



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
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TWO PART BID Tender to be submitted in two Parts	Enquiry Number: 2631600040	Enquiry Date: 29.07.2016	Due date for submission of quotation: 27.08.2016
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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 Sl. No.	Description	Quantity
10	Digital Ultrasonic Flaw Detector with accessories as per the Technical Specification & commercial conditions applicable	01 No.
20	Digital Ultrasonic Flaw Detector as per the technical specification & commercial conditions applicable	03 Nos.

(The Tender Documents can be downloaded from web site www.bhel.com or <http://tenders.gov.in> or <https://bheleps.buyjunction.in>)

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.
2. The Offer along with duly filled in Technical Specification and Compliance form for 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/EPROC/GENL/001-EMD, IND/02A, IMP/02) 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**

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

PART A

QUALIFYING CRITERIA FOR THE SUPPLY OF DIGITAL ULTRASONIC FLAW DETECTOR

SECTION – I

The BIDDER / VENDOR has to compulsorily meet the following requirements to get qualified for submitting an offer for the Digital Ultrasonic Flaw Detector.

S. No.	REQUIREMENTS	VENDOR's COMMENTS
1.0	The BIDDER / VENDOR shall have at least FIVE Years of Continuous Experience in the Design, Manufacture and supply of Digital Ultrasonic Flaw Detector. Vendor to indicate the actual no. of years of experience in this field.	
2.0	Only those vendors (OEMs), who have manufactured, supplied and commissioned at least Two Nos. of Digital Ultrasonic Flaw Detectors in the last five years [as on date of this Tender opening (First date)] 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 Digital ultrasonic Flaw Detector supplied to them with in the last five years and is working satisfactory for <u>a minimum period of one year from the date of commissioning</u> [as on date of this tender opening (First date)]. 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 Digital Ultrasonic Flaw Detector Systems supplied, installed and commissioned till date for Boiler Component inspection (with details on machine type / model, configuration, customer and quantity)	
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	

Enquiry Item Sl. No. 10

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

1. Supplier of the Equipment :
2. Make & Model of the Equipment :
3. Sl No. of the equipment :
4. Month & Year of Commissioning :
5. Application for which Equipment is used :
6. Jobs Performed by the Equipment
 - a. Job material :
 - 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 SPECIFICATION OF DIGITAL ULTRASONIC FLAW DETECTOR**

Cl. No.	Particulars	BHEL SPECIFICATIONS	Bidder's OFFER [With Complete Technical Details]
1.0	Area of Application	Digital Ultrasonic Flaw detector (UFD) is used for Testing of materials and welded structures made of Steel.	
2.0	Purpose	The equipment is proposed to perform conventional Ultrasonic testing, to detect planar/ volumetric defects in welds present in plates, pipes, tubes and pressure vessels in shop & site conditions. Hence the equipment shall be compact and single unit type comprising of all the sub systems like electronics, display, processors, keypad etc.	
3.0	Principle of operation	The Ultrasonic Flaw Detector works on the principle of Reflection of Ultrasounds at Interfaces of varying acoustic impedance. By using Piezoelectric Transducers, which can convert electric signals to ultrasonic vibrations, Ultrasound is sent to the test objects and the reflected Ultrasonic energy from the defects is converted back to electric signals, which in turn are displayed on the LCD screen.	
4.0	Design base	UFD shall compliant to EN 12668-1, IEC 60068-2-27, IEC-60068-2-6, IP67 Ultrasonic search units (probes) shall compliant to ASTM-E 1065.	
5.0	Pulse	Spike or Tunable Square wave pulse. The pulse is to be electronically controlled on both rising and falling edges to maximize probe performance and increasing near surface resolution.	
5.1.	Pulse repetition frequency	15 Hz to 2000 Hz	
5.2.	Energy Settings	Pulse voltage shall be adjustable	
5.3.	Pulse width	Shall be adjustable from 30ns to 500ns (0.1MHz)	
5.4.	Damping	Shall be adjustable from 50 to 400 Ω	
6.0	Receiver		
6.1.	Gain	0 to 100 dB with 0.5,1,2,6 dB steps & user defined gain step adjustments	
6.2.	Total Instrument Bandwidth	0.5 to 18 MHz	

Cl. No.	Particulars	BHEL SPECIFICATIONS	Bidder's OFFER [With Complete Technical Details]
6.3.	Digital Filter settings	User selectable narrow band and broad band filter options to be provided to optimize receiver performance	
6.4.	Rectification	Full wave, Positive half wave, Negative Half wave, RF	
6.5.	System linearity	Horizontal, Vertical and amplifier linearity shall meet the requirements of ASME section V	
6.6.	Reject	Shall be adjustable with visual warning.	
7.0	Measurement		
7.1.	Types	Thickness, Sound path, Projection, Depth, Amplitude, Time of flight for both Gates.	
7.2.	Echo to Echo	Standard	
7.3.	DAC / TVG Standard	Up to 15 points to be captured, ASME Section I, Section III, 100 dB dynamic Range, full gain, range and delay adjustments during set up, view switchable between DAC & TVG	
7.4.	CUSTOM DAC	System shall have multiple DAC options including -6dB and - 14dB DAC.	
7.5.	DGS probe data	For time varied gain applications. DGS set ups to be built from DGS/ AVG diagram with standard probe data and user defined probe data. Defect size evaluation to be performed with predefined probe settings. Defect size to be directly displayed. Data sheet for each probe giving all technical details shall be furnished.	
7.6.	Amplitude measurement	0 to 100% full screen height with 0.25% resolution	
7.7.	Curved Surface correction	For Angle measurements shall be available.	
7.8.	X-Value correction	Beam index point to front of transducer shall be available.	
8.0	Gates	Minimum two fully independent Gates for amplitude and Time of flight measurements.	
8.1.	Gate start & width	Start and width of the gate shall be adjustable within the entire range with positive and negative threshold.	
8.2.	Gate height	Variable from 5 to 95% full screen height	

Cl. No.	Particulars	BHEL SPECIFICATIONS	Bidder's OFFER [With Complete Technical Details]
8.3.	Alarms	Positive and Negative thresholds: Minimum Depth on Gate1 and Gate 2	
9.0	Display	"A" scan display (Rectified as well as Rf mode) and Color Liquid Crystal Display with user defined, user selectable color schemes and brightness having split screen, full screen modes and Auto freeze facility. Supplier shall specify available display modes.	
9.1.	Base line break mode	All zero cross points on the Rf wave form shall be shown as zero points in full wave mode.	
9.2.	Amplitude Grid mode	100% Amplitude display	
9.3.	Time base grid modes	Standard 0 to 10 major divisions, each having five equal minor divisions.	
10.0	Instrument Input / Output		
10.1.	USB port	For communication with PC/ Data cables /Flash drive/mouse etc.	
10.2.	SD card slot	SD card connector for easy data archival	
10.3.	LEMO Hardware I / O	Alarm outputs, Trigger In / Out	
10.4.	Data Storage	At least 1000 "A scan" data files storage capacity should be available. Supplier to specify the average size of a data file and also number of data files that can be stored.	
11.0	Calibration	Supplier to specify the calibration set up memory. At least 100 different calibration setups should be stored and recalled.	
11.1.	Automated distance Calibration	Automatic calibration of range shall be available for velocity and zero offset adjustments	
11.2.	Test modes	Pulse echo, Dual or through transmission	
11.3.	Units	Millimeters, Inches	
11.4.	Range	5 mm to 5000 mm for longitudinal beam in steel	
11.5.	Velocity	1000 m/s to 10000 m/s.	
11.6.	Zero offset	shall be adjustable from 0 to 500 micro seconds	
11.7.	Display delay	shall be adjustable	
11.8.	Refracted angles	shall be adjustable from 10° to 85° in 0.1° resolution	

Cl. No.	Particulars	BHEL SPECIFICATIONS		Bidder's OFFER [With Complete Technical Details]
12.0	Probes / Accessories (for each equipment)	1) Longitudinal single crystal Probes	Qty	
		a) 2MHz- Ø 24mm with suitable lemo connector, removable protective membrane and test certificate	02 Nos.	
		b) 4MHz- Ø 10mm with suitable lemo connector, removable protective membrane and test certificate	02 Nos.	
		Suitable standard cables (2m long) for above probes (1.a & b)	10 Nos.	
		2) Shear wave single crystal Probes		
		a) 2 MHz-45° Size: 20x22mm active area , to produce 45° refracted shear wave in steel, with suitable lemo connector and test certificate	02 Nos.	
		b) 2 MHz-60° Size: 20x22mm active area , to produce 60° refracted shear wave in steel, with suitable lemo connector and test certificate	02 Nos.	
		c) 2 MHz-45° Size: 8 x 9mm active area , to produce 45° refracted shear wave in steel, with suitable lemo connector and test certificate	02 Nos.	
		d) 2 MHz-60° Size: 8 x 9mm active area , to produce 60° refracted shear wave in steel, with suitable lemo connector and test certificate	02 Nos.	
		e) 4 MHz-38° Size: 8 x 9mm active area , to produce 38° refracted shear wave in steel, with suitable lemo connector and test certificate	04 Nos.	
		f) 4 MHz-45° Size: 8 x 9mm active area , to produce 45° refracted shear wave in steel, with suitable lemo connector and test certificate	10 Nos.	
		g) 4 MHz-60° Size: 8 x 9mm active area , to produce 60° refracted shear wave in steel, with suitable lemo connector and test certificate	05 Nos.	

