

		<u>BHARAT HEAVY ELECTRICAL LIMITED</u>				Enquiry No. :
		<u>UNIT'S ADDRESS:</u>				Due Date :
		<u>CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEPTT.)</u>				Supplier Qtn. No.:
						Date :
<u>SPECIFICATION OF TRACTOR FOR FOUNDRY DIVISION</u>						
		NOTE:-				
		1. 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.				
NAME & ADDRESS OF THE SUPPLIER :		NAME & ADDRESS OF THE INDIAN AGENT :				
TELEPHONE NOS.:		TELEPHONE NOS.:				
FAX NOS.:		FAX NOS.:				
E-MAIL ADDRESS :		E-MAIL ADDRESS :				
SNO	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS	
1.0 PURPOSE & WORKPIECE MATERIAL						
1.1	Transportation of Sand from sand storing shed to Drier	Vendor to Confirm				
1.2	Transportation of Sand from Drier to sand storing shed	Vendor to Confirm				
1.3	Transportation of material from Foundry to Sarap Yard	Vendor to Confirm				
1.4	Transportation of casting from Foundry to all product departments	Vendor to Confirm				
1.5	Transportation of Rough machined castings from Product deptt. to Foundry	Vendor to Confirm				

2.0 SPECIFICATION:-				
2.1 ENGINE DETAILS				
2.1.1 HP 45				
2.1.2 Cooling Technique - Air Cooled				
2.1.3 Engine Capacity - 2945 C.C				
2.1.4 No. of Cylinders - 3				
2.2.1 Maximum Torque - 16.90 Kg. m				
2.2.2 Engine rated speed R.P.M. - 2150				
2.2 Clutch Type				
2.2.1 Dry type Single / Double (Optional)				
2.3 Gear Box				
2.3.1 Speed - 8 Forward, 2 - Reverse				
2.4 FEATURES				
2.3.2 Lift capacity - 1200 Kg.				
2.3.3 Diesel Tank capacity - 48 Litre				
2.3.4 Total Weight - 2045 Kg				
2.5 TYRE				
2.5.1 Front : 6.00 x 16, Back : 13.6 x 28 and (14.9 x 28) optional				
3.0 SPARES:				
3.1 Itemise breakup of mechanical, hydraulic,pneumatic, electrical and electronic spares used on the machine in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on three shifts continuous running basis should be offered by vendor. The list to include following, in addition to other recommended spares: (Unit Price of each item of spare should be offered) Indentor to identify spares to be procured along with the machine	vendor to confirm			
a) Mechanical ,Pneumatic & Hydraulic Spares	vendor to specify			
b) Electrical /Electronic	vendor to confirm			

3.0	TOOLS FOR ERECTION, OPERATION & MAINTENANCE :					
3.10		vendor to confirm				
4.0	ACCESSORIES :					
4.1						
5.0	SPARES :					
5.1	Itemise breakup of mechanical, hydraulic, pneumatic, electrical and electronic spares used on the machine in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on three shifts continuous running basis should be offered by vendor. The list to include following in addition to other recommended spares : (Unit Price of each item of spare should be offered) Indentor to identify spares to be procured along with the machine.	vendor to confirm				
	a) Mechanical, Pneumatic & Hydraulic Spares : All type of Pumps, All types of Valves, All types of pressure switches / transducer, All types of seals.	vendor to confirm				
	b) Electrical / Electronic : All type of Relays, Contactors, Proximity Switches, Push Buttons, Indicating Lamps., Min Power Switch, Power Module & Control Cards for Main Drive as well as Feed Drives etc.	vendor to confirm				
5.2	All types of spares for total machine and accessories should be available for atleast ten years after supply of the machine. If machine or control is likely to become obsolete in this period, the vendor should inform BHEL sufficiently in advance and provide drawings of parts / details of spares & suppliers to enable BHEL to procure these in advance, if required	vendor to confirm				
5.3	Recommended set of spares for all attachments are to be offered with details.	vendor to confirm				
5.4	Vendor to confirm that complete list of spares for machine and accessories, along with specification / type / model, and name & address of the spare supplier shall be furnished along with documentation to be supplied with the machine	vendor to confirm				

6.0	DOCUMENTATION : Five sets of following documents (Hard copies) in English language should be supplied along with the machine	vendor to confirm			
6.1	Operating manuals of Machine & accessories system				
6.2	Detailed Maintenance manual of machine with all drawings of machine assemblies/sub-assemblies/parts including Electrical / Pneumatic/ Hydraulic circuit diagrams. All Assembly/ Sub Assembly Drawings shall be supplied with the part list also				
6.3	Catalogues, O&M Manuals of all bought out items including drawings, wherever applicable.				
6.4	Detailed specification of all rubber items and hydraulic/lube fittings				
7.0	PROVING & TRAINING:				
7.1	The supplier shall demonstrate all features of the equipment and its accessories to the satisfaction of BHEL for the effective use.	vendor to confirm			
7.2	Tranning for BHEL operators for operation, maintenance and safety				

8.0	GUARANTEE :					
8.1	24 months from the date of acceptance of the machine.	vendor to confirm				
9.0	GENERAL : The vendor should submit the following information:					
9.1	Model	vendor to confirm				
9.2	Painting of Equipment	vendor to confirm				
9.3	Dimensions of largest part/ subassembly/ assembly of the machine	vendor to confirm				
9.4	Vendor to submit, along with offer, the reference list of customers where similar machines have been supplied mentioning the customer, Machine Model, major specifications of the supplied machine, Year of Supply etc	vendor to confirm				
9.5	Detailed catalogues , sketch/ photographs of the m/c and accessories/ attachments should be submitted with the offer.	vendor to confirm				
9.6	Hydraulic & oil pipings should be preferably metallic except places where flexible pipings are essential.All the pipes required for the same shall be included in the standard scope of the machine.	vendor to confirm				