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	BHARAT HEAVY ELECTRICAL LIMITED	Enquiry No.:
UNIT'S ADDRESS:		Due Date:
UNIT'S PHONE NO.:		Supplier Qtn. No.:
CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEPT.)		Specification Rev. No.: 0
		Rev. Date:

TECHNICAL SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR BAND SAW MACHINE

NOTE

1. Vendor must submit complete information against clause no 20 (Qualification Condition) of the offer. The offer meeting this clause would only be considered.
2. The vendor should fill the "offered" Column in compliance to specified requirements and also "Deviation" Column, where there is deviation from the requirements. Duly filled specification cum compliance certificate should be submitted along with the offer. Inadequate, Incomplete, Ambiguous or unsustainable information against any of the clause of the specification/requirements shall be treated as non-compliance.
3. The offer and all documents enclosed with the offer should be in english language only.
4. All dimensions are in mm unless otherwise specified.

ADDRESS OF THE SUPPLIER :	ADDRESS OF THE INDIAN AGENT(S) :
TELEPHONE NOS.:	TELEPHONE NOS.:
FAX NOS.:	FAX NOS.:
E-MAIL ADDRESS :	E-MAIL ADDRESS :
SCOPE: SUPPLY, ERECTION & COMMISSIONING OF BAND SAW AS BELOW : No of Machines : 1 No	

SL. NO.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
1.0	Purpose: The Band Saw Machine (Quantity: One No.) is to be used for cutting of Pipes & Rounds. The materials proposed to be cut off on this machine are mainly Carbon steel , Alloy steel and stainless steels.				Vendor to comply



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2.0	Broad Design Features: The machine should be semi automatic , with mitre cutting facility, high natural stability and non vibrating drive for optimal cutting capacity.	Vendor to offer		
3.0	Technical Specification: Capacity : Pipes (Up to dia 460 X thickness 25 mm) & Rounds (Up to 250mm)	Vendor to confirm		
3.1	Capacity of Mitre Cutting (motorized): - Dia 460mm at 90 deg. - Dia 420mm at 60 deg. - Dia 330mm at 45 deg. - Dia 220mm at 30 deg.	Vendor to confirm		
3.2	Cutting Speed : 25-80 m/min	Vendor to confirm		
3.3	Drive Motor	Vendor to specify		
3.4	Capacity of Coolant Motor	Vendor to specify		
3.5	Capacity of Hydraulic Motor	Vendor to specify		
3.6	Blade of Band Saw Dimension	Vendor to specify		
4.0	TECHNICAL FEATURES :			
4.1	Semi automatic type with quick-setting hydraulic clamping vice and rapid reverse (with auto height stop on return stroke) of cutting arm for accurate cutting.	Vendor to confirm		
4.2	Hydraulic blade tensioning system and guides to keep the blade aligned and under constant load at all times during cutting and tension release as soon as machine is off.	Vendor to confirm		
4.3	Hydraulically controlled cutting feed for maintaining a constant cutting rate regardless of the work piece cross section.	Vendor to confirm		
4.4	Power driven brush continually flushed by cutting fluid spout to keep the blade and saw guides free of chips for smooth cutting.	Vendor to confirm		
4.5	Provision of quick approach & normal feed rate selector to cause the blade to quickly descend into position	Vendor to confirm		
4.6	Provision of carbide and roller blade guides	Vendor to confirm		
4.7	Provision of automatic head elevation control for saw frame to save idle time	Vendor to confirm		
4.8	Provision of pressure compensation feed-rate control	Vendor to confirm		
4.9	Provision of motorised mitre cutting saw head	Vendor to confirm		
4.10	Provision of well guarded blades and wheel covers	Vendor to confirm		