Cl. No.	Particulars	BHEL SPECIFICATIONS	Bidder's OFFER [With Complete Technical Details]
		h) 4 MHz-70° Size: 8 x 9mm active area , to produce 70° refracted shear wave in steel, with suitable lemo connector and test certificate Suitable standard cables(2m long) for above probes(2.a to h) 20 Nos.	
		3) Twin Crystal Probes	
		a) 2MHz- Ø 10mm active area, with suitable lemo connector and test certificate.	02 Nos.
		b) 4MHz- Ø 10mm active area, with suitable lemo connector and test certificate.	04 Nos.
		Suitable standard cables(twin core cables) (2m long) for above probes(3.a & b)	10 Nos.
		Supplier should Furnish data sheet for probes with the crystal diameter, probe center frequency, Spectrum, roof angle of twin crystal probe etc. along with technical data sheet as per ASTM E-1065 with band width of operation for each probe shall be provided.	
12.1.	Cables	Supplier to specify the details of Power cables, Transducer connector cables etc.	
12.2.	Calibration Certificate & Test Certificate	The calibration and test certificates shall be supplied with the equipment. The supplier should supply data sheets for the probes with crystal diameter, probe center frequency, frequency response curve, roof angle of twin crystal probe etc. The technical data sheet shall be supplied as per ASTM E 1065.	
13.0	Software Options	DAC, DGS / AVG	
14.0	General features		
14.1.	Weight	Shall be less than 3 kg (including battery)	
14.2.	Transducer connections	LEMO type connections (Equipment side and transducer side)	

Cl. No.	Particulars	BHEL SPECIFICATIONS	Bidder's OFFER [With Complete Technical Details]
14.3.	Battery	Lithium ion / Nickel Metal Hydride / Alkaline C-Cells preferably. The system shall have the provision for Internal rechargeable battery with charger adapter. The battery after charging should work for minimum 6 hours before next recharging.	
14.4.	Power requirement	AC-mains, 200-240V (50Hz)	
14.5.	Environmental ratings	Temperature: 5 to 50 degree C Humidity: RH 20 - 80%	
15.0	Scope of Supply	1) Total Number of Ultrasonic flaw detectors (UFD) meeting BHEL Part A- technical specifications - 01 No. Following items shall be supplied compulsorily with each UFD (total-01 set) 2) Probes/Accessories as per clause 12.0 3) Cables as per Clause 12.0 and 12.1 4) Battery as per clause 14.3 5) Battery charger 6) Calibration & Test Certificates as per Clause 12.2 7) Service tool kit 8) Optional / Compulsory Accessories 9) Installation, Commissioning & Performance Prove-Out and Training on Operation, Trouble Shooting & Maintenance 10) Operation and Maintenance manuals	
16.0	Documentation in ENGLISH Language	Three Copies (in English) of the Operation, Maintenance & Service Manuals containing Electric Schematics, Circuit Diagrams, Drawings, Trouble Shooting Charts, Mechanical Sub-Assemblies, Rating of Bought-Out Items, etc. shall be supplied, at the time of inspection by BHEL Engineers. In addition, two soft copies in CDs to be supplied.	
17.0	Pre dispatch Inspection	The system and accessories (consisting of the items) shall be offered for pre dispatch Inspection by BHEL at supplier's works.	
18.0	Packing and delivery	Packing and delivery of the total equipment from manufacturer's place to BHEL, Trichy in safe condition without any damage is under the responsibility of the SUPPLIER.	

Cl. No.	Particulars	BHEL SPECIFICATIONS	Bidder's OFFER [With Complete Technical Details]
19.0	Installation and commissioning	The system and accessories (consisting of the items mentioned) is to be installed & commissioned at BHEL Works, by the Service Engineer of the SUPPLIER.	
20.0	Performance Prove out	Vendor to perform the job trails and to prove the performance of the equipment at BHEL works	
21.0	Training on Operation & Maintenance	Complete Training for BHEL Engineers is to be given on Operation & Maintenance of the OFFERED equipment at BHEL, after the successful commissioning of the Equipment & Accessories.	
22.0	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.	
23.0	Service and Spares Support Requirements	Vendor shall ensure after the guarantee period, through trained service personnel in India for next 5 years as and when need arise. Spares to be made available within the shortest time.	
24.0	Annual Maintenance Contract - AMC	Vendor to indicate whether Annual Maintenance services can be provided on contract after the guarantee period is completed	
25.0	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 mentioned in clause 4.0. Conformance certificate to be provided along with the equipment.	
26.0	Price for accessories	Separate rate shall be quoted for Optional / Compulsory Accessories	

PART-A
QUALIFYING CRITERIA FOR THE SUPPLY OF DIGITAL ULTRASONIC FLAW DETECTOR

SECTION I

The BIDDER / VENDOR has to compulsorily meet the following requirements to get Qualified for submitting an offer for **DIGITAL ULTRASONIC FLAW DETECTOR**

S. No.	Requirements	Vendor's response.
1	Only Original Equipment Manufacturers (OEM) or their authorized distributors are eligible to participate. In case of Authorised Distributors/Agents, they shall enclose tender specific Authorization from manufacturers, duly mentioning the Tender reference number and due date on the Authorization certificate.	
2	The VENDOR shall have Atleast THREE Years of Continuous Experience in the field of Design, manufacture and supply of DIGITAL ULTRASONIC FLAW DETECTOR.	
3	Only those vendors, who have supplied, and commissioned at least one such DIGITAL ULTRASONIC FLAW DETECTOR of the quoted model for similar applications in the last five years [as on date of this tender opening (first date)] and such equipment is presently working satisfactorily for more than one year after commissioning [as on date of this tender opening(first date)], should quote.	
4	Vendor has to submit at least ONE Performance Certificate from their customer, for satisfactory performance of quoted model of DIGITAL ULTRASONIC FLAW DETECTOR specified in clause 2 supplied to them and such equipment is working satisfactorily for a minimum period of one year [as on date of this tender opening(first date)]. For obtaining the Performance certificate, a suggestive format is provided at the end of part-A.	
5	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.	

The vendor should submit the following information where similar machines have been supplied		
A	Name and postal address of the customer / company where similar machine is installed.	
B	Name and designation of the contact person of the customer.	
C	Phone, FAX no. and email address of the contact person of the customer.	
D	Month and Year of commissioning	
E	Application for which the machine is supplied.	

SECTION – II

Enquiry Item Sl. No.20

The BIDDER is expected to give complete details against each clause in the table given below, with additional sheets those may be attached (giving clear reference number) to furnish and cover the requisite details / documents.

S. No	PARTICULARS	VENDOR's RESPONSE
6	Profile of the Company bringing-out the years of Experience of the BIDDER in the field of design, manufacture and supply of DIGITAL ULTRASONIC FLAW DETECTOR System	
7	Number of DIGITAL ULTRASONIC FLAW DETECTOR System supplied, installed and commissioned till date for Boiler Component inspection (with details on machine type / model, configuration, customer and quantity)	
8	Number of Digital Ultrasonic Flaw Detectors supplied, installed & commissioned till date in the following Category (around the GLOBE) : a. Universities b. R&D Labs c. Reputed Heavy Engineering Works/Manufacturing firms	
9	YEAR of supply of latest, DIGITAL ULTRASONIC FLAW DETECTOR System for welding applications and the Technical Specifications of the Machine supplied [Details to be furnished]	
10	Is there any other model launched after the quoted Model? Otherwise, indicate the likely year in which the next model is likely to be launched	
11	Details on International Standards / Design Process Codes followed in Design and Manufacture of the Equipment.	
12	Details on SERVICE-AFTER-SALES Set-Up in India including the Addresses of Agents / Service Centres in India. Competency & Experience of the Local Service Agency are to be provided	
13	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment	

SECTION – III

Enquiry Item Sl. No.20

The BIDDER has to comply with the following, for accepting the Technical Offer for Scrutiny by the Purchaser:

S.No.	REQUIREMENTS	VENDOR's RESPONSE
14	The BIDDER / VENDOR shall submit the offer in TWO PARTS- Technical [with PART A & PART B] & Commercial and Price Bid.	
15	The Technical Offer shall be supported by Product Catalogues and description.	
16	The Offer shall contain a comparative statement of Technical Specifications given by BHEL and the Offer Details submitted by the Bidder, against each clause. A mere 'CONFIRMED' or 'COMPLIES' or 'YES' or 'NO-DEVIATION' or similar words in the technical comparative statement [without any supporting technical write-ups, photos and datasheets] may lead to disqualification of the Technical Offer.	
17	The BIDDER / VENDOR shall assure a continuous support for the supply of SPARES and SERVICE for TEN Years, from the date of commissioning of equipment at BHEL Works.	
18	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 of the inclusion of all the accessories, tooling, attachments, auxiliary parts, spares, consumables, etc. with the main and basic equipment, to meet the technical specification requirements.	
19	Soft copy if any, giving the salient features of the proposed machine with all sub-systems and auxiliaries, and /or showing live-demo of an existing and working machine of similar configuration and capacity may be provided.	
20	BIDDER has to indicate the Country of Origin for the supply of equipment.	
21	The reference List of Customers shall be accompanied with (Phone Number and E-Mail ID) of the CONTACT PERSON for cross reference by BHEL	
22	In case of preliminary qualification of the offer, on technical grounds, the BIDDER may be called for a detailed technical discussion on the original technical offer at BHEL Works, with a sufficient notice period.	

SECTION – IV
PERFORMANCE CERTIFICATE
(On Customer's Letter Head)

1. Supplier of the machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application :
5. Performance of the Machine : (Strike off whichever is not applicable)
Satisfactory / Not satisfactory
6. Service after Sales : (Strike off whichever is not applicable)
Satisfactory / Not Satisfactory

Date:

Signature & Seal of the Authority
Issuing the Performance certificate

Contact details of issuing authority
Name & Designation:
Office No/ Mobile no:
Email ID:

PART B**TECHNICAL SPECIFICATION FOR PROCUREMENT OF DIGITAL ULTRASONIC FLAW DETECTOR****Quantity – 3 Nos**

S.NO	BHEL DESCRIPTION	Quantity	Bidders offer
1.0	Purpose : The equipment is proposed to perform conventional Ultrasonic testing, to detect planar/ volumetric defects in welds present in plates, pipes, tubes and pressure vessels, sound velocity measurement in various materials etc. The equipment will also be used provide ultrasonic testing training.		
1.1	Principle of operation : The ultrasonic flaw detector works on principle of reflection of ultrasonic waves at the interfaces of varying acoustic impedance.		
1.2	Design base: Equipment shall complaint to EN 12668-1, IEC 60068-2-27, IEC – 60068-2-6		
1.3	Scope of supply : a. Digital ultrasonic flaw detector with the specification mentioned in s.no 2.1 including battery, charger, Carry case, protective screen guard, service tool kit and optional / compulsory accessories. b. Standard accessories (probes and cables) with specification as mentioned in s.no 2.2 c. Special accessories with specifications as mentioned in s.no 2.3		
2.0	Detailed specification		
2.1	Equipment: Digital ultrasonic testing equipment shall have the features mentioned from s.no 2.1.1 to 2.1.14	3 Nos	
2.1.1	Techniques: Equipment shall be compatible to be used for the Pulse echo, Pitch-catch and Through transmission technique		
2.1.2	Pulser: a. The pulse shall be a Spike or tunable square wave pulse. b. Pulse repetition frequency shall be adjustable from 50 to 2000 Hz c. Pulse width shall be adjustable from 50 to 500 ns d. Pulse voltage shall be adjustable		Supplier to specify

