

DETAIL	INFORMATION
Contact Person and Address	M.NALLATHAMBI SENIOR MANAGER / CCDP PURCHASE DEPARTMENT/CCDP UNIT – HPBP BHEL, TIRUCHY, INDIA PIN : 620 014
Email	mnthambi@bheltry.co.in
Telephone	0091-431-257 7558, 257 7152
Fax	0091-431-2520696, 2520193
Notification (Reference) No.	2811400004 – R&D Dt. 05/03/2014
Tender Title	SUPPLY OF HOT WIRE ANEMOMETER AND SOUND LEVEL METER
	BUY – Two Part
Brief Description	Hot wire anemometer and Sound level meter as per the specification, commercial terms & conditions enclosed
Published in Newspaper	NO
Published On	--
Tender Value in Rs	--
EMD Value - Rs	NIL
Document Cost- Rs	NIL
Date of Issue of Notification -DD/MM/YY	
Date for Closure of Sale of Forms - DD/MM/YY	Not Applicable
Completed Forms to be submitted by - DD/MM/YY	03/04/2014 : 14.00 Hrs IST
Date of Opening for Technical Bids - DD/MM/YY	03/04/2014 : 14.30 Hrs IST

Note:

If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.

All clarification may be sought at least seven days prior to tender due date from the undersigned with due written request.

Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> (or) <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

The offer should reach this office on or before the due date & we are not responsible for any postal delay. Late tender will not be considered.



General Note: **BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE : 2577152
GRAMS : BHARATELEC
FAX NO: 2520193
E-mail :
Web :

429-002/A

OFFICE COPY	Collective No.	Enquiry Date	Due Date For Quotation
	2811400004	05.03.2014	03.04.2014
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	Hot wire Anemometer as per the enclosed specification. Hot wire Anemometer	NO	1.000	1.00	15.05.14
20	Sound level meter as per the enclosed specification. Sound level meter	NO	1.000	1.00	15.05.14

General Note:

NOTE :

- 1) Offer will be invited in TWO PART BID only (Technical bid and Price bid - Two separate covers- "TECHNICAL BID" Cover and "PRICE BID" Cover);
- 2) If regretted make mention on the top of the reply cover as "REGRETTED";
- 3) LD Clause for delivery has to be confirmed without fail. Otherwise we would assume that you have accepted our LD Clause;
- 4) Test and Guarantee certificate is required.
- 5) BHEL preferred payment term is "100% direct Payment after 45 days from the date of receipt and acceptance of the material";
- 6) Advance or Proforma Invoice payment is not accepted;
- 7) Transport and Delivery at BHEL - shall be Vendor's scope;
- 8) Tender details also hosted in BHEL Web : www.bhel.com.
- 9) No Revision of prices will be entertained after the price bid opening;
- 10) Offer validity should be minimum 60 days from the date of price bid opening.
- 11) Qualifying criteria and technical specification enclosed.

OFFER TO BE SENT TO THE FOLLOWING ADDRESS

AGM / CCDP
Purchase Department
BHEL
TIRUCHIRAPALLI - 620 014
TAMIL NADU, INDIA

Enclosures:

"LD clause has to be confirmed without fail."
"Payment to vendors will be made only thro E-Payment mode."

PR Links

Material.	PR.No	PR.Item.	Quantity	Acc. Assign	Customer Number
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The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

S. SUBBURAJ
Manager
Purchase / R&D and CR
Bharat Heavy Electricals Limited
Tiruchirappalli - 620 014

MANAGER / PURCHASE
(FOSSIL BOILERS)



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI – 620014

PURCHASE / R&D and CR

ANNEXURE TO PURCHASE ENQUIRY

1. PRICE : Ex-Works / Ex-Godown (or) F.O.R- DESTINATION
2. DISCOUNT : % (or) Lumpsum amount Rs
3. PACKING & FORWARDING : % (or) Lumpsum amount Rs
4. TAX : VAT.....% / CST %
(CST Without C FORM)
5. SURCHARE :%
6. DUTIES :%
7. FREIGHT & INSURANCE :
8. DELIVERY PLACE :
9. DELIVERY PERIOD :
10. LD / PENALTY FOR DELAY IN DELIVERY : @ 0.5% PER WEEK SUBJECT TO A MAXIMUM OF 10% IS APPLICABLE. ACCEPTED
11. OFFER VALIDTY :
12. PAYMENT TERM : 100% direct Payment after 45 Days from the date of Receipt and Acceptance of the Material.
13. GUARANTEE / TEST CERTIFICATE :

SIGNATURE OF SUPPLIER WITH SEAL

NOTE : Please do not Quote as EXTRA. Quote the rate in % or the amount as lumpsum. (Rates of applicable Taxes & Duties, whether inclusive or exclusive should also be mentioned).

