



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirapalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 76 53

Email : skaruna@bheltry.co.in

spsey@bheltry.co.in

Web : www.bhel.com

TWO PART BID Tender to be submitted in two Parts	Enquiry Number: 2631700091	Enquiry Date: 15.11.2017	Due date for submission of quotation: 11.12.2017
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 should reach physically on or before 14.00 Hrs(IST) on the Date of tender opening. Tenders received after 14.00Hrs (IST) will not be considered for evaluation.			

Item	Description	Quantity	(Indigenous Vendors) Matl. Will be Delivered to
10	Multi-Colour LED Scrolling Display Board as per the technical specification & commercial conditions applicable(To be downloaded from web site www.bhel.com or http://tenders.gov.in)	7 Nos.	FOR, BHEL, Stores, High Pressure Boiler Plant, Tiruchirappalli - 620014
20	Multi-Colour LED Scrolling Display Board as per the technical specification & commercial conditions applicable(To be downloaded from web site www.bhel.com or http://tenders.gov.in)	1 No	FOR, BHEL, Stores, PPPU, Tirumayam

Important points to be taken care during submission of offer

- 1) Material shall be delivered to (By Indigenous vendors): As stated above.
- 2) By Foreign Vendors: CFR Chennai Seaport / Airport
- 3) Delivery required 1 month from the date of purchase order.
- 4) Erection & Commissioning period required 3 Weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.
- 5) EMD for this Tender will be (INR): Rs. 40000
- 6) Compliance Forms. TRY/IMP/03 & TRY/IND/03A to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
- 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 (refer MM / CE / GENL / GENL / 001 - EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list 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 .

Tenders should be submitted before 14.00Hrs (IST) on the due date
Tenders will be opened online 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**

DGM / Capital Equipment / MM

MULTICOLOUR LED SCROLLING DISPLAY BOARD

PART A

SECTION 1: Qualifying Criteria - The BIDDER has to compulsorily meet the following requirements to get qualified for considering the technical offer:

S. No.	REQUIREMENTS	VENDOR's RESPONSE
1.1	Only those vendors (OEM), should quote, who have supplied and commissioned in the last five years (as on the date of opening of Tender (first date)) at least ONE LED DISPLAY BOARD of minimum 6 ft x 4 ft size with IP 65 protection or better. Purchase reference and supply invoice of the same to be enclosed for documentary proof. The name and contact details of the customer to be furnished to whom the above was supplied.	
1.2	BHEL reserves the right to verify the information provided by vendor. In case the information provided is found to be false/incorrect, the offer shall be rejected.	

SECTION 2: The Bidder / Vendor is requested to provide the following information:

S. No.	REQUIREMENTS	VENDOR's RESPONSE
2.1	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where LED Display board has been supplied in the past (Maximum 10 references only).	
2.2	Details of LED display boards supplied to other BHEL units if any. (PO no., Year of commissioning, size)	
2.3	Details on Service after Sales setup in India including the Address of Agents / Service Centres in India.	

SECTION 3: The Bidder / Vendor to note the following:

S. No.	REQUIREMENTS	VENDOR's RESPONSE
3.1	The bidder / vendor shall submit the offer in two parts: 1. Technical Offer (with Part A & Part B) 2. Commercial offer & Price Bid.	
3.2	The Technical Offer submitted by the bidder shall contain complete details against all clauses of Part A & Part B of BHEL Tender specification. Technical offer submitted with incomplete details or information shall be disqualified.	
3.3	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought Out Items.	
3.4	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.	

TECHNICAL SPECIFICATION FOR MULTICOLOUR LED SCROLLING DISPLAY BOARD

PART B

S. NO.	BHEL SPECIFICATION		VENDOR'S OFFER
1.0	PURPOSE: LED DISPLAY UNIT shall be suitable for displaying Message, production targets, quality, safety and other related information in the manufacturing shop floor. The messages consists of Alphabets, numericals and special characters in English, Tamil and Hindi languages.		
2.0	CONFIGURATION:		
2.1	Size of the board	6 feet x 4 feet	
2.2	Display area	To be specified by vendor.	
2.3	Display Type	LED-Multi colour type. Vendor to confirm	
2.4	Provision for graphics display	Vendor to confirm, if yes, details to be provided	
2.5	No. of sides	One side display	
2.6	Enclosure material	Aluminium, powder-coated finish with toughened glass at front	
2.7	Complete Enclosure size	Vendor to specify	
3.0	LED /Module Requirement:		
3.1	Module size	320 mm x 160 mm or Vendor to specify the size	
3.2	No. of modules	Vendor to specify	
3.3	Pixel Pitch	Minimum 10 mm (H) x 10 mm (v). Vendor to specify the exact pitch	
3.4	Module density	Minimum 10000 dots / sq. m	
4.0	Display Features:		
4.1	Best viewing distance	15 m and above	
4.2	Viewing angle	Horizontal: 120 deg and vertical 60 deg	
4.3	Brightness	6000 cd / sq. m or More	
4.4	Brightness adjustment	Provision for adjusting brightness to be provided	
4.5	No. of rows	Variable and user defined type. Minimum 1 Row and maximum 10 Rows should be possible	
4.6	Character size	Variable as per the no. of rows. Vendor to specify the minimum and maximum character size possible	
4.7	Display type	Scrolling/static/blinking type- user selectable/programmable type and programmable colour	
4.8	Grey scale	> 4096 level	
4.9	Pixel Configuration	1R1G1B	
4.10	Red Wave length	625 ± 5 nm	
4.11	Green wave length	525 ± 5 nm	
4.12	Blue wave length	470 ± 5 nm	

5.0	Controlling Features:		
5.1	Control method	Synchronization	
5.2	Scan method	1/4 Scanning or better	
5.3	Frame frequency	60 HZ or better.Vendor to confirm	
5.4	Refresh frequency	More than 300 HZ. Vendor to confirm	
6.0	Software and Communication:		
6.1	Data interface	From PC/Laptop via LAN/RS-485. BHEL will make PC /laptop arrangement-Windows 7 or above operating system. Vendor to provide the necessary interface cable of minimum length 25m.	
6.2	Software	Vendor to install the software in BHEL PC/laptop and also to provide the software setup with life time validity.	
7.0	Memory	Ability to retain the last message displayed , till new message update	
8.0	Mounting:		
8.1	Mounting type	Roof-hanging or Wall-mounting. Provisions to be provided for both	
8.2	Mounting location	To be designed considering Outdoor location- Prone to direct rain and sun, dust, etc.	
8.3	Ambient temp	Up to 50 deg C	
8.4	IP protection	IP 65 protection required	
9.0	LIFE TIME:		
9.1	Mean time between failures	More than 10,000 hours	
9.2	Life span of LED	More than 10,000 hours	
10.0	Power supply	BHEL will supply 230 V $\pm$ 10 % V, 50 Hz $\pm$ 3 Hz at one point near to the equipment	
11.0	Additional details		
11.1	Weight	To be specified by vendor	
11.2	Power Consumption	To be specified by vendor	
11.3	Structural features	To be specified by vendor	
12.0	Installation and training	Supplier to install the equipment at BHEL works and provide training during installation	
13.0	Maintenance Tools	A set of maintenance tools for routine maintenance of the display system shall be supplied for each display unit	
14.0	Guarantee with free spares and service at site	24 Months from the date of commissioning at BHEL works	