



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

TIRUCHIRAPPALLI – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY	Phone : +91 431 257 7421/7833
NOTICE INVITING TENDER	Fax : 431 257 6826
	Email : ykaruna@bhel.in
	: vijayak@bhel.in
	Website : www.bhel.com

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2631900076	19.12.2019	13.01.2020

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity
10	Procurement of Soldering/ De soldering Station as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com and https://eprocure.gov.in	02 Nos

Important points to be taken care during submission of offer

1. Delivery terms shall be FOR BHEL Stores, Trichy.
2. Compliance Form No: TRY/IND/04A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. Delivery period required is 2 months from the date of Purchase Order.
4. Erection and commissioning shall be done at BHEL Trichy by the supplier.
5. Time period required for Erection and commissioning shall be 1 week from the date of intimation by BHEL to Supplier.
6. EMD not applicable.
7. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions, compliance form and technical specification can be downloaded from BHEL web site <http://www.bhel.com> and <https://eprocure.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2631900076".

Note: this is not an E-tender, hence Vendors are requested to ensure that the offer is reaching physically at our office before 14:00 Hrs. on the date of tender opening.

Tenders should reach us before 14:00 hours on the due date Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present	Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  19/12/19. V. KARUNAKARAN Dy. General Manager Capital Equipment / MM BHEL / Tiruchirappalli - 620 014
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SOLDERING/DE-SOLDERING STATION, QTY. 2 NOS.**Part A**

Sl.No	BHEL REQUIREMENT	Bidder's Response
SECTION – 1: Qualifying Criteria		
The BIDDER has to compulsorily meet the Qualifying criteria indicated in SECTION 1 to get qualified otherwise the technical offer will not be considered.		
1.	BIDDER to provide the Profile of their Company including Number of Years of Experience of the BIDDER/ OEM in the field of design, manufacture and supply of "Soldering / De-soldering Station"	
2.	Only those bidders / OEMs should quote, who have supplied and commissioned at least 02 number of the "Soldering / De-soldering Station" in the last 3 years.	
3.	Atleast 1 performance certificate from any customer regarding satisfactory performance of the soldering/de-soldering station supplied to such customer in the last 3 years shall be submitted.	
4.	BHEL reserves the right to verify the information provided by Bidder. In case the information provided by Bidder is found to be false/ incorrect, the offer shall be rejected.	
SECTION – 2: Bidder to provide the following details		
5.	Bidder to furnish referral list of customers to whom Soldering / De-soldering Station" were supplied till date. The reference List of Customers to whom similar equipment has been supplied shall be accompanied with the details (Phone Number /E-Mail ID) of the CONTACT PERSON for cross reference by BHEL for performance verification.	
6.	Details of the International/ National Standards followed in design of the equipment.	
7.	Year of launch of the model quoted against this enquiry.	
8.	Details on SERVICE-AFTER-SALES Set-Up in India including the Addresses of Agents / Service Centers in India.	

Sl.No	BHEL REQUIREMENT	Bidder's Response
9.	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	
SECTION – 3: Bidder to note		
10.	The BIDDER shall submit the offer in TWO PARTS-Technical with unpriced Commercial bid and Price Bid.	
11.	The offer shall contain a comparative statement of Technical Specifications given by BHEL and the offered details submitted by the Bidder, against each clause.	
12.	Merely stating 'CONFIRMED' or 'COMPLIES' or 'YES' or 'NO-DEVIATION' or similar words wherever 'Bidder to Specify' details in the technical comparative statement may lead to disqualification of the Technical Offer. Bidder to specify the actual specification of the offered model(s) line item wise.	
13.	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue & Selection Criteria. Kindly note that mere attachment of the catalog without filling the vendors' confirmation column of the technical specification shall not be considered as valid offer.	
14.	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid.	
15.	The BIDDER / VENDOR shall assure a continuous support for SPARES and SERVICE for TEN Years, from the date of supply of the equipment at BHEL Works.	
16.	BIDDER has to indicate the Country of Origin for the supply of equipment.	

