

Malaviya National Institute of Technology Jaipur – 302017
Department of Electronics & Communication Engineering

CORRIGENDUM

Tender Notice No. F5(1369)ST/MNIT/ECE/2019

The following amendments are hereby amendments of above mentioned item.

Amendments in Technical Specifications

Sr. No.	Item / Particular	Specification in original Tender	Revised Specification
01	Rework Station (Soldering Station)	<p>Rework Station (Soldering Station) Accurate and advanced temperature Control with micro controller technology User-friendly operation Set / Read of temperature Increase and Decrease of keys to set temperature once set the read temperature will display after two seconds by default Temperature control accuracy ± 1degree C Last set value of temperature is stored in memory Digital calibration will be done through micro controller to avoid analog components tolerances Password protection feature to stop tampering with set temperature by the operators for (Bulk Customers) Burn proof silicon cable with thermal resistance up to 600 degree C To prevent static electric discharge to the printed circuit board Safety feature the system is provided with safety feature when the unit is switched “OFF” the pump will release maximum air 24L/min Irrespective of the linear position of the air volume control The pump will be on till the element temperature reaches safe temperature of 100 degree C Which will be flashed on the led display. Soldering : Power consumption : 60W</p>	<p>(a) Rework Station (Soldering Station) (01 Nos.) Accurate and advanced temperature Control with micro controller technology User-friendly operation Set / Read of temperature Increase and Decrease of keys to set temperature Temperature control accuracy ± 1degree C Last set value of temperature is stored in memory Digital calibration using micro controller Password protection feature to stop tampering Burn proof silicon cable with thermal resistance up to 600 degree C To prevent static electric discharge to the printed circuit board Safety feature when the unit is switched “OFF” Irrespective of the linear position of the air volume control The pump will be on till the element temperature reaches safe temperature of 100 degree C Which will be flashed on the led display Soldering : Power consumption : 60W Input voltage : 190 to 290 V AC</p>

	<p> Input voltage : 190 to 290 V AC Temperature range : 180 to 270 V (180 to 480 °C) Temperature stability : ±10°C Temperature accuracy : ±1°C of tolerance at idling time Tip to ground potential : under 2 mV Tip to ground resistance : under 2Ω Desoldering: Desold : 70 watts Input : 170 to 270 V (190 to 290 V AC) Temperature range : 180 to 480°C Pump : diaphragm type Vacuum : 600 mm/Hg For SMD Rework Power consumption : 270W Air pump : diaphragm pump Capacity : 24L/min Hot air temperature : 200 to 550°C Temperature accuracy : ±1°C Included Accessories For Rework Stations Soldering And Desoldering 1 No. Unit 1 No. Complete Soldering Handle 1 No. Complete Desoldering Handle 1 No. Stand 1 No. Sponge 2 Nos. Fibre Filters(Primary/Small) (Secondary / Big) 10 Nos. Cleaning Springs 2Nos. Silicon Washers 1 set Glass Tube 1 No. Mains Cord 1 No. SMD Rework One Pick Up Tool 1 No Single Hole 2.5mm, 5.0mm 2 Nos One Square Nozzle 1 No </p>	<p> Temperature range : 180 to 270 V (180 to 480 °C) Temperature stability : ±10°C Temperature accuracy : ±1°C of tolerance at idling time Tip to ground potential : under 2 mV Tip to ground resistance : under 2Ω Desoldering: Desold : 70 watts Input : 170 to 270 V (190 to 290 V AC) Temperature range : 180 to 480°C Pump : diaphragm type Vacuum : 600 mm/Hg For SMD Rework Power consumption : 270W Air pump : diaphragm pump Capacity : 24L/min Hot air temperature : 200 to 550°C Temperature accuracy : ±1°C Included Accessories For Rework Stations Soldering And Desoldering 1 No. Unit 1 No. Complete Soldering Handle 1 No. Complete Desoldering Handle 1 No. Stand 1 No. Sponge 2 Nos. Fibre Filters(Primary/Small) (Secondary / Big) 10 Nos. Cleaning Springs 2Nos. Silicon Washers 1 set Glass Tube 1 No. Mains Cord 1 No. SMD Rework One Pick Up Tool 1 No Single Hole 2.5mm, 5.0mm 2 Nos One Square Nozzle 1 No </p>
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			<p>(b) Soldering Reflow Oven (01 Nos) The heating zone quantity: Upper3/down2 The length of the heating zone: 960 mm The heating type: intelligent level sirocco and rapid infrared heating The cooling zone: quantity 1 Maximum width of PCB board: 300 mm The operation direction: left→right Delivery Options: Net transmission chain transmission The power supply: Three phase 5 line 380 V 50/60 Hz Peak Power: 4.5 kW Heating up time: Around 15 mins Temperature control range: Room temperature 350 Temperature control mode: PID closed-loop control Temperature control accuracy: ±3 PCB temperature distribution deviation: ±2</p> <p>(c) PCB Soldering Inspection Microscope(01 Nos) Magnification : 3x - 43x on 24' monitor and 12x - 132x on 21.5" monitor per 4x Lens Power : DC 5V/2A,Cable Length 180cm Lens Type: C-Mount Lens and 4x Objective Size/Dimension: 68(L) x 66(W) x 169(H) mm and 106 x 152(H)mm</p>
02	PCB Prototype Machine	<p>PCB Prototype Machine Versatile PCB prototyping Auto depth adjustment Position Selection facility Light for work area Micro drilling & milling Pause/Resume option Process Logging</p>	<p>(a) PCB Prototype Machine (01 Nos) Versatile PCB prototyping Auto depth adjustment Position Selection facility Light for work area Micro drilling & milling Pause/Resume option</p>