	e. Damping shall be adjustable from 50 to 400 ohms		
2.1.3	Receiver:		Supplier to specify
	a. Gain shall be adjustable from 0 to 100 dB with control of 0.5, 1, 2, 6 dB step.		
	b. Receiver bandwidth shall be adjustable from 0.5 to 25 MHz at -3 dB		
	c. User selectable filters with narrow band and broadband shall be provided.		
	d. Rectification shall be adjustable as Full-wave, Positive Half-wave, Negative Half-wave and RF		
	e. Reject shall be adjustable.		
2.1.4	System linearity:		
	a. System linearity (Horizontal linearity, Vertical linearity & Amplifier linearity) shall meet the requirements of ASME Section V.		
2.1.5	Calibration:		Supplier to specify
	a. Manual and automatic calibration of range shall be available for velocity and zero offset adjustments		
	b. Range shall be adjustable from 5 mm to 5000 mm for longitudinal beam in steel		
	c. Velocity shall be adjustable from 1000 m/s to 10000 m/s		
	d. Zero offset shall be adjustable from 0 to 500 micro seconds		
	e. Refracted angle shall be adjustable from 10 degree to 85 degree in 0.1 degree resolution		
	f. Display delay shall be adjustable.		
2.1.6	Gates :		Supplier to specify
	a. Minimum two independent gates for amplitude and time of flight measurement shall be available.		
	b. Start and width of the gate shall be adjustable within the entire range with positive and negative threshold.		
	c. Threshold of gate shall be adjustable from 5 to 95 % of full screen height.		
	d. Alarm for gate trigger shall be available.		
2.1.7	Display:		Supplier to specify
	a. A scan display to display RF and rectified signal(Positive, negative and full rectification)		
	b. Display shall be TFT/LCD with better resolution.		
	c. User selectable color schemes, brightness, peak freeze and full screen modes shall be available.		
	d. Amplitude grid shall be available to represent 100 % amplitude.		
	e. Time base grid shall be available with 0 to 10 major divisions and minimum 5 minor divisions.		
2.1.8	Measurements :		Supplier to specify

	a. System shall measure and display beam path, depth, location and thickness of the signal in the gate. b. DAC curve shall be available and shall be able to use up to 15 points with 100 dB dynamic range. c. System shall have multiple DAC options including -6dB and - 14dB DAC. d. For time varied gain applications DGS setups to be built from DGS/AVG Diagram with standard probe data and user defined probe data. Defect size evaluation to be performed with predefined probe settings. Defect size to be directly displayed. Data sheet for each integrated probe giving all technical details shall be furnished. e. Beam index point correction for location measurement from probe front face. f. Amplitude measurement shall be possible from 0 to 100% with 0.25 % resolution. g. Curved surface correction for angle measurements shall be available.		
2.1.9	Power supply and battery : a. The equipment shall work with an AC adapter with output of 220 to 240 Volts AC. b. Battery shall be rechargeable lithium-ion or nickel metal hydride, with capacity to charge in online mode. c. Equipment shall work with battery power continuously for at least 6 hours before recharging.		
2.1.10	Weight : Equipment shall be portable with weight less than 4 kg (including battery).		
2.1.11	Environmental rating : a. Equipment shall function satisfactorily in temperature range of 5 to 55 degree Celsius b. Humidity – RH 20 to 80 %		
2.1.12	Transducer connection : a. Transducer connections shall be Lemo type		
2.1.13	Data storage and transfer capability: a. The data shall be saved in data storage card or inbuilt memory with storage capacity not less than 2 GB. b. At least 50 calibration set up shall be stored and recalled. c. Capable to save at least 1000 A-scan data. Supplier shall specify the data file size and number of files which can be stored. d. Provision of data communication with PC/data cable / flash drive shall be available. e. Pc software, Cables and ports required for data transmission shall be supplied along with the equipment.		Supplier to specify

2.1.14	Calibration and test certificates: The calibration and test certificates shall be supplied with the equipment. The supplier should supply data sheets for the probes with crystal diameter, probe center frequency, frequency response curve, roof angle of twin crystal probe etc. The technical data sheet shall be supplied as per ASTM E 1065.		
2.2	Standard Accessories (Integrated probes)		
2.2.1	Single crystal probe for straight beam inspection (0 degree) with 2 MHz frequency, 24 mm diameter probe, with suitable lemo connector, removable protective membrane and test certificate	2 Nos	
2.2.2	Single crystal probe for straight beam inspection (0 degree) with 4 MHz frequency, 10 mm diameter probe, with suitable lemo connector, removable protective membrane and test certificate	2 Nos	
2.2.3	Single crystal probe for angle beam inspection with 2 MHz frequency, 8x9 mm active area , to produce 38 degree refracted shear wave in steel, with suitable lemo connector and test certificate	2 Nos	
2.2.4	Single crystal probe for angle beam inspection with 4 MHz frequency, 8x9 mm active area , to produce 38 degree refracted shear wave in steel, with suitable lemo connector and test certificate	2 Nos	
2.2.5	Single crystal probe for angle beam inspection with 4 MHz frequency, 8x9 mm active area , to produce 45 degree refracted shear wave in steel, with suitable lemo connector and test certificate	3 Nos	
2.2.6	Single crystal probe for angle beam inspection with 4 MHz frequency, 8x9 mm active area , to produce 60 degree refracted shear wave in steel, with suitable lemo connector and test certificate	3 Nos	
2.2.7	Single crystal probe for angle beam inspection with 4 MHz frequency, 8x9 mm active area , to produce 70 degree refracted shear wave in steel, with suitable lemo connector and test certificate	3 Nos	
2.2.8	Co axial cable with lemo 00 to lemo 01 connector to connect the probes (SI.no 2.2.2 to 2.2.7) to the equipment with cable length not less than 2 meter.	15 Nos	
2.2.9	Co axial cable with lemo 01 to lemo 01 connector to connect the probes (SI.no 2.2.1) to the equipment with cable length not less than 2 meter.	6 Nos	
2.3	Special Accessories (Removable probes , wedges and cables)		
2.3.1	Circular Probe with threaded casing, compatible to be used with wedges mentioned in s.no 2.3.3 to 2.3.6 for angle beam inspection. Probe frequency of 2.25 MHz, 10 to 13 mm diameter active element, with suitable lemo / micro dot connector and test certificate	2 Nos	
2.3.2	Circular Probe with threaded casing compatible to be used with wedges mentioned in s.no 2.3.3 to 2.3.6 for angle beam inspection. Probe frequency of 5 MHz, 10 to 13 mm diameter active element, with suitable lemo / micro dot connector and test certificate	2 Nos	
2.3.3	Perspex or rexolite Wedges to produce refracted shear beam of 45 degree in steel. To be compatible with probes mentioned in s.no 2.3.1 to 2.3.2	2 Nos	

2.3.4	Perspex or rexolite Wedges to produce refracted shear beam of 60 degree in steel. To be compatible with probes mentioned in s.no 2.3.1 to 2.3.2	2 Nos	
2.3.5	Perspex or rexolite Wedges to produce refracted shear beam of 70 degree in steel. To be compatible with probes mentioned in s.no 2.3.1 to 2.3.2	2 Nos	
2.3.6	Perspex or rexolite Wedges to produce refracted shear beam of 90 degree (Rayleigh wave) in steel. To be compatible with probes mentioned in s.no 2.3.1 to 2.3.2	2 Nos	
2.3.7	Normal incidence shear wave transducers (with removable delay line) having 2.25 MHz probe frequency, 10 to 13 mm diameter active element, with suitable lemo / micro dot connector and test certificate	1 No	
2.3.8	Co axial cable with lemo/micro dot connector to connect the probes (Sl.no 2.3.1, 2.3.2 and 2.3.7) to the equipment with cable length not less than 2 meter.	10 Nos	
2.3.9	Immersion transducer with 10 MHz frequency, 10 to 15 mm diameter with point focus at a depth of 100 mm in water along with a fixture to position probe into water at a depth of at least 200 mm from water level.	1 No	
2.3.10	Immersion transducer with 20 MHz frequency 5 to 10 mm diameter with point focus at a depth of 100 mm in water along with a fixture to position probe into water at a depth of at least 200 mm from water level	1 No	
2.3.11	Co axial water proof cable with suitable connector to connect the probes (Sl.no 2.3.13 to 2.3.15) to the equipment with cable length not less than 3 meter.	2 Nos	
3.0	Terms and conditions		
3.1	Conditions for participation: a. The bidder should have service after sales facility in India, able to attend the emergency breakdown services at BHEL, TRICHY within 2 working days from the date of intimation of breakdown.		
3.2	Inspection: a. The equipment and accessories mentioned in scope of supply shall be offered for inspection by BHEL engineer and the performance prove out and trials will be conducted at BHEL works for acceptance and commissioning.		
3.3	Installation and commissioning: The supplier shall be responsible for a. Installation and commissioning of the system at BHEL, Trichy to prove out the system with respect to all functions of the system. b. Providing training to BHEL engineers, technicians on the operation and maintenance aspects of the system for a period not less than 2 days, excluding the time required for Installation and commissioning. c. Three sets of operating manual and system maintenance manual shall be supplied along with the equipment, both as a hard copy and softcopy.		

3.4	Warranty: The manufacturer shall give warranty for satisfactory operation of the equipment for a period of 12 months from the date of commissioning of the equipment.		
3.5	Spares : a. The spares required for trouble free satisfactory functioning of the equipment for a period of 2 years shall be quoted with the equipment. Details of spares shall be listed in the tender document. b. The spares and accessories support for the proposed model of equipment shall be ensured by the supplier/dealer for a period of 10 years.		Supplier to specify
3.6	Annual maintenance: After completion of warranty period, the supplier shall render service support through annual maintenance contract (AMC) for maintenance of the system for which item wise payment shall be quoted separately (in separate cover) in detail along with the tender.		
3.7	Safety and quality standards: Supplier shall ensure that the safety and quality of the equipment and accessories mentioned in scope of supply shall conform to international standard. Conformance certificate shall be supplied with the equipment.		Supplier to specify
3.8	Packing and delivery : Packing and delivery of the total equipment from manufacturer's place to BHEL, Trichy in safe condition without any damage is under the responsibility of the supplier.		



An ISO 9001 Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli-620014, Tamil Nadu, India
MM/CAPITAL EQUIPMENT

MM/CE / EPROC/GENL/ 001-EMD

GENERAL GUIDELINES & INSTRUCTIONS TO BIDDERS FOR SUBMITTING OFFER

Vendors are requested to read the following points / guidelines / instructions and ensure that the offer is prepared and submitted strictly as per the requirements. Offers with insufficient details would not be considered for evaluation. The following points / guidelines / instructions are part and parcel of the tender and non-compliance will result in rejection of offer.

