all equipments requiring cabling, and shall incorporate cable trays routing details marked on the drawing as per PEM interface comments. Electrical equipment layout drawing shall be to BHEL approval.
17	Electrical Equipment GA drawing	Vendor	-	For necessary interface review.

NOTES:

1. Make of all electrical equipments/items supplied shall be reputed make & shall be subject to approval of BHEL/customer after award of contract.
2. All QPs shall be subject to approval of BHEL/customer after award of contract without any commercial implication.
3. For skid mounted system, 2 nos. (1W+1S) supply of 415 V, 3 phase, 4 wire AC shall be provided by BHEL/Customer. Complete skid including changeover between feeder/starters/LCP/inter-locks/protection devices / any other supply etc. shall be in bidder's scope only.
4. \$: Shall be in customer scope where equipment are supplied by customer.