

BHARAT HEAVY ELECTRICAL LIMITED, JHANSI

	Specification No.	MT-6245
	Item No.	MT-1/5/1565
	Location	Bay-7
	Quantity	1 No.

Scope:

Design, supply, installation & commissioning of Motorised Shearing/Guillotine Machine with accessories complying with the specifications mentioned below.

Note:

1. Vendor must submit complete information against clause No.16 (Qualifying requirement) and the offers meeting this clause would only be processed.

2. The "offered" column and the "deviations" column (if applicable) of this format shall be filled in by the vendor and submitted along with the offer. Technical details also need to be submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specification / requirements shall be treated as non - compliance.

3. The offer and all the documents enclosed with the offer shall be in English only.

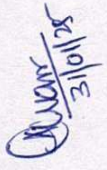
SPECIFICATION OF MOTORISED SHEARING/GUILLOTINE MACHINE

S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	BIDDER OFFER	DEVIATION
1	PURPOSE & WORK PIECE MATERIAL Foot paddle operated Motorised Guillotine Machine with cutting blade is required for the cutting of Pressboard material, Delmet sheet, Silicon rubber, Fibre sheet and N.U. cork sheet of thickness up to 3 mm maximum.	Vendor to Note		
2	SPECIFICATION PARAMETER			
2.1	Thickness of the sheet (Pressboard material, Delmet sheet, Silicon rubber, Fibre sheet and N.U. cork sheet) to be cut-3 mm (Maximum)	Vendor to Note & Confirm		
2.2	Material to be cut - Pressboard material, Delmet sheet, Silicon rubber, Fibre sheet and N.U. cork sheet. These sheets are used as insulation for transformer.	Vendor to Confirm		
2.3	Sheet Size : 2100 mm x 3200 mm (Minimum)	Vendor to Specify		
2.4	Shearing Length: 3200 mm (Minimum)	Vendor to Specify		
2.5	Motor rating : 7.5 HP (Minimum)	Vendor to Specify		
2.6	Motor Make : SIEMENS/ABB/CROMPTON/BHARAT BIJLEE/Reputed make acceptable to BHEL	Vendor to Specify		
2.7	Cutting Stroke: 40 Nos. per minute (Minimum)	Vendor to Specify		
2.8	Table Size : 4000 mm (L) x 3500 mm (W) x 850 mm (H) Minimum	Vendor to Specify		
2.9	Front Gauge: 600 (Minimum)	Vendor to Specify		
2.10	Rear Gauge: 750 mm (Minimum)	Vendor to Specify		
2.11	Blade Cutting Edge Material: High carbon high chromium (No. of edges - 4)	Vendor to Confirm		

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S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	BIDDER OFFER	DEVIATION
2.12	Rack System type (Back Gauge): Motorised	Vendor to Confirm		
2.13	Blade Make:	Vendor to Specify		
2.14	Fixed rake angle with the facility of ease of replacement of blade	Vendor to Confirm		
2.15	Blade Drawing to be submitted along with documentation after placement of order.	Vendor to Confirm		
2.16	Machine type: Under Crank/Over Crank	Vendor to Specify		
2.17	Hold Down: No. and Type (If Any)	Vendor to Specify		
2.18	Operation: Auto/manual	Vendor to Specify		
3	ELECTRICAL :			
3.1	3 Phase AC (3Wire system without neutral) power supply source will be provided by BHEL at a single point near the machine. All types of cable connections, circuit breakers etc. required for connecting BHELs power supply point to different parts of the machine/control cabinets shall be the responsibility of the 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.	Vendor to Confirm		
3.2	All electrical control cabinets & panels should be dust and vermin proof	Vendor to confirm		
3.3	All electrical components in the cabinets should be mounted on DIN Rail	Vendor to confirm		
3.4	All electrical panels including operator's panel should be provided with power receptacles of 220Volts, 5/15 Amp AC.	Vendor to confirm		
3.5	Motors shall conform to IEC or Indian Standards	Vendor to confirm		
3.6	All cables and cable trays required for the machine should be included in the offer and shall be supplied along with machine.	Vendor to confirm		
3.7	Vendor should ensure the proper earthing of the machine and its peripherals.	Vendor to confirm		
3.8	The electrical components used shall be of reputed makes such as Siemens / L&T / Merlin Gerin / GE/ ABB and also shall be in accordance with DIN/IEC Standards.	Vendor to confirm		
4	SAFETY/PROTECTION			
4.1	The equipment shall be fully safe in operation with all safety measures. Necessary guards and protection covers are to be provided to protect the equipment	Vendor to Confirm		
4.2	Over current, over voltage and any other for the protection of system/equipment are to be included as well as suitable interlock for the safe operation	Vendor to Confirm		
4.3	Suitable finger guard protection to be provided.	Vendor to Confirm		
5	ENVIRONMENTAL PERFORMANCE OF THE MACHINE :			
5.1	Maximum noise level shall be 85 dB(A) at normal load condition, 1 meter away from the machine with correction factor for background noise, if necessary.	Vendor to confirm		




