



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

MATERIALS MANAGEMENT / CAPITAL EQUIPMENT

ENQUIRY – Corrigendum 1

Phone: +91 431 257 7653

Fax :

Email : skaruna@bheltry.co.in

ajay@bheltry.co.in

Web : www.bhel.com

NIT No. 32812

Enquiry
Number:

2601700013

Enquiry
Date:

16.05.2017

Due date for submission of
quotation (Revised):

07.07.2017

You are requested to quote the Enquiry number date and due date in all your correspondences.
This is only a request for quotation and not an order

Item Description: Resistance Heating Based Local PWHT Equipment with flexible Ceramic Pad,
Quantity: 1 No.

Details of Corrigendum

The following clauses of Part-B of the tender specification has been revised as follows:-

Sl. no	Clause No	BHEL Specification Particulars (amended and should be read as)
1	BB.1	The local PWHT system shall consist of a 75-kVA Power source with a contactor switching, recorder and programmable control with manual/automatic selector switches with neon indicator lamp. The controller should have atleast 6 Channel output each having PID controller, energy regulator, with auto/manual switch and suitable indicator lamp, thermocouple input and output socket & 250 A single pole contactor, Input: 415V $\pm$ 10% V AC, 3 phase, 50 Hz, Output 60 V/80 V AC for each channel. <i>Required Qty: 1 No.</i>
2	BB.2	Ability to automatically and simultaneously heat treat different diameters of tube and pipe sizes (engaging one or more of the available all 6 channels) with outer diameter upto 711 mm and wall thicknesses up to 120 mm.

AJAY V ASALKAR

MANAGER

MM / Capital Equipment

NIT No. 32812 BHEL, Tiruchirappalli - 620 014.

Page 1 of 3



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3	BB.9	The general specification shall be: Unit Rating: 75 kVA No. of Circuits: 06 No. of 12 point recorders: 1 No. Digital display, Universal 180 mm Chart Width, 0-1200 °C Fully Automatic Controller: 1 No. Energy Regulator: 06 No. No. of K-Type Thermocouple Plugs: 06 No. Auxiliary Power Output 230V: 01 No. Input Voltage: 415 ± 10% V AC, 3 Phase, 50 ± 2% Hz, through a 3 Wire System [4th wire for EARTHING] – No Neutral Conductor Frequency: 50 Hz Input current: 3 phase (max) 92A Output voltage: 60/80 V Output Current per phase: 360A Type of heating method: Electrical Resistance-Flexible Ceramic Pads Heaters (45A) per circuit: 04 No. Total no. of heaters for PWHT: 24 No. Rating of heaters or elements: 60V; 2.7 kW(minimum) to 4.0 kW (maximum) Cablings Feed Cable shall be capable of carrying the total current offered by the power source through six channels. This shall be of length 25 metres (minimum). The number of feed cables required to be supplied shall be six. Nos. of 25 m, Return Cable (400 A): 06 Nos. Nos. of 25 m, Compensating Cable: 12 Nos. Nos. of 4-way splitters: 12 Nos.
4	CC.2	Each of these six channel shall have a PID controller, energy regulator, with automatic to manual switching provision, thermocouple input and output socket, 250 A single pole contactor, Input: 415 V ± 10% V, 3 phase, 50 Hz, Output: 60 V/80V AC.

AJAY VASALKAR
MANAGER

NIT No. 32812

MM / Capital Equipment
ENCL, Tiruchirappalli - 620 014.

Page 2 of 3



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5	CC.4.1	Each of the channel shall provide semi-automatic controlled circuits independently for resistance heating. Each circuit shall be individually controlled by means of contactor switching and a percentage energy regulator unit and 0 - 1200 °C temperature controllers.
6	CG.1	The Interlink cable work shall be: Triple Cable Set for 75kVA: 25 m long having Feed Cable and Return Cable, each of size 25sq.mm or higher and they shall be of type double insulated HOFR copper cable with male & female camlock connectors and compensating cable with thermocouple plugs. <i>Required Qty: 6 Set</i>
7	II.1	Triple Cable Set for 75kVA: 25 m long having Feed Cable and Return Cable, each of size 25sq.mm or higher and they shall be of type double insulated HOFR copper cable with male & female camlock connectors and compensating cable with thermocouple plugs. <i>Required Qty: 6 Set</i>
8	<i>The due date for submission of quotation has been extended to 07.07.2017</i>	

All other terms and conditions and specifications as published in the NIT_32843 remain unaltered.

Confirmation of acceptance for BHEL commercial terms & conditions and Price Bid formats have been posted in BHEL Corporate web site www.bhel.com or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under above Enquiry reference.

Tenders should reach us before 14:00 hours on the due date Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present	Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  Manager / MM / Capital Equipment
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AJAY V ASALKAR
MANAGER
MM / Capital Equipment
BHEL, Tiruchirappalli - 620 014.