

Revision: 0 / HCM

4

		BHARAT HEAVY ELECTRICAL LIMITED		Enquiry No.:	
UNIT'S ADDRESS:				Duc Date:	
CONTACT PERSON'S:				Supplier Qtn. No.:	
Phone:				Date:	
Email:					
SPECIFICATION CUM COMPLIANCE CERTIFICATE OF CAST IRON BED PLATES					
NOTE:-					
1. Vendor must submit complete information against clause no. 11.0 The offer meeting this clause would only be processed					
2. The "Offered" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the					
3. The offer and all documents enclosed with offer should be in English language only.					
4. The information provided by vendor in specification cum compliance certificate will supersede any other information provided by vendor.					
NAME & ADDRESS OF THE SUPPLIER:					
FAX NOS.:					
E-MAIL ADDRESS :					
SCOPE: SUPPLY, ERECTION & COMMISSIONING OF CAST IRON BED PLATES COMPLYING WITH SPECIFICATIONS AS BELOW					
SNO	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / CONFIRMED BY	OFFERED	REMARKS	
1	PURPOSE: (Operations/Jobs involved): Cast iron bed plates with T-slots shall be used for mounting, assembling, marking and clamping the components of heat exchangers and other assemblies. Dimension of Cast iron Bed plate of each work center (Total: 4 Nos): 10M x 10M x 350mm to be made by joining together individual bed plate of 5M x 2M x 350mm	Vendor to note			
2 SPECIFICATION:					
2.1	Cast iron bed plates shall conform to IS: 10602-1983 (Edition 1.1). It shall be made from plain grey iron castings conforming to grade FG 200 of IS: 210-1993. Material test certificates as required by the Indian Standard shall be submitted along with the supply.	Vendor to Confirm			
2.2	Individual Bed plate size (approx) 5000 x 2000 x 350 mm - 28H12 -II IS: 10602.	Vendor to Confirm			
2.3	Total No. of bed plates: 40	Vendor to Note			

2.4	T-slots (8 nos. in each bed plate at equal distance along 5000 length) shall conform to IS:2013-1995.	Vendor to Confirm	
2.5	The bed plates shall be marked at an appropriate place with designation and the manufacturer's name and trade-mark.	Vendor to Confirm	
2.6	To facilitate proper evaluation of the offer, Sketches / Drawings / Catalogues etc. showing all details (of the offered bed plate) shall be submitted by the vendor.	Vendor to Specify	
2.7	UDL: Static load carrying capacity of each individual plate required is 25 T/Sq m.	Vendor to Confirm	
2.8	Surface roughness finish with 2.0 Ra or better.	Vendor to Confirm	
3	Flatness Accuracy		
3.1	The flatness accuracy of each bed plate shall be within 0.15 mm as per grade-II, IS: 10602. Inspection certificates with traceability shall be furnished by the vendor along with the bed plates.	Vendor to Confirm	
3.2	Vendor shall mention and explain in details, the method to be adopted for checking and recording the flatness accuracy during manufacture and during pre-dispatch inspection by BHEL at their works.	Vendor to Confirm	
3.3	A border zone of 20 mm width from the edges of plate, T-slots, holes or cored opening on the top working surface shall be excluded from the requirement of surface flatness accuracy provided no points within any of the border zone shall project higher than the remainder of the working surface of the floor plate.	Vendor to Confirm	
3.4	The flatness accuracy over entire specified zone shall be as per grade-II, IS: 10602 as per size specified.	Vendor to Confirm	
4	CONSTRUCTION:		
4.1	Details of wall thickness, ribbing pattern, levelling pockets and method to join the plates shall be informed by the vendor.	Vendor to Specify	
4.2	The access holes for levelling shall be suitably closed, to avoid entry of coolants, dust, chips etc. into the pockets.	Vendor to Confirm	
4.3	The bed plates shall be finish machined on their top working surface as well as four sides at their periphery. Top surface may be hand scrapped to achieve the specified flatness accuracy. The cast iron bed plates shall be free from cracks, burrs, pits and other defects.	Vendor to Confirm	
5	LEVELING & ANCHORING SYSTEM		
5.1	All fasteners, clamping elements etc. required for grouting, levelling and joining of each plate on all the four sides, shall be specified and included in the offer.	Vendor to Confirm	
6	ERECTION & COMMISSIONING	Vendor to confirm	

