



**BHARAT HEAVY ELECTRICALS LIMITED** PHONES: 23774494 (EXCHANGE)

CORPORATE RESEARCH & DEVELOPMENT DIVISION

VIKASNAGAR, HYDERABAD - 500 093, INDIA

FAX : 91 40 23770698

RD:DP:MPX:F-04

## ENQUIRY

To - Enquiry No: 411190451 Enq Date: 09-DEC-11 Due Date: 10-JAN-12 Delivery By: 15-MAR-12

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Pin

Email :

Attn. .

PLEASE SUBMIT YOUR QUOTATION IN SEALED COVER SUPERSCRIBED WITH ENQUIRY NO, ENQUIRY DATE AND DUE DATE SUBJECT TO OUR TERMS AND CONDITIONS ENCLOSED, FOR THE FOLLOWING MATERIALS SO AS TO REACH US ON OR BEFORE THE DUE DATE BY 12 NOON. THE TENDERS WILL BE OPENED AT 2 PM ON THE SAME DAY. THE TENDERS MAY BE DROPPED IN THE TENDER BOX KEPT AT THE SECURITY GATE.

PLEASE GIVE REFERENCE OF ENQ NUMBER , ENQ .DATE AND DUE DATE IN ALL YOUR CORRESPONDENCE FOR PROMPT ACTION. IN CASE IF YOU ARE NOT MAKING THE OFFER PLEASE POST A REGRET LETTER AND RETURN THE DOCUMENTS.

SL NO	DESCRIPTION / SPECIFICATION	UNIT	QTY
1	Supply, installation and commissioning of 'Acoustic imaging (Camera) system' as per annexure	SET	1
1	<p>COMPLETELY FILLED UP AND SIGNED VENDOR COMPLIANCE STATEMENT IS REQUIRED ALONG WITH YOUR OFFER. OTHERWISE YOUR OFFER WILL NOT BE PROCESSED FURTHER.</p> <p>a) ALL OFFERS MUST INCLUDE NAME OF CONTACT PERSON, PH / MOBILE. NO., FAX NO.; EMAIL-ID. UNSIGNED OFFERS ARE LIABLE FOR REJECTION.</p> <p>b) BEING A RESEARCH INSTITUTION RECOGNISED BY DEPT OF SCIENCE AND TECHNOLOGY, BHEL R&amp;D CAN AVAIL CENTRAL EXCISE DUTY EXEMPTION IN TERMS OF GOVT NOTIFICATION 16/2007 - CENTRAL EXCISE DATED 1.3.2007. HENCE SUPPLIERS ARE REQUESTED TO SUBMIT THEIR BIDS WITH OUT EXCISE DUTY.</p> <p>c) TAXES &amp; DUTIES QUOTED WILL BE TAKEN FOR COST EVALUATION &amp; ORDER PLACEMENT AND NO CHANGE WILL BE ENTERTAINED LATER EXCEPT IN THE CASE OF CHANGES MADE BY THE GOVERNMENT. IN CASE ANY TAXES/DUTIES EXEMPTED, A SELF DECLARATION FOR THE SAME MAY BE ATTACHED TO THE OFFER. CHANGES IN TAXES AND DUTIES BECAUSE OF THE CHANGES IN TURNOVER ETC. WILL BE TO SUPPLIER'S ACCOUNT.</p> <p>d) WHEREVER VENDOR REGISTRATION FORM AND EFT DETAILS HAVE BEEN SUBMITTED EARLIER, THE SAME NEED NOT BE SUBMITTED AGAIN UNLESS THERE IS A CHANGE.</p>		
2	<p>PLEASE SUBMIT YOUR OFFER IN TWO PARTS AS PER ENCLOSED "GENERAL TERMS AND CONDITIONS OF ENQUIRY, LOADING FACTORS &amp; CONTRACT FOR THE PURCHASE OF GOODS/ SERVICES" IN SEPARATE SEALED COVERS AS DETAILED BELOW:</p> <p>1) FIRST COVER SHALL CONTAIN A) TECHNICAL &amp; COMMERCIAL BID, B) COMPLIANCE STATEMENT, DULY FILLED-IN, C) UN-PRICED PRICE-BID, I.E. A COPY OF PRICE-BID, WITH PRICE(S) CELLS LEFT BLANK;</p> <p>2) SECOND COVER SHALL CONTAIN PRICE BID. IF THE PRICE BID IS FOUND TO BE DIFFERENT FROM THE UN-PRICED PRICE BID IN ANY WAY, THE OFFER IS LIABLE FOR REJECTION.</p>		
3	<p>Suppliers are requested to visit our BHEL website at <a href="http://www.bhel.com/tender/list_tender.php">http://www.bhel.com/tender/list_tender.php</a> regularly for any corrigenda, addenda, amendments, time extensions, clarifications, etc. to the tender to keep themselves updated. There will be no publication of the same thro' newspapers or any other media". For further clarifications, if any, You may contact Sri SV Rao, AGM(MM), email ID : <a href="mailto:svrao@bhelrnd.co.in">svrao@bhelrnd.co.in</a></p>		