NOTE: MSE VENDORS MAY PLEASE REFER SL.NO.6 OF THIS DOCUMENT FOR THE SPECIAL PROVISIONS APPLICABLE TO THEM AS PER GOVERNMENT DIRECTIVES.

1.0 QUOTATIONS

This is an E-tender issued online through our E-Procurement Site <https://bheleps.buyjunction.in>. The Bidder shall respond by submitting their offer online in our e-Procurement platform at <https://bheleps.buyjunction.in> . Sealed cover bids / e-Mails / FAX / Manual offer will NOT be accepted.

The process of utilizing e-procurement necessitates usage of DSC (Digital Signature Certificate)(Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION) and you are requested to procure the same immediately, if not presently available with you. Please note that only with DSC, you will be able to login the e-procurement secured site and take part in the tendering process.

The contact details of the DSC Certifying Authority as given below:

1	e-Mudhra	http://www.e-Mudhra.com
2	GNFC	www.ncodesolutions.com
3	IDRBT	www.idrbtca.org.in
4	MTNL Trustline	www.mtnltrustline.com
5	NIC	www.safescrypt.com
6	Safescrypt	www.safescrypt.com
7	TCS	www.tcs-ca.tcs.co.in

Vendors interested to participate in this online tendering must contact the centralized helpdesk team at mjunction, Kolkata who is our Service Provider. Their helpdesk officers will provide the required assistance and guidance on the following:

Digital Signature Certificate (DSC)

- Procedure for Installation of DSC
- Registration of DSC with User ID of EPS portal

Submission of Bids online

- Procedure for viewing NIT through the portal
- Procedure for submission of bids online through the portal

The Contact details of our Service Provider is as below:-

M/s m Junction services Limited,

Kolkata Godrej Water Side, 3rd Floor, Tower-1, Plot-V, Block - DP

Sector - V, Salt Lake, Kolkata-700091, West Bengal, INDIA

Please get in touch with them immediately. The contact details of the service provider is given below:

SL	NAME	e-Mail ID	Mobile No	ROLE
1	DHANARAJ.P	p.dhanaraj@mjunction.in	(+91) 9500199108	CRM
2	HELP DESK	eps.customercare@mjunction.in	033-66106426/6217/6013/6046/6176 9163348283/9163348284/9163348285 /9163348286/8584008116	

Vendors can also refer to the instruction available under Help Desk Information available in the our E-Procurement Site <https://bheleps.buyjunction.in>.

1.1 TWO PART QUOTATION:

Considering the nature of procurement which requires a good amount of technical details, brochures, catalogues etc., are to be submitted along with the offer. As the part II (the price bid) would not be opened before the technical evaluation is completed, bidders are requested not to submit their bids through email / fax etc.

Bidders shall submit the offer in **TWO PARTS** as indicated below:

PART I - TECHNICAL AND UN-PRICED COMMERCIAL BID WITH PROOF FOR HAVING WIRE TRANSFERRED EMD AMOUNT

This Part should contain the bidder's offer against BHEL Technical Specification with supporting documents such as technical catalogue, brochures, drawings etc together with un-priced commercial bid.

The EMD amount as indicated in the enclosed compliance form shall be sent through wire transfer to the following Bank Details and a proof of the wire transfer shall be uploaded in Part I of the offer.

BHEL Bank Details to which the EMD amount is to be deposited:

BENEFICIARY: BHEL
ACCOUNT NO: 10891588977
SWIFT: SBININBB190
BANK: STATE BANK OF INDIA
BRANCH: HE / KAILASAPURAM
PLACE: TRICHIRAPPALLI, INDIA

Part II : PRICE BID

This part should contain price details with break-up relevant cost elements as required in our commercial compliance form.

The above tender should be submitted online on or before the due date by 14.00 Hrs (IST). Tenders received after 14.00 Hrs (IST) will not be considered for evaluation.

The bidder has to keep track of any changes by viewing the addendum / Corrigendum's issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.

The Bidder should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the processes and steps. BHEL and mjunction Services Ltd. will not be responsible for incomplete bid submission by users. Users may also note that the incomplete bids will not be saved by the system and are not available to the Purchaser/Buyer for processing.

Before uploading scanned documents if any, the bidders shall sign on all the statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity.

Tender should be free from **CORRECTION AND ERASURES**. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Tenders should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in **ENGLISH** or otherwise, the tenders will not be considered for evaluation.

Tenders will have to be submitted by the Original Equipment Manufacturer only. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/supplier in the same tender. Offers, if submitted by authorised agents/dealers of OEM/ Supplier should be accompanied by a VALID AUTHORISATION LETTER ISSUED BY THE OEM. Moreover, either the agent could bid on behalf of the manufacturer /supplier or the manufacturer/supplier could bid directly but not both. In case bids are received from both the manufacturer/supplier and the agent, bid received from the agent shall be ignored.

If the past performance of a vendor in any of the previous Purchase orders/contracts/in any projects, of BHEL Units, and NON-BHEL, is not satisfactory BHEL then reserves the full right to reject such offers of those vendors straightaway irrespective of their suitability and will not be considered for further processing of the tender.

2.0	PART I (TECHNICAL & UN-PRICED COMMERCIAL BID)
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2.1	Technical
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The documents uploaded in this part shall include / indicate the following:

2.1.1	Tenders should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.
2.1.2	Point by point confirmation for the Technical Specification enclosed is to be provided. If there are any deviations, the same should be clearly specified. Tenders received without confirmation to our specification will be rejected.
2.1.3	List of customers to whom same or similar equipment have been supplied along with performance certificates are to be enclosed.
2.1.4	Relevant catalogues to be attached
2.1.5	List of spares parts (with part numbers) for two years operation and maintenance should be attached.
2.1.6	Information on shipping weight and cubage (length, width & height) to be provided.

2.2	Un-Priced Commercial
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The documents uploaded in this part shall include / indicate the following:

2.2.1	Acceptance of commercial terms and conditions by the bidders (in the Compliance Form enclosed with the tender)
2.2.2	Port of shipment / Station of despatch
2.2.3	Terms of payment
2.2.4	CFR price (for foreign bidders) / F.O.R.BHEL works as required in the check list (attached with this Tender)
2.2.5	Taxes, Service tax & duties including cess applicable.
2.2.6	Delivery Schedule from the date of Purchase Order
2.2.7	Offer validity
2.2.8	Country of origin
2.2.9	Currency in which the price has been indicated.
2.2.10	Percentage of agency commission if any along with a copy of Agency agreement. The CFR prices quoted shall include the agency commission.
2.2.11	A copy of the Price Bid without the price details to be enclosed. (UNPRICED BID)

3.0	OPENING OF TENDERS
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PART I

- a) If the EMD is not submitted on the tender opening date, the offer is liable to be rejected.
- b) Technical & Un-priced commercial bid would be opened on the Tender opening/Due date.

PART II – The Technical Bid received (under Part I) would be evaluated and bidders qualifying alone will be considered for further processing. BHEL would proceed with Online Reverse Auction route or Online Price Bid opening route for finalizing the tender and the date of the same will be intimated by BHEL to the qualified bidders after completion of the techno-commercial evaluation.

BHEL reserves the right to go for a Reverse Auction (RA) instead of Opening the Price Bid submitted, which will be decided after the techno-commercial evaluation. Information and general terms and conditions governing RA are given below.

TERMS & CONDITIONS OF REVERSE AUCTION

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to “REVERSE AUCTION PROCEDURE” i.e., ONLINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed Reverse Auction, Technically and Commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit “online sealed bid” in the Reverse Auction. Non-submission of “online sealed bid” by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Reverse Auction Process Compliance Form provided before RA along with Business Rules by the Service Provider. This Compliance Form shall be sent to the Service Provider well before the Reverse Auction in order to get the Log in ID and Password for participating in the RA. Without the submission of Reverse Auction Process Compliance Form, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g. EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for noncompliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.

10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, as provided on case-to-case basis to Service provider within two working days of Auction without fail.

11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.

12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before Reverse Auction event. Bidders should acquaint themselves of the "Business Rules of Reverse Auction", which will be communicated before the Reverse Auction.

13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.

14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.

15. In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

4.0	DEFINITIONS & OTHER TERMS
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Fixed price: Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non-responsive and rejected. Prices shall be written in words and figures. In the event of difference, the price written in words shall be valid and binding.

Bid currency: Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit the bid in their home currency, which should be clearly indicated in the un-priced commercial bid as well as in the price bid.

Taxes and Duties: All Taxes, Duties, Service Taxes etc. payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which BHEL will not be liable for payment of such Taxes and Duties. Our TIN No. , CST No. BHEL ECC No. IE Code and Assessment circle for the particular BHEL Unit will be notified at the time of ordering.

In case taxes and duties are indicated as inclusive in the quoted prices, it will be reimbursed only upon furnishing the documentary evidence for having paid such taxes and duties. Any difference in taxes (on account of reduction in the levies) between what has been paid by BHEL to the vendor (based on what has been indicated in the Purchase Order) and actually paid by vendor should be passed on to BHEL.

For services rendered by the foreign vendor in India (like Erection & Commissioning supervision etc.) Income Tax (IT) shall become payable by the Foreign vendor. Hence, Foreign bidders are requested to take care of the IT payment during submission of tender.

If the foreign vendor possesses Indian PAN CARD (Permanent Account Number) Registration, the details of the same shall be furnished along with the Un-priced Bid cover (Part-II) with documentary evidences (PANCARD copy) for Income Tax purposes (concessions).

Cenvat & VAT credit: (applicable for Indian Bidders only) the quotation must indicate Tariff item number and rate of Excise Duty applicable. The original Excise Duty Gate Pass will be required to be furnished in case Excise Duty is applicable. If the bidder is availing Cenvat credit for his input materials, the effect of proforma credit should be passed on to BHEL.

Packing: The Supplier shall arrange for packing suitably in all respects considering the peculiarity of the material involved for normal safe transport by sea / air / rail / road and suitably protected against effect of tropical salt laden atmosphere in the event of shipment being delayed at ports.

