

	Transformer Plant, BHARAT HEAVY ELECTRICAL LIMITED, BHEL, JHANSI.	Machine No	ME/1/1/2689-2798	Enquiry No. :	
		Quantity	110 Nos	Due Date :	
		Spec. No.	7011(A)	Supplier's Ref.:	
				Date :	
SPECIFICATION CUM COMPLIANCE CERTIFICATION FOR CAST IRON BED PLATES					
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 specifications/requirements shall be treated as non-compliance.				
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.				
ADDRESS OF THE SUPPLIER :		ADDRESS OF THE INDIAN AGENT :			
TELEPHONE NOS.:		TELEPHONE NOS.:			
FAX NOS.:		FAX NOS.:			
E-MAIL ADDRESS :		E-MAIL ADDRESS :			
SCOPE: SUPPLY, ERECTION & COMMISSIONING OF CAST IRON BED PLATES COMPLYING WITH SPECIFICATION AS BELOW					
SNO	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED	OFFERED	DEVIATIONS	REMARKS
1.0	PURPOSE : Operation/ Job involved): Cast iron bed plates with T- slots shall be used for mounting, assembling and clamping the components of loco etc. during weld and assembly.				
2.0	SPECIFICATION:				
2.1	Cast iron bed plates shall conform to BHEL drg. No.-BHE/JHS/WE&S/A 1-01066. It shall be made from plain grey iron castings conforming to grade FG:200 of IS:210-1993 or BS 1452-1961 Grade -14. 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) 3050 x 1525 x 178 mm as per BHEL drg. No.-BHE/JHS/WE&S/A 1-01066	Vendor To Confirm			
2.3	Total No. of bed plates: 110				

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2.5	T- slots (5 nos. in each bed plate at equal distance along 3100 length) shall confirm to BHEL drg. No.-BHE/JHS/WE&S/A 1-01066.	Vendor to Confirm			
2.6	The bed plates shall be marked at an appropriate place with designation and the manufacturer's name and trade-mark.	Vendor to Confirm			
2.7	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			
3.0	<u>FLATNESS ACCURACY.</u>	Vendor to Confirm			
3.1	The flatness accuracy of each bed plate shall be within ± 0.125 mm. 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 manufacturing 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			
4	<u>CONSTRUCTION:</u>	Vendor to Confirm			
4.1	Details of wall thickness, ribbing pattern, levelling pocket and method to join the plates shall be informed by the vendor.	Vendor to Confirm			
4.2	The access holes for levelling shall be suitably closed, to avoid entry of coolants, dust, chips etc. into the pockets.	Vendor to Specify			
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	<u>LEVELING & ANCHORING SYSTEM</u>	Vendor to Confirm			
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 but quoted separately.	Vendor to Specify			
6	<u>ERECTION & COMMISSIONING</u>	Vendor to Confirm			

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6.1	Vendor shall submit the preliminary layout drawing for getting BHEL's approval within one month from the date of letter of indent (LOI)/PO whichever is earlier. Soil condition data will be furnished by BHEL along with the approval. Complete foundation design including details of reinforcement and final layout drawings shall be submitted by the supplier within one month after getting BHEL's approval. BHEL shall construct complete foundation under supervision of supplier and at supplier's responsibility, 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 erection,. Service requirement like power, air, shall be provided by BHEL at only one point to be indicated by supplier in advance. Other requirements like crane and requirements should be informed by vendor in advance.				
6.3	The complete levelling and clamping of all bed plates in each zone (Zone area 7500 mm x 7000 mm) 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 Specify			
6.5	Charges, duration, term & conditions for E&C should be furnished in detail separately by vendor along with offer.	Vendor to Confirm			
7.0	INSPECTION	Vendor to Confirm			
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. Vendor to arrange for calibrated equipments for complete inspection.				
7.2	Proving: Proving to be done on at least one job 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 Specify			
9	GUARANTEE: Vendor shall provide full and complete Guarantee for trouble free performance for 18 months from date of successful commissioning	Vendor to Specify			
10	GENERAL : The vendor should submit the following information:	Vendor to Confirm			
10.1	Weight of the bed plate	Vendor to Confirm			
10.2	Vendor to submit, alongwith offer, the reference list of customer where similar bed plate have been supplied . Supplier to mention the customer name, major specifications of the supplied bed plate, Year of supply etc.	Vendor to Specify			

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11	COMPANY PROFILE/QUALIFYING CONDITIONS :				
11.1	COMPANY PROFILE				
	The BIDDER has to provide the details pertaining to each clause in the table given below to understand the profile of the BIDDER's COMPANY.	Vendor to submit			
	Number of years of experience of the BIDDER/ VENDOR in the field of Design, Manufacturing, & supply of bed plates	Vendor to submit			
	Details on the Codes/Standards adopted for the machine design and manufacturing	Vendor to submit			
	Details on Manufacturing facilities available with the VENDER for:	Vendor to submit			
	(a) Sourcing/Building large machine casting or fabricated components	Vendor to submit			
	(b) Heat treatment facilities	Vendor to submit			
	(c) Machine assembly & testing Rigs	Vendor to submit			
	(d)Capacity of vendor to supply plates within 6 months after LOI	Vendor to confirm			
	(e)Capacity of vendor .for manufacturing such bed plates per month	Vendor to submit			
11.2	QUALIFYING CONDITIONS :	Vendor to Specify			
11.2.1	Only those OEMs, who have supplied and commissioned at least 2 customers the bed plate of sizes as specified in clause 2.2 (within limit of 20 % in quantity) or more in the past ten years and which are performing well for more than 1 year ,should quote. The vendor should provide reference list of customer to whom bed paltes of size as specified in clause 2.2 (with in limit of -20%) or more have been supplied in the past five years along with the following information:	Vendor to Specify			
11.2.2	Purchase order copy of bed plates supplied to atleast 2 customers				
11.2.3	Name of the customer / company	Vendor to Confirm			
11.2.4	Complete postal address of the customer.	Vendor to Confirm			
11.2.5	Year of commissioning.	Vendor to Specify			
11.2.6	Flatness accuracies achieved	Vendor to Specify			
11.2.7	Application for which it is used.	Vendor to Confirm			
11.2.8	Name and designation of the contact person of the customer.	Vendor to Specify			

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11.2.9	Phone, FAX no. and email address of the contact person of the customer.	Vendor to Specify			
11.2.10	Performance certificate from the customers regarding satisfactory performance of bed plates supplied to them. The certificate to be issued within one year of issue of tender.	Vendor to Specify			
11.2.11	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/incorrect, the offer shall be rejected.	Vendor to Confirm			

B K .Manjhi Sr.Mgr.(Fab)	Arjun Singh Mgr. (WE&S)
R N Jha AGM (Fab)	S.J.Chakraborty Sr. DGM (WE&S)