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## ENQUIRY

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|---|---|
| 4 | ORDER WILL BE PLACED ON OVERALL L1 BASIS. VENDORS SHALL QUOTE FOR ALL ITEMS. INCOMPLETE OR PARTIAL OFFERS SHALL NOT BE PROCESSED.   |
| 5 | INDIAN VENDORS : DESTINATION SHALL BE BHEL R&D STORES HYDERABAD.<br>FOREIGN VENDORS : BHEL R.O.D. OFFICE MUMBAI INDIA.  |
| 6 | <p>GUIDELINES REGARDING DEALING WITH INDIAN AGENTS OF FOREIGN SUPPLIERS</p> <p>1. BHEL SHALL DEAL DIRECTLY WITH FOREIGN VENDORS, WHEREVER REQUIRED, FOR PROCUREMENT OF GOODS. HOWEVER, IF THE FOREIGN PRINCIPAL DESIRES TO AVAIL OF SERVICES OF AN INDIAN AGENT, THEN THE FOREIGN PRINCIPAL SHOULD ENSURE COMPLIANCE TO REGULATORY GUIDELINES WHICH REQUIRE MANDATORY SUBMISSION OF AN AGENCY AGREEMENT.</p> <p>2. IT SHALL BE INCUMBENT ON THE INDIAN AGENT AND THE FOREIGN PRINCIPAL TO ADHERE TO THE RELEVANT GUIDELINES OF GOVERNMENT OF INDIA, ISSUED FROM TIME TO TIME.</p> <p>3. THE AGENCY AGREEMENT SHOULD SPECIFY THE PRECISE RELATIONSHIP BETWEEN THE FOREIGN OEM / FOREIGN PRINCIPAL AND THEIR INDIAN AGENT AND THEIR MUTUAL INTEREST IN THE BUSINESS. ALL SERVICES TO BE RENDERED BY AGENT / ASSOCIATE, WHETHER GENERAL IN NATURE OR IN RELATION TO THE PARTICULAR CONTRACT, MUST CLEARLY STATED BY THE FOREIGN SUPPLIER / INDIAN AGENT. ANY PAYMENT, WHICH THE AGENT / ASSOCIATE RECEIVES IN INDIA OR ABROAD FROM THE OEM, WHETHER AS COMMISSION OR AS A GENERAL RETAINER FEE SHALL BE BROUGHT OUT IN RECORD IN THE AGREEMENT AND BE MADE EXPLICIT IN ORDER TO ENSURE COMPLIANCE TO THE LAWS OF THE COUNTRY.</p> <p>4. ANY AGENCY COMMISSION TO BE PAID BY BHEL TO THE INDIAN AGENT SHALL BE IN INDIAN CURRENCY ONLY.</p> <p>5. WHENEVER INDIAN AGENTS ARE REPRESENTING ON BEHALF OF THEIR PRINCIPALS THE RELEVANT AUTHORIZATION LETTER AND AGREEMENT COPY TO BE ENCLOSED ALONG WITH THE TECHNICAL BID TO CONSIDER THE OFFER.</p> |

AS WE ARE ENGAGED IN R&D ACTIVITY "C" FORM WILL NOT BE ISSUED

PLEASE FILL UP THE ENCLOSED VENDOR REGISTRATION FORM AND SEND IT ALONG WITH YOUR QUOTATION. OTHERWISE YOUR QUOTATION WILL NOT BE CONSIDERED.

Yours faithfully  
for

BHARAT HEAVY ELECTRICALS LTD

SARMA MKVH  
Sr Dy Gen Manager

Email: [sarma\\_mkvh@bhelrnd.co.in](mailto:sarma_mkvh@bhelrnd.co.in)

Direct Phone : 91-40-23882304

Mobile : 91- 9490748302

**Annexure to enquiry 41190451 dated 09-Dec-2011 on Supply, installation and commissioning of Acoustic Imaging (Camera) System.**

Sealed quotations in double cover with tenderer's distinctive seal, superscribing enquiry number, and due date are to be submitted so as to reach on or before due date & time, addressed to **Additional General Manager(MM), Bharat Heavy Electricals Limited, Corporate Research & Development Division, Vikasnagar, Hyderabad, Andhra Pradesh, India – PIN-500 093, India, Mob: +91 99853 06642**, to be deposited in Tender Box located at Security gate for hand deliveries.

Acoustic Imaging System is an integrated system for noise source identification consisting of (a) Transducer sub-system (b) Data acquisition sub-system and (c) Analysis sub-system. Specifications for individual sub-systems are detailed as below. Vendor should submit technical offer with compliance statement against each clause in the sub systems and also provide a detailed technical write up on the overall system. Vendor should quote for Integrated System. Please do not remove/ modify any row, text therein. Partial filled-in quotations are liable for rejection.

## **1.0 Techno-commercial bid**

### **1.1 Technical bid**

Technical Specifications for Acoustic Imaging (Camera)system for noise source localization- Compliance table - ( Vendors name/system)			
S.No	Description of the feature	Vendor Specification	Remarks
<b>I. Transducer sub-system:</b>			
	<b>1. Acoustic Sensing:</b>		
	a) No of Microphones – Min 24		
	b) Type of microphones - 1/4" –class 1		
	c) Topological arrangement of microphones – regular / irregular		
	d) Max Input level for microphones – 150 dB - 5 dB SPL		
	e) Microphone calibration - Automatic calibration feature to be available in the system, vendor to provide suitable calibrator along with the system.		
	<b>2. Video Sensing:</b>		
	a) No of cameras 2 Nos - 1 <sup>st</sup> with min 1200x 1600 resolution for stationary noise sensing and 2 <sup>nd</sup> with min 50 fps frame rate for sensing non stationary noise sensing. The sub-system should be capable of integrating either of the camera types based on user's choice for noise source localization.		
	b) Auto focus or distance measurement of the target object with IR sensor required.		
<b>II. Data Acquisition sub-system</b>			
	1. No of channels – min 24.		

