CENTRAL INSTITUTE OF MINING & FUEL RESEARCH

(CSIR, Ministry of Science & Technology, Govt. of India)

H.Q.: Barwa Road Campus, Dhanbad – 826 015 (Jharkhand), India

NIT No.CIMFR/PUR/14(6)2010 Date: 31.01.2011

NOTICE INVITING TENDER

Director, CIMFR invites sealed tenders, in **Two Bid Systems,** for supply, installation and commissioning of **(i) Infra Red Gas Analyzer or Portable Photosynthesis System(ii) High Resolution Field (Hand held) Spectroradiometer/Spectrometer (iii) Thermogravimetric Analyzer (iv) Thermogravimetric Analyzer (simultaneous DSC-TGA.DTA-TGA,TGA).**

Item No.	Particulars of Item	Qty.
1.	Infra Red Gas Analyzer or Portable Photosynthesis System (detailed specification in annexure –I)File No:-CIMFR/PUR/14(22)2010	One Unit
2.	High Resolution Field (Hand held) Spectro radiometer/Spectrometer(detailed specification in annexure –II)File No:- 13(2)/CIMFR-DC/11/10-11/PUR	One Unit
3.	Thermogravimetric Analyzer(detailed specification in annexure –III)File No:-CIMFR/PUR/14(24)2010	One Unit
4.	Thermogravimetric Analyzer (simultaneous DSC-TGA.DTA-TGA,TGA). (detailed specification in annexure –IV)File No:- CIMFR/PUR/14(23)2010	One Unit
Last Date of Submission : 28.02.2011 Time: Up to 5.00 P.M. **Date of Opening (Technical) : 01.03.2011 Time: 3.00 PM onwards** Details of the Tender Document is available at www.cimfr.nic.in		

s/d

S.P.O.

For Director

6 : 0326- 2296030

CENTRAL INSTITUTE OF MINING & FUEL RESEARCH

(CSIR, Ministry of Science & Technology, Govt. of India)

H.Q.: Barwa Road Campus, Dhanbad – 826 015 (Jharkhand), India

NIT No.CIMFR/PUR/14(6)2010

Date: 31.01.2011

NOTICE **INVITING TENDER**

Director, CIMFR invites sealed tenders (In two Bid Systems) for supply, installation and commissioning of below mentioned items:-

Item No.	File No.	Particulars of Item	Qty.	T.D. Fee in DD*	EMD in DD/BG/BC
1.	**CIMFR/PUR/14(22)2010**	Infra Red Gas Analyzer or Portable Photosynthesis System (detailed specification in annexure –I)File No:-	One Unit	Rs.300.00	Rs.68000/-
2.	**13(2)/CIMFR-DC/10-11/PUR**	High Resolution Field (Hand held) Spectro radiometer/Spectrometer with GPS (detailed specification in annexure –II)File No:-	One Unit	Rs.300.00	Rs.1,80,000/-
3.	**CIMFR/PUR/14(24)2010**	Thermogravimetric Analyzer(detailed specification in annexure –III)File No:-	One Unit	Rs.300.00	Rs.85,000/-
4.	**CIMFR/PUR/14(23) 2010**	Thermogravimetric Analyzer (simultaneous DSC-TGA.DTA-TGA,TGA). (detailed specification in annexure –IV)File No:-	One Unit	Rs.300.00	Rs.1,25,000/-

*** No tender fees are required in case it is downloaded from the site www.cimfr.nic.in.**

Note*:* The Tender Document can be obtained from the Office of the Stores & Purchase Officer, CIMFR, Barwa Road, Dhanbad on written request on payment of the non- refundable and non – transferable tender document fees as stated above in the form of cross Demand Draft issued by a scheduled bank drawn in favour of Director, CIMFR, payable at State Bank of India, Hirapur Branch, Dhanbad from **31.01.2011** to 28**.02.2011 upto 5 PM**. CIMFR will not be responsible for non- receipt of the Tender Documents due to postal delay/loss in transit. The tender complete in all respect along with EMD should reach to this office on or before **28.02.2011** upto **5.00 PM** and will be opened on **01.03.2011** at **3.00 PM** onwards at CIMFR H.Q.

