

Ref: BHE/PW/PUR/BWT6-LP PIPING/2230/Corr-04/Clarifications& Time Extension

Dt: 24/02/2020

To
ALL BIDDERS

Sub: Corrigendum-04: 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)	2.1 - The scope of work for the package as follows: Handling at site stores / storage	With regard to Annexure 1 enclosed with Corrigendum-02 we have following observations: 1. Size of CW main Piping is indicated as OD 3240 X 20mm thk. Whereas size of same is indicated	1. Size of CW Main Piping shall be OD

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	Chapter – II: Scope of Works Page 44 of 196 Corrigendum-02: Clarifications, Sl. No. 1	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,	as OD 2540 X 20mm thk. in Field welding Schedule of tender documents. Please clarify and confirm CW main pipe size. 2. Total Qty of CW Piping is indicated as 2774.00 MT in the Summary of Weight of BOQ under the scope, Chapter - IX. However the estimated tonnage of CW Pipework from the quantity of Pipes (with UOM as Mtr.), as indicated in Annexure 1 enclosed with Corrigendum-02, the total tonnage is worked out as 1475 MT for Piping and if we add 25% extra for Valves and Fittings etc., the total tonnage works out to be 1843MT. Please review and furnish the correct quantity of Pipes in Annexure 1 to enable us work out the quantity for Anti Corrosive Tape for Buried Piping and quantity for Painting (internal and external).	3240 x 20mm thick. The total weight of CW piping shall be approx. 2774MT (both UG/OG). The quantity of wrapping coating and painting shall be applicable accordingly as per specifications. Refer Vol-IE for reference drawing of CW piping.

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		Fittings, Hangers & Supports and Insulation.	Or else furnish quantity of Anti Corrosive Tape and Painting work in Meter Square.	
2.	As per PAINTING SCHEDULE - Vol-IE Technical Specification- 2230 - Paints for external surfaces protection of vessels / tanks / equipment / piping / fittings / valves etc. to be installed outdoor	Primer - epoxy resin based zinc phosphate primer - 1 coat - 100 micron each layer Intermediate paint - epoxy resin based paint pigmented with Titanium Dioxide - 1 coat - 100 micron each layer Final Paint - epoxy paint - 1 coat - 75 micron each layer Total - 275 microns	Sl. No. 15 of Corrigendum 02 specify - "Refer chapter TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVII : Painting. Also refer painting Schedule / scheme given in VOI IE. Sl. No. 17 of Corrigendum 02 specify - "Painting shall be done as per painting schedule/scheme." All three specification for Painting are indicated in Column 1 and 2 for your ready reference. You may please note that all three specifications are contradicting each other and have different painting specifications resulting in financial implications while working out the cost of painting. Kindly specify the specification to be followed for	Painting schedule document no. PY-AQ-4-M102-8315-01 shall be applicable for Fire Protection system. Painting scheme QP no:7288: QPC:12 shall be applicable for all other LP Piping systems. Refer VOI-IE for painting schedule and painting scheme.

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Sl. No.	Reference Clause of Tender Document	Existing provision	Bidder's query	BHEL's Clarification
	As per Painting Scheme - Vol-IE Technical Specification-2230 - External Surface (over ground piping) of CW,ACW,ECW, Plant water.(For all diameters) TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVII : Painting	Primer - Red Oxide - Zinc Phosphate - 2 coats (35 Microns per coat) Finish - Synthetic enamel - 3 coats (35 microns per coat) Total - 175 microns Primer Painting: two coats of epoxy resin based zinc primer Finish Painting - Finish painting shall be carried out in two coats	the envisaged work i.e. 1. PAINTING SCHEDULE - Vol-IE Technical Specification-2230 - Paints for external surfaces protection of vessels / tanks / equipment / piping / fittings / valves etc. to be installed outdoor OR 2. Painting Scheme - Vol-IE Technical Specification-2230 - External Surface (over ground piping) of CW,ACW,ECW, Plant water.(For all diameters) OR 3. TECHNICAL CONDITIONS OF CONTRACT (TCC) CHAPTER – XVII : Painting	

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BB) EXTENSION OF OFFER SUBMISSION DUE DATE:

The last date for submission of Tender has been re-scheduled to 02/03/2020, 15.00 hrs.

Technical Bid (Part-1) shall be opened on 02/03/2020 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.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)