	2. ADC Resolution- 24 bit ADC		
	3. Input Types – Microphones and ICP sensors with self powering		
	4. Range of Input voltage – $\pm 500\text{mV}$ to $\pm 10\text{V}$ ; or better on either side of ranges		
	5. Input Channel Voltage safety - Min $\pm 30\text{ Vpk}$		
	6. Cooling - For system to work in ambient temp upto $55^{\circ}\text{C}$		
	7. H/W self test diagnostic feature should be available.		
	8. RPM Channels – Min 2nos in addition to microphone inputs.		
	9. Environmental specifications/compliance - MIL 810 F or C compliant		
	10. Battery Backup - Min 1 Hr		
	11. Input power supply - 240 volts / 50 Hz AC		
<b>III. Analysis sub-system</b>			
	1. Analysis Technique - Any variant of Beam forming/ NAH/INAH/Combination of any of these/Any proprietary algorithm		
	2. Frequency range – a. 10 Hz to $\geq 8000\text{ Hz}$ for vibration measurement/analysis like Time, FFT ; FRF, Coherence, transfer functions; Autocorrelation, Cross correlation, PSD. b. 100 Hz to $\geq 8000\text{ Hz}$ for Acoustic Measurement /analysis like Octave, third octaves; rpm, sound pressure Level; Noise source Identification in real time		
	3. Spatial Resolution for noise source localization: The sub-system should be capable of obtaining spatial resolution of a. $\leq 30\text{ cm}$ from 100 HZ to 1.6 k Hz at a distance of 30 cm from the object. b. $\leq 1.1 \times \lambda$ from 1600 Hz to 8000 Hz at distance of 1mtr from the object.		
	4. Dynamic Range of the array system - $\geq 8\text{ dB}$		
	5. Target distance range - Max 20mtr in free field condition		
	6. Target dimension - 15mtr wide object for industrial machinery. The proposed sub-system should be capable of achieving the above mentioned (III. 3 & III. 4) spatial resolution and dynamic range across the object		
	7. Order Analysis – reference Input - The system should be capable of carrying out noise mapping w.r.t standard eddy current probes / optical probes like Bentley make, Else, Vendor to provide suitable/compatible rpm measuring system or accessories along with accessories with the sub-system.		
	8. Vibration reference input - The system should be capable of taking the vibration signals from Voltage / ICP sensors mounted on the target object as reference and		

	give sound maps with that reference signal		
	9. Sound Intensity system - Supplier to provide PU probes with Analysis software system		
	10. Displays and Analysis - Pressure Maps automatically computed over selected time/frequency range; Pressure map animation as a function of time or frequency; Localize sound sources based on order-vs-rpm selection; Real-time localization based on real-time frequency band analysis specifying center frequency and band width. Sound power measurement.		
	11. Store & replay features should be available. Slow motion feature for post processing.		
	12. Third party Interface: a. The acoustic measurement data should be made compatible to LMS Virtual lab/Sysnoise, a vibro-acoustic simulation software. Sample input files which are in UFF format will be provided to Successful Vendor after placement of Purchase Order. b. The system should be capable of generating output files that can be used with standard ODS / Modal analysis Software such as MeScope. If the default system is not capable to do so then supplier to include suitable modal / ODS software suite.		
<b>IV</b>	Analysis Platform: A mobile workstation of HP/ DELL make with 3 year warranty. a) Processor: Intel i-7 or better, 2.3 GHz or better processor b) Memory(RAM) - 8GB or more capacity c) Hard Disk - 300 GB or more d) External self powered USB hard drive of 1TB. e) Windows 7 OS with MS Office suite, installation CD/DVD and system drivers. Recovery CD's to be provided		
<b>V. Other terms and Conditions:</b>			
	1. Manuals/Documentation: 2 sets of hard copies of O&M manuals to be supplied along with the system.		
	2. Reference List: The OEM should have supplied at least one Acoustic Imaging system in India. PI furnish list of systems supplied, buyer name, and contact details along with the date of commissioning.		
	3. Pre-despatch Inspection at Supplier's works. BHEL will bear travel expenses including boarding and lodging for its engineers.		

Date

( Vendor's Signature)

## 1.2 Un-Price-bid :

#.	Equipment/Items	Quantity	Ordering information, model, Part#	Make/	Currency	P&F, Freight & Insurance charges, Rate of taxes/duties
1	Supply of “Acoustic Imaging (Camera) system for noise source localization” with the above specifications (I-III), carry suitcase; 2 sets of manuals/documentation, with 1 year warranty from installation and commissioning or 18 months from despatch.	1 Set				
2	Mobile workstation of HP/ DELL make, carry suitcase, with 3 years warranty.	1 Set				
3	Training on the system for 2 BHEL engineers at Supplier’s works during pre-despatch inspection.	1 Lot				
4	Installation and commissioning charges. To be carried out by trained OEM engineers at BHEL works.	1 Lot				
5	Indian agency commission (In case of foreign vendor availing their Indian agent’s Services, if any. The successful bidder has to submit the agency agreement copy before order placement.)	%	Furnish Indian Agent, if any, name, address, Ph/Mobile, e-mail etc.			
6	Annual Maintenance Contract (AMC) Charges after expiry of 1 year standard warranty: Manufacturer shall quote AMC charges to cover hardware maintenance support and software upgrades Pl quote AMC charges per year basis only.	3 years				

