



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 7360

Email : ajayasalkar@bheltry.co.in

: vijayak@bheltry.co.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	2631800055	27.07.2018	20.08.2018

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	Magnetic Yoke and Black Light as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com and https://eprocure.gov.in	3 Nos.

Important points to be taken care during submission of offer

1. Delivery terms shall be FOR BHEL Stores, Trichy.
2. Compliance Form No: MM/CE/IND/12 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. Delivery period required is 3 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 2 weeks from the date of intimation by BHEL.
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 "2631800055".

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

AJAY V. ASALKAR

Sr. MANAGER

Sr. Manager / Capital Equipment

BHEL, Tiruchirappalli - 620 014

PART A - QUALIFYING CRITERIA FOR THE SUPPLY OF MAGNETIC YOKES & BLACK LIGHTS

SECTION – I

The BIDDER / VENDOR has to compulsorily meet the following requirements to get qualified for submitting an offer for the Magnetic Yokes and Black lights.

S. No.	REQUIREMENTS	VENDOR's COMMENTS
1.0	The BIDDER / VENDOR shall have a minimum of last FIVE Years of Continuous. Experience in the Design, Manufacture and supply of Magnetic Yokes & Black lights. Vendor to indicate the actual no. of years of experience in this field.	
2.0	Only those vendors (OEMs), who have manufactured and commissioned at least Two sets of Magnetic Yokes & Black lights in the last five years (as on original date of opening of Tender) and such equipments are presently working satisfactorily shall quote.	
3.0	Vendor has to submit at least one Performance Certificate from any of their customers, for satisfactory performance of the quoted model of Magnetic Yokes & Black lights supplied to them with in the last five years and is working satisfactory for a minimum period of one year from the date of commissioning (as on original date of opening of tender). For obtaining the Performance certificate, a suggestive format is provided as Annexure I.	
4.0	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.	

SECTION – II

Bidder to provide the following details:

S. No.	PARTICULARS	VENDOR's RESPONSE
5.0	Year of launch of the model quoted against this enquiry	
6.0	Number of "Magnetic Yokes & Black lights" supplied and commissioned till date in the quoted model	
7.0	The Bidder/vendor to furnish reference list of customers	
8.0	Details on SERVICE-after-SALES Set-Up in India including the addresses of Agents/Service Centers in India and Asia	

SECTION – III:

Bidder to note the following:

S. No.	PARTICULARS	VENDOR's RESPONSE
9.0	The BIDDER shall submit the offer in Two Parts – 1. Technical [with PART A & PART B] & 2. Commercial and Price Bid.	
10.0	The BIDDER shall assure a continuous support for Spares and Service for Ten Years, from the date of commissioning of the equipment at BHEL Works.	
11.0	The VENDOR's RESPONSE against each clause in PART A & B of the offer should be filled compulsorily with complete details.	
12.0	The Technical Offer shall be supported by Product Catalogue and Data Sheets and complete technical details / literature on the quoted model.	

ANNEXURE I
PERFORMANCE CERTIFICATE FORMAT
(On Customer's Letter Head)

1. Supplier of the Equipment :
2. Make & Model of the Equipment :
3. SI No. of the equipment :
4. Month & Year of Commissioning :
5. Application for which Equipment is used :
6. Jobs Performed by the Equipment
 - a. a. Job material :
 - b. b. Job thickness :
7. Performance of the Equipment : Satisfactory/Not Satisfactory
(Strike off whichever is not applicable)
8. After Sales Service : Satisfactory/Not Satisfactory
9. Any other remarks :

Contact details of issuing authority

Name & Designation:

Office No/Mobile no:

Email Id:

