

**MSME Technology Center**

**Central institute of Hand Tools, Jalandhar**

**Item Description: TECHNICAL SPECIFICATION ADVANCED HIGH SPEED MIG WELDING ROBOTIC MACHINE**

**TENDER ID 2020\_DC\_572255\_1**

<b>CIHT- Existing Specifications</b>		<b>CORRIGENDUM</b>
Sr No	Description	
<b>3</b>	<b>Technical Data</b>	
3.11	Mass (weight) - 145Kg	Mass (weight) - 145Kg /OEM
3.15	Dual Pallet with Rotary fixtures (02 nos) In addition to 02 Rotary fixture with machine, supplier to provide other required fixtures also (upto 05 nos), as per Customer requirement for specific job work.	Dual Pallet with Rotary fixtures (02 nos) a) Horizontal Type Rotary fixture with Hydrullic/Pneumatic Clamping arrangement for Pipe Welding . B) Suitable clamping In addition to 02 Rotary fixture with machine, supplier to provide other required fixtures also (upto 05 nos), as per Customer requirement for specific job work.
3.16	Calibration (All axis) -Eye Mark.	Calibration (All axis) -Eye Mark. With Mastering Tool
3.22	Pipe welding (Dia 20 mm to Dia 100mm) should be option in the robotic machine	Pipe welding (Dia 20 mm to Dia 100mm) should be option in the robotic machine with Suitable clamping arrangement for Pipe Welding
3.27	Power feeder – 0.85 or better at Max current	Power factor – 0.85 or better at Max current
4.4	Power Rating of Controller -1.5 kVA	Power Rating of Controller -1.5 kVA / OEM
4.70	Memory Capacity-160000 instructions (PTP instruction in a single mechanism)	Memory Capacity-160000 instructions (PTP instruction in a single mechanism) / OEM
4.15	Comunication through Welding powersource, wire feeder through LAN Cable	Comunication through Welding powersource, wire feeder through LAN Cable/Ethernet/Field bus communication Protocols
5.1	Dimension 175 mm (B/W) x 326 mm (T/D) x 81 mm (H)	Dimension 175 mm (B/W) x 326 mm (T/D) x 81 mm (H) / OEM
5.2	Type-Should be TABLET type should have scrooll screen	Type-Should be TABLET type should have scrooll screen / OEM
5.5	Display 5,7" / 640 x 480 dots, 65536 colours, LED backlight OR better option	Display 5,7" / 640 x 480 dots, 65536 colours, LED backlight OR better option / OEM
5.11	USB port	USB port /Ethernet
6.3	Rated Current- 350A	Rated Current- 350A or more
6.6	MMA(Stick) welding-20-300A	MMA(Stick) welding-20-300A or more
6.7	Initial Current--20-400A	Initial Current--20-350A or more
6.8	Creater current-- 20-400A	Creater current-- 20-350A or more
6.12	Welding Mode-CO2/MAG/MIG/Pulsed MIG/ High speed Pulse/DC STICK/TIG/MIG Brazing	Welding Mode-CO2/MAG/MIG/Pulsed MIG/ High speed Pulse/DC STICK/MIG Brazing by <b>excluding TIG</b>
6.13	AC Wave form-Standard/Soft/Hard	AC Wave form-Standard/Soft/Hard or equivalent
8.2	Suitable for Feeding wires (Material)- MS/SS	Suitable for Feeding wires (Material)- MS/SS/AL
8.3	Feed Roll Diameters- 4Roll,All geared suitable for 0.8mm/1.0mm/1.2mm/1.6mm wire Diameter.	Feed Roll Diameters- 4Roll,All geared suitable for 0.8mm/1.0mm/1.2mm/1.6mm/2.4 wire Diameter.
14.10	Water cooled robotic welding guns 350 Amps @ 100% duty cycle or more – 02 set . (with shock sensor module)	Water cooled robotic welding guns 350 Amps @ 100% duty cycle or more – 02 set . (with shock sensor module) and compatible with robotic machine
14.11	Gas cooled robotic welding guns 350 Amps @ 60% duty cycle or more – 02 set	Gas cooled robotic welding guns 350 Amps @ 60% duty cycle or more – 02 set and compatible with robotic machine
14.14	Laptop – 20" with window 10, Intel i7 processor, 16 GB RAM, 500 GB SSD, 4GB Graphic card 01 set	Laptop – 15.6" with window 10, Intel i7 processor, 1 TB RAM, 256 GB SSD, 2GB Graphic card with A3 Printer 01 set
14.16	IS Standard compliant MIG Wire rolls (03 rolls each of approx weight 15 Kg- Total 12 rolls) for wire size - 0.8 mm, 1 mm, 1.2 mm, 1.6 mm. The MIG wires should be compatable for welding Fe and alloys, SS and Aluminium	IS Standard compliant MIG Wire rolls (03 rolls each of approx weight 15 Kg- Total 12 rolls) for wire size - 0.8 mm, 1 mm, 1.2 mm, 1.6 mm.for fe and alloys/SS The MIG wires should be compatable for welding Fe and alloys, SS and Aluminium Aluminium wire size - 1 mm, 1.2 mm, 1.6 mm,2.4 mm
17.2	AMC for 5 years (minimum)	To be Removed

**NOTE:- There is NO CHANGE in point other then above Sr.no. in Technical Specification Sheet**