**List of suggested spares with individual prices.**

#.	Spares name	Quantity	Ordering information, Make/ model, Part#	Currency	Rate of taxes/ duties for quote in INR
1					
2					
3					

**Please add rows, if required.**

**Note:**

1. Vendors are requested to quote unit prices including packing and forwarding charges with 1 year standard warranty
2. All foreign currency offers shall be evaluated in Indian currency, as per exchange rate of State bank of India on technical bid open date.
3. All offers shall be evaluated on over-all landed cost with 1 year standard warranty and loading due to non-acceptance of standard commercial terms, and excluding the AMC charges and list of suggested spares cost.
4. BHEL reserves the right to place a separate order/ orders for AMC Contract and/or spares before expiry of standard warranty period at the rates quoted..
5. BHEL reserves the right to procure the above items through reverse auction instead of normal price-bid opening.
6. Order Placement addresses for Supplies, installation, Indian agent details, Annual Maintenance Contract, Spares,, Bank details to be furnished clearly.
7. We do not provide 'C' form. Supplier to specify rates of taxes/ duties (CST/VAT/Service Tax) element wise on the price quoted and related percentages. Please mention "NIL" if exempted and N.A if not applicable.
8. Being a research institution, BHEL R&D is exempt from Customs duty against direct imports from foreign suppliers and exempt from Central excise duty against indigenous suppliers as per Govt. of India

### 1.3a. Commercial bid: Commercial Terms / For quote in Indian currency

#	Item	BHEL Standard requirements/ Terms and conditions	Supplier's compliance/ remarks/ Please tick the clause acceptable
1	Validity of offer	90 days from the tender opening date	
2	Terms of delivery	a) F.O.R – BHEL R&D- Stores in case of quote in INR, b) ex-works, a loading of 3% shall be taken into account towards 'freight and insurance charges' to evaluate landed cost to BHEL.	a) F.O.R: Loading: 0% b) Ex-Works – Loading: 3%
3a	Delivery period	Delivery by/date indicated in the enquiry is indicative. Please quote a definite delivery period from Order placement	
3b	Penalty for Late delivery	In case of delay in delivery due to vendor, 0.5% per week beyond the delivery date on undelivered portion subject to a maximum of 10% of the total order value. In case of delay from BHEL in approvals/ drawings/ predespatch inspection etc, the delivery shall be extended.  Non acceptance of penalty clause will attract a maximum of 10% loading on the offer and accordingly proportionate percentage will be loaded for accepting less percentage of penalty to evaluate landed cost to BHEL	Standard clause: a) Agree : Loading 0% (10 - 10)% b) Not agree : Loading 10% (10 -0)%  Or specify penalty acceptable as under  c) Penalty: ____ % : Loading % (10 - )%
4	Payment term	a) 90% (Supplies) payment will be made within thirty days after receipt, inspection and acceptance of the material at BHEL R&D by EFT/RTGS / Wire Transfer with bank charges, if any, to supplier's account. We cannot make any advance payment.  If 'No', a loading of 11% per annum for 1 month for payment against delivery shall be taken into account to evaluate landed cost to BHEL	a) Agree: Loading: 0% b) Proforma / against delivery (Supplies): Loading 11% per annum on 90% for 1 month.
		b) Balance 10% (Supplies) payment shall be released after installation and commissioning along with installation & commissioning charges, if any, on submission of bank guarantee.	Mandatory
5	Bank guarantee	a) The supplier has to furnish a Bank guarantee of 10% of order (Supplies) value covering the performance of the equipment/Supplies during warranty period after installation. b) If 'No', the balance 10% (Supplies) payment shall be released at the end of warranty period. c) In case of non-acceptance of a or b, a loading of 10% shall be taken into account to evaluate landed cost to BHEL	a) Agree (a) : Loading: 0% b) Agree (b): Loading: 0% c) Agree (c): loading: 10% shall be taken into account to evaluate landed cost to BHEL

(Signature of the Vendor with seal)