A certificate from the vendor mentioning that price quoted are not higher than provided to any other CSIR lab purchased the instrument

Tender Documents with detail terms & conditions can be downloaded from our website: **www.cimfr.nic.in .** Tender fees will not be required if it is downloaded from the website up to the tender sale period. The required EMD as stated above in the form of DD or BG must be enclosed in the Technical Bid failing which the offer will be treated as non-responsive.

Director, CIMFR reserve the right to accept or reject in part or in full to any or all the tender without assigning any reason thereof.

6 : 0326- 2296030

S/d
S.P.O
For Director

CENTRAL INSTITUTE OF MINING & FUEL RESEARCH
(CSIR, Ministry of Science & Technology, Govt. of India)
H.Q.: Barwa Road Campus, Dhanbad – 826 015 (Jharkhand), India

NIT No.CIMFR / PUR / 14(6)2010 Date: 31.01.2011

NOTICE INVITING TENDER

DETAILED SPECIFICATION
ANNEXURE –I
CIMFR/PUR/14(22)2010

Item No: - 1 Specification for Portable Photosynthesis System

1. Portable gas exchange measurement device with built in temperature, relative humidity, CO_2 and red-blue light control
2. Fluorescence attachment for the simultaneous measurement of fluorescence and gas exchange on the same leaf area
3. Instrument should be capable of making auto correction for pressure difference for making measurements
4. System should provide LCD graphic display with all the parameters and controls on the screen
5. System should provide high storage capacity, high processing speed and least response time
6. Standard leaf chamber with PAR sensor
7. Include all accessories and tools to make system fully functional
8. Instrument with best measurement and technical range suiting high ambient temperature measurements would be preferred.
9. Four sets of rechargeable batteries with two chargers
10. Appropriate number (at least 25)dark adaptation clips for the same
11. At least 150 numbers of CO_2 cylinders, if the system uses these
12. Add 20 bottles each of CO_2 and H_2O scrubber each, if used in the system
13. Soil respiration chamber attachment must be quoted
14. All the cables and connections necessary to data transfer
15. Spare parts including temperature thermocouple, O-rings, wires, sealing pads, field stand, etc and other necessary items should be provided
16. Minimum three year comprehensive warranty, from the date of installation
17. All the necessary literature, brochures and training DVDs
18. Installation and demonstration to a group of scientists within 15 days of arrival of instrument

Optional

1. Whole plant Arabidopsis chamber
2. Leaf area adaptors

ANNEXTURE -II

File No.13(2)/CIMFR-DC/11/10-11/Pur

Item Sl. No.2

Specifications for High Resolution Field (Hand Held) Spectroradiometer

Sl No.	Items	Features
1.	Special Range	2-16 micrometers
2.	Spectral resolution	$4cm^{-1}$ or better
3.	Accuracy to NIST Traceability	Blackbody calibration upto +/-0.2 degrees
4.	Options for Field of view	5 deg (+/-0.5 deg) standard 3 deg (+/-0.5 deg) optional
5.	Measurable parameters	Radiance and Emissivity in the field.
6.	Calibration and Measurement options	Thermoelectrically controlled hot/cold blackbody calibrator with temperature range 5 6o 95 deg C 5 x 5 inch Gold Plate with down-welling radiance measurements
	Data recording	Embedded PC type computer to acquire, process and store spectra on an internal hard disk.
8.	Computer interface options	RS232, USB and Bluetooth
9.	Battery Charger & Battery	It must have high-quality chargeable batteries with working capability for 2-3 hours a time with adapters working at C supply (- 230 V, 50Hz) existing in India.
10.	Operating Environment	15 to 40 deg C, 95% humidity
11.	Software	Necessary software for Data Logging and data transfer
12.	**Water proof carrying case, rugged enough for frequency field exercise.**	
13.	**Compact and highly portable with tripod stand for mounting.**	

Note :

Preference will be given to latest version.

Three years on-site warranty; if standard warranty is of one year, vendor may quote for additional two years of warranty. After sale service must be available in India. Post warranty AMC.

Installation with intensive on-site training (2-3 weeks) with operations/service manual and calibration manuals.

Instrument should be supplied through authorized Indian representative or manufacturer.

Only New equipment is to be quoted (No quote for re-furbished instrument)

Spares support for at least five years from the installation and may be intimated before hand for any up gradation.

