



ISO 9001:2008, 14001:2004,
50001:2011 & OHSAS 18000
MAHARATNA COMPANY

MATERIAL MANAGEMENT (PURCHASE)
CENTRAL FOUNDRY FORGE PLANT, BHEL HARDWAR
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MATERIAL DESCRIPTION (with terms & conditions)

Details of material as per following table:

Item SL No	Material Name	Description	Vendor has to confirm /comment (if any)
1	ULTRASONIC FLAW DETECTOR ALONG WITH ACCESSORIES AS PER SPEC. NO.: CFF/QC/19-20/UT R01 SPEC: CFF/QC/19- 20/UT R01	ULTRASONIC FLAW DETECTOR ALONG WITH ACCESSORIES AS PER SPEC. NO.: CFF/QC/19-20/UT R01 SPEC: CFF/QC/19-20/UT R01 (attached) QTY: 2 Nos Remarks:1. Guarantee and Test Certificate are required as per attached Specification SPEC: CFF/QC/19-20/UT R01. 2. PQC (attached) is applicable. 3. Operation and Maintenance manual are required. 4. Erection and Commissioning are required at site. 5. Pre Despatch Inspection by BHEL will be done at Vendor Work and Final Inspection will be done at CFFP BHEL Haridwar 6. Calibration Certificate of supplied equipment is required. 7. Vendor has to quote as per scope of supply and L-1 shall be decided on total cost of equipment and accessories 8. The system and accessories as per scope of supply shall be offered Note: Terms and conditions for procurement of Ultrasonic Flaw Detector (ATC) (point no1 to point no18) as under	

Terms and conditions for procurement of Ultrasonic Flaw Detector (ATC)

S.No.	Description	Vendor Confirmation/ comment
1	Material shall be supplied as per tender enquiry in all respects without any deviation. Point wise reply / confirmation of attached technical specification no. CFF/QC/19-20/UT R01. Attached PQC is applicable.	
2	Performance Guarantee / Warranty: Minimum period of two years from the date of commissioning of equipment at CFFP BHEL Haridwar.	

3	Pre dispatch inspection (PDI) by CFFP, BHEL, Haridwar: Pre-Dispatch Inspection (PDI) call (for readiness of equipment) at least 15 days in advance. If supplier fails to give pre-inspection call within stipulated time, this will not be a reason of penalty waiver or delivery extension. However final inspection will be done after receipt of equipment at CFFP, BHEL, Haridwar. Note : Travel, Lodging & Boarding charges of BHEL inspectors / trainees during pre-dispatch inspection and training will be borne by BHEL.													
4	Delivery Term: FOR Destination basis, destination being Stores/CFFP/BHEL Haridwar.													
5	Delivery period of material: within 75 days from contract date (Including Pre Dispatch Inspection etc.).													
6	Erection & Commissioning period for supplier :- Within 15 days from date of intimation to vendor for installation and commissioning.	Ready to use												
7	Submission of Earnest Money Deposit (EMD): a) Intending vendor must submit/deposit the requisite EMD of Rs 60,000/- (Rupees Sixty thousand Only) in the form of Demand draft/ e-payment only (cheque/ Bank Guarantee are not acceptable) while submitting the tender documents as detailed in "Instruction to Bidders".	Yes												
	b) Supplier must have enclosed scanned copy of (Pay order/ Demand Draft or E-payment transaction detail) submitted as EMD drawn in favour of CFFP/BHEL Haridwar, at portal with their offer and hard copy of Pay order/Demand Draft shall be submitted by vendor to CFFP, BHEL Haridwar, before techno-commercial bid (part -1 bid) tender opening date. Bank Details for online submission of EMD is as below: Bank: STATE BANK OF INDIA, RANIPUR BRANCH, HARIDWAR, Beneficiary Name: Bharat Heavy Electricals Ltd. Bank Account No. 10667995469 Account Type. CURRENT ACCOUNT Bank's Branch Code: 00586 Bank's IFSC Code: SBIN0000586 Bank MICR Code: 249002005													
	c) All Central/State-PSUs/Govt. departments/Micro and Small Enterprises are exempted from submission of EMD.													
	d) EMD by the Tenderer will be forfeited if, the successful bidder/vendor refuses to honour the order after award of the same on him and /or withdraws his bid and/or unilaterally changes the offer and/ or any of its terms & conditions within the validity period.													
	e) EMD given by all unsuccessful Tenderers shall be refunded on acceptance of award / LOI / PO by successful Tenderer. The EMD of successful bidder shall be returned after acceptance of Purchase Order & after submission of Contract execution bank Guarantee (CEBG).													
	f) EMD shall not carry any interest.													
8	Payment Terms: 80% payment of Supply value plus 100% Taxes & Duties (subject to checking / confirmation from GSTN portal) shall be made through e-payment as mentioned below from the date of receipt of material at CFFP / BHEL.													
	<table border="1"> <thead> <tr> <th>Sn</th> <th>Type of Bidders</th> <th>Payment terms (No of Days)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Micro & small enterprises</td> <td>45 Days</td> </tr> <tr> <td>2</td> <td>Medium enterprises</td> <td>60 Days</td> </tr> <tr> <td>3</td> <td>Non-MSMEs</td> <td>90 Days</td> </tr> </tbody> </table>	Sn	Type of Bidders	Payment terms (No of Days)	1	Micro & small enterprises	45 Days	2	Medium enterprises	60 Days	3	Non-MSMEs	90 Days	
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3	Non-MSMEs	90 Days												