### 1.3b. Commercial bid: Commercial Terms Commercial Terms / For quote of Supplies in Foreign currency

#	Item	BHEL Standard requirements/ Terms and conditions	Supplier's compliance/ remarks/ pl tick the clause acceptable
1	Validity of offer	90 days from the tender opening date	
2	Terms of delivery	a) FCA-Nearest International Airport , in case of quote in Foreign currency).  In case of Unit price quoted in exw basis, please quote FCA charges separately. All foreign supplies shall be covered under Transit insurance policy by BHEL. A loading of 3% shall be taken into account towards 'freight and insurance charges' to evaluate landed cost to BHEL.	a) FCA: Loading: 3% b) Exw: Please quote FCA charges separately  A Loading of 3%. Towards 'freight and insurance charges' to evaluate landed cost to BHEL.
3a	Delivery period	Delivery by/date indicated in the enquiry is indicative. Please quote a definite delivery period from Order placement	Days
3b	Penalty for Late delivery	In case of delay in delivery due to vendor, 0.5% per week beyond the delivery date on undelivered portion subject to a maximum of 10% of the total order value. In case of delay from BHEL in approvals/ drawings/ predespatch inspection etc, the delivery shall be extended.  If 'No', Non acceptance of penalty clause will attract a maximum of 10% loading on the offer and accordingly proportionate percentage will be loaded for accepting less percentage of penalty to evaluate landed cost to BHEL	Standard clause: a) Agree : Loading 0% (10 - 10)% b) Not agree : Loading 10% (10 - 0)%  Or specify penalty acceptable as under  Penalty: _____ % : Loading _____ % (10 - )%
4	Payment term	a) 90% (Supplies) payment less Indian agency commission, if any, will be made within thirty days after receipt, inspection and acceptance of the material at BHEL R&D by Wire Transfer with bank charges to respective accounts of buyer/ seller. We cannot make any advance payment.  If 'No', a loading of 11% per annum for 1 month for payment against sight draft or LC shall be taken into account to evaluate landed cost to BHEL	a) Agree: Loading: 0% b) Sight draft: Loading 11% per annum on 90% for 1 month. c) LC: Loading 11% per annum on 90% for 1 month.
		b) Balance 10% (Supplies) payment shall be released after installation and commissioning along with installation & commissioning charges, if any, on submission of bank guarantee. The Wire Transfer bank charges to respective accounts of buyer/ seller	Mandatory
5	Indian Agency commission	Indian agency commission (if any): This shall be deducted from the amount payable to the foreign principal and shall be released after receipt, acceptance, installation/commissioning, if any, to Indian agent in INR based on exchange rate of State bank of India at order placement. The successful bidder has to submit the agency agreement copy before order placement.	Please specify agency commission: _____ %
5	Bank guarantee	a) The supplier has to furnish a Bank guarantee of 10% of order (Supplies) value covering the performance of the consignment during warranty period after installation. b) If 'No', the balance 10% (Supplies) payment shall be released at the end of warranty period. c) In case of non-acceptance of a or b, a loading of 10% shall be taken into account to evaluate landed cost to BHEL	d) Agree (a) : Loading: 0% e) Agree (b): Loading: 0% f) Agree (c): loading: 10% shall be taken into account to evaluate landed cost to BHEL

**2.0. Price-bid**

#	Equipment/Items	Quantity	Ordering Information Make/ model, Part#	Currency	Unit price,	P&F, Freight & Insurance charges, Rate of taxes/ duties	Total
1	Supply of “Acoustic Imaging (Camera) system for noise source localization” with the above specifications (I-III), carry suitcase, 2 sets of manuals/documentation, with 1 year warranty from installation and commissioning or 18 months from despatch.	1 Set					
2	Mobile workstation of HP/DELL make, carry suit case with 3 years warranty.	1 Set					
3	Training on the system for 2 BHEL engineers at Supplier’s works during pre-despatch inspection.	1 Lot					
4	Installation and commissioning charges. To be carried out by trained OEM engineers at BHEL works.	1 Lot					

#	Equipment/Items	Quantity	Ordering Information Make/ model, Part#	Currency	Unit price,	P&F, Freight&Insurance charges, Rate of taxes/ duties	Total
5	Indian agency commission (In case of foreign vendor availing their Indian agent's Services, if any. The successful bidder has to submit the agency agreement copy before order placement.)	%					
6	Annual Maintenance Contract (AMC) Charges after expiry of 1 year standard warranty: Manufacturer shall quote AMC charges to cover hardware maintenance support and software upgrades Pl quote AMC charges per year basis only.	3 years					

List of suggested spares with individual prices.

#.	Spares name	Quantity	Ordering Information Make/ model, Part#	Currency	Unit price,	Rate of taxes/ duties	Total
1							
2							
3							

Please add rows, if required.

(Signature of the Vendor with seal)



