



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirapalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 76 53

Email : skaruna@bheltry.co.in

spsy@bheltry.co.in

Web : www.bhel.com

TWO PART BID

Tender to be submitted in two Parts

Enquiry
Number:

2631800005

Enquiry
Date:

13.01.2018

Due date for submission
of quotation:

12.02.2018

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

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer should reach physically on or before 14.00 Hrs(IST) on the Date of tender opening. Tenders received after 14.00Hrs (IST) will not be considered for evaluation.

Item	Description	Quantity	(Indigenous Vendors) Matl. Will be Delivered to
10	Cast Iron Surface Plate as per the technical specification & commercial conditions applicable(To be downloaded from web site www.bhel.com or http://tenders.gov.in)	1 No.	FOR, BHEL, Stores, High Pressure Boiler Plant, Tiruchirappalli - 620014

Important points to be taken care during submission of offer

- 1) Material shall be delivered to (By Indigenous vendors): As stated above.
- 2) By Foreign Vendors: CFR Chennai Seaport / Airport
- 3) Delivery required 2 months from the date of purchase order.
- 4) Erection & Commissioning period required 2 Weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.
- 5) EMD for this Tender will be (INR): NIL
- 6) Compliance Forms. TRY/IND/08 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
- 7) All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM / CE / GENL / GENL / 001 - EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference .

Tenders should be submitted before 14.00Hrs (IST) on the due date
Tenders will be opened online 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**


DGM / Capital Equipment / MM

S.PARTHASARATHY
MANAGER
CAPITAL EQUIPMENT / MM
BHEL, TRICHY-620014.

PART – A QUALIFYING CONDITIONS

TECHNICAL SPECIFICATIONS OF CAST IRON SURFACE PLATE SIZE 3MX2M-1No.

SI NO	DESCRIPTION	VENDOR TO CONFIRM
1	The supplier should have experience of manufacturing and commissioning of the surface plates and should provide reference list of previous customers with details of the contact persons to whom individual surface plates of size 3mx2m or larger having flatness accuracies up to 0.04 mm and load bearing capacity of 15MT or more, have been supplied. Satisfactory performance certificate from at least one previous customer to be submitted along with the offer.	
2	Suppliers must furnish point-wise replies in their offer along with necessary sketches / drawing / catalogues etc.	
3	BHEL reserves the right to verify the information provided by the vendor. In case the information provided by vendor is found to be false/incorrect, the offer shall be rejected.	

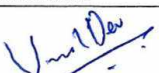

09/01/2018
MODERNISATION/ATP
S.KUMMRESHAN
Sr. ENGINEER
ATP / MODERNIZATION
BHEL, TRICHY - 620 014.


METHODS TOOLING/ATP
VINIL DEV
Sr. Engineer
Methods Tooling / ATP
BHEL, TRICHY - 620 014.


MODERNISATION
R.HARI
Deputy Engineer
Modernisation
BHEL, TRICHY - 14

PART B		
TECHNICAL SPECIFICATIONS OF CAST IRON SURFACE PLATE SIZE 3Mx2M-1No.		
Sl.no	Description	
1	SCOPE: Supply, erection and commissioning of cast iron surface plate	
2	APPLICATION: Cast iron surface plate shall be used as a precision reference for marking, lay out checking and inspection of Heat exchanger and pressure vessel components and sub-assemblies.	
3	SPECIFICATION	Vendor to confirm/ specify details
3.1	Standard : Cast iron surface plate shall conform to IS: 2285-2003 standards.	
3.2	Material : Surface plates shall be made from plain grey iron castings confirming to grade FG: 220 of IS 210-1978. Material test certificate as required by the Indian standard shall be submitted along with the supply.	
3.3	Size : 3m x 2m. For supports and other features/dimensions refer sketch SK:MT:30:00048	
3.4	Load Bearing Capacity: Load bearing capacity of each individual surface plate of size 3m x 2m shall be 15MT. Thickness of individual surface plate to be informed by the supplier.	
3.5	Dimensional Requirements: The flatness accuracy of individual surface plate of 3mx2m shall be up to 0.04 mm. Parallelism and perpendicularity of the four sides with respect to each other of individual surface plates shall be maintained within 0.2mm.	
3.6	Top working surface of each surface plate shall be provided with machined grooves (refer Detail-B in sketch no: - SK: MT: 30:00048/00) with a pitch of 250mm.	
3.7	Suitable number of cored holes on the peripheral ribbings shall be provided for lifting of each surface plate. Provision shall also be made for covering of the cored holes when not in use.	
3.8	Each shall be supported on suitable number of levelling screws (item 2 in the given sketch) which will be mounted on concrete supports grouted inside a pit. Adjustment of the levelling screws shall be done from underneath the surface plate.	
3.9	Overall height of the assembled surface plate shall be 750 ⁺²⁵ mm from average shop floor level. However total height of the concrete supports levelling screws should be sufficient to enable easy entry of the personnel underneath the surface plate for levelling, cleaning, etc.	
3.10	The surface plates shall be finishing machined on their top working surfacing as well as four sides at their periphery. Top surface may be hand scrapped to achieve the specified flatness accuracy.	
3.11	Un-machined exterior surfaces at the periphery of the casting & levelling screws shall be painted with Apple Green enamel paint interior surfaces of the casting shall be painted with red oxide primer.	
3.12	Overall dimensions and foundation details shall be provided by the supplier within one month after placement of the order.	