Salient points of HSE (Health Safety & Environment) that are to be considered while submission of offer are:

- Consumption benchmarks related to output shall be provided wherever applicable for key input resources (energy/fuel/chemicals)
- Competency requirements for operation, maintenance and calibration, if any, shall be communicated
- If any hazardous chemicals as per MSIHC (Manufacturing, Storage and import of such Hazardous Chemicals) Rules 1989/94/2000 are used, the MSDS shall be provided along with On site & Off site emergency plan (as applicable)
- The noise level at operator level shall be within 80 dBA
- OH&S (Occupational Health and Safety) control measures for safe working of machine as applicable shall be specified.
- The machine / equipment shall be fitted with guard for rolling and moving parts and shall comply with applicable OH&S legislations and Factories Act 1948
- The supplier shall submit the layout drawing of operating controls, displays etc. Along with operating instructions to enable ergonomics evaluation and approval.
- The recommended list of PPE (Personal Protective Equipment) for the equipment shall be furnished.
- Alarm system (both visual and audible) and Automatic switch off of the equipment shall be provided for any intrusion, overloading, short circuiting or any malfunctioning of the equipment.
- Details of all hazardous / harmful substances discharged as by-products / wastes during operations of the machine / equipment, such as fumes, gases, dust particles, aerosols UV/IR (Ultra violet / infra red) radiations etc., shall be furnished along with their concentrations and their TLV, (Threshold Limit Value).
- Appropriate pollution control measures shall be proposed to keep the emissions from the machinery / processes within the prescribed limit as stated in Environment Protection Rules 1986.
- All furnaces, process units, DG sets, paint booths, shot blasting chambers, etc. shall be provided with stack(s) of sufficient height as per guidelines laid down in the Environment Protection Rules 1986.
- Wherever industry specific standards are not available for control of pollutants, general emission standards shall be used.
- Chemicals banned due to their negative impact on the environment shall not be used in the process.
- Fuels with sulphur content less than 0.05% shall be proposed.
- Details regarding nature of waste generated and appropriate disposal practices available shall be provided, along with the operation procedure of the plant / process.

Hazardous chemicals and flammable substances shall be transported only through authorized transporters and all safety practices as laid down in applicable legislative requirements such as Central Motor Vehicle Rules, Manufacture, Storage and Import of Hazardous Chemical 1989, etc. shall be followed

- Primary materials used in the equipment shall be specified and they shall be eco-friendly

Force Majeure clause:

If at any time during the continuance of the contract the performance in whole or in part by either party of any obligations under the contract is prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) and notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof then neither party shall by reason of such events be entitled to terminate the contract. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason of occurrence of such events, then claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser the particulars of the events, if required with supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries.

Agency agreement from foreign suppliers for their Indian agents:

Based on Ministry of Finance vide circular dated 31/01/1989 the following are compulsory:

- Registration of Indian agents of a foreign supplier.
- Precise relationship between foreign suppliers and their Indian agents and their mutual interest in the business, should be clearly spelt out.
- Any payment, which the agent receives in India or abroad, from the foreign supplier, whether as a commission or as a general retainer fee, also needs to be brought on record and made explicit so as to ensure compliance to tax laws and to prevent leakage of foreign exchange.
- All services to be rendered by the agent, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier and the Indian agent.
- The amount of agency commission agreed to between the foreign principal and the Indian agent should be specifically disclosed and the agency commission will be paid in Indian Rupees only.
- A copy of the Agency Agreement with the above details shall be provided.

Short shipment / Warrantee replacement:

In case of any short-shipment during initially supply, subsequently dispatched by the supplier or any warrantee replacement dispatched during the warrantee period shall be dispatched on “DDP – Delivered Duty Paid BHEL Stores” basis for foreign suppliers and “FOR BHEL Stores” basis for Indian suppliers.

Inspection & Testing: All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL Stores. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch. However, final inspection and acceptance of the machine will be carried after installation of the machine BHEL.

Tenders will have to be submitted by the Original Equipment Manufacturers only and the offered equipment shall be “New”. Offers for Re-built / Re-conditioned / Used equipments will not be accepted. Incomplete offers will not be considered for evaluation.

Evaluation of offers shall be on “Net Cash Outflow to BHEL basis”.

BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / Units.

BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.

The correspondence exchanged against the tender between the bidder and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.

Any transaction / communication pertaining to the tender carried out by the bidder and BHEL round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

In case Letter of Intent (LoI) is issued through email, the computer generated time and date of mail shall be construed as the official time and date of release of LoI. In as much as this date is within the last date of validity given by the bidder the LoI is said to have been issued within the validity period and shall be binding on both the parties to the business.

Bidders participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing enquiries even if participated till the hold is officially lifted and confirmed in writing.

6.0	<u>SPECIAL PROVISIONS APPLICABLE FOR MSE VENDORS</u>
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In line with the Gazette Notification issued by Ministry of Micro, Small and Medium Enterprises on MSE suppliers 20% of the tendered quantity is earmarked for MSE suppliers. Out of the 20% tendered quantity earmarked for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC / ST entrepreneurs.

In case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1

price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either

1. EM II certificate having deemed validity (two years from the date of issue of acknowledgement in EM II) or
2. Valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits as per the act for relevant status (MICRO or SMALL) where the deemed validity of EM II is over.

Date to be reckoned for determining the deemed validity will be the last date of technical bid submission (Part 1 in case of two part bid.)

Non submission of such documents will lead to consideration of their bid at par with other bidders and MSE status of such suppliers shall be shifted to NON MSE suppliers till the supplier submit this documents. Documents should be notarized or attested by a Gazetted officer.

Definitions of MSEs owned by SC / ST is under:

- In case of proprietorship firm, proprietor must be SC/ST.
- In case of partnership firm, the SC / ST partners must be holding at least 51% shares in the unit.
- In case of private limited companies, at least 51% share must be held by SC/ST promoters.

Authorized Offices to issue SC/ST certificate.

The caste / Tribe / Community certificate issued by the following authorities in the prescribed form for SCs / STs can be considered.

- District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / 1st Class stipendary magistrate / Sub Divisional Magistrate / Taulka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
- Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
- Revenue Officer not below the rank of thasildar.
- Sub-Divisional officer of the area where the individual and / or his family normally resides.

To avail the benefits of MSE under SC/ST category, the related documents as stated above should be submitted along with tender documents.

7.0	<u>FRAUD PREVENTION POLICY:</u>
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The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice"

CHECK LIST NO: IND/02A	
BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI	
CAPITAL EQUIPMENT /MATERIALS MANAGEMENT	
<u>COMPLIANCE FORM FOR ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY INDIGENOUS VENDORS</u>	
(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, the offer is liable for rejection)	
(TENDER REQUIRING EMD, CEBG and PBG)	
Description of the Equipment: Enq. Sl.No.10 Digital Ultrasonic Flaw Detector with accessories (01 No) & Enq. Sl.No.20 Digital Ultrasonic Flaw Detector (03 Nos.)	
BHEL Tender No. & Date: 2631600040 dt.29.07.2016	
PART I of Tender: EMD/SWIFT message Copy + Technical Bid + Unpriced Bid + this check list	
PART II of Tender: Price Bid	
ENQUIRY TERMS & CONDITIONS	Vendor's Confirmation
1.0 PRICE BID:	
Price Bid should contain the schedule of price particulars and to be co-related to the technical details provided in Part I. Techno-commercial bid alone without the Price Bid will be rejected. The prices contracted shall be firm till the execution of the contract in full and in all respects.	Accepted
The bidder has to quote charges for 'Supply' and 'Erection & Commissioning' separately. The evaluation of tender shall be on the basis of "NET CASH OUTFLOW VALUE (total cost to BHEL).	
2.0 VALIDITY:	
Validity of the offer should be 120 days from the date of tender opening. BHEL reserves the right not to consider offers from vendors with validity less than 120 days from the date of tender opening.	Accepted
3.0 EARNEST MONEY DEPOSIT (EMD):	
In Order to ensure that the successful bidder / vendor does not refuse to execute the Order, after award of the same on him, each bidder / vendor will be required to furnish Earnest Money Deposit (EMD) along with their tender. EMD by the Tenderer will be forfeited as per Tender Documents if, after opening the tender, the Tenderer on his own makes variation in his earlier quoted rates or revokes/change any other condition of his tender within the validity period.	Accepted
Bidders can remit their EMD amount through SWIFT to BHEL Bank Account and the copy of the SWIFT CONFIRMATION MESSAGE shall be uploaded along with Part – I of tender.: BENEFICIARY: BHEL ACCOUNT NO: 10891588977 SWIFT: SBININBB190 BANK: STATE BANK OF INDIA BRANCH: HE / KAILASAPURAM PLACE: TRICHIRAPPALLI, INDIA	
EMD is to be submitted in cash (as permissible under Income Tax Act), Pay Order or Demand Draft only.	
3.1 RETURNING OF EMD:	
EMD given by all unsuccessful Tenderer shall be refunded on award of LOI/PO on successful Tenderer. The EMD of successful bidder shall be returned after submission of CEBG. EMD shall not carry any interest.	Accepted
3.2 The EMD amount for this Tender will be (INR) :	1,00,000
4.0 RELEASE OF PURCHASE ORDER:	
Purchase Orders will be released separately for supply and service portion on the successful vendor.	Accepted
5.0 PAYMENT TERMS:	
For SUPPLY P.O.: 80% payment of Supply P.O. value shall be made within 45 days from the date of receipt of material at BHEL. For BALANCE OF SUPPLY P.O. & SERVICE P.O. Balance 20% of Supply value plus 100% of the E&C portion of PO value will be paid against Final Minutes of Meeting for E&C, jointly signed by BHEL and Supplier and submission of Performance Bank Guarantee (PBG)	

