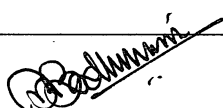


TITLE: SMD Re-Work Station

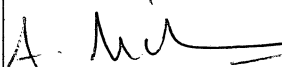
ITEM: SMD Re -Work Station

Annexure - C to Tender BAP/CAP/2015-16/OT-07

PREPARED BY:

| NAME | DESIGNATION | DEPARTMENT | SIGNATURE |
|--------------|-------------|------------------|---|
| AMIT BADHANI | ENGINEER | EMBEDDED SYSTEMS |  |

CHECKED & APPROVED BY:

| NAME | DESIGNATION | DEPARTMENT | SIGNATURE |
|-------------|----------------|------------------|---|
| A.MARIMUTHU | SENIOR MANAGER | EMBEDDED SYSTEMS |  |

ISSUED BY:

| DEPARTMENT | REVISION NO |
|----------------------|-------------|
| EDC/Embedded Systems | 00 |

A. Specification for SMD Rework Station

| Sl. No. | Product Description | BHEL's Specification/ Requirement | Vendor's Confirmation* | Deviation, if any |
|------------|------------------------------|---|------------------------|-------------------|
| 1.0 | General Specification | | | |
| 1.1 | Function | Soldering, Desoldering and Hot air reflow for SMD and PTH components, all must be quoted separately, Combo pack is not our requirement, we want all units separately. | | |
| 1.2 | Vacuum pick-up | Vacuum pick-up for SMD components | | |
| 1.3 | Temperature Control | Closed Loop temperature control | | |
| 1.4 | Additional Features | Simultaneous operation, lock modes, in-built digital calibration, sleep mode. | | |
| 1.5 | User Interface | LCD/ LED display with keypad | | |
| 2.0 | Hot Air Reflow | | | |
| 2.1 | Heating power | 90 watt or better | | |
| 2.2 | Temperature range | 100 - 450°C or better | | |
| 2.3 | Air flow | 15 litre/minute or better | | |
| 2.4 | Accessories | Set of vacuum integrated hot air nozzles for various packages [QFP, SOP, PLCC,] and sizes, Hot air pencil stand with adjustable PCB fixture for PCB | | |
| 2.5 | Spares | Set of spares required for trouble free operation for 3 years to be quoted separately. | | |
| 3.0 | Desoldering | | | |
| 3.1 | Heating power | 60 watt or better | | |
| 3.2 | Temperature range | 250 - 450°C or better | | |
| 3.3 | Suction | 500mmHg or better | | |
| 3.4 | Tip to ground potential | <2 mV | | |
| 3.5 | Tip to ground resistance | <2 ohm | | |
| 3.6 | Accessories | Desoldering nozzles, Stand, Holders, sponge, etc. | | |
| 4.0 | Soldering | | | |
| 4.1 | Heating power | 60 watt or better | | |
| 4.2 | Temperature range | Room Temperature - 450°C or better | | |

| Sl. No. | Product Description | BHEL's Specification/ Requirement | Vendor's Confirmation* | Deviation, if any |
|---------|---|--|------------------------|-------------------|
| 4.3 | Tip to ground potential | <2 mV | | |
| 4.4 | Tip to ground resistance | <1 ohm | | |
| 4.5 | Accessories | Soldering tip, Stand, Holders, sponge, Liquid Flux Pens. | | |
| 4.6 | Soldering Tweezers Units | Power 40W or better Tip to ground potential <2mV Tip to ground resistance <2ohms | | |
| 4.7 | Accessories | Soldering Tweezers Tips Dia Size ranging from 0.5mm – 3mm, stand | | |
| 5.0 | Power Requirement | 230V AC, 50 Hz | | |
| 6.0 | Service Requirements (Quote optionally) | | | |
| 6.1 | Installation & commissioning | Vendor to Commission and Demonstrate the operation | | |
| 6.2 | User Personnel training | At user premises – 1day | | |
| 6.3 | Annual maintenance Contract (AMC) after Warranty period | Quote optionally | | |
| | | | | |
| 7.0 | Guarantee / Warranty | 12 months from the date of commissioning | | |

* Vendor confirmation must be clearly spelt out with data. Yes /No answers will be treated as disqualified.

B. Scope of Supply

1. SMD Re work Station – 2 set

Note: The supplier shall specify all components, individually in the offer as deliverable items.