	Balance 20% Payment of Supply value will be paid after successful commissioning of equipment and on receipt of Performance Bank Guarantee (PBG) valid for 30 days beyond the warranty period by Supplier from any of the Consortium Banks of BHEL for 10 % of total purchase order (P O) value in the prescribed Format. The PBG confirmation charges shall be borne by vendor.	
9	<p>“MSME bidders can avail benefits of payment through TReDS (RXIL).” (To be incorporated in Payment terms).</p> <p>The vendors claiming MSME benefits in the bid, but not registered with CFFP/BHEL Haridwar as MSME are required to submit Udyam Certificate and audited balance sheet including Profit and Loss statement of last financial year along with bid. Same is required to update MSE status in our internal system and MSE benefits.</p>	
10	<p>Performance Bank Guarantee (PBG): Supplier will submit PBG after commissioning of equipment in the prescribed Format, valid for 30 days beyond the warranty period, from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by Consortium Bank of BHEL for 10% of total PO value (supply value + E&C charges). The PBG confirmation charges shall be borne by supplier.</p> <p>Claim period of BG should be minimum 03 months from the validity of the BG.</p>	
11	Currency of offer: Only in Indian Rupee.	
12	<p>Penalty for delay in Supply and Erection and Commissioning (E&C):</p> <p>Penalty on delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. Penalty will be considered separately for 'Supply' and 'E&C'.</p> <p>-The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value subject to a maximum of 10% of total PO value.</p> <p>The rate of penalty for delayed E&C shall be @ 0.5% per week of delay of total PO value in E&C subject to a maximum of 10% of total PO value.</p> <p>Maximum penalty for delay in Supply and E&C together shall be limited to 15% of total PO value .</p> <p>For calculating Late Delivery penalty delivery date: Date of receipt of material at CFFP BHEL Hardwar will be considered.</p> <p>Note: BHEL reserve the right to invoke Risk Purchase clause any time after expiry of schedule date of delivery / E&C , in case of delayed/defective supplies or non-fulfilment of any other terms & conditions given in the purchase order.</p>	
13	Early delivery acceptable.	
14	Test Certificate & Guarantee certificate are required as per specification	
15	Scope of supply, Drawing , Documents and Manuals to be provided as per technical specification CFF/QC/19-20/UT R01.	
16	Risk Purchase: In case of delayed/defective supplies or non-fulfilment of any other terms & conditions given in the purchase order, the purchaser may cancel the purchase order and may also make the purchase of such material at the risk & cost of supplier.	
17	Other terms and conditions will be as per GeM.	
18	Conflict of Interest: A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:	

- a. They have controlling partner (s) in common; or
- b. They received or have received any direct or indirect subsidy/financial stake from any of them; or
- c. They have the same legal representative/agent for purposes of this bid; or
- d. They have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder: or
- e. Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/sub-assembly/Assemblies from one bidding manufacturer in more than one bid; or
- f. In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid form the following:
 - 1. The principal manufacturer directly or through one Indian agent on his behalf; and
 - 2. Indian/foreign agent on behalf of only one principal;

or

- g. A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; or
- h. In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/common business/management units in same/similar line of business.