5.1	Bank Guarantee and Loading against non acceptance of BHEL's Payment Terms:	
	If any Bidder requires a payment exceeding 80% of the PO value, such bidder have to submit Advance Bank Guarantee (ABG) in the prescribed Format for the amount over and above 80% but restricted to 90% of the PO value, along with the invoice / despatch documents. This ABG shall be valid up to the date of Final Minutes of Meeting for E&C for the equipment. Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, the following loading pattern shall be followed: Base Rate of SBI as applicable on the scheduled date of tender opening + 6%, for the amount & period of relaxation sought by bidder.	Accepted
6.0	Value for Erection & Commissioning at BHEL:	
	Erection & Commissioning (E&C) value will include services to be rendered at BHEL like erection, commissioning, job proving, training to operators, supervising foundation work etc. (to be together called as E&C). E&C is in the scope of supplier, and hence the E&C value should be quoted separately.	Accepted
	E&C value should be quoted separately by Bidders. Only in case where quoted value is less than the minimum value indicated below or separate E&C values are not mentioned in the offer, value for E&C portion shall be deemed to be considered as the value indicated below and accordingly supply value will be adjusted from that quoted value and the balance will be released as E&C payment. The bidder, however, can choose to quote the E&C value higher than the below mentioned minimum E&C value (%) and suitably apportion the supply value.	Accepted
	MINIMUM VALUE FOR ERECTION & COMMISSIONING in %	
	FOR ENQUIRY SL.NO.10	3.00
	FOR ENQUIRY SL.NO.20	3.00
	COST OF ERECTION & COMMISSIONING PORTION QUOTED BY VENDOR (%) - (Should be equal to or more than ---> 3%)	
	FOR ENQUIRY SL.NO.10	
	FOR ENQUIRY SL.NO.20	
	In case of non-acceptance to split the cost of the equipment into supply portion and E&C portion, then the Payment of 80% against supply will be reduced to (%)	77.00
	In such cases, the balance amount (%) payable after commissioning	23.00
7.0	Taxes & Duties:	
	All Taxes, Duties, Service Taxes etc. payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which BHEL will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 & BHEL ECC No. AAACB4146PXM012, Assessment circle Tiruverambur In case taxes and duties are indicated as inclusive in the quoted prices, it will be reimbursed only upon furnishing the documentary evidence for having paid such taxes and duties. Any difference in taxes (on account of reduction in the levies) between what has been paid by BHEL to the vendor (based on what has been indicated in the Purchase Order) and actually paid by vendor should be passed on to BHEL.	Accepted
8.0	Delivery terms, Delivery period required and evaluation process:	
8.1	Delivery terms: F.O.R BHEL, Trichy-14.	Accepted
	Basis of Delivery Terms :	
	Price break-up details like Basic price, P&F, Taxes & Duties, Freight and Insurance etc., should be indicated in the offer.	Accepted
8.2	Delivery period: The equipment enquired forms a part of an expansion program (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date. Vendor shall comply with this required period.	
	Bidder should quote time period separately for 'Supply' and 'E&C' of equipment.	
	(a) Supply period :- For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., time period required for dispatch (LWB date) from the date of Purchase Order in the "Vendor's confirmation" below. Order acceptance, submission of CEBG, drawings etc., should not be linked to the delivery period.	Accepted
	DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)	
	FOR ENQUIRY SL.NO.10	3 months
	FOR ENQUIRY SL.NO.20	3 months
	DELIVERY PERIOD (in months) OFFERED BY VENDOR (SUPPLY PORTION)	
	FOR ENQUIRY SL.NO.10	
	FOR ENQUIRY SL.NO.20	
	(b) E&C period :- Duration shall be counted from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.	

	E & C PERIOD (in weeks) REQUIRED BY BHEL (E & C PORTION)	
	FOR ENQUIRY SL.NO.10	2 weeks
	FOR ENQUIRY SL.NO.20	2 weeks
	E & C PERIOD OFFERED BY VENDOR (E & C PORTION)	
	FOR ENQUIRY SL.NO.10	
	FOR ENQUIRY SL.NO.20	
	However, while evaluating the offers, those offers which are not conforming the requested delivery period, COMMERCIAL LOADING @ ½% of the purchase order value per week will be done for the EXTRA PERIOD requested. For evaluation purpose 4 weeks will be considered as one month. Commercial loading on the offered price will be done during evaluation of the offers	Accepted
	BHEL reserves the right to accept an offer not meeting the NIT delivery. However based on the scheme requirement, the Technically Suitable offerers would be requested to reduce their offered delivery schedule and in case if it is not meeting BHEL requirement or maximum limit considered by the Technical Committee, the offer may become liable for rejection.	Accepted
9.0	CONTRACT EXECUTION BANK GUARANTEE (CEBG):	
	The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value (Supply + E&C) in the format enclosed within 30 days from the date of PO but before L/C opening. If the supplier fails to submit the CEBG within 60 days from the date of PO, BHEL reserves the right to cancel PO and forfeit the EMD given by the supplier. Additionally, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers. Validity of CEBG shall be till the completion of Erection & Commissioning of equipment including job proving, performance tests etc. i.e. issue of Final Minutes of Meeting for E&C by BHEL, as prescribed in PO with additional 2 months as claim period.	Accepted
	CEBG shall be kept valid till the PBG becomes operational. i.e. up to 30 days after the date of Final Minutes of Meeting for E&C issued by BHEL	
	Validity of CEBG = Delivery period + Transit time of 1 month + Commissioning 3 months + 1 month (for arranging PBG) + 2 months for claim period	
10.0	PERFORMANCE BANK GUARANTEE (PBG):	
	The vendor shall submit a Performance Bank Guarantee (PBG) for 10% of the Purchase Order value in the format enclosed covering the agreed Guarantee period (with additional 2 months as claim period).	Accepted
	The Bank Guarantees (CEBG & PBG) shall be issued exactly as per the BHEL Format attached with this Tender (without any deviation) by any one of the Consortium Banks of BHEL (List Enclosed) or from a reputed Bank and confirmed by any Consortium Bank of BHEL.	
	All bank charges incurred on account of issuance of CEBG and PBG will have to be borne by the vendor.	Accepted
	1) It should be typed in the INR 100 value of stamp paper.	
	(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.	
	(3) It should be submitted with bank covering letter with sign and seal of the bank official.	
	Offers from vendors not accepting to submit CEBG and PBG are liable for rejection.	
11.0	LIQUIDATED DAMAGES (LD):	
	a) LD for delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&C'. The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C). The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).	
	Maximum LD for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply + E&C).	
	In case PO includes more than one machine, the LD will be levied @ 0.5% per week of delay on PO value (Supply + E&C) for each individual machine.	
	b) For the purpose of LD for delay E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site. c) Loading on account of non-acceptance of LD for delayed Supply and/or E&C shall be as under: In case any bidder is not accepting the above LD for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.	Accepted
	d) Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.	
	For the purpose of levying LD, the date of shipment (LWB date) will be considered.	
	Loading Factor for non-acceptance of LD clause for delayed Supply and/or E&C: In case any bidder is not accepting the above LD clause for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder .	

12.0	SHORT SUPPLY / WARRANTY REPLACEMENT:	
	In case, any shortage is noticed vis-a-vis PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on FOR destination basis without any cost implication to BHEL for such short supplies shall be borne by the supplier. Warranty Replacements during Guarantee period at supplier's cost on FOR BHEL Works basis.	Accepted
13.0	RISK PURCHASE:	
	If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the supplier either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order. BHEL reserves the right not to consider offers from vendors not accepting the above Risk Purchase terms.	Accepted
14.0	GUARANTEE:	
	Vendors shall provide a guarantee for 12 months from the date of commissioning of the equipment or 18 months from the date of supply, whichever is earlier. The date of LWB shall be taken as the date of supply. Offers from vendors not accepting to the requested guarantee period are liable for rejection.	Accepted
15.0	REVERSE AUCTION (RA):	
	BHEL reserves their right to conduct on-line internet Reverse Auction for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA have been given in the 'General guidelines & instructions to bidders' enclosed as a part of NIT. Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry. BHEL reserves the right not to consider offers from vendors not accepting to the RA process for finalization of the enquiry.	Accepted
16.0	CONTACTS:	
	Details of contact person's name, designation, department with complete postal and email address along with phone and fax numbers to be mentioned	
	Name:	
	Designation:	
	Email ID:	
	Phone No.:	
	Mobile No.	
	Fax No.:	
	Address:	
	Weight & Cubage of package:	
	Approximate Net weight of the total consignment:	
	Approximate Gross weight of the total consignment:	
	Approximate volume of the total consignment:	
	The vendor to provide Business Information Report (BIR) incorporating the rating of the company by international credit rating agencies, viz., DUNS number of M/s DUN & Bradstreet (D&B) etc. The vendor to provide Audited Balance Sheet & Annual Report signed by the Auditors (or) Bank Credit Statement signed by the Bankers for past consecutive four years (eg. 2010 - 11, 2011 - 12, 2012 - 13, 2013 - 14) from the date of tender opening.	
	We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the NIT / Enquiry and confirm that our offer has been made in line with the same and the confirmations given in the above checklist supercede any other standard information provided in our quotation.	
	Signature with date: (AFFIX OFFICIAL SEAL HERE)	
	Name:	
	(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)	

COMPLIANCE FORM No : IMP/02		
BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI		
CAPITAL EQUIPMENT /MATERIALS MANAGEMENT		
<u>COMPLIANCE FORM FOR ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY FOREIGN VENDORS</u>		
(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this (TENDER REQUIRING EMD, CEBG and PBG)		
Description of the Equipment: Enq. Sl.No.10 Digital Ultrasonic Flaw Detector with accessories (01 No) & Enq. Sl.No.20 Digital Ultrasonic Flaw Detector (03 Nos.)		
BHEL Tender No. & Date: 2631600040 dt.29.07.2016		
PART I of Tender: EMD/SWIFT message Copy + Technical Bid + Unpriced Bid + this Compliance Form		
PART II of Tender: Price Bid		
	ENQUIRY TERMS & CONDITIONS	Vendor's Confirmation
1.0	PRICE BID:	
	Price Bid should contain the schedule of price particulars and to be co-related to the technical details provided in Part I. Techno-commercial bid alone without the Price Bid will be rejected. The prices contracted shall be firm till the execution of the contract in full and in all respects.	Accepted
	The bidder has to quote charges for 'Supply' and 'Erection & Commissioning' separately. The evaluation of tender shall be on the basis of "NET CASH OUTFLOW VALUE (total cost to BHEL). For evaluation, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part - I in case of Two Part Bid) shall be considered.	
2.0	CURRENCY OF PAYMENT:	
	Foreign vendors to indicate the currency like Euro (€) / US\$ / GBP / JY etc. in the confirmation column. In case the foreign vendor sources some components from India for direct supply to BHEL, the payment for those components shall only be in Indian Rupees	
3.0	VALIDITY:	
	Validity of the offer should be 120 days from the date of tender opening. BHEL reserves the right not to consider offers from vendors with validity less than 120 days from the date of tender opening.	Accepted
4.0	EARNEST MONEY DEPOSIT (EMD):	
	In Order to ensure that the successful bidder / vendor does not refuse to execute the Order, after award of the same on him, each bidder / vendor will be required to furnish Earnest Money Deposit (EMD) along with their tender. EMD by the Tenderer will be forfeited as per Tender Documents if, after opening the tender, the Tenderer on his own makes variation in his earlier quoted rates or revokes/change any other condition of his tender within the validity period.	Accepted
	EMD is to be submitted in cash (as permissible under Income Tax Act), Pay Order or Demand Draft only. In case of foreign bidders EMD amount shall be submitted through their Indian agent or through e-payment (as per the details given below).	
	Foreign Bidders can remit their EMD amount through SWIFT to BHEL Bank Account and the copy of the SWIFT CONFIRMATION MESSAGE shall be uploaded along with Part – I of tender. BHEL Bank Details: BENEFICIARY: BHEL ACCOUNT NO: 10891588977 SWIFT: SBININBB190 BANK: STATE BANK OF INDIA BRANCH: HE / KAILASAPURAM PLACE: TRICHIRAPPALLI, INDIA	
4.1	RETURNING OF EMD:	