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4.11	There should be provision of saw blade shutting off automatically after completion of cutting/ in case of blade breakage	Vendor to confirm
4.12	Thermal overload switches to be provided for safety	Vendor to confirm
4.13	Low voltage & zero voltage controls to be provided for safety	Vendor to confirm
4.14	Coolant system with electric pump, coolant flow regulator, coolant level glass and overflow indication. Capacity of coolant tank to be mentioned.	Vendor to confirm/ specify
4.15	Provision of feed table for incoming material of 6 meter long pipes/ rounds.	Vendor to confirm
4.16	Machine lighting equipment. Vendor to provide 5/15 Amp, 250 Volt socket near the panel for carrying out maintenance.	Vendor to confirm
4.17	Centralised control panel with all necessary switch gears, fuses, indicators and push buttons	Vendor to confirm
4.18	Fully heavy duty welded structure torsion free construction	Vendor to confirm
4.19	Colour of the machine shall be apple green. RAL 6011	Vendor to confirm
5.0	SPARES: Vendor to quote following spares with part/ identification number mentioning price of each spare separately.	Vendor to comply
5.1	Each type of Bearing- 2 nos	Vendor to offer
5.2	Each type of Belt- 2 nos	Vendor to offer
5.3	Each type of solenoid valve- 1 no	Vendor to offer
5.4	Each type of pressure regulator- 1 no	Vendor to offer
5.5	Each type of worm gear- 1 no	Vendor to offer
5.6	Each type of worm shaft- 1 no	Vendor to offer
5.7	Hydraulic motor with pump- 1 no	Vendor to offer
5.8	Coolant motor with pump- 1 no	Vendor to offer
5.9	Universal joint for wire brush- 5 nos	Vendor to offer
5.10	Blades- 15 nos	Vendor to offer
6.0	TOOLS FOR ERECTION, OPERATION & MAINTENANCE	Vendor to comply







6.1	Tools and Equipment required for erection of the machine shall be brought by the vendor. Necessary tools like Torque Wrench, Spanners, Keys, grease guns etc. required for operation and maintenance of the machine should also be supplied by the vendor.	Vendor to confirm		
7.0	Documentation: 3 sets of all operation, and maintenance manuals containing all assembly/ sub assembly drawings, circuit diagrams of the machine hydraulic, pneumatic, coolant system, lubrication system and electrical system shall be supplied. The party should also supply the hard copy of PLC program/ ladder logic diagram (if applicable).	Vendor to confirm		
7.1	The manuals should also contain complete spare part list along with specification, identification number/ part number and address of manufacturers.	Vendor to confirm		
7.2	One additional set of all the above documentations on CD-rom, wherever possible.	Vendor to confirm		
8.0	Training & Pre -dispatch Inspection : Training of BHEL personnel for mutually agreed period in the field of operation, mechanical/ hydraulic maintenance and electrical/ electronic maintenance shall be offered. Also BHEL trainees will do pre-dispatch inspection by witnessing accuracies, verification of all machine functions and cutting of max. size job for which material is to be arranged by Vendor. Dispatch clearance will be given after full satisfaction by B.H.E.L.	Vendor to confirm		
9.0	Accuracy tests: All accuracy tests to be conducted at supplier's as well as customer's work shall be indicated in the offer with complete details like type of tests to be carried out, acceptance norms etc. All accuracy tests to be indicated.	Vendor to specify		
10.0	FOUNDATION			
	Foundation Design: In case any special foundation is required for installing the machine, detailed foundation drawings to be offered. The vendor should agree to supply 3 copies of machine layout and foundation drawings within one month of Placement of LOI / Order.	Vendor to confirm and submit necessary details.		
11.0	LEVELING & ANCHORING SYSTEM	Vendor to comply		
11.1	Complete set of anchoring materials including foundation bolts, nuts, washers, fixators, leveling shoes etc for alignment and fixing of the machine on the floor should be supplied.	Vendor to confirm		
12.0	ERECTION & COMMISSIONING	Vendor to comply		

Handwritten signatures and initials in blue ink, including 'BHEL' and 'BHEL'.