ADV. TECH. PRODUCTS(ATP)
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3.13	Civil work as per the details given by the supplier shall be done by BHEL.	
3.14	Bidder to provide the approximate weight of surface plates & supports along with the offer	
4	PRE-DISPATCH INSPECTION	
	➤ The surface plates will be inspected by BHEL at supplier's works for all the parameters before dispatch of materials. The job shall be dispatched after BHEL clearance.	
5	ERECTION & COMMISSIONING	
	➤ The supplier should carryout erection and commissioning of the surface tables at BHEL, Trichy and should achieve the specified flatness accuracy. ➤ Also, the surface plates shall be mounted in the shop floor with the help of levelling screws and levelling should be achieved within 0.1mm which shall be inspected and certified by BHEL Calibration centre.	
6	DOCUMENTATION	
	Along with the offer: The vendor shall submit the basic dimensions with proposed lay-out and approximate weight of surface plates and supports along with the offer. During Pre-dispatch inspection: 1. Material Test certificates 2. Specification compliance 3. Dimensional reports along with weight of the individual parts and 4. Flatness accuracies of the individual surface plates as per the specification Along with the Material: • 3 Sets of all the documents mentioned above (Hardbound copy) along with operational/technical manual if any. • A soft-copy of the same may also be provided in CD	

 09/01/18
 ADV. TECH PRODUCTS(ATP)

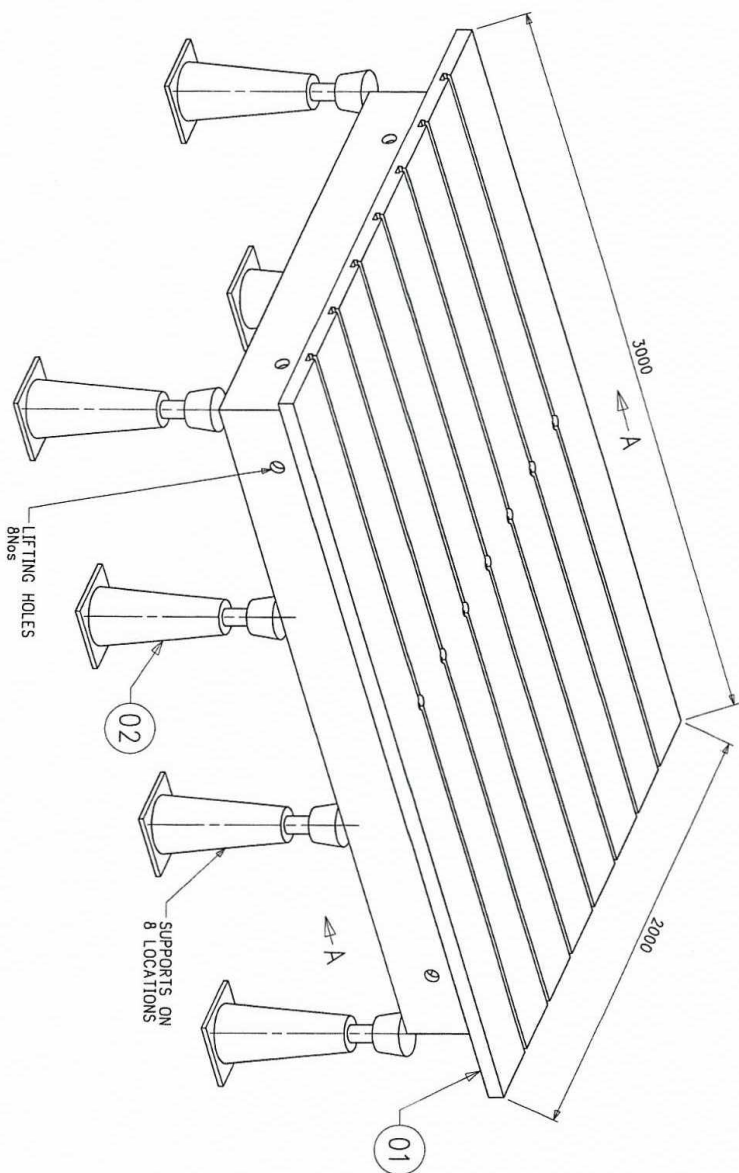
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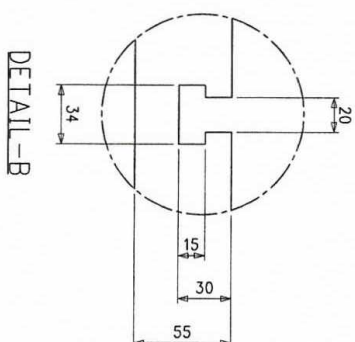
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SKETCH No.