	EMD given by all unsuccessful Tenderer shall be refunded on award of LOI/PO on successful Tenderer. The EMD of successful bidder shall be returned after submission of CEBG. EMD shall not carry any interest.	Accepted
4.2	The EMD amount for this Tender will be (INR) :	1,00,000
5.0	RELEASE OF PURCHASE ORDER:	
	Purchase Orders will be released separately for supply and service portion on the successful vendor.	Accepted
6.0	PAYMENT TERMS:	
	For SUPPLY P.O. Where the payments are through L/C (LC opening charges will be loaded while comparing the offers), Payment of Supply value shall be 80% on dispatch and 20% on issue of E&C Certificate. Payment of E&C value shall be made against Final Minutes of Meeting for E&C issued by BHEL. Final Minutes of Meeting for E&C shall be issued on satisfactory completion of erection, commissioning, job proving, performance tests, training to operators etc as envisaged in PO. The L/C shall be opened as per following:	
	An Irrevocable Unconfirmed L/C will be opened for 80% of the payment towards supply, due for shipment, only if the following conditions are met with:	
	i. After receipt of CEBG (as detailed under CEBG clause) ii. Not earlier than 60 days before the shipment date, iii. <u>Only after BHEL receiving the Pre-dispatch Inspection call / intimation of readiness of the ordered items, from the supplier,</u>	
	The above L/C can be negotiated after shipment against submission of B/L or AWB and other documents as mentioned in the Purchase Order. The above L/C will be valid for a maximum period extending 21 days beyond the shipment date for negotiation of documents based on the transit time required.	
	For BALANCE OF SUPPLY P.O. & SERVICE P.O. 15 days prior to the scheduled & confirmed arrival of the technicians of Supplier with their names, an irrevocable unconfirmed L/C will be opened for a value equal to 20% of the Supply value of PO and another LC for 100% of the E&C value of PO. The validity of L/C would be sufficient to cover the period required for the completion of E&C.	
	This L/C can be negotiated after completion of E&C of the equipment in BHEL and A) Submission of Final Minutes of Meeting for E&C, jointly signed by BHEL and Supplier and (b) Submission of Performance Bank Guarantee (PBG) by Supplier.	
6.1	Bank Guarantee and Loading against non acceptance of BHEL's Payment Terms:	
	If any Bidder requires a payment exceeding 80% of the PO value, such bidder have to submit Advance Bank Guarantee (ABG) in the prescribed Format for the amount over and above 80% but restricted to 90% of the PO value, along with the invoice / despatch documents. This ABG shall be valid up to the date of Final Minutes of Meeting for E&C for the equipment. Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, the following loading pattern shall be followed: Base Rate (BPLR) of SBI as applicable on the scheduled date of tender opening + 6%, for the amount & period of relaxation sought by bidder.	Accepted
7.0	Value for Erection & Commissioning at BHEL:	
	Erection & Commissioning (E&C) value will include services to be rendered at BHEL like erection, commissioning, job proving, training to operators, supervising foundation work etc. (to be together called as E&C). E&C is in the scope of supplier, and hence the E&C value should be quoted separately.	Accepted
	E&C value should be quoted separately by Bidders. Only in case where quoted value is less than the minimum value indicated below or separate E&C values are not mentioned in the offer, value for E&C portion shall be deemed to be considered as the value indicated below and accordingly supply value will be adjusted from that quoted value and the balance will be released as E&C payment. The bidder, however, can choose to quote the E&C value higher than the below mentioned minimum E&C value (%) and suitably apportion the supply value.	
	MINIMUM VALUE FOR ERECTION & COMMISSIONING in %	
	FOR ENQUIRY SL.NO.10	3.00

	FOR ENQUIRY SL.NO.20	3.00
	COST OF ERECTION & COMMISSIONING PORTION QUOTED BY VENDOR (%) - (Should be equal to or more than ---> 3%)	
	FOR ENQUIRY SL.NO.10	
	FOR ENQUIRY SL.NO.20	
	In case of non-acceptance to split the cost of the equipment into supply portion and E&C portion, then the Payment of 80% against supply will be reduced to (%)	77.00
	In such cases, the balance amount (%) payable after commissioning	23.00
8.0	Taxes & Duties:	
	All Taxes, Duties etc. as required to be paid in the country of export shall be included in the price quoted by the foreign vendor. All duties (like customs duty etc.) payable in India will be paid by BHEL (however, the same would be loaded to the offer during the evaluation process). For the supplies made from India taxes & duties payable shall be clearly mentioned in the offer, failing which such taxes and duties shall have to be borne by the vendor.	Accepted
9.0	Income Tax applicable.	
	Any service charges payable towards supervision of E&C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. The TDS certificate will be issued after 3 months from the date of E&C payment.	Accepted
9.1	Details of valid Indian PERMANENT ACCOUNT NUMBER (PAN) of the company, if registered may be provided in the space given below: (in addition a copy of the PAN CARD shall be attached along with Part I Techno Commercial bid)	
10.0	Delivery terms, delivery period required and evaluation process:	
10.1	Delivery terms: CFR Chennai Seaport / Airport - Incoterms 2010	Accepted
	Basis of Delivery Terms :	
	Price break-up details like FOB price, ocean freight/air freight etc., should be indicated in the offer. The transfer of title of the goods supplied by the vendor takes place in line with INCOTERMS 2010.	Accepted
10.2	Delivery period: The equipment enquired forms a part of an expansion program (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date. Vendor shall comply with this required period.	
	Bidder should quote time period separately for 'Supply' and 'E&C' of equipment.	
	(a) Supply period :- For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., time period required for dispatch (B/L or AWB date) from the date of Purchase Order in the "Vendor's confirmation" below. Order acceptance, submission of CEBG, drawings etc., should not be linked to the delivery period.	Accepted
	DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)	
	FOR ENQUIRY SL.NO.10	3
	FOR ENQUIRY SL.NO.20	3
	DELIVERY PERIOD (in months) OFFERED BY VENDOR (SUPPLY PORTION)	
	FOR ENQUIRY SL.NO.10	
	FOR ENQUIRY SL.NO.20	
	(b) E&C period :- Duration shall be counted from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.	
	E & C PERIOD (in weeks) REQUIRED BY BHEL (E & C PORTION)	
	FOR ENQUIRY SL.NO.10	2 weeks
	FOR ENQUIRY SL.NO.20	2 weeks
	E & C PERIOD OFFERED BY VENDOR (E & C PORTION)	
	FOR ENQUIRY SL.NO.10	
	FOR ENQUIRY SL.NO.20	

	However, while evaluating the offers, those offers which are not conforming the requested delivery and commissioning period, COMMERCIAL LOADING @ ½% of the purchase order value per week will be done for the EXTRA PERIOD requested. For evaluation purpose 4 weeks will be considered as one month. Commercial loading on the offered price will be done during evaluation of the offers	Accepted
	BHEL reserves the right to accept an offer not meeting the NIT delivery. However based on the scheme requirement, the Technically Suitable offerers would be requested to reduce their offered delivery schedule and in case if it is not meeting BHEL requirement or maximum limit considered by the Technical Committee, the offer may become liable for rejection.	Accepted
11.0	CONTRACT EXECUTION BANK GUARANTEE (CEBG):	
	The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value (Supply + E&C) in the format enclosed within 30 days from the date of PO but before L/C opening. If the supplier fails to submit the CEBG within 60 days from the date of PO, BHEL reserves the right to cancel PO and forfeit the EMD given by the supplier. Additionally, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers. Validity of CEBG shall be till the completion of Erection & Commissioning of equipment including job proving, performance tests etc. i.e. issue of Final Minutes of Meeting for E&C by BHEL, as prescribed in PO with additional 2 months as claim period.	Accepted
	CEBG shall be kept valid till the PBG becomes operational. i.e. up to 30 days after the date of Final Minutes of Meeting for E&C issued by BHEL	
	Validity of CEBG = Delivery period + Transit time of 2 months + Commissioning 1 months + 1 month (for arranging PBG) + 2 months for claim period	
12.0	PERFORMANCE BANK GUARANTEE (PBG):	
	The vendor shall submit a Performance Bank Guarantee (PBG) for 10% of the Purchase Order value in the format enclosed covering the agreed Guarantee period (with additional 2 months as claim period).	Accepted
	The Bank Guarantees (CEBG & PBG) shall be issued exactly as per the BHEL Format attached with this Tender (without any deviation) by any one of the Consortium Banks of BHEL (List Enclosed) or from a reputed Bank and confirmed by any Consortium Bank of BHEL.	
	All bank charges incurred in India and outside India on account of issuance of CEBG and PBG will have to be borne by the foreign vendor.	
	1) It should be typed in the INR 100 value of stamp paper.	
	(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.	
	(3) It should be submitted with bank covering letter with sign and seal of the bank official.	
	Offers from vendors not accepting to submit CEBG and PBG are liable for rejection.	
13.0	LIQUIDATED DAMAGES (LD):	
	a) LD for delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&C'. The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in supply subject to a maximum of 10% of total PO value (Supply + E&C). The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).	
	Maximum LD for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply + E&C).	
	In case PO includes more than one machine, the LD will be levied @ 0.5% per week of delay on PO value (Supply + E&C) for each individual machine.	

