



Bharat Heavy Electricals Limited
Boiler Auxiliaries Plant
Ranipet - 632406, Tamilnadu, India

Enquiry No. 2790399E

Date: 18.06.2019

Specification cum Compliance Certificate for Hydraulic Pin Pusher Machine (Qty. 1 No.)

Notes:-

1. The 'MAKE/ ORDER CODE Offered', 'OFFERED QTY' Columns 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.

2. The offer and all documents enclosed with offer should be in English language only.

Name & Address of the supplier:

Tele. No.

Fax No.:

e-mail

Scope: Design, Supply, Erection & Commissioning of **1 No. of Hydraulic Pin Pusher Machine** complying with the following specification

SL. NO.	DESCRIPTION: BHEL REQUIREMENT	BIDDER RESPONSE
(A)	PRE-QUALIFICATION CRITERIA :	
1.1	Only those bidders who have supplied atleast 1 No. of Hydraulic type press in India of 20 Ton capacity OR higher capacity in last 5 Years (On the date of opening of tender) are eligible to quote. (Proof must be submitted alongwith technical bid)	
1.2	Along with the technical offer the following information should be submitted by the vendor about the companies where similar Equipment has been supplied. a) Name of the customer / company where installed. b) Complete postal address Phone, FAX no. and email address of the contact person of the customer. c) Month & Year of supply d) Parameter of the equipment(s) supplied and application for which the machine is supplied.	
1.3	Authorization certificate: Only the original equipment manufacturer or their authorized Agents / distributors / dealers are eligible to quote. Along with the offer valid authorization certificate from the original equipment manufacturer should be submitted if the offer is submitted by an Agent / distributor / dealers.	
1.4	Catalogue: The specification given in the annexure for the offered item should be duly filled & submitted along with the relevant catalogue for bid consideration.	
(B)	TECHNICAL SPECIFICATION	
Sl. No.	Description - BHEL's Requirement	Bidder Response
1.0	BRIEF SUMMARY	
1.1	Pins are to be pushed into the holes of Pin Rack pair either in vertical or horizontal position. Rack pair gap has to be maintained by removable guides during pin pushing operation. After one pin pushed, the pin rack set is to be moved/ indexed to the next hole position by lifting the pin rack set to a height of ~ 5 MM from the table. While the pin is pushed, the other side of the pin rack is to be rigidly supported. The hydraulic ram movement shall be greater than the maximum pin length of 340 MM. The table shall accommodate the complete pin rack of length 2500 MM. The pin rack shall be indexed/ moved to the next hole by roller or ball sets.	Bidder to confirm.
2.0	SPECIFICATION	
2.1	Model No. / Make	Bidder to specify.

2.2	Required Quantity : 1 No.	Bidder to confirm.
2.3	Pin Pushing Arrangement: Hydraulically Operated (Preferable Vertical Type)	Bidder to confirm.
2.4	Maximum Diameter of Pin : 2" (50.8 MM)	Bidder to note.
2.5	Pin Diameter Tolerance : Min. 50.825 mm to Max. 50.875 mm	Bidder to note.
2.6	Diameter of Pin Rack Holes : Min. 50.800 mm to Max. 50.825 mm	Bidder to note.
2.7	Sizes of various Pin & Pin Racks : a) Pin Dia 1" & Size of Pin Rack is Thk 32mm x Width 90mm x Length 1100mm b) Pin Dia 1-1/2" & Size of Pin Rack is Thk 32mm x Width 90mm x Length 2233mm c) Pin Dia 2" & Size of Pin Rack is Thk 40mm x Width 120mm x Length 2500mm	Bidder to note.
2.8	Maximum Length of Pin : 13.25" (~ 340 MM)	Bidder to note.
2.9	Maximum Length of Pin Rack : 2500 mm	Bidder to note.
2.10	Minimum Interference Length (for 1 Pair of Pin Rack Set) : 32mm + 32mm Maximum Interference Length (for 1 Pair of Pin Rack Set) : 40mm + 40mm	Bidder to note.
2.11	Maximum weight of 1 Set of pin rack alongwith pin : ~ 300 Kgs	Bidder to note.
2.12	Total weight of the machine	Bidder to specify.
2.13	Make of Hydraulic Pump shall be of Rexroth/Vickers/Dowty/Yuken and all valves shall be of reputed make.	Bidder to confirm.
3.0	ELECTRICALS	
3.1	Hydraulic Power pack shall have standalone electrical air cooled chiller. All electrical motor shall be of 3 Phase, 415V $\pm$ 10% operated.	Bidder to confirm.
3.2	415V $\pm$ 10%, 50HZ, 3 Phase AC (3 wire system with out neutral) Power Supply Voltage will be provided by BHEL at a single point near the machine, as per layout recommended by Vendor. All types of cables, connections, circuit breakers etc. required for connecting BHEL's power supply point from isolator provided near the machine to panel and to different parts of the machine/control cabinets, shall be the responsibility of vendor. Requirement of grounding/earthing with required material details is to be informed by vendor well in advance so that same could be incorporated during construction of foundation.	Bidder to confirm.
3.3	Motors shall confirm to IEC or Indian Standards.	Bidder to confirm.
3.4	All cables and cable trays required for the machine should be included in the offer.	Bidder to confirm.
3.5	Vendor should ensure the proper earthing for the machine and its peripherals.	Bidder to confirm.
3.6	Total Power Consumpton	Bidder to specify.
4.0	FIRST FILLING OF OIL	
4.1	First filling of all required Oil & Grease etc. to be supplied by vendor.	Bidder to confirm.
5.0	LUBRICATION	
5.1	Lubrication shall be of life time lubricated wherever possible. Other lubrication points shall be specified. Details shall be submitted.	Bidder to confirm.
6.0	SAFETY ARRANGEMENT	
6.1	Machine should have adequate and reliable safety interlocks/ devices/ guards to avoid damage to the machine, work piece and the operator due to the malfunctioning or mistakes.	Bidder to confirm.
6.2	A detailed list of safety alarms / indications provided on machine should be submitted by the supplier.	Bidder to confirm.
6.3	All the pipes, cables etc. on the machine should be well supported and protected. These should not create any hindrance to machine operator's movement for effective use of machine.	Bidder to confirm.
6.4	Emergency Switches at suitable locations as per International Norms should be provided with details.	Bidder to confirm.
7.0	LEVELING & ANCHORING SYSTEM	
7.1	Complete anchoring system including foundation bolts, anchoring materials, leveling shoes etc. should be supplied.	Bidder to confirm.
8.0	TOOLS FOR ERECTION, OPERATION & MAINTENANCE	
8.1	Special tools and equipments required for erection of the machine shall be brought by the vendor.	Bidder to confirm.
9.0	FOUNDATION	