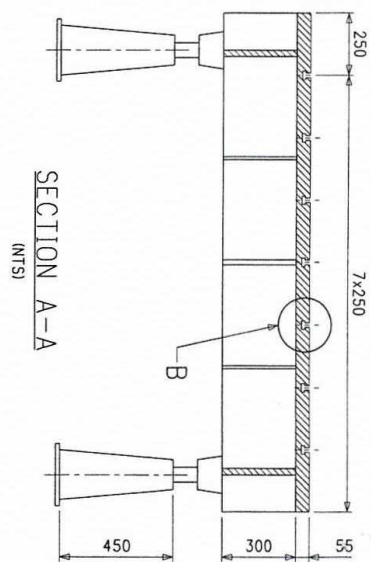
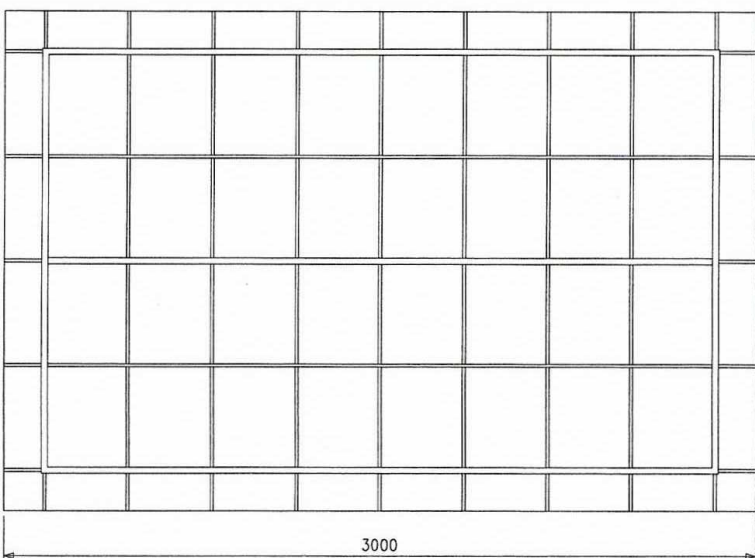


Marking table

ITEM No.	DESCRIPTION	MATERIAL	QTY
01	MARKING TABLE	GUARDED CAST IRON	1
02	SUPPORTS	CAST STEEL	8



DETAIL-B

SECTION A-A
(NTS)BOTTOM ARRANGEMENT
(NTS)

	PREPARED	A.K.A. MARAJ	TITLE	MARKING TABLE	SKETCH No. SK:MT:30:00048	REV. 00
	APPROVED	VINIL DEV				
	DATE	07-12-2017				