



Bharat Heavy Electricals Limited

Ceramic Business Unit - Electroporcelains Division

Prof.CNR Rao Circle, Indian Institute of Science Post, Malleswaram
BANGALORE – 560 012 INDIA

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MATERIALS MANAGEMENT

Date : 22.08.2013

Dear Sir,

Sub: Requirement of 01 Number of NOISE MEASUREMENT KIT.

SPEC No. CTI / SR/ NMK / 4-2013. (ENLOSED.)

Please submit without obligation your lowest offer quotation in sealed cover super scribed with our RFQ No. & Due Date OR Through E.Mail For the following item so as to reach us on or before 07th Sep 2013.

The technical parameters which need to be adhered while quoting your offer should be strictly supplied as per our **Specification only**. SPEC No. CTI / SR/ NMK / 4-2013. (ENCLOSED.)

BHEL Payment terms 30 days credit from receipt of material at BHEL –EPD Stores / Prices to be quoted for CIF Bangalore Airport. Validity of the offer should be 90 days from the date of tender opening.

Please arrange to submit your quote by Hard copy or E-mail on before 07th Sep 2013 (02.00pm) .

Email : karthik@bhelepd.com

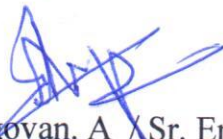
Sri B S Karthikeyan / Sr. Manager / MM

Email : elan@bhelepd.com

Sri A Elangovan / Sr. Engineer / MM

Phone No : 91- 080 - 22182306 / 22182342

Thanking You,


Elangovan. A / Sr. Engr./ MM

GENERAL TERMS AND CONDITIONS FOR RFQ
(If not otherwise mentioned in the RFQ text)

1. Technical details, specifications, brand names, trademarks, patent No. etc., must be mentioned. Samples, catalogues, leaflet, if any should be along with your quotation. Products with I.S.I. certification will be preferred.
2. Materials offered should be of best quality and correct to our specification/ drawing. Offers not conforming to these shall be rejected.
3. Quoted Rate shall be firm & on delivery term F.O.R. BHEL-EPD, Stores Bangalore basis after allowing maximum discounts. Rates quoted shall remain firm till completion of order. No revision in prices will be entertained once the tenders are opened.
4. Packing, forwarding, insurance charge (transit risks), taxes & duties (V.A.T./C.S.T./ Excise duty) etc. if extra applicable are to be stated clearly included in the price, it must be stated clearly. In such a case, ED component must be mentioned, wherever applicable, in order to avail MOVAT. or VAT will be reimbursed only if the relevant valid documents are furnished
5. Vendor must mention the earliest delivery schedule in line with the delivery requirement. Delayed delivery schedule may not be acceptable. Quantity variation, if any, is to be clearly mentioned in the quote.
6. Offers will be evaluated on "Net Cost to BHEL" basis for each line item after considering all the cost components as listed in point no 3 and 4 and 7 below and any other as applicable.
7. Vendor's offer is liable to be loaded with applicable cost components in case of commercial terms offered by vendors have deviations with respect to Delivery term against point no 3 above and payment terms against point no 11 below. Freight rate, Insurance rate will be loaded as per respective BHEL contract in case of deviation against Delivery term. In case of payment term, the commercial borrowing rate will be loaded for a differential period. In case of any other deviation factor, the loading will be as per BHEL estimate or the highest offer received for the said factor.
8. The lowest bidder is eligible to get the full qty if capacity and delivery requirements permit.
9. Normally post-tender negotiation is discouraged. However, it may be held with lowest bidder only under special circumstances.
10. If Excise Duty is applicable please give the assessment heading number. ECC of vendor must be mentioned.
11. Our payment is 30 days credit from the date of receipt for the accepted materials through NEFT. Only offers agreeable to this term will be preferred. Any payment term that is technically treated as advance is normally discouraged and may call for equivalent Bank guarantee. For indigenous vendor, Letter of credit payment is not permissible. Bank charges, if any, will be to supplier's account.
12. Materials supplied will be subject to inspection at our end with reference to specification mentioned in the order/drawing. Rejected materials shall be replaced/lifted within 15 days of intimation at vendor's cost.
13. Quantities mentioned are only approximate and are subjected to variation at the time of placing the order. Please ensure that your quotation is good for any fluctuation in quantities.
14. Company has the right to accept or reject the lowest or any tender in part or full without assigning any reason whatsoever, BHEL reserves the right to allow the Public Enterprises Price /Purchase Preference facility as admissible under the existing policy.
15. Quotations will be opened at 2.30 p.m. on the due date in the presence of tenders who may like to be present. BHEL reserves the right to alter the due date/time in case of receipt of insufficient offers or any other reasons deemed valid. BHEL also reserves the right to re-float the tender without opening the received offers under the same circumstances.
16. If lowest bidder backs out, fresh tendering will be done with or without this lowest bidder as deemed appropriate by BHEL
17. Any disputes arising out of this shall be referred to the Sole arbitration of Head of Unit/ EPD, BHEL Bangalore or any other officer nominated by him and his award shall be final and binding on the parties. The venue of the arbitration in all cases shall be Bangalore.
18. All suits in respect of this lie in the court of Bangalore only.
19. Customers to a BHEL may also visit and Approve Product without obligation. Please note any Approval/Acceptance by BHEL, Customer does not absolve the vendor from the responsibility to supply, conforming product.
20. Please Note: All Vendors particularly in the State of Karnataka have to be registered under VAT and the 11 Digit 'TIN NO.' should be mentioned in the offer, failing which their offer will be summarily rejected. All supply bills in case of orders should have TIN IDENTIFICATION NO. CST NO & SUGAM NO should also be mentioned.
21. BHEL reserves the right to take appropriate measures against any vendor if found indulging in any unethical practice like cartel formation.
22. KINDLY, NOTE THAT IF YOU ARE REGISTERED UNDER MSMED ACT 2006, CONFIRM THE SAME IN YOUR QUOTATION AND SUBMIT THE LATEST VALID CERTIFICATE FOR MICRO, SMALL & MEDIUM ENTERPRISES (MSME) AND FOR THE SC/ST OWNERSHIP, IF ANY, FOR AVAILING BENEFITS AS PER THE ACT.