### General Terms and Conditions of Enquiry & Contract for the Purchase of Goods/ Services

1. The quotation and any order resulting from this enquiry shall be governed by these General Terms and Conditions of enquiry and contract for the supply of goods and the supplier quoting against this enquiry shall, unless specifically stipulates any different terms or conditions, be deemed to have read and agreed to the same.
2. The Offers of the bidders, whose name appear 'list of banned firms' or engage the services of the firms appearing in this list, shall be rejected. The current list of firms banned by BHEL and banned list of firms received from GOI is available at our web site, [http://www.bhel.com/tender/list\\_tender.php](http://www.bhel.com/tender/list_tender.php). Please click 'banned list'.
3. Sealed quotations in double cover with tenderer's distinctive seal, superscribing enquiry number, date and due date are to be submitted so as to reach on or before due date & time, addressed to **Additional General Manager(MM), Bharat Heavy Electricals Limited, Corporate Research & Development Division, Vikasnagar, Hyderabad, Andhra Pradesh, India – PIN-500 093, India** to be deposited in Tender Box located at Security gate for hand deliveries.  
In the case of **Two-part bid**, each inner cover shall clearly be labeled as a) **Technical & Commercial Bid** containing technical data/ drawings/ catalogues/ quality plans along with commercial terms and conditions & copy of the price bid with the price columns left blank (unpriced price bid), b) **Price bid** containing prices quotes. Installation and/or Commissioning charges shall be spelt out in absolutely lucid terms, taking into account total charges, rather than quoting vaguely, such as charges per man-day or charges per engineer per day etc. **If the price bid was found later to be different from the unpriced price bid in any way, the offer will be rejected summarily.** The rate shall be quoted in both figures and in words.
4. Any Supplier (Agents/distributors/ representatives) desirous of quoting imported goods/ services, they should submit the quote in foreign currency along with agency agreement copy, failing which their offer is liable for rejection. In case of non-submission of agreement copy, the principal should submit quotation to BHEL directly. Foreign suppliers will also indicate in their offer Indian agent's name, if any, and address with percentage of agency commission out of the quoted price, if any. Name and Address of the supplier's Bankers address should also be given
5. **Tender/ Technical bid Opening:** Unless specified otherwise, tenders/ technical bids will be opened on appointed date and time as mentioned in the enquiry or as communicated changed date/time, if any, in the presence of such of those tenderers who may be present.
6. **Late Tender:** Tenders received after tender due date/ time (12:00 hrs) shall be treated as late tenders and will not be considered.
7. The Quotation should be free from overwriting and erasures. Corrections and additions, if any, must be attested. In case of difference in unit price and corresponding total value or figures or words/text, the buyer (BHEL) reserves the right to select the figures or words/text leading to lowest cost to buyer.
8. Supplier should indicate in the quotation dimensions (Size), weight, rate etc., in the metric system unless the enquiry calls for different unit.
9. **Validity of Quotation:** All quotations shall be kept open for acceptance for a period of ninety days from the date of opening of Tenders/ Technical bid and this shall be deemed to be an express condition of all quotations.
10. In the case of Two-part bid, the vendor should furnish technical clarifications, if any, within stipulated time mentioned, failing which, it will be construed that the vendor is not interested in the tender and BHEL shall not consider the offer for further evaluation.
11. **Price Impact:** In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise their original bid, they have to submit the Price-Impact only. The Original price bid along with Price-Impact bid shall be opened during pricebid opening. Unsolicited bids will not be considered.
12. **Pricebid Opening:** Unless specified otherwise in the enquiry, the Price bids of technically qualified vendors shall be opened with prior intimation in the presence of such of those tenderers who may be present.
13. **Conformity to Specifications:** The material should be of the best quality and shall be conforming to our specification given in our enquiry. Unless otherwise agreed upon by BHEL, no payment shall be due by BHEL in respect of any sample. Offers without details of specifications/ applicable catalogues will not be considered and are liable to be rejected.
14. **Terms of Delivery:** All Suppliers shall quote the lowest prices on EXW/ FOB/ FCA basis in case of foreign suppliers and on ex-works /Free-on-Rail/Road /F.O.R-destination basis in case of Indian/ indigenous Supplies, indicating packing & forwarding charges if any, separately.

15. **Taxes and Duties:** Unless specified otherwise in the enquiry, BHEL do not provide "C" Form as it is engaged in R&D. All Indian suppliers shall clearly mention current Sales Tax/ VAT, Excise Duty, and Service Tax etc, if any, payable in addition to the quoted price and indicate applicable rates/ percentage, item-wise clearly. The vendors should mention applicable Registration Number(s) specifically in their quotation. Being a research institution, BHEL R&D is exempt from Customs duty against direct imports from foreign suppliers and exempt from Central excise duty against indigenous suppliers as per Govt. of India. Hence, suppliers are requested to submit their bids clearly stating applicable taxes/ duties. The quoted taxes/ duties will be taken for cost evaluation & order placement and no change will be entertained later except in the case of changes made by the Government.
16. **Insurance:** Insurance will be arranged by BHEL in case of Ex-Works as well as FCA / FOB basis supplies.
17. **Terms of Payment:** Full payment will be made within 30 days after receipt, inspection and acceptance of the material (and where involved, Erection and commissioning of the material/ equipment at BHEL/Destination) through Electronic Fund transfer (RTGS/NEFT/SEFT) with bank charges, if any, to the supplier's account. For foreign suppliers, the preferred payment term will be on wire transfer basis and bank charges inside India will be to BHEL account and outside India will be to supplier's account.
18. **Pricebid evaluation:** All offers in conventional price bid opening or reverse auction, if any, shall be evaluated in Indian currency based on unit price, P&F, taxes/duties, freight charges if any, exchange rate, loading due to non-acceptance of our standard commercial terms. The exchange rate declared by State Bank of India under TT Selling rate on the technical bid open date shall be adopted for evaluating foreign currency bids. Suppliers shall quote competitive price and best delivery for all the items mentioned in the enquiry. BHEL reserves the right to reject partial quotations and to place order on overall landed cost basis. Correct date of effecting supplies in the event of an order should be indicated in the offer. If the supplier's quoted commercial terms are different from BHEL standard commercial terms, their offers will be evaluated as per Loading factors form sent along with enquiry.
19. **Packing:** The supplier shall be responsible for the goods being properly and adequately packed so as to prevent any loss, damage or deterioration during transit and indicate packing charges, if any, separately.
20. **Part/ Split Ordering:** BHEL reserves right to Order part of the item/ quantity of the enquiry and/or split the order among qualified vendors.
21. In case the goods enquired are on Rate Contract basis with any other unit of BHEL, such fact should be clearly indicated in the quotation giving full particulars of Rate Contract number, validity and price and also your willingness to comply with order if placed against such Rate Contract. A true copy of Rate contract signed by the supplier should be sent with the quotation.
22. **Inspection:** On receipt, the goods shall be subjected to inspection and also test, if necessary, and our decision regarding the acceptability of the goods shall be final and binding on the suppliers.
23. **Penalty for late delivery:** The time stipulated for delivery of goods shall be deemed to be the essence of the contract and delivery must be completed within the stipulated date/s. In the event of supplier's failure to supply the goods by the stipulated date/s, a penalty of ½% per week for the delayed no of weeks or part thereof for the undelivered portion of PO subject to a maximum of 10% of total order value shall be levied at the discretion of BHEL.
24. **Withdrawal from the Contract:** In case the supplier withdraws their offer before placement of order, BHEL reserves the right not to send next enquiry(ies). In case the supplier withdraws the quotation after its acceptance by BHEL or fails to supply the goods as per the terms and conditions of contract, or at any time repudiated the contract wholly or in part, BHEL shall be at liberty to cancel the Purchase Order and to recover from the supplier the extra cost and other loss, incidentals due to the breach of contract on the part of the supplier through risk purchase.
25. **Guarantee/ Warranty certificate and Manufacturer's Test report:** Invariably in all cases where it is so stipulated, the supplier should furnish Guarantee/ Warranty certificate valid for a period of 18 months from date of supply or 1 year from the date of receipt, acceptance and commissioning (or more, if provide by oem) whichever earlier and manufacturer's Test report along with the goods, failing which, BHEL shall have the right to reject the goods.
26. **Recovery of Dues:** BHEL shall recover any amount due from the supplier or any amount outstanding to the credit of the supplier with BHEL R&D unit or any other BHEL unit(s) and/or by legal action.
27. **Arbitration & Forum for Legal Proceedings:** All disputes arising in connection with indigenous/ foreign supplies shall be settled through arbitration held at Hyderabad, AP, India and arbitrator shall be appointed by BHEL from the enlisted panel. The Courts at Secunderabad/ Hyderabad, AP, India shall have jurisdiction in respect of any suit or other legal proceeding arising from or relating to this contract