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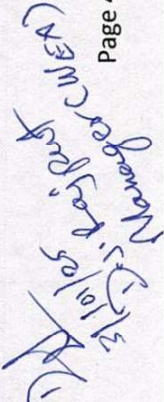
S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	BIDDER OFFER	DEVIATION
5.2	If any safety / environmental protection enclosure is required it should be built in the machine by the vendor.	Vendor to Specify		
6	TOOLS FOR ERECTION, OPERATION & MAINTENANCE :			
6.1	Special tools and equipment required for erection of the machine shall be brought by the vendor. Necessary tools like Torque Wrench, Spanners, Keys, grease guns etc. for operation and maintenance of the machine should be supplied along with machine. List of such tools should be submitted along with offer.	Vendor to confirm & submit		
7	SPARES:			
7.1	List of mechanical and electrical spares as per recommendation of vendor required for 2 years of trouble free operation on three shifts continuous running basis should be submitted along with offer.	Vendor to Submit		
8	Documentation:	Vendor to Confirm		
8.1	Operation and Maintenance manual, Electrical control circuit and spare parts manual including detailed drawing of all assemblies and sub assemblies shall be supplied in one hard copy and one soft copy along with machine.	Vendor to Confirm		
9	TRAINING			
9.1	Training to the operator, maintenance staff of BHEL to be given at the time of commissioning of the equipment	Vendor to Confirm		
10	FOUNDATION :			
10.1	All civil work if required will be in the scope of BHEL JHANSI, However civil / Foundation drawing for E&C shall be provided by vendor within one month after placement of purchase order	Vendor to confirm		
10.2	Complete anchoring system if required including foundation bolts, anchoring materials, leveling shoes etc should be supplied by vendor.	Vendor to confirm		
11	ERECTION & COMMISSIONING			
11.1	Supplier to take full responsibility for carrying out the erection, commissioning and prove-out of machine along with all other supplied equipment. Service requirement like power, air & water shall be provided by BHEL.	Vendor to confirm		
11.2	Successful proving of machine by the supplier shall be considered as part of commissioning. All tests mentioned in clause no. 12.2 (Machine Acceptance) shall form part of the commissioning activity.	Vendor to confirm		
11.3	All the Tools, Tackles, instruments and any other equipment required to carry out all above activities should be brought by the supplier.	Vendor to confirm		
12	MACHINE ACCEPTANCE: (Tests/Activities should be Performed by Vendor)			
12.1	Tests/Activities should be carried out at supplier's works on the machine before dispatch :			
12.1.1	Demonstration of all features of the machine, control system & accessories.	Vendor to confirm		
12.2	Tests/Activities should be carried out at BHEL works while commissioning the machine :			
12.2.1	Detailed demonstration of all features of the machine, control system & its accessories to the satisfaction of BHEL for efficient and effective use of the machine shall be done by vendor to the BHEL personnel during commissioning.	Vendor to confirm		


 23/10/25
 23/10/25

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S.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	BIDDER OFFER	DEVIATION
12.2.2	Supplier to impart training to BHEL operators and maintenance personnel related to operation & maintenance of complete machine & its accessories by their experts / engineers during their stay at BHEL works.	Vendor to confirm		
12.2.3	Vendor to demonstrate proper usage of all the supplied accessories and attachments to their full potential for actual jobs.	Vendor to confirm		
13	PACKING			
13.1	Standard & rigid packing is required for all items of complete system, accessories and other supplied items to avoid any damage during transit.	Vendor to confirm		
14	GUARANTEE			
14.1	Guarantee in respect of material construction, operation and against any manufacturing defect for a period of 24 months from the date of commissioning. Any parts of units found defective have to be replaced free of cost.	Vendor to Confirm		
15	GENERAL :			
15.1	Machine Model:	Vendor to Specify		
15.2	Total connected load (KVA):	Vendor to Specify		
15.3	Floor area required (Length, Width and Height) for complete machine & accessories	Vendor to Specify		
15.4	Painting of Machine and Electrical Panels with RAL 6011 Apple Green (Polyurethane Paint) is required.	Vendor to confirm		
15.5	Vendor to submit reference list of customers where similar machines have been supplied by mentioning machine model / capacity etc. along with offer.	Vendor to submit		
15.6	Detailed catalogues with sketch/photographs of the machine and accessories / attachments should be submitted along with the offer.	Vendor to Submit		
15.7	Duration for E&C after call of commissioning from BHEL - 1 Months Max.	Vendor to confirm		
15.8	Delivery period: 3 months Max. from the date of PO	Vendor to confirm		
16	QUALIFYING REQUIREMENT (QR)			
16.1	Only OEM, who have supplied at least one number Motorised Shearing/Guillotine Machine machine in the past 7 years from the date of issuing of tender. The following information is to be submitted by bidder for qualification of their offer (BHEL may verify the supply and satisfactory performance / submitted credentials).	Vendor to Confirm		
16.2	Purchase order copy (Unpriced) along with proof of supply (Tax Invoice / GEM CRAC etc.) and commissioning certificate / commissioning MOM/ performance certificate from customer of at least one number Motorised Shearing/Guillotine Machine in line with clause no. 16.1.	Vendor to submit		
17	NOTE: 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		

 31/01/25
 Arvind Kumar
 Sr Manager / TRM

 31/01/25
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