

**Annexure - C to Tender BAP/CAP/2013-14/OT-16**

<b><u>SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR PORTABLE HAND HELD PIN MARKING MACHINE</u></b>				
<b>NOTE: 1. The 'Offered' column and where applicable, the 'Deviations &amp; 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. 2. The offer and all documents enclosed with offer should be in English language only.</b>				
<b>SCOPE: SUPPLY &amp; COMMISSIONING OF PORTABLE HAND HELD PIN MARKING MACHINE COMPLYING WITH SPECIFICATIONS AS BELOW</b>				
<b>DESCRIPTION FOR BHEL REQUIREMENT</b>	<b>SPECIFIED</b>	<b>OFFERED BY VENDOR</b>	<b>DEVIATIONS</b>	<b>REMARKS</b>
1.0 Portable hand held pin marking unit with necessary controls and cables for marking letters and numbers and special characters on ferrous and non ferrous materials	Vendor to confirm			
2.0 The marking shall be done by means of successive indentations by the marking pin, on the material to be marked.	Vendor to confirm			
3.0 The marking unit shall be hand held and fully programmable type	Vendor to confirm			
4.0 Variable force control shall be provided for marking pin to ensure optimum mark depth for all materials	Vendor to confirm			
5.0 The marking system shall be provided with high functionality software with operator friendly menu for easy marking programming	Vendor to confirm			
6.0 The system controller shall have memory to store different marking programs.	Vendor to specify storage capacity			
7.0 Marking window size	Min 30MM (WIDTH) X80MM (LENGTH)			
8.0 Marking Depth	Material			
9.0 Max Job Hardness is 50HRC	vendor to note			
10.0 Text height	Min 5MM TO Max 15MM or more			
11.0 Marking Speed	Min 1Character per 2sec			
12.0 Text Font types	Vendor to specify			
13.0 Operation Type(pneumatic/electrical)	Vendor to specify			
14.0 Working pressure should be 4 to 6 bar	Vendor to confirm			
15.0 Weight of unit	Should be less than 4Kg			
16.0 Life of Marking Pin should be specified by the manufacturer in terms of no of character under the following conditions ,depth of marking – 0.35mm hardness of material – 45 hrc, font size- 8mm	Vendor to specify			
17.0 We need minimum of 12 m lengths of cables and hose required for connecting electrical supply and air supply to pin marking machine	Vendor to note and confirm			
<b>18.0 Accessories: Magnetic Clamp</b>				
18.1 Magnetic clamp should be attached to the machine and should apply necessary force while marking on the job. Operator should not apply any force by hand while marking.	Vendor to specify			
18.2 Magnetic clamp type: electro magnet	Vendor to confirm			
18.3 Magnetic clamp weight: keep as much as low possible	Vendor to specify			
18.4 Magnetic clamp should be detachable type as and when necessary	Vendor to confirm			

<b>19.0</b>	<b>Safety and Environmental Performance</b>				
19.1	Machine should be provided with adequate safety and environmental(noise, pollution etc.)measures	Vendor to specify compliance to any standard			
<b>20.0</b>	<b>Electrical</b>				
	The supplied unit shall be operated at 230V±10%,50Hz±3% single phase AC supplied by BHEL	Vendor to confirm			
<b>21.0</b>	<b>General Points:</b>				
21.1	Machine / Equipment Model No	Vendor to specify			
21.2	Detailed technical offer with catalogue shall be submitted for technical evaluation.	Vendor to submit details			
21.3	Spares :4nos of marking pins shall be quoted separately	Vendor to offer			
21.4	Three sets of O & M manual including part details shall be supplied.	Vendor to confirm			
21.5	Equipment shall be offered for inspection at supplier works before dispatch	Vendor to accept			
21.6	Commissioning and training of the equipment at BHEL works is by the supplier.	Vendor to accept			

Vendors' signature with seal