The rights and remedies of BHEL stated in these General terms and conditions shall be in addition and supplemental to its rights and remedies under law and custom or usage of trade or business and shall in no way be deemed to limit, curtail, supercede or derogate from its said rights and remedies.

## AUTHORISATION LETTER FOR E-PAYMENT/ NEFT / RTGS

(PLEASE FILL UP THE FORM COMPLETELY IN CAPITAL LETTERS ON YOUR COMPANY LETTERHEAD ONLY)

Type of Request (Tick one)	NEW	CHANGE
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BHEL Vendor Code (to be filled by BHEL)	
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1	Company Name	
2	Address	
3	City with PIN Code	
4	State	
5	PAN Number	
6	Name of Contact Person	
7	Phone no. with STD Code	
8	Fax No. with STD Code	
9	Email ID	
10	Website (URL)	

### BANK DETAILS FOR EFT / RTGS

1	Bank Name	
2	Branch	
3	Branch Code	
4	Branch Address	
5	Branch Phone No.	
6	Account No.	
7	Account Type: SB/ Current/ other (Specify)	
8	MICR Code	
9	IFSC Code	

I, as an authorized representative / owner of the above named company, hereby state as under:

1. Enclosed here with a cancelled cheque in support of our company's bank details.
2. Authorize BHEL R&D Hyderabad, to electronically make payments to the designated bank account with bank charges, if any, to our account.
3. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
4. I hereby certify that the particulars given above are true, complete and correct.
5. This authority remains in full force until BHEL receives and acknowledge written notification requesting change or cancellation.

Date:

Authorised Signatory  
Designation :

COMPANY SEAL



RD:MPX:F-13

## BHARAT HEAVY ELECTRICALS LTD.

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

Ph: 040 – 23772704, Fax: 040 – 23770698, email: mpx@bhelrnd.co.in

### VENDOR REGISTRATION FORM

(Indigenous supplier)

[FORM TO BE SUBMITTED\* BY THE BIDDER ALONG WITH TECHNICAL-BID]

Before filling, please refer to instructions on page-4

#### 1.0 VENDOR PROFILE:

##### 1.1 Name and address of the vendor:

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Phone Nos.:

Fax No.:

Email: 1.

2.

##### 1.2 Local representative name & address in Hyderabad/ Secunderabad:

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Phone Nos.:

Fax No.:

Email:

Contact person:

Mobile No.:

#### 2.0. TYPE OF ORGANIZATION:

PROPRIETORSHIP	COMPANY	SISTER CONCERN ( mention vendor registration number of main organization)	
PARTNERSHIP	CORPORATION	Small Scale Industry	ANY OTHER (Please specify)

In case of SSI unit, copy of registration to be enclosed.

**3.0 ANNUAL TURN OVER:**

#	Year	Turn-Over, Rs.
1	Current Year(budgeted)	
2	Previous year ( 200 - 0 )	
3	Prior Year ( 200 - 0 )	

**4.0 NAME AND ADDRESS OF THE BANKER:**

- 4.1 Bank Name  
 4.2 Branch name  
 4.3 Account number  
 4.4 Account Type  
 4.5 MICR Code:  
 4.6 IFSC Code(RTGS/NEFT):  
 4.7 Bank Phone number(s),  
 Blank cheque, duly cancelled, to be enclosed.

Please note that all payments shall be made through Electronic clearance services to your above account against the orders executed, if any.