Signature and seal of authority

Issuing the performance certificate

PART B - TECHNICAL SPECIFICATIONS FOR MAGNETIC YOKE & UV-A-LED - BLACK LIGHTS

Sl.No.	Particulars	BHEL Specifications	Bidder's offer
Specification for Magnetic Yoke			
1.0	Application	Magnetic Particle Inspection on Ferrous materials and welds.	
2.0	Design	AC and DC	
3.0	Testing Span	300mm	
4.0	Arms rotation	In steps of 13° (approximately)	
5.0	Input Supply	230V, 50 Hz	
6.0	Power Supply cable	5 metres long	
7.0	Input Current	2.5 Amps	
8.0	Distance across Poles	0 to 300 mm	
9.0	Magnetic Field	AC- constant level DC- Pulsed infinitely variable	
10.0	Flux Density	10,500 lines of force/cm ² at 100mm poles spacing	
11.0	Lifting Power	23 kg (50lb) at 150 mm spacing (DC) and 4.5 Kgs (AC)	
12.0	Yoke Weight	Maximum 3.5 Kgs	
13.0	Duty Cycle	100%	
14.0	Controls	ON/OFF Switch A/C & DC Switch DC field intensity Potentiometer	
15.0	Performance Guarantee	1 Year	
16.0	Calibration certificate	Certificate to be furnished with the yoke supply. Magnetic Yoke design, construction, operations shall comply to ASTM E1444	

17.0	Steel blocks for Electromagnetic Yoke Lifting Force Check for AC/DC mode	The magnetizing force shall be checked by determining yoke's lifting power on steel. Each standard block set shall consist of 05 steel blocks each of 4.54 kg (10 lb) weight, which are stackable together by suitable means to weigh 23 kg (50 lb)	
18.0	Calibration certificate for weights	Each weight shall be weighed with a standard scale and stenciled with the applicable nominal weight. Supplier shall supply these certificates along with the block set.	
Specification for UV-A LED Black light			
19.0	Application	For Fluorescent particle testing Inspection and evaluation of materials and welds	
20.0	Power Supply	230 V 50Hz 1 phase supply.	
21.0	Power cable	5 metres	
22.0	Current Draw	1 Amp	
23.0	UV-A Intensity at 300mm from light face	3000 $\mu\text{W}/\text{cm}^2$	
24.0	Visible light emission at 300mm	less than 0.1 Lux or 1 foot candle	
25.0	Wavelength	electromagnetic radiation in the near ultraviolet range of wavelength (320 nm to 400 nm) (3200 Å to 4000 Å) with peak intensity at 365 nm (3650 Å).	
26.0	U.V.Bulb	LED Bulbs	
27.0	Filter	Glass filter	
28.0	Other features	The black light should not be interfered by shadows of any protection guards/grills.	
29.0	Running Temperature at room temp. of 20° C	Less than 40° C	
30.0	Weight (with Fan Cooled hand lamp)	Less than 1.5 kg	
31.0	Weight (Fan Cooled hand lamp+ Control unit)	4. 0 kg	

32.0	Cable length from lamp to control unit	5 metres	
33.0	Performance Guarantee	1 Year	
34.0	Calibration certificate and Operating manuals	to be furnished with Black Light supply	
35.0	Scope of supply		
	Magnetic Yoke - 1. Electro-magnetic Yoke as per BHEL spec. – 03 Nos. 2. Yoke Calibration certificates & operating manuals- (each with each system) 3. Steel blocks for Electromagnetic Yoke Lifting Force Check as per clause 17.0 of this technical specification- 01 set. 4. Calibration certificates of steel blocks set. UV- Black Lights- 5. Black light set as per BHEL spec. – 03 No. 6. UV light Calibration certificates & operating manuals- (each with each system)		
36.0	Installation and commissioning	The system and accessories (consisting of the items mentioned) is to be installed & commissioned at BHEL Works FREE OF COST, by the Service Engineer of the SUPPLIER.	
37.0	Performance prove out	Vendor to perform the job trials and to prove the performance of the equipment at BHEL works	
38.0	Guarantee	The system and accessories (consisting of the items mentioned in the scope of supply) are to be guaranteed for its performance for 12 months from the date of commissioning of the equipment at BHEL Works.	
39.0	Safety and Quality Standards	Supplier to ensure that Safety and Quality of system and accessories (consisting of the items mentioned in the scope of supply) shall conform to International Standards. Conformance certificate to be provided along with the equipment.	