SOLDERING/DE-SOLDERING STATION, QTY. 2 NOS.**Part B – Technical specification**

Sl. No.	Product Description	BHEL's Specification/ Requirement	Bidder's Confirmation*
1.00	General Specification		
1.01	Multi-function	System must be capable of Hot air reflow, Soldering and de-soldering of SMD and PTH components	
1.02	Vacuum pick-up	Vacuum pick-up for SMD components	
1.03	Suction and Hot Blow	Selectable	
1.04	Temperature Control	Closed Loop temperature control	
1.05	Additional Features	Simultaneous operation of soldering and de-soldering	
		In-built digital calibration for temperature	
		Sleep mode.	
1.06	User Interface	LCD/ LED display with keypad for temperature indicator	
1.07	I/O interfaces	RS232/ USB [optional]	
1.08	Power Requirement	Universal/ 230V AC, 50 Hz	
1.09	Software	Lifetime licensed software for the instrument	
1.10	Interface Cable	Required as per instrument interface	
2.00	Hot Air Reflow		
2.01	Heating power	200 watt or better	
2.02	Temperature range	100 - 400°C or better	
2.03	Air flow range	Up to 15 litres/minute or better	
2.04	Accessories	Set of vacuum integrated hot air nozzles for QFP, SOP, PLCC IC packages	
3.00	De- Soldering		
3.01	Requirement	90 Watt or Better De-soldering Gun with Stand and fitted with De-soldering Nozzle	

Sl. No.	Product Description	BHEL's Specification/ Requirement	Bidder's Confirmation*
3.02	Temperature range	200 - 450°C or better range	
3.03	Suction	500mm Hg or better	
3.04	Tip to ground potential	<3 mV	
3.05	Accessories	Set of De-soldering nozzles of various sizes [0.2mm to 4mm], Stand, Sponge, etc.	
3.06	Spares	Set of spares required for 3-years trouble free operation to be quoted separately.	
4.00	Soldering		
4.01	Requirement	90 Watt or Better Soldering Pencil with Dry & Wet Cleaner Stand, with 24mm Chisel Soldering Tip	
4.02	Temperature range	200 - 450°C or better range	
4.03	Tip to ground potential	<3 mV	
4.04	Accessories to be included	Set of soldering tips of various shapes [Chisel, pointed, sloped, SMD, etc] and standard sizes, Stand, Sponge, etc.	
4.05	Spares	Set of spares required for 3-years trouble free operation to be quoted separately.	
4.06	Hot blow cartridge	01 No.	
4.07	Stand /Holder for the Tip	01 No.	
4.08	Diaphragm	01 No.	
4.09	Soldering Head/Tips Long Life and Pointed Tips suitable for SMD soldering.	• 0.8 Ø mm- 1 No. or Equivalent • 0.8 Ø mm slim tip -1 No. or Equivalent • 0.8 Ø mm ultra slim tip -1 No. or Equivalent • 1.0 Ø mm tip -1 No. or Equivalent • 1.5 Ø mm tip -1 No. or Equivalent • 1.0 Ø mm De-Soldering Tip -1 No. or Equivalent • 2.0 Ø mm De-Soldering Tip -1 No. or Equivalent • Gull Wing & Round Type SMD Soldering TIP.	
4.10	Heating Element	01 No.	

Sl. No.	Product Description	BHEL's Specification/ Requirement	Bidder's Confirmation*
4.11	Filter Cartridge	Set of 5	
5.00	List of Accessories		
5.01	Lead Free Solder Wire	Diameter 0.5mm or above - 500gram spool x 5 Qty	
5.02	De-Soldering Wick	Super Fine Mesh width 0.5mm or Above – 1.5 m length	
5.03	Cleaning Sponge / Cleaning Pit	Type soldering iron tip cleaner Set– 3 Nos	
5.04	Poking /Cleaning Pin Needle Bit	For Cleaning the De-soldering Suction Tip suitable for the Tip Diameter / Spare Spring	
5.05	Cleaning Drill for Heating Element	1 No.	
5.06	Ceramic Paper Filter	10 pieces	
5.07	Pre Heating Accessory	IRPH—4 infrared Pre-heating Plate 80 Watt or better	
5.08	Flux Bottle	ESD Safe Flux Bottle	
5.09	Side Cutter	ESD Safe SMD Side Cutter (Slim – Relieved Head)	
5.10	Flux Pen	Spring Loaded No-Clean Flux pen	
5.11	Magnifier	ESD safe LED Magnifier	
5.12	Cleaning Brush	ESD Safe Cleaning Brush	
5.13	Stand	Solder Wire Reel Stand	
5.14	Slipper	ESD Safe Slippers-Size 42	
5.15	Bottle	ESD Safe Dispensing Bottle	
5.16	Mat	ESD Safe Ready-to-use Table Mat Kit of 2 x 4 feet	
5.17	Apron	ESD Safe Apron in Any Colour	
5.18	Glove	ESD safe Gloves With PU Coated Finger Tips	
6.00	Service Requirements (Quote optionally)		
6.01	Installation & commissioning	Vendor to Commission and Demonstrate the operation	
6.02	User Personnel training	At user premises – 1day	
6.03	AMC after Warranty period	Quote optionally	
7.00	Guarantee / Warranty	12 months from the date of commissioning or 18 months from the date of delivery whichever is earliest.	

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