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Purchase / CCDP

QUALIFYING CRITERIA

The BIDDER / VENDOR have to necessarily provide the following details, for making an assessment of the firm's capability and competency.

BHEL will study both the Qualifying Criteria and Response for Technical Specifications. The Price bid can be studied only if both the Qualifying Criteria and Response for Technical Specifications are found acceptable otherwise rejected.

The BIDDER is expected to give complete details against each clause in the table given below and wherever necessary an additional sheet may be attached giving clear reference number to cover the required details.

Name of the product: "Hot wire Anemometer". Refer Technical Specification for further details. .

S. No.	PARTICULARS	VENDOR'S RESPONSE
1.0	The BIDDER / VENDOR shall have a minimum of Five Years of Continuous Experience in the Design, Manufacture & Supply of " Hotwire Anemometer ". Please indicate the actual experience.	
2.0	YEAR of launch of the Model quoted against this ENQUIRY	
3.0	Number of " Hotwire Anemometer " supplied till date in India. Please furnish contact person name, address, phone number, fax number and mail id.	
3.1	Number of " Hotwire Anemometer " supplied till date outside India. Please furnish contact person name, address, phone number, fax number and mail id.	
4.0	Details of Design Set-Up and Technology Back-Up assured from the PRINCIPAL Equipment Maker.	
5.0	Details on Service-after-Sales set-up in India including the addresses of Agents/Service Centre in India.	
6.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS namely " <u>Technical Bid</u> " & " <u>Price Bid</u> ".	

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TECHNICAL SPECIFICATIONS FOR HOT WIRE ANEMOMETER

Sl. No	Particulars	BHEL specifications	Vendor's Confirmation [With complete technical details]	Deviation, if any
1	Confirmation for each point of specification.	Vendor is requested to give specific confirmation for each point. Deviations if any shall be clearly indicated.		
2	Ambient Condition	The uncontrolled ambient room conditions are: a) Temperature: 10 to 50 °C, b) Relative Humidity: 60 - 90 % c) Operating environment: Neutral gas		
3	Scope of Vendor	1. Design, Manufacture, Testing, at vendor's works. 2. Installation & Maintenance manuals, Mandatory Spares. 3. Training, Installation, Commissioning & Proving performance at BHEL, Trichy. 4. On-site Guarantee, On-site Annual Maintenance Contract.		
4	Hotwire Anemometer	<p>Air velocity: From 0.25 to 3 m/s, Accuracy: $\pm 3\%$ of reading ± 0.1 m/s, Resolution: 0.01 m/s From 3.1 to 35 m/s, Accuracy: $\pm 1\%$ of reading ± 0.1 m/s, Resolution: 0.1 m/s Type K sensor for temperature measurements</p> <p>Temperature: From -20 to +80°C, Accuracy: $\pm 0.3\%$ of reading ± 0.25°C, Resolution: 0.1 °C</p> <p>Airflow: from 0 to 99.999 m³ /h, Accuracy: $\pm 3\%$ of reading ± 0.03*area (cm²), Resolution: 1 m³/h</p> <p>Display:</p> <ul style="list-style-type: none"> ➤ Graphic display 128x128 pixels ➤ Dim. 50 x 54 mm ➤ backlight 		

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		<ul style="list-style-type: none"> ➤ Display of 6 measurements (including 4 simultaneously) <p>Sampling rate: one reading per second approx</p> <p>Storage Temperature: -4 to 176 °F (-20°C to 80°C)</p> <p>Weight: Max.1.6 lbs. (725g) including battery & probe</p> <p>Auto shut-off: Adjustable from 0 to 120 min</p> <p>Minimum one USB port</p> <p>Transport case</p>		
5	Hotwire probe	<p>Telescopic gooseneck-shaped hotwire Hotwire Sensing elements</p> <ul style="list-style-type: none"> ➤ Air velocity: Thermistance with a negative temperature coefficient. ➤ Ambient temperature: Pt100 1/3 Din. <p>Hotwire cleaning spray</p>		
6	Datalogger PC software for data recording and processing	<p>Multi-parameters recording</p> <p>Manual and automatic storage</p> <p>Memory : up to 8,000 measurement points or 50 datasets</p> <p>User-friendly with printing of customized report</p> <p>Management of instruments pool, follow-up of calibration periods</p> <p>Intervention planning</p> <p>Wired and wireless interface</p>		
7	Power supply	<p>One power supply plug with Adaptor for power supply 230 Vac / 8 rechargeable batteries with charger</p> <p>Low battery indication</p>		
8	Along with offer the following details in hard copies shall be indicated.	<ol style="list-style-type: none"> 1. Catalogs - 2 copies. 2. Accessories with Unit price if applicable 3. List of software. 		
9	Performance Prove-Out at BHEL, Trichy	The Supplier's Service Engineer has to conduct demonstration & calibration of the sensor with Accessories at BHEL, Trichy.		
10	Onsite Performance Guarantee	The instrument & Accessories (including Bought-Out Items) are to be guaranteed for its performance for a minimum period of 2 year from the date of performance		

