



An ISO 9001  
Company

## Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

MATERIALS MANAGEMENT / CAPITAL EQUIPMENT

### ENQUIRY

Phone: +91 431 257 70 49

Fax : +91 431 252 07 19

Email : [csguna@bheltry.co.in](mailto:csguna@bheltry.co.in)

Web : [www.bhel.com](http://www.bhel.com)

	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
	2620900238	31.10.2009	02.12.2009

You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order.

Please note that under any circumstances both **delayed offer** and **late offers** will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of **tender opening**.

Item	Description	Quantity	Delivery (Item required at BHEL on)
10	<b>Ultimate Analyser</b> as per the technical specification & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> )	01 No.	31.03.2010

BHEL commercial terms & conditions with Price Bid and Bank Guarantee formats can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2620900238".

Tenders should reach us before 14:00 hours on the due date  
Tenders will be opened at 14:30 hours on the due date  
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

Sr.Manager / MM / Capital Equipment

**QUALIFYING CRITERIA**

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

**The bid consists of 3 parts namely Qualifying Criteria, Technical bid and Price bid. Vendor shall submit Qualifying Criteria & Technical bid together in a sealed cover. Price bid shall be in a separate sealed cover. BHEL will consider Technical bid only if the vendor/bidder qualifies. BHEL will consider Price bid only if the Technical bid is found acceptable.**

[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:** BHEL uses the title "**CRC EQUIPMENT**" in this document. Please refer Technical Specification attached herewith for further details

S. No.	PARTICULARS	VENDOR's RESPONSE
1.0	The BIDDER / VENDOR shall have a minimum of <b>FIVE</b> Years of Continuous Experience in the Design, Manufacture & Supply of " <b>CRC EQUIPMENT</b> ". Please indicate the actual experience. <b>This is a qualifying criteria.</b>	
2.0	YEAR of launch of the Model quoted against this ENQUIRY	
3.0	Is there any other model launched after the quoted Model? Otherwise, indicate the likely year in which the next model is likely to be launched.	
4.0	Number of " <b>CRC EQUIPMENT</b> " supplied, installed and commissioned till date in India. Please furnish contact person name, address, phone number, fax number and mail id .Please mention that how many are used for coal analysis purpose.	
5.0	Number of " <b>CRC EQUIPMENT</b> " supplied, installed and commissioned till date outside India. Please furnish contact person name, address, phone number, fax number and mail id. Please mention that how many are used for coal analysis purpose.	
6.0	Please enclose Performance Certificates from customers exactly for the model quoted. <b>This is a qualifying criteria.</b>	
7.0	Details of Design Set-Up and Technology Back-Up assured from the PRINCIPAL Equipment Maker.	
8.0	Details on Service-after-Sales set-up in India including the addresses of Agents/Service Centre in India.	
9.0	The BIDDER / VENDOR shall assure a continuous support for SPARES and SERVICE for TEN Years, from the date of commissioning of the equipment at BHEL Works. <b>This is a qualifying criteria</b>	
10.0	The " <b>Technical Bid</b> " shall have vendor's responses along with Product Catalogue, Data Sheets in ORIGINAL and complete technical details of 'Bought-Out-Items' with copies of Product Catalogue. All Technical & Commercial terms can be here. <b>NO</b>	

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**Ref: CRC Eqpt: QC-A**  
**Rev No. 0/Dt. 23.10.2009**  
**Sheet 2 of 2**

	<b>PRICE DETAIL IS ENTERTAINED HERE.</b>	
<b>11.0</b>	The " <u>Price Bid</u> " shall have Price Part with following details. This shall have all price related details.	

<b>Committee Members</b>	<b>Name &amp; Design.</b>	<b>Signature</b>	<b>Initial</b>
	Kannan K/DGM/CR/CRC		
	Vaidnath TR/Manager/CR		
	Sivasubramanian R/Manager/Labs		
<b>For Specifications having reference numbers</b>	CRC- 3	DATE : 23 – 10 –2009	

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**TECHNICAL SPECIFICATIONS FOR ULTIMATE ANALYSER**

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Ref: CRC-3  
Rev No. 0/ Dt. 23.10.2009  
Sheet 1 of 3