Vendor should supply calibration specification/certificate, information or periodic calibration support and point to point compliance statement against the specification.

SPECIFICATIONS OF DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

Major Technical Specifications for DGPS

Sl No.	Items	Features
1.	Accuracy Required	a. Static : 3mm/5mm (Horizontal/Vertical) or better b. Rapid Static : 3mm/5mm (Horizontal/Vertical) or better c. RTK: 10mm/15mm (Horizontal/Vertical) or better
2.	GPS Receiver	a. Ability to track GNSS (GPS+GLONASS) and SBAS signals b. 72 universal channels (L1, L2, L2C) or better c. Time to first fix: 50 sec, with signal reacquisition of 0.5 sec or better d. Sampling frequency : 10 Hz (Position update) e. Should be capable of being set-up as a base unit for static and RTK surveys and operate autonomously without the need for hand held controller, terminal or other external device. f. LED status indications for data logging, data recording, satellite tracking and availability. g. Customized occupation Timers for static surveys h. Voice Messages for status indications like loss of lock, RTK signal etc.
3.	Antenna	a. Integrated dual band frequency antennal with choke ring or pin wheel technology b. Capable of receiving all GNSS (L1, L2, L2C) and SBAS signals
4.	Power Management	a. Integrated internal batteries must provide power to receiver during RTK and post processed modes b. Receiver can be powered from external batteries from 9V to 18V DC power source c. Operating Time: 5 hours or better with internal radio operation
5.	Broadcast message formats	a. Standard Input/Output: RTCM, RTCM V3.0, RTCA, CMR, CMR+, NTRIP, NMEA-0183 or advanced formats b. Virtual reference station with connection to multiple Bluetooth, Wireless and peripherals
6.	Memory	a. Should have standard $\geq$ 2GB internal memory and can be upgradable to better capacity b. Capable of providing Raw GPS measurements for post processing to the internal memory or an external device such as PC
7.	Comm. Ports	(a) RS.232 Ports: 02 Nos. (b) USB Ports : 02 Nos. (c) Bluetooth Ports
8.	Physical Characteristics	a. RoHs Lead Free environmental status b. Hermetically sealed with IPX standard water proofing c. Operating temperature range : -40^0C to $+65^0$C
9.	Data Controller & Computer	a) Must be Microsoft Windows CE 4.2 or better processor with 400 MHz, 128MB ROM and 512MB RAM with additional storage to PC. b) Should meet applicable military standards (MIL STD 810F shock, IPX7, etc.) c) Shall have PCMCIA slots and two serial ports and RS-232C

		output port d) Status screens on the controller to allow the user to monitor the quality of the GPS data and to review current information about available satellites. e) Data must be in the industry standard DXF, SHP, SDR, DWG, MOSS etc. and support printer connectivity. f) Should have seamless integration with other surveying sensors like total stations g) Can perform surveys in local coordinates and are transformable for one to other as and when required.
10.	Internal Radio (VHF/UHF: license free band)	a. Should work in civilian band of frequency 380-470 MHz (Tx-Rx) b. Tx/Rx power should cover range of 5km or better c. Both base Rover must have provision of programming as interchangeable base and rovers without any change in hardware d. Both Base and Rover should have built in GSM Modem along with internal VHF/UHF radios
11.	Post Processing Software	a. Must be fully compatible Windows XP, VISTA and above and can run on Pentium Class PC with 32 bit standard graphics drivers. b. Facility for base line processing, Network adjustment and Mission planning. c. Simultaneous processing of Static, Rapid Static, Kinematic and Stop and Go Surveys for GNSS data d. Integrated post processing and least squares network adjustment for GPS baselines. e. Ability to display coordinates in various mapping systems and datum including the ability to show coordinates in user defined datum f. Import and export RINEX, SHP, DXF, DWG, TAB, MIF data g. Capable of supporting COCO functions, raster data, Google Earth View, CAD view etc. h. Enable the user to perform the following functions i) Enable/Disable specific satellites ii) Enable/Disable specific GPS observable iii) Change elevation mast iv) Utilize precise ephemeris/clock data v) Application ionospheric and tropospheric corrections vi) Base line rejection parameters.
System Features : Base Station : Dual frequency GPS receiver with corresponding data controller and Unlicensed VHF/UHF and GSM integrated radios to cover 5 km range or better. Dual frequency GPS with corresponding data controller and unlicensed VHF/UHF and GSM integrated radios to cover 5km or better. Post processing software.		
Note : *The quoted model should be current and latest. The year or release of the model to be mentioned in the technical bid.* *Three years onsite warranty; if standard warranty is of one year, vendor may quote for additional two years of warranty. After sale service must be available in India. Post warranty AMC.* *Installation with intensive on-site training (2-3 weeks) with operations/service manual and calibration manuals.*		

