



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 7653 Fax : +91 431 252 0031 Email : skaruna@bheltry.co.in Web : www.bhel.com
NOTICE INVITING TENDER	

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two parts	2631600024	15.07.2016	09.08.2016

You are requested to quote the Enquiry number, date and due date in all your correspondences. 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	Delivery
10	Mobile Fume Extractor as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	1 No.	15.11.2016

Important points to be taken care during submission of offer

1. Compliance Form to be duly filled and enclosed along with your offer, failing which the offer will not be considered for evaluation.
2. 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 including bank guarantee formats and list of consortium banks, commercial compliance form can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units) Bharat Heavy Electricals Limited page) under Enquiry reference "2631600024".

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


KUMAR GAUTAM SINGH
Senior Engineer
MM / Capital Equipment
BHEL, TRICHY - 620 014.

SPECIFICATION FOR MOBILE FUME EXTRACTOR UNIT

Qty: 1 No

PART- A: QUALIFYING CRITERIA

1	Only vendors (OEM) who are in the field of manufacturing and supplying fume extraction systems / units are eligible to quote.	Vendor to confirm
2	The BIDDER / VENDOR shall have a minimum of FIVE Years of Continuous Experience in the Design, manufacturing and supplying fume extraction systems / units Indicate the actual experience.	Vendor to confirm
3	Documentary evidence for establishing points 1 & 2 should be enclosed in the offer.	Vendor to confirm
4	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where fume extraction systems / units have been supplied during the last 2 or three years. (Limited to latest 10 customers).	Vendor to provide list
5	Details on SERVICE-AFTER-SALES Set-Up in India including the Address of Agents / Service Centre's in South India.	Vendor to specify
6	The BIDDER / VENDOR shall submit the offer in TWO PARTS. 1. Technical Offer [with PART A & PART B] & commercial offer 2. Price Bid.	Vendor to confirm
7	The Technical Offer shall contain a comparative statement of Technical Specifications demanded by BHEL and Offer Details submitted by the Bidder, against each clause. A just 'CONFIRMED' or 'COMPLIED' or 'YES' or 'NO-DEVIATION' or similar words in the technical comparative statement where specific details are required may lead to disqualification of the Technical Offer.	Vendor to confirm
8	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	Vendor to confirm
9	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	Vendor to confirm
10	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	Vendor to confirm

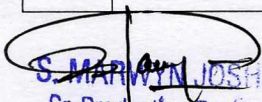

S. MARWYN JOSHUA
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Valves Production / Bldg - 6
BHEL, Tiruchirappalli - 620 014


A.P. JAYADEVAN
Senior Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.


N. RAJARAM
Deputy General Manager
Modernisation
BHEL, Trichy - 620 014.

PART- B: TECHNICAL SPECIFICATION

1	PURPOSE:	The Fume extraction unit is intended for extracting fumes generated during welding.
2	PORTABILITY:	
2.1		The equipment should be mobile, mounted on a trolley fitted with swiveling type castor wheels and dragging handles.
3	FAN and MOTOR:	
3.1	Net extraction capacity at the hood	Minimum 1250 m ³ /hr
3.2	Un restricted air flow	2400 m ³ /hr
3.3	Fan Type	Radial
3.4	Fan blades and casing	To be sturdy and resistant to heat
3.5	Motor capacity	Supplier to specify – Minimum (0.75kW)
3.6	Power supply	415V / Three Phase / 50Hz
3.7	Speed	Min 2800 RPM
3.8	Noise level	Not to exceed 70dB (A)
4	FILTER:	
4.1	Filter material	To be suitable for filtering out welding fumes – Supplier to specify the material
	Filters:	Two
	Pre filter	Aluminium (DIN EN 779)
4.2	Filter type / Material	Self-cleaning type / Cellulose fibres + Polyurethane + Metal.
	Treatment	Surface plus pre coat on Dura filter
	Pre filter efficiency	65-80 %
	Dura Filter efficiency	99.5%
4.3	Surface area	30 m ² (min)
4.4	Insulation	F
	Protection class	IP 50
4.5	Spark arrestor	To be provided
4.6	Clog indication	Visual indication to be provided to show filter clogging / saturation for replacement
4.7	Capability	To be capable of handling atmospheric conditions with 85% relative humidity
5	EXTRACTION ARM	
5.1	Flame-retardant flexible extraction arm [360 degree rotation]	Arm length: 3 to 4 meters. Vendor to specify the length.
5.2	Diameter of the arm	150 to 210 mm (nominal). Vendor to specify the diameter.
5.3	Nozzle or extraction/suction hood	Different variants suitable for inserting into a bore diameter of 150mm and sucking fumes generated near a welding work centre. Supplier to give different varieties of nozzles and suction hoods to choose from. To be easily detachable from the arm


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5.4	Material	Suction Hood / Nozzle – to be suitable for withstanding temperatures of 300 to 400°C Arm – to be suitable for withstanding high temperatures of welding fumes and gases
5.5	Handle	Suitable handle should be provided on suction hood/ nozzle
5.6	Supports	Supports for the arm to be internal i.e to be provided inside the arm
5.7	Arm positioning	Cantilever – supported on the extraction unit and should stay positioned in the desired position
5.8	Flexibility	Extraction/suction hood to have 360° positioning flexibility on its own axis
		The extraction arm supported on the unit should also have the positioning flexibility – up/down and swivel
6	OPTIONAL ACCESSORIES	
6.1	Supplier to offer any optional accessories such as throttle valve, spot light, automatic start / stop switch, Motor protection switch, Thermal cutout etc along with the offer. Each of these accessories shall be individually priced separately.	
7	GENERAL	
7.1	Weight of the full unit	Supplier to specify
7.2	Enclosure	Enclosure of the Fan, Motor and Filter to be compact and resistant to rusting.
7.3	Motors	To comply with IEC standards
7.4	Input power supply cable	Approx. 15metres. Shall be suitably protected
7.5	Consumables	Filter cartridges and list of any other consumables to be specified by the supplier with unit prices.
7.6	List of Spares for two years of trouble free operation	Spares shall be given with unit price for individual items.
7.7	O&M manuals	Three copies of the detailed O&M manuals in English shall be given along with the original catalogues of bought out items.
7.8	Inspection	The equipment shall be offered for inspection prior to dispatch.
7.9	Commissioning	The equipment shall be commissioned by the supplier's representative at BHEL works.
7.10	Performance Guarantee	The equipment performance shall be guaranteed for a minimum period of twelve months from the date of commissioning.
7.11	Service back up	The after sales service has to be indicated
7.12	Weight	To be specified by supplier


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