



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

Web : www.bhel.com

	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
	2620900236	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	Gas Analyser as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	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 "2620900236".

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

Coal Research Centre

TECHNICAL SPECIFICATIONS FOR GAS ANALYSER

Ref: CRC-22
Rev No. 0/ Dt. 23.10.2009
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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 ambient conditions of the sample are- a) Temperature: 10 to 50 ° C b) Relative Humidity: up to 100 % c) Dusty																	
3	Scope of Vendor	<ol style="list-style-type: none">1. Design, Manufacture and Testing of equipment with accessories, at vendor's works.2. Original software, Installation & Maintenance manuals, Critical spares & Consumables.3. Training, Installation, Commissioning & Proving performance of equipment with accessories at BHEL Trichy.4. On-site Guarantee, On-site Comprehensive Annual Maintenance Contract.																	
4	Multi Gas Analyzer System	The Multi Gas Analyzer System is to measure the following gas components from dusty atmosphere at ambient condition. Suitable gas sample conditioning system to be included.																	
		<table><tr><th>Gas Component</th><th>Range required</th></tr><tr><td>Oxides of Sulphur</td><td>0 to 2000 ppm V as SO₂</td></tr><tr><td>Oxides of Nitrogen</td><td>0 to 1000 ppmV as NO₂</td></tr><tr><td>Carbon Monoxide</td><td>0 to 2000 ppm V as CO</td></tr><tr><td>Hydrogen Sulphide</td><td>0 to 2000 ppm V as H₂S</td></tr><tr><td>Hydrogen Cyanide</td><td>0 to 100 ppm V as HCN</td></tr><tr><td>Carbonyl Sulphide</td><td>0 to 100 ppm V as COS</td></tr><tr><td>Ammonia</td><td>0 to 1000 ppm V as NH₃</td></tr></table>		Gas Component	Range required	Oxides of Sulphur	0 to 2000 ppm V as SO ₂	Oxides of Nitrogen	0 to 1000 ppmV as NO ₂	Carbon Monoxide	0 to 2000 ppm V as CO	Hydrogen Sulphide	0 to 2000 ppm V as H ₂ S	Hydrogen Cyanide	0 to 100 ppm V as HCN	Carbonyl Sulphide	0 to 100 ppm V as COS	Ammonia	0 to 1000 ppm V as NH ₃
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		Carbonyl Sulphide		0 to 100 ppm V as COS															
Ammonia	0 to 1000 ppm V as NH ₃																		
5	Power supply	230V +/- 10% AC/1 Ph/50Hz- 1 Feeder																	
6	Along with offer	<ol style="list-style-type: none">a) Catalogs-2 copies.b) Critical spares and consumables considering 1 year warrantee period and 3 years comprehensive maintenance period. No of samples analyzed per year 250.c) Calibration gas cylinders with gas for above gases to be measured, regulators and tubing.d) Filled up Technical specification and qualifying criteria.																	

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TECHNICAL SPECIFICATIONS FOR GAS ANALYSER

Ref: CRC-22

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7	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.	
8	Performance Prove-Out at BHEL	The Supplier's Service Engineer has to conduct demonstration & calibration of the Equipment with Accessories.	
9	Inspection	Incase the Equipment is of Indian origin, then BHEL's inspection is required. Incase the Equipment is of Foreign Origin, the vendor should thoroughly inspect the equipment, furnish inspection certificate for BHEL's review and get clearance prior to dispatch of Equipment.	
10	Training on Operation & Maintenance at BHEL works.	Complete Training for BHEL Engineers to be given on Operation & Maintenance of the offered equipment at BHEL works, free of cost.	
11	Onsite Performance Guarantee	The Equipment & Accessories (including Bought-Out Items) are to be guaranteed for its performance for a minimum period of one year from the date of performance acceptance at BHEL Works.	
12	Installation and O&M manual in ENGLISH Language	2 No hard copy and 1 No on CD.	
13	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 4 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.	
14	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.	

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 2 parts namely Technical and Price bid. Vendor shall submit Technical and Price bid separately. 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.

[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 FIVE Years of Continuous Experience in the Design, Manufacture & Supply of “ CRC EQUIPMENT ”. Please indicate the actual experience.	
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 “ CRC EQUIPMENT ” supplied, installed and commissioned till date in India. Please furnish contact person name, address, phone number, fax number and mail id.	
4.1	Number of “ CRC EQUIPMENT ” supplied, installed and commissioned till date outside India. Please furnish contact person name, address, phone number, fax number and mail id.	
4.2	Please enclose Performance Certificates from customer exactly for the model quoted.	
5.0	Details of Design Set-Up and Technology Back-Up assured from the PRINCIPAL Equipment Maker.	
6.0	Details on Service-after-Sales set-up in India including the addresses of Agents/Service Centre in India.	
7.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS namely “ <u>Technical Bid</u> ” & “ <u>Price Bid</u> ”.	
7.1	The “ <u>Technical Bid</u> ” 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. NO PRICE DETAIL IS ENTERTAINED HERE.	
7.2	The price bid shall have all price details.	

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8.0	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.	
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Committee Members	Name & Design.	Signature	Initial
	Kannan K/DGM/CR/CRC		
	Vaidnath T R /Mgr/CR/CCDP		
For Specifications having reference numbers	CRC- 22	DATE : 23 – 10 –2009	