Vendor seal and signature

QUALITY MANAGEMENT
CFFP , BHEL , HARIDWAR

Sub : PQC for Ultrasonic Flaw Detector (Indent No 20230438)

1) Vendor must have supplied and commissioned the at least one number of Ultrasonic Flaw Detector in last 5 years (on the date of opening of tender) in India.	Vendor to confirm
2) Vendor must provide at least 1 copy of relevant Purchase Order/Work Order and Performance Certificates from the customer for satisfactory performance of at least one year (on the date of opening of tender) as a proof of satisfactory operations of the Ultrasonic Flaw Detector that have already been supplied.	Vendor to confirm
3) Vendor must provide the make & model, capacity, month & year of supply of the equipment and name, email id and telephone no. of the contact person of the customer to whom Ultrasonic Flaw Detector has been supplied by the Vendor. BHEL reserves the right to verify the performance certificate & other relevant documents submitted by vendor from Vendor's Customer.	Vendor to confirm
4) Vendor must be either original equipment manufacturer of the instrument or authorized dealer of the OEM. Vendor to provide authorization letter from OEM.	Vendor to confirm
5) Vendor must be capable for providing after sales maintenance and services for Ultrasonic flaw detector in India.	Vendor to confirm
6) Vendor must take up Annual maintenance contract (AMC)of quoted equipment if required by BHEL	Vendor to confirm
7) Vendor must submit all documents & manuals in English and will correspond in English.	Vendor to confirm
8) Vendor to ensure availability of spares of Instrument for at least 5 years from date of commissioning.	Vendor to confirm

Note: Only those vendors will be considered for technically evaluation who qualifies the qualifying criteria mentioned above.


Naseem Pathan
(Dy Mgr / QM)


- Checked & approved by

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TECHNICAL SPECIFICATION FOR DIGITAL ULTRASONIC FLAW DETECTOR

The Ultrasonic Flaw Detector is used for Non-Destructive Testing (NDT) of castings and forgings to detect planar/volumetric defects in the material.

TECHNICAL SPECIFICATIONS:

SL NO	Description	BHEL REQUIREMENT	Vendor offer
1.0	Application		
1.1	Purpose	The equipment is proposed to perform conventional Ultrasonic testing, to detect planar/ volumetric defects in castings and forgings. Hence the equipment shall be rugged, compact and single unit type comprising of all the sub systems like electronics, display, processors, keypad, battery, charger, protective cover, carrying case & accessories etc.	
1.2	Jobs to be analysed	Castings & Forgings, Machined components Weldments etc. Material: Carbon Steel, Alloy Steel, Stainless Steel & Inconel etc.	
2.0	Principle of operation		
2.1	Principle of operation	The Digital 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 digital display.	
3.0	Design Base		
3.1	Design Base	UFD shall compliant to EN ISO 22232-1 (or prior EN 12668-1), IEC 60068-2-27, IEC-60068-26, IP67, With TWO LEMO-01 Connectors Ingress protection: IP66 for knob type control panel/IP67 for navigation touch control panel Ultrasonic search units (probes) shall compliant to DIN 12668-2, ASTM-E 1065, with LEMO Connectors. Probes shall be provided with certificates.	
3.2	Design Base	UFD shall have Knob plus navigation touch pad/ Navigation touch pad/Touch screen type control panel	