**5.0 REGISTRATION PARTICULARS** ( relevant copies to be enclosed)

- 5.1 IT Permanent Account No.(PAN):  
 5.2 State sales tax/VAT Registration No.:  
 5.3 Central Sales Tax Registration No.  
 5.4 ED Registration No.  
 5.5 Service Tax Registration No.:  
 5.6 PF Account No.:  
 5.7 Labour Licence No.:  
 5.8 ESI Account No.:

**6.0 CONTACT PERSON:** S/Sri

Designation:::

Phone/ Mobile No. :

**7.0 TOTAL NUMBER OF EMPLOYEES:**

Graduates (Engr./Scientists/ Mgmt/Fin.)	Consultants	Workers		
		Sup./Skilled	Semiskilled	Unskilled

**8.0 LIST OF PRODUCTS/ SERVICES OFFERED**

#	Products/ Services	Capacity
1		
2		
3		
4		
5		
6		
7		



## 9.0 REFERENCE LIST :

(Only recognized public and private sector companies, attach if printed copy available)

#	Customer	Volume / Year
1		
2		
3		
4		
5		
6		
7		

## 10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

## 11.0 REGISTRATION WITH OTHER BHEL UNIT/UNITS:

#	Unit	Registration No.	Year
1			
2			
3			
4			

## 12.0 ANY OTHER INFORMATION :

### DECLARATION:

The information furnished above is true and authentic.

**(CEO / PROPRIETOR)**

**SEAL:**

**DATE:**

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Note:

1. Registered bidders, having BHEL (R&D) registration no. or have submitted this format for registration, need not furnish this information again.
2. The competent authority reserves the right to accept or reject the registration.
3. Vendors approved for registration will be informed by mail / email, as convenient. A separate communication will be sent in case of non-registration also, citing reasons thereof.
4. BHEL reserves the right to take penal action as deemed fit if any of the information provided by the vendor(s) is found to be incorrect.
5. AGM, Head (MM) may be contacted for clarification/ additional information on registration.

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### Instructions

1. Fill all items. Please mention "N.A." for items/ clauses not applicable.
2. Use A4 sheets for this document and the enclosures. Use of additional sheets is permitted if space provided is not adequate.
3. Attach copies of latest documents in respect of items 5.0 (Registration no.s)
4. Photographs of registered office and the chief executive/proprietor shall be furnished.



RD:DP:MPX:F-14

**BHARAT HEAVY ELECTRICALS LTD.**  
**Corp. R&D DIVISION**  
**VIKAS NAGAR,**  
**HYDERABAD- 500 093 (INDIA)**

**SUPPLIER REGISTRATION FORM**

**(FOREIGN SUPPLIER)**

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR. WHEREVER IT IS NOT APPLICABLE PLEASE WRITE "NOT APPLICABLE". INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED.

**1.0 GENERAL INFORMATION:**

1.1 ....NAME OF COMPANY

1.2 ....DETAILS OF HEAD OFFICE:

ADDRESS :  
TELEPHONE :  
FAX :  
.EMAIL :  
.WEB SITE :

1.3 ....DETAILS OF FACTORY/WORKS:

ADDRESS :  
TELEPHONE :  
FAX :  
.EMAIL :  
.WEB SITE :

1.4 ....DETAILS OF MARKETING AGENT

ADDRESS :  
TELEPHONE :  
.FAX :  
.EMAIL :  
.WEB SITE :

1.5 CHIEF EXECUTIVE

1.6 CONTACT PERSON(S)  
FOR PRODUCT OFFERED  
NAME(S)  
OFFICIAL CPACITY  
ADDRESS:  
TELEPHONE  
FAX  
E-MAIL

1.7 YEAR OF ESTABLISHMENT

1.8 PRODUCTION CAPACITY PER ANNUM

1.9 PARTICULARS OF PRODUCT INCLUDING  
SPECIFICATION AND RANGE OFFERED  
FOR REGISTRTION  
(Attach brouchers and catalogues)

1.10 NAME(S) OF BANKERS

1.11 BANKER'S CERTIFICATE

1.12 PORT OF LOADING

1.13 NEAREST AIRPORT

1.14 NAME OF THE INDIAN AGENT, IF ANY  
WITH AUTHORIZATION LETTER

**2.0 FINANCIAL INFORMATION**

2.1 ...TOTAL CAPACITY

2.2 ...ANNUAL TURN OVER FOR LAST 3 YEARS

2.3 ...WHEHER CREDIT LICENSE ACCEPTABLE YES/NO

**3.0 QUALITY MANAGEMENT SYSTEMS**  
ENCLOSED FORMAT PART-B

3.1 EXPERIENCE LIST FOR SAME/ SIMILAR ITEMS  
TO BE ENCLOSED

**4.0 .....FUTURE EXPANSION PLANS:**  
(Give details)

**5.0 LIST OF ENCLOSURES:**  
Including brouchers, catalogues, technical literature etc)

**6.0 ANY OTHER INFORMATION**

SIGNATURE OF SUPPIER (Authorized signatory)

NAME

DESIGNATION

DATE

.....OFFICIAL SEAL

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Note: 1. BHEL Reserves the right to take penal action as deemed fit if any of the information provided by the vendor is found to be incorrect.  
2. Please attach separate sheets, if space found is inadequate



**BHARAT HEAVY ELECTRICALS LTD.**  
Corp. R&D DIVISION  
VIKAS NAGAR,  
HYDERABAD- 500 093 (INDIA)

Ph: 040 - 23778474, Fax: 040 - 23770698, email: mpx@bheirmd.co.in

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### **GUIDE LINES REGARDING DEALINGS WITH INDIAN AGENTS OF FOREIGN SUPPLIERS**

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
  - ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
  - iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
  - iv. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
- V) Whenever Indian agents are representing on behalf of their principals the relevant authorisation letter and agreement copy to be enclosed along with Technical bid to consider the offer