

Ref: BHE/PW/PUR/BWT6-LP PIPING/2230/Corr-03/Clarifications & Time Extension

Dt: 10/02/2020

To
ALL BIDDERS

Sub: Corrigendum-03: Clarifications and offer submission due date extension.

Job: Handling at site stores / storage yard, transporting to site, inspection, preassembly, erection, alignment, welding, NDT, fixing of hangers & supports, chemical cleaning / pickling, oil flushing, water flushing, hydro testing & steam blowing, surface finish, supply & application of primer & finish paints/ Anti corrosive / Wrapping and coating as applicable including labelling & flow direction on the piping / over insulation & hangers and supports, pre-commissioning, commissioning, trial operation & handing over to customer for, LP piping and its associated items, CW & ACW water system, Fire protection system, Valves, Fittings, Hangers & Supports and Insulation of 1x660MW, Unit-6, Bhusawal TPS, Bhusawal.

E-Tender Specification Number: BHE/PW/PUR/BWT6-LP PIPING/2230

Bidders to kindly take note of the following:

AA) Clarifications:

Sl. No.	Reference Clause of Tender Document	Existing provision	Bidder's query	BHEL's Clarification
1.	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter - V: T&Ps and MME to be deployed by BHEL on sharing basis page 67 of 196	All cranes (except Contractor scope) required for mentioned work will be arranged by BHEL as per requirement.	We refer to TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter - IV: T&Ps and MMEs to be deployed by Contractor, page 61 of 196 and note that indicative quantity of Cranes and other T&P are indicated therein. We have not understood which Crane shall be provided by BHEL as free of cost which are the cranes to be provided by contractor. Please clearly specify the crane to be provided by	Tender condition shall prevail

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			<p>contractor and crane to be provided by BHEL indicating the capacity.</p> <p>We understand, all cranes required for this work shall be provided by BHEL as free of charge.</p>	
2.	TECHNICAL CONDITIONS OF CONTRACT (TCC) Chapter - VII: TERMS OF PAYMENT page 72 of 196	Progressive Payment against monthly running bills will be made up-to 85 % of the value of the erected Pro-rata as per SL no 7.1.1 to 7.1.11 of the table 7.1.	Supply of Wrapping coating material and Paint Supply (if any) is included in Contractor's scope of work and is of major value. However Table 7.1 does not indicate any payment term towards same. Please indicate the payment terms for supply of wrapping coating and paint material.	Tender condition shall prevail
3.	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - IX : Estimated weight for various systems in scope of work (BOQ) PAGE 82 OF 196	<p>Page 82 of 196 - Buried CS piping for Fire Protection System - 165.8 MT</p> <p>Page 88 of 196 - Details of Fire Protection System - Hydrant & Spray System Pipes - Sl. No. II 1 indicates sizes 250NB to 80NB - 6050 mtrs</p> <p>Page 93 of 196 - Sl. No. 12 - Wrapping & Coating - 8800 m2</p>	<p>Wrapping and coating material quantity of 8800m2 is not matching with the quantity in M2 as worked out from Pipe quantity indicated in Mtrs at page 88 of 196. The same is worked out as 3665m2 approx.</p> <p>Please clarify which quantity is to be followed during bidding. Else, furnish revised quantity of wrapping coating material for Fire Protection System.</p>	Approximate quantity of 8800m2 shall be applicable for wrapping coating of Fire Protection System.
4.	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - XIV : Erection page 139 of 196	14.34 The contractor shall fabricate pipes, special bends including threading and welding wherever necessary as instructed by BHEL engineer and carry out the acid cleaning of fabricated piping. etc. The raw	Please quantify the work related to fabrication of Pipes, Special bends etc to include the cost of fabrication of such work accordingly in offer.	The works shall be done as per site conditions as necessary for system completion as per instruction of BHEL Engineer.

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		materials for fabrication shall be provided by BHEL free of cost.		
5.	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - XIV : Erection page 146 of 196	14.85 Plate Type Heat exchangers will be supplied for cooling of Auxiliary Cooling water lines. Vendor scope covers erection of these PHEs as per the instruction of BHEL engineers.	Please furnish quantity and weight of PHE.	Refer amendment. Also refer TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - II : Scope of works clause no. 2.8
6.	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - XV : Welding, Heat Treatment & Radiography and Non-destructive Testing page 158 of 196	15.31 Radiography on LP piping joints and other NDT test as called for in the FQP including LPI, MPI, UT and HT will have to be carried out within the quoted rates.	Since FQPs shall be provided By BHEL, we request to provide the same during bidding stage to enable us ascertain the quantum of NDT tests according to same and include in our offer.	Refer welding schedule provided in Vol-IE
7.	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - IX : Estimated weight for various systems in scope of work	Sl. No. 5 Insulation - Wool Matress - 25 MT Insulation - Iron Parts - 3.05 MT Insulation - Al cladding sheets - 8.0 MT	It is noted that as per clause 19.4 - TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - XIX : Lining And Insulation - page 184 of 196 - All insulations and refractory materials including iron components and other sheets casing materials, etc., required as per drawing will be supplied by BHEL. Our offer shall be based accordingly.	Tender condition shall prevail.