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		acceptance at BHEL, Trichy. Calibration certificate should be produced at the time of delivery.		
11	Installation and O&M manual in ENGLISH Language	2 Nos Installation, Operation & Maintenance Manual. It shall contain Electric Schematics, Circuit Diagrams, PCB Drawings, Trouble Shooting Charts, Mechanical Sub-Assemblies, Rating of Bought-Out Items, etc. In addition, one soft copy in CD is to be supplied.		

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QUALIFYING CRITERIA

The BIDDER / VENDOR have to necessarily provide the following details, for making an assessment of the firm's capability and competency.

BHEL will study both the Qualifying Criteria and Response for Technical Specifications. The Price bid can be studied only if both the Qualifying Criteria and Response for Technical Specifications are found acceptable otherwise rejected.

The BIDDER is expected to give complete details against each clause in the table given below and wherever necessary an additional sheet may be attached giving clear reference number to cover the required details.

Name of the product: “Sound Level Meter”. Refer Technical Specification for further details. .

S. No.	PARTICULARS	VENDOR'S RESPONSE
1.0	The BIDDER / VENDOR shall have a minimum of Five Years of Continuous Experience in the Design, Manufacture & Supply of “ Sound Level Meter ”. Please indicate the actual experience.	
2.0	YEAR of launch of the Model quoted against this ENQUIRY	
3.0	Number of “ Sound Level Meter ” supplied till date in India. Please furnish contact person name, address, phone number, fax number and mail id.	
3.1	Number of “ Sound Level Meter ” supplied till date outside India. Please furnish contact person name, address, phone number, fax number and mail id.	
4.0	Details of Design Set-Up and Technology Back-Up assured from the PRINCIPAL Equipment Maker.	
5.0	Details on Service-after-Sales set-up in India including the addresses of Agents/Service Centre in India.	
6.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS namely “ <u>Technical Bid</u> ” & “ <u>Price Bid</u> ”.	

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TECHNICAL SPECIFICATION FOR SOUND LEVEL MOMETER

Sl. No	Particulars	BHEL specifications	Vendor's Confirmation [With complete technical details]	Deviation, if any
1	Confirmation for each point of specification.	Vendor is requested to give specific confirmation for each point. Deviations if any shall be clearly indicated.		
2	Ambient Condition	The uncontrolled ambient room conditions are: a) Temperature: 10 to 50 °C, b) Relative Humidity: 60 - 90 % c) Operating environment: Neutral gas		
3	Scope of Vendor	5. Design, Manufacture, Testing, at vendor's works. 6. Installation & Maintenance manuals, Mandatory Spares. 7. Training, Installation, Commissioning & Proving performance at BHEL Trichy.		
4	Sound level meter	Measured parameters: LA Other displayed parameters: LAFmax, LAFmin, LASmax , LASmin Frequency weighting: A Measuring range: 30-130 dB Time weighting: slow, fast Operating Frequency: 31.5Hz to 8KHz Overload indicator: detected at the peak sound-pressure level Back lighted display: graphic 128x64 pixels. Adjustable contrast. Resolution: 0.1 dB Reference direction: microphone axis Reference range: 30 - 130 dB		
5	Microphone	Microphone: prepolarised electret condenser. Nominal sensitivity: 20 mV/Pa.		
6	Environmental effects	Storage relative humidity: 95 % RH max. Storage temperature: from 0 °C to + 50 °C. Operating temperature: from -10 °C to + 50 °C.		