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3.3	Design Base	UFD shall have English as standard operating language.
4.0 Pulse		
4.1	Pulse	Spike or Tuneable 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.
4.2	Pulse repetition frequency	15 Hz to 2000 Hz user selectable.
4.2 a	Phantom Echo detector	Equipment should have capability to detect and avoid phantom echo's.
4.3	Energy settings	Pulse voltage shall be adjustable/selectable in range of 100V to 300V(Low, Medium High)
4.4	Damping	Shall be adjustable from 50 to 400 Ω , User selectable
4.5	Pulse Width	Shall be adjustable from 30ns to 500ns (0.1MHz) or better
5.0 Receiver		
5.1	Gain	0 to 110 dB or better with 0.5, 1, 2, 6 dB steps & user defined gain step adjustments
5.1A	Gain reserve	Gain reserve is the starting quantity when determining the flaw detectability in conjunction with set of flaw detector and probe. For forgings 2 MHz normal probe of 24 mm crystal diameter is used. Gain reserve shall be calculated as follows on IIW V1 block: <ol style="list-style-type: none"> 1. Connect the 2 Mhz 24 mm crystal dia probe to UFD and Select the Damping Level 2. Select echo height from thickness (25mm) of IIW V1 block to 40% of FSH. (Note dB reading ---X1) 3. Select Range say 1000 mm on CRT screen 4. Decouple the probe from IIW V1 block 5. Increase the gain till amplifier noise signal is 20% of FSH. The amplifier noise should show even amplitude across the width of screen. (Note dB readings--- X2) 6. Calculate X2-X1 X2-X1 value shall be greater than or equal to 80dB at minimum and maximum damping level as per Cl 4.4 of the specifications. Vendor to Confirm the capability of equipment w.r.t gain reserve, & demonstrate during Pre Dispatch Inspection (PDI)

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5.1.5	Signal to Noise Ratio	6 db signal to noise ratio should be maintained at maximum gain.
5.2	Total instrument Bandwidth	0.5 to 18 MHz
5.3	Digital Filter Settings	User selectable narrow band and broad band filter options to be provided to optimize receiver performance
5.4	Rectification	Full wave, Positive half wave, Negative Half wave, RF
5.5	System Linearity	Horizontal, Vertical and amplifier linearity shall meet the requirements of ASME section V
5.6	Reject	Shall be adjustable with visual warning (0-80% FSH)
6.0 Measurement		
6.1	Types	Thickness, Sound Path, projection, Depth, Amplitude, Time of Flight, Min/Max Depth, Min/Max Amplitude, ERS(Equivalent reflector size).
6.2	Echo to Echo	Standard
6.3	DAC/TVG Standard	Up to 16 points to be captured, ASME Section I, Section III, 110 dB dynamic Range, full gain, range and delay adjustments during set up, view switchable between DAC & TVG
6.4	Custom DAC	System shall have multiple DAC options including -6dB and -14dB DAC.
6.5	Trigonometric Display	Trigonometric display of beam path, surface distance (including X-offset) and depth of indication from inspection surface together with echo amplitude. Curved surface correction can be applied for convex and concave surfaces. Half skip can be indicated on screen
6.6	DGS probe data	Machine should have facility of DGS/AVG. Electronically in built DGS Curves for different probes (2Mhz, 4Mhz, Dia 10 mm 24 mm twin crystal, single crystal and 45°, 60°, 70° shear wave 8*9 mm, 20*22 mm, 2&4 Mhz) DGS Curve shall cover entire range with selectable size. DGS/AVG Software should be well defined user friendly and should not have any ambiguity in defining the parameters.
6.7 A	Dynamic DGS	Equipment Should have capability to draw dynamic DGS in A scan. Dynamic DGS allows changes of test range & Gain after plotting from single reflector. The Curve drawn on A scan should be smooth till full test range.

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6.7 B	DGS Curve Gain	The overall gain level of entire DGS/AVG curve can be adjusted higher or lower from reference gain. Heavy Forging inspection requires reflectors to be sized above 20% FSH. Therefore, to inspect beyond a certain depth/ sound path time in heavy forgings, it is necessary to raise gain of both live A-scan and DGS/AVG curve to continue the inspection. Vendor to confirm the capability of its equipment w.r.t. DGS Curve gain & demonstrate during PDI.
6.7C	Auto XX%	The equipment must have facility of Auto80%, to bring single reference reflector 80% of FSH useful while making DGS & DAC.
6.8	Amplitude Measurement	Vendor to confirm 0 to 100% full screen height with 0.25% resolution
6.9	Curved Surface correction	For Angle measurements shall be available.
7.0 Gates		
7.1	Number of gates	Minimum two fully independent Gates for amplitude and Time of flight measurements.
7.2	Gate start & width	Start and width of the gate shall be adjustable within the entire range with positive and negative threshold.
7.3	Gate Height	Variable from 5 to 95% full screen height
7.4	Alarms	Positive and Negative thresholds: Minimum Depth on Gate1 and Gate 2
8.0 Display		
8.1	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. Minimum display size 5.5 inch diagonally with min resolution 640x480 pixels @ 60Hz refresh rate
8.2	Amplitude Grid Mode	100% Amplitude display
8.3	Time base grid modes	Standard 0 to 10 major divisions, each having five equal minor divisions.
9.0 Instrument Input / Output		