6.1	Total area to be covered, and number of zones will be communicated to the supplier within one month of PO placement. Vendor shall submit the G A DrG, Along with F E A report for getting BHEL's approval(After placement of order). Soil condition data will be furnished by BHEL along with the approval, based on this vendor shall submit detailed civil foundation drawing for construction. BHEL shall construct complete foundation. Vendor should arrange equipments required for the testing of foundation, if required by the vendor. The vendor shall also indicate detailed specifications of grouting compound and Grouting procedure etc.	Vendor to confirm	
6.2	Supplier to take full responsibility for carrying out the installation & commissioning & providing of bed plate. Service requirement like power, air, shall be provided by BHEL at only one oint to be indicated by supplier in advance. Other requirements like crane and helping personnel shall also be provided by BHEL.	Vendor to note & Confirm	
6.3	The complete levelling and clamping of all bed plates in each zone should be done by vendor.	Vendor to Confirm	
6.4	Tools, instruments and other necessary equipment required to carry out all above activities should be brought by the supplier.	Vendor to Confirm	
6.5	Charges, duration, terms & conditions for E&C should be furnished in detail separately by vendor along with offer.	Vendor to Specify	
6.6	Civil work and erection work shall be carried out by BHEL under the supervision and guidance of vendor .EOT crane , mobile crane etc. and space to store the material will be provided by BHEL.	Vendor to Specify	
7	INSPECTION		
7.1	Pre-Dispatch Inspection: Acceptance of the Bed plates shall be made by BHEL at vendor's work prior to dispatch. Test certificates, Specification compliance and flatness accuracies of the individual bed plates shall be checked and verified as per clause 2. Vendor to arrange for calibrated equipments for complete inspection.	Vendor to confirm	
7.2	Proving: Levelling and flatness of identified zones shall be proved by the supplier at BHEL works.	Vendor to confirm	
8	PACKING: Bed plate (s) shall be supplied in suitable packing (s) to avoid damage during handling, transportation and storage.	Vendor to confirm	
9	GUARANTEE: Vendor shall provide full and complete Guarantee for trouble free performance for 12 months from date of successful commissioning.	Vendor to confirm	
10	GENERAL : The vendor should submit the following information:		
10.1	Weight of the bed plate.	Vendor to specify	

10.2	Vendor to submit, along with offer, the reference list of customers where similar bed plate have been supplied mentioning the customer name, Basic Details of the supplied bed plate, Year of Supply etc	Vendor to specify	
11	QUALIFYING CONDITIONS :		
11.1	Only those vendors, who have supplied and commissioned the bed plate of size 3.5 m x 1.5 m x 350 mm, capacity 25 T/sq m(with minimum limit of 20 % tendered qty i.e 8 Nos) or more in the past seven years should quote, with the following information:	Vendor to Confirm	
11.1.1	Any documentary evidence like unpriced PO copy & invoice copy etc of bed plates supplied to atleast one customers. Vendor to also provide Performance feed back regarding satisfactory supply & use of bed plate supplied for more than one year after commissioning and acceptance.	Vendor to Confirm	
11.1.2	Name of the customer / company	Vendor to Confirm	
11.1.3	Year of Supply.	Vendor to Confirm	
11.1.4	Flatness accuracies achieved	Vendor to Confirm	
11.2	Vendor should have an average turnover of Rs 1.25 Crore and it should be supported by providing last 3 Consecutive financial years ending 31st March 2018.	Vendor to confirm	
11.3	BHEL reserves the right to verify information provided by vendor. In case the information provided by vendor is found to be false/incorrect, the offer shall be rejected.	Vendor to Confirm	
12	SCOPE OF WORK AND SUPPLY		
12.1	Supply of bed plate (5M x 2M x 350mm) , QTY 40 Nos.	Vendor to Confirm	
12.2	Capacity as per clause No.2.7		
12.3	Installation supervision , commissioning , proving of leveling , flatness accuracy of bed plate at BHEL etc as per specification.	Vendor to Confirm	
13	TERM AND CONDITIONS		
13.1	Delivery of bed plates will be required in two lots (1st lot:20 Nos & 2nd Lot:20 Nos). Vendor has to quote their delivery period from date of manufacturing clearance from BHEL for each lots.	Vendor to specify.	
13.2	Approx. time of installation and commissioning (in days or weeks)	Vendor to specify.	