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		Humidity dependence: In accordance with standard between 30 and 90%RH, reference being at 65%HR and 40°C		
7	Power supply	One power supply plug with Adaptor for power supply 230 Vac / 8 rechargeable batteries with charger Low battery indication		
8	Along with offer the following details in hard copies shall be indicated.	4. Catalogs - 2 copies. 5. Accessories with Unit price if applicable		
9	Performance Prove-Out at BHEL, Trichy	The Supplier's Service Engineer has to conduct demonstration & calibration of the sensor with Accessories at BHEL, Trichy.		
10	Onsite Performance Guarantee	The instrument & Accessories (including Bought-Out Items) are to be guaranteed for its performance for a minimum period of 2 year from the date of performance acceptance at BHEL, Trichy. Calibration certificate should be produced at the time of delivery.		
11	Installation and O&M manual in ENGLISH Language	2 Nos Installation, Operation & Maintenance Manual. It shall contain Electric Schematics, Circuit Diagrams, Trouble Shooting Charts, Mechanical Sub-Assemblies, Rating of Bought-Out Items, etc. In addition, one soft copy in CD is to be supplied.		



An ISO 9001 Company

Bharat Heavy Electricals Limited
Purchase Dept /R&D and Cr
Tiruchirappalli-620014, Tamil Nadu, India

COMMERCIAL TERMS AND CONDITIONS FOR SUBMISSION OF OFFER

1.0 QUOTATIONS

Bidders shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be sealed in one outer envelope.

Envelope I This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "**Part I - Technical and commercial bid**", indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Envelope II This sealed envelope should contain **price details**. This envelope should be clearly marked "**Part II - Price bid**", indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Both the envelopes (Part I & II) shall be put in one cover, duly sealed, superscribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder.

The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered. We suggest you to send the offer by SPEED POST.

Tender should not be addressed to any Individual's name but only by designation to:

AGM / CCDP
Purchase Department
BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI - 620 014
TAMIL NADU, INDIA

Tenders should be free from **CORRECTION AND ERASURES**, Corrections if any, must be attested. 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.

Offers should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and details of process facility in **ENGLISH**.

2.0 PART I (TECHNICAL & UNPRICED COMMERCIAL BID)

2.1 Technical

This part shall include / indicate the following:

Offer should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.

2.2 Commercial

This part shall include / indicate the following:

- 2.2.1. Port of shipment / Station of despatch
- 2.2.2. Terms of payment
- 2.2.3. Taxes & duties applicable.
- 2.2.4. Delivery Schedule
- 2.2.5. Offer validity
- 2.2.6. Country of origin
- 2.2.7. A copy of "Un-Priced Part II" i.e., a copy of the Price Bid **without the price details** to be enclosed.
(Incomplete offers shall be liable for rejection).

3.0 PART II (PRICE- BID)

This part should contain the schedule of price particulars and to be co-related to the technical details provided in Part I. Wherever required / possible break up price details are to be furnished. (Bidders shall quote only fixed rate / price only and not subject to any escalation whatsoever during the period of bid validity and execution of purchase order. Any bid with adjustable or price variation clause shall be treated as "non responsive" and liable for rejection).

4.0 OPENING OF TENDERS

The Part I - Technical & commercial bid alone would be opened on the Tender opening date at the pre-fixed time. In presence of responded tenderers / authorised representative, who may like to be present for tender opening.

The Part II - Price bid of Technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the tender opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.

5.0 GENERAL

5.1. Incomplete offers will not be considered.

5.2. **Terms of Delivery:** Bidders are required to quote their best delivery period. Delivery shall be counted from the date of Letter of Intent.

5.3. Taxes and Duties : All Taxes and Duties if any payable extra over and above the quoted price should be specifically indicated in the un-priced bid along with CST & TIN No etc., failing which the purchaser will not be liable for payment of such Taxes and Duties (the quoted rates shall be considered as "all inclusive").

Note : We are not eligible to issue C Form.

5.4. Validity of Offer : Offer shall be kept valid for acceptance for a period of 60 days (sixty days) from the date of opening of the price bid.

5.5. Payment terms : Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials. (Any deviation in the above payment term will attract loading as mentioned below.

"Base rate of SBI (as applicable on the date of Techno-commercial bid opening) + 6% will be loaded for the period of relaxation sought by bidders.

Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Stores with Consignee copy attached. In this case Loading will be 3% on the offered value.

5.6. Liquidated damages : It is clearly understood among the parties to the contract the "**Time is the essence of the contract**". Therefore, the delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional penalty as below

a. Liquidated damages shall be 0.5% of the total order value per week or part there of subject to a maximum of 10% of the total order value.

b. For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part there of subject to a maximum of 10% of the total order value.

c. Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).

5.7. Risk purchase : Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefor. The supplier shall be liable for any loss, which the Purchaser may sustain by reason of such risk purchases.

5.8. Test certificates: The Bidders shall clearly mention in their offer that Test Certificates as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.

5.9. Evaluation of the offers shall be on the basis of "To-Door Cost at BHEL, Trichy (Net Cash outflow to BHEL). BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.