	<p>Design two layer PCB Emergency Stop and Play PC based Software with interactive GUI PCB Viewer Software support extended Gerber files from all CAD Software Rugged and fully protected Simple and Easy to operate Step by Step execution Chemical free operation USB Interface Energy efficient Working area(X x Y x Z) : 230x200x15mm Minimum drill hole size : 0.3 mm Minimum cutting trace/space : 0.2mm (8mil) X/Y Resolution : 0.006 mm Spindle speed (MAX. RPM) : 25000 rpm Spindle Motor : BLDC Motor Depth sensing and adjustment : Automatic, Software controlled Tool change : Manual Tool holder : 1/8 inch Auto Bit protection : available X/Y/Z driver : Stepping Motor Dimensions (W x H x D) : (432x320x455) mm Weight : 28kg (approximately) Power consumption : 110/220VAC, 50W Sound/Dust Enclosure : Integrated Operating System : Windows XP/7/8/10 (32/64 bit) Nvis 72 PCB Prototype Machine is ideal to plot PCB for applications: High power PCB Analog PCB Digital PCB Included Accessories Software CD -1 No. - Nvis 72 Software - USB Drivers - 40+ circuits and PCB examples (TINA and Eagle)</p>	<p>Process Logging Design two layer PCB Emergency Stop and Play PC based Software with interactive GUI PCB Viewer Software support extended Gerber files from all CAD Software Rugged and fully protected Simple and Easy to operate Step by Step execution Chemical free operation USB Interface Energy efficient Working area(X x Y x Z) : 230x200x15mm Minimum drill hole size : 0.3 mm Minimum cutting trace/space : 0.2mm (8mil) X/Y Resolution : 0.006 mm Spindle speed (MAX. RPM) : 25000 rpm Spindle Motor : BLDC Motor Depth sensing and adjustment : Automatic, Software controlled Tool change : Manual Tool holder : 1/8 inch Auto Bit protection : available X/Y/Z driver : Stepping Motor Dimensions (W x H x D) : (432x320x455) mm Power consumption : 110/220VAC, 50W Sound/Dust Enclosure : Integrated Operating System : Windows XP/7/8/10 (32/64 bit) PCB Prototype Machine should ideal to plot PCB for applications: High power PCB Analog PCB Digital PCB Included Accessories Software CD -1 No.</p>
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	<ul style="list-style-type: none"> - Eagle setup (Evaluation version) - PPT on how to use TINA and Eagle software Brush -1 No. Allen key -2 Nos. Adhesive tape -1 No. Copper clad boards (Single side 140 x 140mm) -10 Nos. Copper clad boards (Double side 140 x 140mm) -4 Nos. Nose pliers -1 No. Power cord -1 No. Nvis 72 Power Supply -1 No USB cable A to B (with filter) -1 No Patch cord 8" (2mm) -1 No. Tool Drill bits -Router Bits -2 Nos - Engrave bits (90 degree) -2 Nos. - Engrave bits (45 degree) -1 No. - Engrave bits (0.5 mm) -2 Nos. - Engrave bits (1.5 mm) -1 No. - Drill bits -16 Nos. Optional Accessories TINA Design Suit Single user TINA Design Suit Ten user Tinning liquid (125ml) Tinning liquid (500ml) PTH (Plated Through Hole) process Industrial Vacuum cleaner Copper clad boards (single side 140 x 140mm) pack of 10 Copper clad boards (double side 140 x 140mm) pack of 10 Standard Tool and Drill bit set(20bits): Tool bits: Router bits 1.2mm -2nos Engrave bits 0.2mm (90 degree) -2 nos Engrave bits 0.15mm(60 degree) -2 nos Engrave bits 0.128 (45 degree) -1 No Engrave bits 0.5mm -2 nos Engrave bits 1.5mm -1 no. Drill bits: 	<ul style="list-style-type: none"> -Machine Software - USB Drivers - 40+ circuits and PCB examples (TINA and Eagle) - Eagle setup (Evaluation version) - PPT on how to use TINA and Eagle software Brush -1 No. Allen key -2 Nos. Adhesive tape -1 No. Copper clad boards (Single side 140 x 140mm) -10 Nos. Copper clad boards (Double side 140 x 140mm) -4 Nos. Nose pliers -1 No. Power cord -1 No. Power Supply -1 No. USB cable A to B (with filter) -1 No. Patch cord 8" (2mm) -1 No. Tool Drill bits -Router Bits -2 Nos. - Engrave bits (90 degree) -2 Nos. - Engrave bits (45 degree) -1 No. - Engrave bits (0.5 mm) -2 Nos. - Engrave bits (1.5 mm) -1 No. - Drill bits -16 No. <p>(b) TINA Design Suit 5 user (01 Nos)</p> <p>(c) Standard Drill and Tool bit set(20bits) (02 Nos)</p> <p>Standard Drill and Tool bit set(20bits):.</p> <ul style="list-style-type: none"> Router bits 1.2mm-2 Engrave bits0.2mm (90)-2 Engrave bits 0.15mm(60)-2 Engrave bits 0.5mm-2 Engrave bits 1.5mm-1 Drill bits:
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