



विद्युत अभियंत्रिकी विभाग  
DEPARTMENT OF ELECTRICAL ENGINEERING  
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To, M/s -----

Enquiry no:-NaMPET/EE/RWS/2015-2016

Dated: 16/06/2015

**"Sealed Tenders are invited for procurement of 3 Channel Rework Station"**  
**Essential Technical Specifications for Rework Station**

- Power Input:** 230V AC 50 HZ + 10%.
- Power Output:** 400W or Higher having ESD free.
- Channels :** 03 consisting of soldering iron -120W, De-Soldering : Gun/Iron-120W & Hot air-200W
- SYSTEM OPERATION:** 3 independent working tools and temperature for soldering, De-soldering and hot air system.
- Operational Temperature Adjustable:** Hot Air Pencil- 50°C to 550°C, Soldering & De-soldering System 50°C to 450°C. with accuracy of  $\pm 2\%$ .
- Air flow & suction:** 18 liters & 0.7Bars.
- Soldering tool Description :**
  - Soldering pencil 120 watt 24 volt.
  - Chisel soldering tip (2.4 mm) fitted with pencil with Soldering pencil holder with cleaning sponge.
- Hot Air Tool(pencil) description:**

Hot air pencil 200 watt 24 v. with nozzle 3 mm dia. Fitted with pencil. Spare de-soldering Nozzle size: - Round 1.2 mm, Hot air pencil holder with cleaning sponge, No clean liquid flux pen & Nozzle changing tool.
- De-Soldering Tool description :**

De-soldering pencil 120 watt 24 v with de-soldering nozzle 1.2 mm (inside dia) with improved thermal transfer fitted with pencil with nozzles of size: - , 1.8 & long type 1.2 mm. De-soldering pencil holder with cleaning sponge & cleaning tool cum nozzle changing tool.
- Vacuum pick up pencil:** Heat resistant silicon rubber vacuum nipples of two different sizes for picking all types and sizes of SMD components.
- Controller Unit description:**
  - Unit should have **at least three channels** simultaneously working facility and should be capable of running all high-speed micro tools and parameters of each channel should be displayed, control and set from control panel.
  - Unit should display set temperature of all three channel simultaneously while working.
  - Unit should have two built in pumps for air pressure, vacuum and pick up and capable to adjust above system with prevention of de-soldering bit from clogging
  - Unit should have USB interface. (Software and USB cable should be part of standard supply. Software should have facility to record data simultaneously from multiple channels (i.e. heat up curves and soldering process) and data logging.
  - Unit should have supervisory lock mode feature i.e. once unit is locked, operator cannot change any parameters of system without lock code with temperature calibration facilities.
  - Unit should have each of the function of the hot-air iron; soldering / de-soldering iron should be able to programmed independently using menu functions on the main unit.
  - When tool is not in use, temperature reduces to standby temperature after set back time has elapsed.
  - When tool is not in use, the heating of soldering tool is switched off.
- Other Accessories :**
  - SMD Tweezers set :50Watts**
  - Micro Soldering Set:40Watts**
- Consumables:**
  - Chisel tips: 0.8, 1.6, 2.0, 1.2, 2.4, 0.2 mm, conical tip long 0.4 mm and 3.2 all in mm.
  - De-Soldering nozzles: 1.3, 0.7, .8 all in mm
- Desirable Model with accessories:**
  - Weller WR 3000MER
  - Weller WTA 50 Set
  - WMRP set
- Warranty -12 Months or more

Sealed Tender is invited for 3 Channel Rework Station with aforesaid specifications on or before **July 01, 2015** with marking the tender number at top of envelope & which should be in favour of "**Dr. P. Sensarma, Department of Electrical Engineering IIT Kanpur 208016**". The Indenter has right to accept or reject the tender without assigning any reason thereof. Also the indenter reserves the right to reject or accept all or any of the offers made above.

*akbasu*

(Amit Kumar Basu)

In-charge

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National Mission for Power Electronics Technology (NaMPET) Laboratory

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