	b) For the purpose of LD for delay E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site. c) Loading on account of non-acceptance of LD for delayed Supply and/or E&C shall be as under: In case any bidder is not accepting the above LD for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.	Accepted
	d) Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.	
	For the purpose of levying LD , the date of shipment (BL /AWB date) will be considered.	
	Loading Factor for non-acceptance of LD clause for delayed Supply and/or E&C: In case any bidder is not accepting the above LD clause for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder .	
14.0	SHORT SUPPLY / WARRANTY REPLACEMENT:	
	In case, any shortage is noticed vis-a-vis PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on DDP - Incoterms 2010 basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier. Warranty Replacements during Guarantee period at supplier's cost on DDP - Incoterms 2010 basis .	Accepted
15.0	RISK PURCHASE:	
	If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the supplier either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order. BHEL reserves the right not to consider offers from vendors not accepting the above Risk Purchase terms.	Accepted
16.0	GUARANTEE:	
	Vendors shall provide a guarantee for 12 months from the date of commissioning of the equipment or 18 months from the date of supply, whichever is earlier. The date of B/L or AWB shall be taken as the date of supply. Offers from vendors not accepting to the requested guarantee period are liable for rejection.	Accepted
17.0	REVERSE AUCTION (RA):	
	BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have necessarily submit 'online sealed bid' in the Reverse Auction. Non- submission of 'online sealed bid' by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue. BHEL reserves the right not to consider offers from vendors not accepting to the RA process for finalization of the enquiry.	Accepted
18.0	AGENCY COMMISSION	
	Vendors to specify the percentage agency commission payable to their Indian Agent in the vendor confirmation space given below. If agency commission is not applicable, vendor shall state that clearly in the space given below.	
	AGENCY COMMISSION : APPLICABLE (____ %) / NOT APPLICABLE	
	Particulars of Indian Agent (a copy of Agency agreement shall be enclosed. The CFR prices quoted shall include the agency commission) :	
19.0	CONTACTS:	

	Details of contact person's name, designation, department with complete postal and email address along with phone and fax numbers to be mentioned	
	Name:	
	Designation:	
	Email ID:	
	Phone No.:	
	Mobile No.	
	Fax No.:	
	Address:	
	Country of origin:	
	Port of loading:	
	Free Period for Container shipments:	
	Vendors should indicate the mode of shipment Viz. break-bulk basis or container basis. Vendors should ensure that shipping lines carrying their cargo will allow a minimum free period of 14 days from the date of berthing of the vessel for clearing the consignment at the discharge port in case shipments are made using containers.	Accepted
	Weight & Cubage of package:	
	Approximate Net weight of the total consignment:	
	Approximate Gross weight of the total consignment:	
	Approximate volume of the total consignment:	
	The vendor to provide Business Information Report (BIR) incorporating the rating of the company by international credit rating agencies, viz., DUNS number of M/s DUN & Bradstreet (D&B) etc.	
	We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the NIT and confirm that our offer has been made in line with the same and the confirmations given in the above Compliance Form supercede any other standard information provided in our quotation.	
	Signature with date: (AFFIX OFFICIAL SEAL HERE)	
	Name:	
	(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)	



An ISO 9001 Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli-620014, Tamil Nadu, India
MM/CAPITAL EQUIPMENT/MODERNISATION

ANNEXURE – G

CONTRACT EXECUTION BANK GUARANTEE BOND

This deed of guarantee made this day of 200. by the..... Bank Ltd, (hereinafter referred to as “the Bank”) in favour of Bharat Heavy Electricals Limited, Tiruchirappalli having its registered Office at New Delhi with its Unit Office at Tiruchirappalli where as M/s..... having its registered office at (hereafter called the “the Contractor”) have entered in to contract with Bharat Heavy Electricals Limited, Tiruchirappalli for the supply of vide Purchase Order No dated

1. We Bank Ltd, do hereby undertake to pay to Bharat Heavy Electricals Limited, Tiruchirappalli an amount not exceeding Rs..... against any loss or damage caused to or suffered or would be caused to or suffered by Bharat Heavy Electricals Limited, Tiruchirappalli by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order.

2. We, Bank Ltd, do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from Bharat Heavy Electricals Limited, Tiruchirappalli stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by Bharat Heavy Electricals Limited, Tiruchirappalli by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order or by reason of the Contractor's failure to perform the said Purchase Order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

3. We, Bank Ltd, further agree to the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of Bharat Heavy Electricals Limited, Tiruchirappalli under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till Bharat Heavy Electricals Limited, Tiruchirappalli certifies that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the we shall be discharged from all liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date the claim shall be enforceable **and Payable only by any one of the BHEL Consortium Banks in India (List is attached herewith)** notwithstanding the fact that the said enforcement is effected after the said date

For the purpose of this clause, any letter making demand on the Bank by Bharat Heavy Electricals Limited, Tiruchirappalli dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank (**any one of the BHEL Consortium Banks as per list attached as selected by the vendor**) shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and

when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the Bank personally.

4. We,.....Bank Ltd, further agree with Bharat Heavy Electricals Limited, Tiruchirappalli that Bharat Heavy Electricals Limited, Tiruchirappalli shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by Bharat Heavy Electricals Limited, Tiruchirappalli against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor or for any forbearance, act or omission on the part of Bharat Heavy Electricals Limited, Tiruchirappalli or any indulgence by Bharat Heavy Electricals Limited, Tiruchirappalli to the said Contractor or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

5. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.

We, Bank Ltd, lastly undertake not to revoke this guarantee during its currency except with the previous consent of Bharat Heavy Electricals Limited, Tiruchirappalli in writing.

In witness whereof we..... (indicate the name of Bank) have hereunto set out
Bank Seal the..... day month 200

The contact details of the Issuing Bank such as Email ID, Phone No. and Fax No. should be indicated in the CEBG. Also please note that the CEBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.

(1) It should be typed in the Rs. 100 value of stamp paper.

(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.

Please note that issuance of the CEBG without meeting the above requirement will render the document invalid.

The Bank Guarantee bonds (BG) are to be submitted on non-judicial stamp paper of Rs. 100/- and should be only from any one of the below mentioned Banks in India.

LIST OF CONSORTIUM BANKS IN INDIA

(as on 15.12.2011)

List of Consortium Bank			
	Nationalised Bank		Nationalised Bank
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign bank
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private bank
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC
15	State Bank of Travancore	30	Kotak Mahindra Bank
16	UCO Bank	31	ICICI
17	Union Bank of India	32	Indusind Bank
18	United Bank of India	33	Yes Bank

(1) It should be typed in the Rs. 100 value of stamp paper.

(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.



An ISO 9001 Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli-620014, Tamil Nadu, India
MM/CAPITAL EQUIPMENT/MODERNISATION

ANNEXURE – E

PERFORMANCE BANK GUARANTEE BOND

In accordance of M/s. Bharat Heavy Electricals Limited (A Government of India undertaking, a company incorporated under the Companies Act 1956 having its Registered Office at "BHEL House", SIRI Fort, New Delhi 110 049) through its High Pressure Boiler Plant Division located at Tiruverumbur, Tiruchirappalli- 620014 (hereinafter called 'the Company') having entered into a contract withhereinafter called 'the said Supplier and under the terms and conditions of the Purchase Order No..... Dt Between BHEL, Tiruchy and as per the Purchase Order, the Supplier is to furnish a performance Bank guarantee for Rs. for the due performance of the equipment to be supplied under the above referred Purchase Order and for the fulfilment of all the terms and conditions of the Purchase Order, We(indicate the name of the bank) (herein after referred to as the bank) at the request of (Supplier) do here by undertake to pay the Company an amount not exceeding Rs.....against any loss or damage caused to or suffered or would be caused to or suffered by the Company by reason of any breach by the said Supplier of any of the terms and conditions contained in the said Purchase Order.

2. We(indicate the name of the bank with full address), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Supplier of any of the terms and conditions contained in the said Purchase Order or by the reason of the Supplier's 'failure to perform' the said Purchase Order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

3. We undertake to pay unconditionally to the Company any money so demanded notwithstanding any dispute(s) raised by the Supplier in any suit, or proceedings pending before any Court or Tribunal or Arbitration or before any other authority relating thereto our liability under this present being absolute and unequivocal. The payment under this guarantee would not wait till the disputes have been decided by any Court or Tribunal or in the arbitration proceedings or by any other authority. The payment so made by us under this Bond shall be a valid discharge of liability for payment there under and the Supplier shall have no claim against us for making such payment.

4. We.....(indicate the name of Bank), further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till Office / Department / Division of the Company certify that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Supplier and accordingly discharge this guarantee.5. (i) Unless a demand or claim under this guarantee is made on us in writing on or before the we shall be discharged from all the liability under this guarantee

thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable **and Payable only by any one of the BHEL Consortium Banks in India (List is attached herewith** notwithstanding the fact that the said enforcement is effected after the said date.

(ii) For the purpose of this clause, any letter making demand on the Bank by BHEL dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank(**any one of the BHEL Consortium Banks as per list attached as selected by the vendor**) shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the Bank personally.

6. We(indicate the name of Bank), further agree with the Company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the said Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Supplier and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Supplier or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the said Supplier or by any such matter or thing whatsoever which under the law relating would, but for this provision, have effect of not so relieving us.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Supplier.

8. It shall not be necessary for the Company to proceed against the Supplier before proceeding against the guarantor--Bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the Company may have obtained or obtain from the Supplier shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealised.

9. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.

10. The guarantor hereby declare that it has power to execute this guarantee and the executants has full powers to do so on its behalf under the proper authorities granted to him/them by the guarantor.

11. We (indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing.

In witness whereof we..... (indicate the name of Bank) have hereunto setout Bank Seal the..... day month 200

The contact details of the Issuing Bank such as Email ID, Phone No. And Fax No. Should be indicated in the PBG Also please note that the PBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.

(1) It should be typed in the Rs. 100 value of stamp paper.

(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.

Please note that issuance of the PBG without meeting the above requirement will render the document invalid.

The Bank Guarantee bonds (BG) are to be submitted on non-judicial stamp paper of Rs. 100/- and should be only from any one of the below mentioned Banks in India.

LIST OF CONSORTIUM BANKS IN INDIA

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9	Oriental bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private bank
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
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18	United Bank of India	33	Yes Bank

(1) It should be typed in the Rs. 100 value of stamp paper.

(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.

Certificate by Chartered Accountant on letter head

This is to Certify that M/S.....
(hereinafter referred to as 'company') having its registered office at
..... is registered under MSMED Act 2006, (**Entrepreneur**
Memorandum No (Part-II) dtd:
Category: (Micro / Small)). (Copy enclosed).

Further verified from the Books at Accounts that the investment of the company as on
date.....as per MSMED Act 2006 is as follows:

1. **For manufacturing Enterprises: Investment in plant and machinery** (i.e. original Cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006:
Rs.....Lacs
2. **For Service Enterprises: Investment in equipment** (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act 2006.
Rs.....Lacs

The above Investment of Rs.....Lacs is within permissible limit of
Rs.....Lacs forMicro / Small (Strike off which is not
applicable) Category under MSMED Act 2006.

Date

(Signature)

Name -

Membership number -

Seal of Chartered Accountant