

 BHARAT HEAVY ELECTRICAL LIMITED UNIT'S ADDRESS: HEEP, RANIPUR HARIDWAR - 249403 UTTARANCHAL, INDIA		Indent No.: Enquiry No.: Due Date:	Dated:		
CONTACT PERSON FROM PURCHASE DEPTT.: NAME: MR. K.ROY DESIGNATION: Manager (PPX-CAP) PHONE NO.: 0091 - 1334 - 285291 E-MAIL: kroy@bhelhwr.co.in FAX NO. : 0091 - 1334 - 226462		Supplier Contact. No.: Date:			
SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR DOT PIN MARKER 1 NO.					
NOTE :-					
1. Vendor must submit complete information against clause No. 19.00 (Qualifying Criteria) of the offer. Only the offers complying this clause, would be considered. 2. The vendor should fill the Offered Column in compliance to specified requirements and also Deviations Column, where there is deviation from the requirement. In case any clause is not applicable to the vendors machine, it should be mentioned clearly next to said clause along with explanation for the same. Duly filled specification cum compliance certificate should be 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. Any changes made to the clauses of the specification cum compliance certificate may be considered as grounds for non compliance and rejection of offer. Under no circumstances should any changes be made in the clauses of the specification cum compliance certificate. 3. The offer and all documents enclosed with offer should be in English language only.					
ADDRESS OF THE SUPPLIER : TELEPHONE NOS.: FAX NOS.: E-MAIL ADDRESS :		ADDRESS OF THE INDIAN AGENT(S) : TELEPHONE NOS.: FAX NOS.: E-MAIL ADDRESS :			
SCOPE: SUPPLY, ERECTION AND COMMISSIONING OF DOT PIN MARKER 1 NO.					
S. No.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
1.00	Marking System to mark identification marks on high temperature and creep resistant alloy steel hot rolled in material grade X22CrMoV12.1, X20Cr13, X19CrMoVNbN111, X12CrMoVVNbN10-1-1, X5CrNiCuNb16-4 and X10CrNiMoV12-2-2 having tensile strength up to 1050 N/MM2 and hardness up to 335 BHN.	Vendor to Confirm			
2.00	The characteristics of the identification mark should be easily set by software. The software should have the following features :- *setting of height and width of the character *setting of marking position in the window *setting of the font *setting for linear and arc text *setting for marking line, arc and circle *importing DXF and BMP files for marking *flag commands to mark date, time, etc in various formats *ability to set density of dots in case of dot marking cartridge *selection of marking modes - speed, normal or high quality *graphic visualization *simulation of character and job marking *programmable maintenance *statistics(standby and marking) *graphical representation to check available memory *ability to store programs, marking designs, etc for future use in memory(memory should be 32mb or more). *display of alarm and alarm signal history. *should be capable of being connected to a PC for transfer of marking programs/designs via USB or Ethernet.	Vendor to Confirm			
3.00	The machine should be capable of making indentation of depth in the range 0.1mm to 0.35mm. It should be possible to set the depth of the indentation required in the machine.	Vendor to Confirm			
4.00	There should be two axes, X and Y, each powered by a stepper motor in the marking head, to determine the movement of the pin and the precision of the point in the marking window.	Vendor to Confirm and provide details of the stepper motors.			
5.00	The entire system dimensions should not exceed 1m x 1m x 1m.	Vendor to Confirm			
6.00	The entire system should consist of: 1. Vertical Marking Head with cartridge and pin 2. Controller with cable 3. Filter/regulator 4. Power supply 5. Tool Stand & Base Assembly	Vendor to Confirm			
7.00	The marking head should have a marking area of 40mm x 60mm or more.	Vendor to Confirm			
8.00	The controller should have a graphical interface 7 inch or more, preferably touch screen. The controller/ PLC should be AC500 or equivalent.	Vendor to Confirm and supply details of controller.			
9.00	The system should have Ethernet and USB interface to transfer designs made on PC to controller for marking.	Vendor to Confirm			