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9.1	USB port	For communication with PC/ Data cables /Flash drive/mouse etc.	
9.2	SD card slot	SD card connector for easy data archival	
9.3	LEMO Hardware I / O: Alarm outputs, Trigger In / . Out	Vendor to specify.	
9.4	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. Minimum 200 reports with waveforms, measurement and setup parameters in on board memory. Additional at least 2GB micro SD card shall be in standard supply	
9.5	Video Recording	Video Recording feature up to 8 minutes of live.A- scan at 60fps	
9.6	Interface	The equipment shall have suitable I/O ports for PC.	
10	Calibration		
10.1	Supplier to specify the calibration set up memory. At least 100 different calibration setups shall be stored and recalled.		
10.2	Automated distance Calibration	Automatic calibration of range shall be available for velocity and zero offset adjustments	
10.3	Test modes	Pulse echo, Dual or through transmission	
10.4	Measurement Units:	Millimetres, Inches	
10.5	Range	5 mm to 10000 mm for longitudinal beam in steel	
10.6	Velocity.	1000 m/s to 10000 m/s. Fine adjustment of 1 m/s	
10.7	Display delay	shall be adjustable	
10.8	Zero offset	shall be adjustable from 0 to 500 micro seconds.	
10.9	Refracted angles	shall be adjustable from 10 deg to 85 deg in 0.1 deg resolution	
10.10	Memory	At least 50 different calibration setup should be stored & recalled. Supplier to specify calibration setup memory.	
10.11	Calibration Certificate	Vendor to provide calibration certificate by OEM or from NABL accredited lab.	
11	Software Options:	Shall have Dynamic DAC, Dynamic DGS / AVG, BEA(BACK ECHO ATTENUATOR),AWS D1.1/D1.5	
12	General features		

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12.1	Weight	Shall be less than 3 kg (including battery)
12.2	Transducer connections	LEMO 01 type connections (Equipment side and transducer side)
12.3	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.
12.4	Power requirement	AC-mains, 200-240V (50Hz)
12.5	Environmental ratings	Temperature: 5 to 50-degree C Humidity: RH 20 - 80%
13	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.
14	Pre dispatch Inspection	The system and accessories (consisting of the items) as per scope of supply shall be offered for pre dispatch Inspection by BHEL at supplier's works.
15	Packing and delivery	Packing and delivery of the total equipment from manufacturer's place to BHEL, CFFP HWR in safe condition without any damage is under the responsibility of the SUPPLIER
16	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.
17	Performance Prove out	After Successful Installation and commissioning of the equipment at BHEL CFFP Haridwar, final acceptance of the equipment will be based on satisfactory performance of UFD by carrying out A Scan of Forged Component provided by CFFP. Vendor to perform the job trials (on jobs as guided by BHEL Executive) and to prove the performance of the equipment @ BHEL CFFP works.
18	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.

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19	Guarantee	The system and accessories are to be guaranteed for its performance for 24 months from the date of commissioning of the equipment at BHEL Works.	
20	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.	
21	Annual Maintenance Contract - AMC	Vendor to indicate whether Annual Maintenance services can be provided on contract after the guarantee period is completed. Vendor to quote AMC separately & it will not be considered for evaluation of lowest Bid	
22	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 3. Conformance certificate to be provided along with the equipment	
23	Price for accessories	Separate rate shall be quoted for Optional / Compulsory Accessories	

