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 76 53 Fax : +91 431 252 00 31 Email : skaruna@bheltry.co.in Web : www.bhel.com

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	**2621500021**	**12.09.2015**	**09.10.2015**

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	**Color Doppler Ultra Sound System** as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	**01 No.**

Important points to be taken care during submission of offer

1. This is an E-Tender issued online through our e-procurement site https://bheleps.buyjunction.in. The bidder should respond by submitting their offer online in our E-procurement platform at https://bheleps.buyjunction.in.
2. The Checklist for Acceptance of Commercial Terms & Conditions to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
3. 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/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 above Enquiry reference.

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** Sr. Engineer / MM / Capital Equipment

C. SARANYA
Senior Engineer
MM / Capital Equipment
BHEL / Tiruchirappalli - 620 014.

COLOUR DOPPLER ULTRA SOUND SYSTEM

PART A: QUALIFYING CRITERIA

S NO	DESCRIPTION	VENDOR'S RESPONSE
1	Number of such equipment supplied & commissioned during last 5 years.	
2	Bidder to provide a list of customers to whom the offered equipment is supplied in the last 5 years Bidder has to provide at least one performance certificate from any of the customers to whom they have supplied the offered equipment in the last five years and is working satisfactorily for at least one year from the date of supply.	
3	Equipment shall have CE and USFDA certification	
4	A demonstration of the equipment shall be arranged by the vendor, in case BHEL would like to ascertain the performance quality, features of the equipment.	
5	Software up gradation of the equipment (if any) should be taken care by the vendor.	
6	Servicing centres to be available in India. Details on Service-After-Sales Set-Up (preferably in Tamil Nadu), to be furnished.	
7	Vendor to provide prompt service and clinical support.	
8	The Bidder shall assure a continuous support for Spares and Service for the equipment for 10 years.	
9	BHEL reserves the right to verify the information provided by the Vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	

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Sr. Specialist / Gen. Medicine
BHEL Main Hospital
Trichy - 620 014

PART B: TECHNICAL SPECIFICATION

S NO	DESCRIPTION	VENDOR TO CONFIRM	VENDOR TO SPECIFY
1	Latest generation Electronic phased array colour Doppler system		
2	Dedicated cardiovascular ultrasound system while maintaining good image quality for non-cardiac structures		
3	Harmonic imaging system should have harmonics on all the probes		
4	Speckle reduction imaging		
5	Should have compound Real time Imaging		
6	Real time high frequency 2D for high resolution		
7	Should have 250 gray shades for sharp contrast resolution		
8	Images and cine loops can be stored in clip board & archive. The facility of retrieving the stored images by clicking the clip board without going to archive		
9	Split images and cine loops		
10	Colour gain can be adjusted in stored images		
11	High definition acoustic zoom function for live, freezed and stored images and cine loops - for M, 2D and colour		
12	Modes -M mode, 2D, steerable PW/CW Doppler, colour Doppler, Power Doppler		
13	System should have a very high dynamic range of atleast 200 db		
14	TGC ≥6 in numbers		
15	Atleast 3 transducer ports connectivity		
16	The system should have high resolution flat panel monitor with tilt and swivel and screen size not less than 17".		
17	High quality spectral and colour flow imaging		
18	Anatomical M mode both on and off line		
19	Tissue Doppler imaging (TDI)		
20	Tissue Doppler Velocity (TDV)		
21	Automated EF algorithm		
22	Speckle tracking		
23	Tissue tracking/tissue synchronisation imaging		
24	Strain and strain rate imaging		
25	Automated gain control for additional level of flexibility to image quality control		
26	Doppler base line shift on stored images		
27	Touch panel for easy user interface		
28	High frame rates across all application		

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S NO	DESCRIPTION	VENDOR TO CONFIRM	VENDOR TO SPECIFY
29	Minimum 250 GB hard drive for image storage and retrieval		
30	Auto tissue optimisation		
31	Auto colour optimisation		
32	Auto spectral optimisation		
33	Horizontal sweep of spectral Doppler		
34	Software for advanced cardiac calculation, measurement, cardiac analysis, carotid and other peripheral vascular panel (all application should be inbuilt in the system)		
35	User friendly key board and easy approach for various measurement		
36	Sector area angle can be altered and area can be tilted		
37	The equipment should be supplied with latest generation broad band width transducer		
38	Adult cardiac probe 1 (frequency 1.8 to 3.5 MHz)		
39	Paediatric probe 1 (frequency 3.0 to 8.0 MHz)		
40	Abdominal probe 1 (frequency 2.0 to 5.0 MHz)		
41	System should be upgradable for future application or newer developments		
42	High frame rate review for better clarity of play back images in slow motion		
43	Should have inbuilt USB port for digital storage		
44	List of essential spares to be provided		
45	**Operation and Instruction manuals** (in English) for the equipment shall be supplied in both hard copy - 1 no. and soft copy - 1 no. in CD or pen drive.		
46	**Commissioning**: The supplier has to assemble the equipment and accessories at BHEL, demonstrate and prove out all the features of the equipment and train BHEL doctors. The equipment shall be considered as commissioned only after successful demonstration of all features and prove out.		

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