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12.1	Supplier will be fully responsible for carrying out the erection, start up, testing of the system, it's control & all types of other supplied equipment/accessories 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 (capacity of EOT Crane in the shop is 20 Ton) and helping personnel shall also be provided by BHEL. In case crane of higher capacity is required, representative of vendor to hire mobile crane from local	Vendor to confirm		
12.2	Broad Schedule of Erection and Commissioning shall be submitted.	Vendor to confirm		
12.3	Portion, if any, of the machine, accessories and other supplied items where paint got rubbed or peeled off during transit or erection should be repainted and matched with the original adjoining paint by the vendor before final acceptance.	Vendor to confirm		
13.0	Final acceptance: Final acceptance shall be after commissioning of the Band Saw Machine at BHEL by the vendor to the full satisfaction of BHEL as per specification.	Vendor to confirm		
14.0	OPERATING CONDITION:	Vendor to comply		
14.1	Supply condition: All machine electrical, controls and paint shall be suitably tropicalized. The machine should work trouble free in the following conditions: Power Supply : 3 Phase AC 415V (+10/ 15%) 50Hz +/-3%, 3 wire system Compressed Air: 5 Kg/Cm ²	Vendor to note		
14.2	Power Supply Voltage will be provided by BHEL at a single point near the machine, as per layout recommended by Vendor. Power input cable (Length-10 meter) , connections, circuit breakers etc. required for connecting BHEL's power supply point to different parts of the machine/control cabinets, shall be the responsibility of vendor. Vendor should ensure the proper earthing for the equipment and its peripherals/accessories. Any material requirement for the same should be informed with foundation design/drawings so that same could be incorporated during construction of foundation. The vendor can take earthing connection from the nearest available location of the production shop.	Vendor to confirm		
15.0	TROPICALISATION	Vendor to comply		
15.1	All electrical / electronic equipment shall be tropicalized.	Vendor to confirm		
15.2	All electrical & electronic control cabinets & panels should be dust and vermin proof.	Vendor to confirm		
15.3	All electrical components in the cabinets should be mounted on DIN Rail.	Vendor to confirm		

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15.4	All motors shall conform to IEC or Indian Standards		Vendor to confirm	
16.0	SAFETY ARRANGEMENTS		Vendor to comply	
16.1	Following safety features in addition to other standard safety features should be provided on the machine:		Vendor to confirm	
16.2	All the rotating parts used on machine should be statically & dynamically balanced to avoid undue vibrations & noise.		Vendor to confirm	
16.3	Emergency Switches at suitable locations should be provided.		Vendor to confirm	
16.4	Automatic over load protection		Vendor to confirm	
16.5	Adequate protection for all moving and rotating parts to be ensured		Vendor to confirm	
17.0	ENVIRONMENTAL PERFORMANCE OF THE MACHINE		Vendor to comply	
17.1	The Machine should conform to following factors related to environment :		Vendor to confirm	
17.2	Maximum noise level shall be 85 dB (A) at 1 meter away from the machine with correction factor for back ground noise, if necessary. This will be measured as		Vendor to confirm	
17.3	There shall not be any emissions from the machine. All fumes etc. during machining shall be arrested by Fume extraction system.		Vendor to confirm	
17.4	There should not be any effluent from the machine. In case there are any effluents from the machine, requisite effluent treatment plant or pollution control device should be built into the machine by the supplier.		Vendor to confirm	
17.5	No hazardous chemicals shall be required to be used in the machine.		Vendor to confirm	
17.6	If any safety / environmental protection enclosure is required it should be built in the machine by the vendor.		Vendor to confirm	
17.7	Paint of the machine should be oil / coolant resistant and should not get peeled off and mixed up with coolant.		Vendor to confirm	
18.0	PACKING : Rigid packing be made for all items of complete machine, all accessories and other supplied items to avoid any damage/loss in transit. When machine is despatched in containers, all small-loose items shall be suitably packed in boxes.		Vendor to confirm	
19.0	GUARANTEE : Vendor shall provide full and complete guarantee for one year trouble free performance from date of successful commissioning/ final acceptance.		Vendor to confirm	
20.0	QUALIFYING CRITERIA :			

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20.1	Only those vendors should quote who have supplied and commissioned at least one no. Band Saw with mitre cutting facility of same or higher sizes with respect to capacity indicated at clause no. 3.0 of specification in the last ten years and such machine(s) is (are) presently working satisfactory. for more than one year after commissioning. However, if such machine(s) has/had been supplied to BHEL, then such machine should be presently working satisfactory for more than six month after its commissioning and acceptance in BHEL. The following information should be submitted by the vendor about the companies where similar machine have been supplied. This is required from all the vendor for qualification of their offer.	Vendor to accept & submit details. In case the mentioned details are not furnished, the offer will not be considered.
20.2	Name of the customer/Company where such machine(s) is(are) installed.	Vendor to submit
20.3	Complete postal address of the customer.	Vendor to submit
20.4	Year of commissioning.	Vendor to submit
20.5	Application for which the machine is supplied	Vendor to submit
20.6	Name and designation of the contact person of the customer.	Vendor to submit
20.7	Phone ,FAX No. and email address of the contact person of the customer.	Vendor to submit
20.8	Performance Certificate from the customer regarding satisfactory performance of the machine supplied to them	Vendor to submit

(Signature)
 (Date)
 (Address)
 (Phone No.)

CIVILIA ARYA
 Sr. Engr, Bay 3/Block-2

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