IN CASE L1 VENDOR IS NOT A MICRO & SMALL ENTERPRISE, 15% PURCHASE PREFERENCE WILL BE GIVEN TO THE OTHER M&SE FOR ORDERING UPTO 20% OF THE TENDER QUANTITY, PROVIDED THE MSE MATCHES THE L1 PRICE. IN CASE OF MORE THAN ONE SUCH M&SEs, THE SHARE OF 20% WILL BE DISTRIBUTED PROPORTIONATELY.

4% OF OUR TOTAL PROCURMENT IS EARMARKED FOR PROCUREMENT FROM MICRO AND SMALL ENTERPRISES OWNED BY SC/ST. IN THE EVENT THERE IS NO PARTICIPATION FROM SUCH MICRO AND SMALL SCALE ENTERPRISES, THE SAME SHALL BE MET THROUGH OTHER M&SEs."



BHARAT HEAVY ELECTRICAL LIMITED
CORPORATE R&D, CTI, BHEL MALLESWARAM COMPLEX
PROF CNR RAO CIRCLE, OPP. IISc, BANGALORE 560 012, INDIA

ITEM: NOISE MEASUREMENT KIT

SPEC. No. CTI/SR/ NMK/4-2013

Date: June 06, 2013

A. Noise Measurement Kit - Description & General Criteria:

The Noise Measurement Kit is to qualify all the latest standards (IEC 61672-1:2002 standard or equivalent ASTM standard, Class 1 measurements) for various purposes of General Noise Measurements, Environmental Noise Measurements, Occupational Noise Measurements etc. The measurement data is to be displayed in a clear and simple format along with a real-time noise chart so that the kit shows how the noise level varies with time.

The kit is to analyze real time octave bands for both 1:1 and 1:3 octaves respectively. Single 1:1 octave band range from 31.5Hz to 16kHz and for 1:3 octave bands from 6.3Hz to 20kHz. Since, several acoustic parameters are required to be measured simultaneously, hence the kit should have the provision to measure simultaneously for sound level functions, Leq functions, TWA/Dose functions, 1:1 & 1:3 octave band filters etc. Kit should also provide options for measuring noise data output in terms of statistical levels, the average level or the spectrum.

The kit also should be capable of storing all the measured data both for recording and evidential purposes, as well as to allow re-analysis the stored data as and when it is required. The kit should have sufficient memory (3 – 4 GB capacity, expandable to higher capacity) with required software and should be capable to interface with modern-day computers for the purpose of data analysis, reporting etc. The kit also should have 3G/GPRS modem & GPS supports.

A detachable-type microphone (removable preamplifier) is also to be provided with the kit and provision for mounting the microphone to the kit as well. A suitable tripod for the kit is also to be provided to facilitate measurements self supporting.

The kit should also have all the necessary accessories those normally required, i.e., an acoustic calibrator (calibration as per current IEC or ASTM or equivalent standard/s) with certificates of calibration, wind screen, spare batteries (THREE numbers), power cable, data cable, required software for data transfer etc. Suitable case of kit & operation manual is also to be provided.

The kit should also include a windshield, acoustic calibrator (as per latest IEC or ASTM, Class 1 calibration), protective carrying case, USB download cable, batteries, user manual, certificates of calibration.

06.06.2013

डॉ. सुकुमार राय, उप महा प्रबंधक / सीटीआरडी

Dr. SUKUMAR ROY, Dy. General Manager / CTI
Corp. R & D, BHEL, BANGALORE - 560 012.



B. Technical Specifications of the Noise Measurement Kit :

Compliance to Standards:	Latest standards of IEC 61672-1:2002 Class 1 or equivalent ASTM standard
Measurement range:	Noise Floor: <18dB(A) Class 1, with single span measurement range from 20-140dB(A) and 143dB(C) Peak
Weightings: Frequency Time	Simultaneous A, C & Z Frequency Weightings Simultaneous S (slow), F (fast) and I (impulse) Time Weightings as well as Peak level Real-time 1:1 & 1:3 Octave Band Filters
Octave Bands:	1:1 octave bands from 31.5Hz to 16kHz 1:3 octave bands from 6.3Hz to 20kHz
Sound level functions & Integration:	Leq functions, TWA/Dose functions, 1:1 & 1:3 octave band filters etc. in any defined time period
Statistical values:	Up to 28 Statistical Ln% Values
Display of Results:	NR & NC values & curves on screen Preferably with colour OLED display with ambient light sensor and automatic brightness / contrast adjustment. Also, preferably to be fitted with illuminated keypad
Data Output:	Standard output via USB to modern-day computers Multi I/O port to provide various outputs AC / DC, with appropriate cables ; suitable tripod to facilitate self-supporting measurements
Temperature (Operating), Humidity, Storage:	Temperature: -10°C to +50°C, Humidity: Up to 95% RH Non Condensing Storage -20°C to +60°C As per latest IEC 61672 Class 1 or equivalent ASTM standards

BHARAT HEAVY ELECTRICALS LIMITED
CORPORATE RESEARCH & DEVELOPMENT, CTI
BHEL MALLESWARAM COMPLEX, BANGALORE 560 012

06.06.2013