S. No.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
10.00	2 different types of cartridge and pin sets should be provided- *dot marking cartridge and pin where the density of dots can be set from the software. *vibrating marking cartridge where the marking will be continuous. Both types of pins should have dia. 3mm and should be of suitable length.				
11.00	Sufficient sets of cartridge and pin should be supplied along with the machine for trouble-free operation of the machine for 2 years.	Vendor to Confirm			
12.00	PROVEOUT AND ACCEPTANCE				
12.01	After successful installation and commissioning at BHEL, Hardwar supplier shall carry out field testing to prove the system at BHEL works..The prove out component will be mutually agreed during technical discussion. Vendor will provide training to BHEL personnel during prove out. Final acceptance shall be made by BHEL at BHEL, Hardwar after successful completion of installation, commissioning and testing.	Vendor to Confirm			
13.00	OPERATING CONDITION:				
13.01	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 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 if required.	Vendor to accept & confirm.			
14.00	OTHER TECHNICAL DETAILS:				
14.01	Following technical details/ features are to be quoted/ submitted with the technical offer:	Vendor to confirm.			
14.02	Basic Machine operation and maintenance/ service manual - 3 copies	Vendor to confirm and submit necessary details.			
14.03	The construction details of all machine assemblies/sub-assemblies and all major machine elements/accessories.	Vendor to confirm and submit necessary details.			
14.04	The total connected load of the machine and peripherals.	Vendor to confirm and submit necessary details.			
14.05	Service requirement of compressed air, water etc. indicating supply condition.	Vendor to confirm and submit necessary details.			
14.06	Details of vibration damping arrangement if applicable.	Vendor to confirm and submit necessary details.			
14.07	Detailed catalogues, sketch/ photograph of the machine accessories/ attachments.	Vendor to confirm and submit necessary details.			
15.00	SAFETY ARRANGEMENTS				
15.01	Following safety features in addition to other standard safety features should be provided on the machine:	Vendor to confirm and comply			
15.02	Emergency Switches at suitable locations should be provided.	Vendor to confirm and comply			
15.03	Adequate protection for all moving and rotating parts to be ensured	Vendor to confirm and comply			
16.00	ENVIRONMENTAL PERFORMANCE OF THE MACHINE				
16.01	The Machine should conform to following factors related to environment :	Vendor to confirm.			
16.02	Maximum noise level shall be 85 dB (A) at 0.5 meter away from the machine with correction factor for background noise, if necessary. This will be measured as per international standards like DIN 45635-16. Supplier to demonstrate compliance to noise level, if asked for.	Vendor to confirm.			
16.03	If any safety / environmental protection enclosure is required it should be built in the machine by the vendor.	Vendor to confirm.			
17.00	PACKING				
17.01	Rigid packing to 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 offer			
18.00	GUARANTEE				
18.01	Guarantee for complete machine, control system and all supplied accessories/equipments for 24 months from the date of final acceptance of the machine as per Clause 12.01. Any spare required during guarantee period shall have to be arranged by the vendor free of cost and duty levied (if any) have to be borne by the vendor.	Vendor to offer			
19.00	QUALIFYING CRITERIA:				

S. No.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
19.01	Only those vendors(OEMs) should quote who have supplied at least one dot pin marker machine of same or similar specifications in the past ten years (on the date of opening of Tender) and referred machine is presently working satisfactorily for more than one year after commissioning (on the date of opening of Tender). The following information is to be submitted by the vendor about the companies where similar machines have been supplied. This is required from all the vendors for qualification of their offer.	Vendor to accept & confirm			
19.02	1. Name of one customer / company where referred machine is installed.	Vendor to inform			
19.03	2. Complete postal address of the customer mentioned by vendor in clause 19.02	Vendor to inform			
19.04	3. Name, designation, Phone, FAX no. and email address of the contact person of the customer mentioned by vendor in clause 19.02	Vendor to inform			
19.05	4.BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected	Vendor to accept & confirm			

8/5/13

Saksham Saxena
E1, TBM

Kumar
01/05/13

Sanjiv Kumar
Dy. Mgr.,PEB - TBM