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DIGITAL ULTRASONIC FLAW DETECTOR WITH ACCESSORIES

SCOPE OF SUPPLY

One no of equipment consisting of following item

SL No.	ITEM	QTY	VENDOR'S OFFER
1.	Digital Ultrasonic flaw detector with Lemo 01 connectors. Designed in compliance with EN12668 Including software options of Dynamic DGS, Dynamic DAC, BEA, and AWS D.1.1/1.5. Calibration certificate, battery & charger (with mains cable), confirming to specifications CFF/QC/19-20/UT R01 DT 16.09.2023	01	
2	Normal Beam Probe. 2Mhz 24 mm crystal diameter. Lemo Connectors 01 EN12668 certified probe	02	
3	Angle beam probe Shear wave 2 Mhz 45° degree 20x22 crystal size. Lemo 01 Connectors EN12668 certified probe.	02	
4	Cable Lemo 01 to Lemo 01 Connectors	02	

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BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To
NAME
& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) with its registered office at _____² hereinafter referred to as the 'Vendor / Contractor / Supplier ', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs -- -----⁶ (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

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. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We thebank 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 Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till

all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

WeBANK further agree with the Employer that the Employer 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 Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier's liabilities.

This Guarantee shall remain in force upto and including.....⁷ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁸we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁶
- b) This Guarantee shall be valid up to⁷
- c) Unless the Bank is served a written claim or demand on or before _____⁸ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

1 NAME AND ADDRESS OF EMPLOYER I.e. Bharat Heavy Electricals Limited

2 NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

3 DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

4 CONTRACT VALUE

5 PROJECT/SUPPLY DETAILS

6 BG AMOUNT IN FIGURES AND WORDS

7 VALIDITY DATE

8 DATE OF EXPIRY OF CLAIM PERIOD

List of BHEL Consortium Bank

Sl. No.	Name of the bank
1	State Bank of India
2	Canara Bank
3	IDBI Bank Limited
4	ICICI Bank Limited
5	HDFC Bank Limited
6	Axis Bank
7	IndusInd Bank Limited
8	Bank of Baroda
9	Exim Bank
10	Indian Bank
11	Punjab National Bank
12	Union Bank of India
13	Yes Bank Limited
14	RBL Bank Ltd.
15	Standard Chartered Bank
16	Indian Overseas Bank
17	Kotak Mahindra Bank Limited
18	Federal Bank Limited
19	Hongkong and Shanghai Banking Corporation Ltd

Note: Any changes on above list shall be intimated before executing LC / BG.

AUTHORISATION LETTER
FOR E-PAYMENT/ELECTRONIC FUNDS TRANSFER (EFT/RTGS)
PLEASE FILL UP THE FORM IN CAPITAL LETTERS ONLY

ANNEXURE-D
Page 1 of 1

TYPE OF REQUEST (Tick One)	<input type="checkbox"/>	CREATE	<input type="checkbox"/>	CHANGE
BHEL Vendor/ Supplier Code	<input type="text"/>			
Company's Name	<input type="text"/>			
Address	<input type="text"/>			
City	<input type="text"/>			
Pincode	<input type="text"/>			
State	<input type="text"/>			
Contact Person(S)	<input type="text"/>			
Telephone NO.	<input type="text"/>			
FAX. No.	<input type="text"/>			
e-mail id	<input type="text"/>			
1. Bank Name	<input type="text"/>			
2. Bank Address	<input type="text"/>			
3. Bank Telephone No.	<input type="text"/>			
4. Bank Account No.	<input type="text"/>			
5. Account Type.	<input type="text"/>			
6. Bank's Branch Code	<input type="text"/>			
7. Bank Swift Code	<input type="text"/>			
(aplicable to EFT only)				
8. Enclose blank cancelled cheque	<input type="checkbox"/>	<input type="checkbox"/>		

DECLARATION

1. I as representative/Owner of the above named company, hereby authorize BHEL CFFP, Ranipur, Haridwar to electronically make payments to the designated bank account. I hereby certify that the particulars given above are true, complete and correct.
(2) If the transsation is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL/transfereing Bank responsible.
3. This authority remains in full force untill BHEL, CFFP, Ranipur, Haridwar receives & acknowledge written notification requesting a change or cancellation.
4. I have read the contents of the covering letter and agree to discharge the responsibilty expected of me as a participant under E-payment/EFT/RTGS.

Date:

Authorized Signatory

Designation

Company Seal

Verification By Bank