9.1	Vendor shall submit the preliminary General Layout drawing including control panel for getting BHEL's approval within 15 days from the date of issue of purchase order.	Bidder to confirm.
10.0	ERECTION & COMMISSIONING	
10.1	Supplier to take full responsibility for carrying out the erection, start up, testing of machine, it's control & all types of other supplied equipment, machining of test pieces etc. Service requirement like power, air & water shall be provided by BHEL at only one point to be indicated by supplier in their foundation/layout drawings. Other requirements like crane and helping personnel shall also be provided by BHEL. Details of these requirements should be informed by vendor in advance.	Bidder to confirm.
10.2	Tools, Tackles, instruments and other necessary equipment including Laser equipment required to carry out all above activities should be brought by the supplier.	Bidder to confirm.
10.3	Commissioning spares, required for commissioning of the machine within stipulated time, shall be brought by the supplier on returnable basis.	Bidder to confirm.
10.4	All Cover Plates required for the machine and its peripherals including pits, if any, shall be supplied and installed by the vendor. The plates should be sourced from India.	Bidder to confirm.
10.5	Portion, if any, of the machine, accessories and other supplied items where paint has rubbed off or peeled during transit or erection should be repainted and merged with the original surrounding paint by the vendor. For this purpose, the vendor should supply sufficient quantity of touch-up paint of various colors of paint used.	Bidder to confirm.
10.6	Schedule of Erection and Commissioning shall be submitted with the offer.	Bidder to confirm.
10.7	Charges, duration, terms & conditions for E&C should be furnished in detail separately by vendor along with offer.	Bidder to confirm.
10.8	Bidder to submit all relevant catalogue, General Arrangement drawing and Electrical Circuit Drawing alongwith the offer.	Bidder to confirm.
10.9	O&M Manuals: 3 Copies of Operation & Maintenance manuals shall be supplied along with the machine.	Bidder to confirm.



Item Annexure for Enquiry no 2790399E/18.06.2019

Sl no	Material Code	Item Description	Quantity (No)	Quoted/ Not Quoted
1	IM8297810000	Supply of Hydraulic Pin Pusher Machine per Technical Specification	1	
2		Charges for Erection & Commissioning of Hydraulic Pin Pusher Machine	1	

Sl no 01 to 02 will be procured as a set. Summation cost of all above sl nos. will be deciding factor for L1 (sl no. 01 to sl no. 02).

Signature and Office Seal of Vendor



Price Bid Format for Enquiry no 2790399E/18.06.2019

Sl no	Material Code	Item Description	Quantity (No)	<u>Unit Price in INR</u>
1	IM8297810000	Supply of Hydraulic Pin Pusher Machine per Technical Specification	1	
2		Charges for Erection & Commissioning of Hydraulic Pin Pusher Machine	1	
3	GST on sl no. 01 (Supply) in percentage			
4	GST on sl no. 02 (Commissioning) in percentage			

Sl no 01 to 02 will be procured as a set. Summation cost of all above sl nos. will be deciding factor for L1 (sl no. 01 to sl no. 02).

Signature and Office Seal of Vendor