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Sl. No.	Reference Clause of Tender Document	Existing provision	Bidder's query	BHEL's Clarification
	(BOQ) PAGE 79 OF 196			
8.	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVII : Painting page 180 of 196	17.25 Painting two coats of bituminous paint on Insulation cladding sheet inner surface.	Since insulation cladding is of Aluminium, please clarify and confirm that no painting is required on Insulation cladding sheet inner surface.	Tender condition shall prevail.
9.	Corrigendum - 2, Amendments to tender documents, Sl. No. 8	1.5 Underground protection for CW/ACW pipes, LP Pipes and fire protection pipes shall be provided as below, i. Pipe surfaces shall be cleaned by wire brush/blasting as required before application. ii. In case of CW/ACW and large diameter pipes outside surface of buried pipes and fittings shall be provided with; one coat of coal tar primer of approved quality followed by coal tar based synthetic primer and single layer of 4mm coal tar tape conforming to AWWA-C-203:2002/IS-15337:2003.	We refer anti corrosive protection for Fire protection Buried pipes and wish to clarify that specification furnished by you is not in use any more as per general engineering practice. Buried pipe are protected with one coat of coal tar primer of approved quality followed by coal tar based synthetic primer and single layer of 4mm coal tar tape conforming to AWWA-C-203:2002/IS-15337:2003. Please review the requirement of FP Buried pipes and confirm that same are to be protected in accordance to above specification.	Tender condition shall prevail.

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Sl. No.	Reference Clause of Tender Document	Existing provision	Bidder's query	BHEL's Clarification
		In case of fire protection pipes, buried pipes shall be lagged with two coats and two wrap coal tar enamel and fiber glass / craft paper as per IS:10221 or corrosion protective tapes of minimum thickness of 4mm (in two layers) of coal tar type as per AWWA-C-203/IS:15337		
10.	Corrigendum - 2, Approved vendors for Anti-corrosive, Sl. No. 6	List of approved Vendors as below; 1. IWL Ltd 2. A R Laminators	Please add and approve following vendors also: 1. Porwal Industries 2. STP Ltd. 3. MP Tar Kindly note that we have recently completed the work of LP Piping at your Suratgarh project and have supplied ACT material from STP Ltd. Also, Porwal Industries was an approved vendor their.	Tender condition shall prevail
11.	Corrigendum - 2, Protection of Internal Surface for buried pipe (For pipe dia 450NB and above), Sl. No. 9	2. Protection of Internal Surface for buried pipe (For pipe dia 600 NB and above)	As per Painting Schedule furnished under Vol-IE Technical Specification-2230, it is specified that painting of Internal Surface - CW/ACW Pipe shall be for pipe - dia - 1000 mm and above. Kindly review and clarify.	Refer amendment.

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12.	Corrigendum - 2, Annexure 1	Piping details for various systems.	<p>Annexure 1 does not include piping details for Fire protection system. We understand same shall be considered as furnished in TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - IX : Estimated weight for various systems in scope of work (BOQ)</p> <p>Please confirm.</p>	Tender condition shall prevail.

BB) Amendment in existing clause:

Sl No	Ref clause of Tender Document (Vol I Tech Bid-2198)	Existing provision	Amended as
1	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - XIV : Erection Clause 14.85 page 146 of 196	<p>14.85 Plate Type Heat exchangers will be supplied for cooling of Auxiliary Cooling water lines.</p> <p>Vendor scope covers erection of these PHEs as per the instruction of BHEL engineers.</p>	<p>14.85 Plate Type Heat exchangers will be supplied for cooling of Auxiliary Cooling water lines.</p> <p>Erection of Plate heat exchanger is not in the scope of this tender. However, end connection/terminal connection shall be in the scope of this tender.</p>
2	TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER - XVIII : Coating and Wrapping Page 183 of 196 AND Corrigendum - 2, amendment in existing clause, Sl No. 9,	2. Protection of Internal Surface for buried pipe (For pipe dia 600 NB and above)	2. Protection of Internal Surface for buried pipe (For pipe dia 1000 NB and above)

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CC) EXTENSION OF OFFER SUBMISSION DUE DATE:

The last date for submission of Tender has been re-scheduled to 24/02/2020, 15.00 hrs.

Technical Bid (Part-1) shall be opened on 24/02/2020 at 16.00 hrs.

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All other Terms and conditions of the Tender Specification shall remain unaltered unless expressly amended by BHEL in writing. Bidders are requested to submit as a part of their offer, a copy of this corrigendum duly Digitally countersigned by the authorized signatory as a token of Bidder's unqualified acceptance of this corrigendum.

BIDDERS MAY PLEASE NOTE THAT SUBJECT TENDER IS E-TENDER AND THE OFFER IS TO BE SUBMITTED ONLY IN E-PROCUREMENT PORTAL→
www.bhel.abcprocure.com

BIDDERS WHO HAVE ALREADY SUBMITTED THEIR OFFERS PRIOR TO ISSUANCE OF THIS CORRIGENDUM IN E-TENDER PORTAL ARE REQUIRED TO RE-SUBMIT THEIR OFFER AFTER TAKING COGNIZANCE OF THIS CORRIGENDUM.

Thanking you,
Yours faithfully,

AGM (Purchase)