Sl. No.	Particulars	BHEL specifications	Bidder's offer [With complete technical details]
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: 100 % c) Dusty	
3	Scope of Vendor	<ol style="list-style-type: none"> <li>Design, Manufacture, Testing, at vendor's works.</li> <li>Original software, Installation &amp; Maintenance manuals, Critical spares &amp; Consumables.</li> <li>UPS for equipment(<b>if required</b>)</li> <li>Training, Installation, Commissioning &amp; Proving performance at BHEL Trichy.</li> <li>On-site Guarantee, On-site Comprehensive Annual Maintenance Contract.</li> </ol>	
4	Name of Equipment	CARBON, HYDROGEN, NITROGEN, ANALYZER	
4.1	Type of instrument	The instrument is used to determine Carbon, Hydrogen, Nitrogen in fuel samples.	
4.2	Sample Quantity	500mg	
4.3	Principle of operation	The system is to be based on the Dumas method of combustion and to provide results fast for all elements analysed simultaneously.	
4.4	Analysis cycle	The analysis cycle should involve purge, burn and analyse and the final results should be displayed as weight percentage or in parts per million as determined by the operator. The results for Hydrogen is to be corrected for moisture.	
4.5	Instrument Range	@ 500 mg weight % Carbon : 0.005 % to 50% Hydrogen : 0.02 % to 50 % Nitrogen : 0.008 % to 100%	
4.6	Precision Range	@ 500 mg	

**Coal Research Centre**  
**TECHNICAL SPECIFICATIONS FOR ULTIMATE ANALYSER**

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**Ref: CRC-3**  
**Rev No. 0/ Dt. 23.10.2009**

Sheet 2 of 3

		Carbon : 25 ppm or 0.5 % RSD (whichever is greater) Hydrogen : 100 ppm or 1 % RSD (whichever is greater) Nitrogen : 40 ppm or 0.5 % RSD (whichever is greater)	
4.7	Detectors	NDIR /TCD	
4.8	Readability	0.0001 PPM	
4.9	Analysis Time	Supplier to quote	
4.10	Furnace	Resistance furnace, both primary and after burner upto 1000 deg C	
4.11	Autoloader	30 position (stackable to 120 samples)	
4.12	Gases Required	To be indicated by the supplier along with specifications	
4.13	Power supply	230V +/- 10% AC/1 Ph/50Hz- 1 Feeder	
4.14	Data System	Latest PC with 17" TFT LCD monitor, Laser printer B/W, Windows XP+ services packages and application package also. (or) Inbuilt data analysis facility with instrument.	
5	Along with offer the following details in hard copies shall be indicated.	a) Catalogs-2 copies. b) Critical spares and consumables list considering 1 year warrantee period and 3 years comprehensive maintenance period. No of samples analysed per year 250. c) Gas cylinders with gas, regulators and tubing. d) PC configuration.	
6	Installation and Commissioning	The Equipment with all Accessories is to be installed & commissioned at BHEL Works, free of cost, by the service engineer of the supplier.	
7	Performance Prove-Out at BHEL	The Supplier's Service Engineer has to conduct demonstration & calibration of the Equipment with Accessories.	
8	Inspection at Vendor works.	BHEL's Inspection is applicable. Lodging, boarding and to & fro charges are in BHEL's account.	
9	Training on Operation & Maintenance at BHEL works.	Complete Training for BHEL Engineers is to be given on Operation & Maintenance of the offered equipment at BHEL works, free of cost.	
10	Onsite Performance	The Equipment & Accessories (including Bought-Out Items) are to be guaranteed for its	

**Coal Research Centre**  
**TECHNICAL SPECIFICATIONS FOR ULTIMATE ANALYSER**

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**Ref: CRC-3**  
**Rev No. 0/ Dt. 23.10.2009**

Sheet 3 of 3

	Guarantee	performance for a minimum period of <b>one</b> year from the date of performance acceptance at BHEL Works.	
11	Installation and O&M manual in ENGLISH Language	2No hard copy and 1 No on CD.	
12	Comprehensive Annual Maintenance Contract.	Critical spares and consumables as in point 3 above can be used by vendor. Spares and consumables required beyond this shall be in vendor's scope. Please consider 3 years comprehensive AMC after the expiry of warrantee period. Please consider <b>4</b> visits per year. The maintenance contract /order will be released separately as optional item and evaluation of tender will be with AMC. Vendor to furnish offer for AMC also.	
13	AMC - RESPONSE	The bidder has to furnish / indicate the response time for the service engineer to be at BHEL works, from the time of reporting breakdown through e-mail or telefax.	