SPECIFICATIONS FOR GEO IMAGING SOLUTION DIGITAL CAMERA

Sl No.	Items	Features
1.	CCD	≤ 8MP, 1 /2.7" CCD
2.	Lens	Focal Range: Lr. Limit : 5-6mm, Upper Limit: 15-17mm
3.	Digital Zoom	X3 (> x10 in combination with optical zoom)
4.	Recording Media	SD Memory Card >1GB, Multi Media Card >64MB, Built-in Memory >8MB, (Higher up to 8GB memory preferable)
5.	Recording Modes	Still, Scene, Text, Motion and Sound
6.	Recording Format	Still: JPEG, Text: TIFF, Motion: AVI, Sound: WAV (or others compatible with DGPS/Spectroradiometer & DIP software).
7.	Storage Capacity	8GB or higher capacity preferred
8.	LCD Monitor	≥2.5 silicon TFT LCD
9.	Resolution (Minimum)	Still: 2048x1536/1280x960/640x480, Text: 2048x1536/1280x960, Motion: 320x240/160x120 (Higher resolution preferable)
10.	Power Source	Rechargeable lithium-ion battery, 2AA batteries (NiMH) along with AC adapter
11.	Operating Temperature	$0\text{-}48^0$C
12.	Bluetooth specifications	Communication scheme: Bluetooth standard version 2.0+EDR, Output: Bluetooth standard power class 2 supported Bluetooth profiles: BIP, OPP, SPP
13.	Wireless LAN Specification	Interface standard: IEEE 802.11 b/g, Security: WEP (64/128 bit), WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)
14.	Accessories	Neck Strap, USB Cable, Rechargeable, Battery, Charger, Memo Software, 2-8 GB Memory Card and Necessary Software.

System Features

Facility to integration of information with images, increase workflow efficiency and improve the accuracy of information collected in the field.

Capability to combine barcode scanning with digital imaging, integrate quality images into mapping software.

Facility to capture and automatically store GPS coordinates in the image files.

Transfer pictures and data to any GIS mapping software.

Should link images and associated meta-data to mapped points based on their GPS location.

Allow additional meta-data to be embedded into the image.

Facility of compass features for capturing the direction.

Wide angle and adaptable to converter lenses.

Bluetooth, WIFI and rugged construction.

Note :

Three years on-site warranty; if standard warranty is of one year, vendor may quote for additional two years of warranty.

Onsite training (1-2 weeks) with Operations/Service Manual and Calibration manuals.

Preference will be given to latest version.

Accessories Required for Annexure II

1. **Image processing with integrated GIS Analysis facility software**: Software combines the latest spectral image processing and image analysis technology with an intuitive, user-friendly interface equipped innovative integrated analysis work flow module with powerful spectral analysis algorithms and DEM Extraction Module, Atmospheric Correction Module, Orthorectification Module etc.
2. For off field lab processing of field and laboratory data : Pentium PC with HDD 500GB, RAM ≥4GB, Pentium 4 Core 2 Duo Processor, Motherboard – G33, Graphics ≥512MB, LCD 19-21" TFT, DVD Writer, UPS-dual battery, Keyboard and Mouse Combo pack.
3. Photogrammetric Software with -3D view favility.
4. For on field processing : Wi-Fi enabled laptop Laptop with 206 GHz or higher clock speed, 4GB DDR2-RAM, 500GB SATA HDD,CDRW-DVD Combo Drive , 1 parallel, 2 serials, 1 IR and 3 USB ports, 15.4" TFT Active Matrix display with high resolution, O/s: recent Windows 7 Version, One universal AC/DC Adapter/Charger with Notebook Carry Case.
5. AO/A3 Size Scanner & Plotter with printing facility in RGB mode.

Note :

- Preference will be given to the latest version of above items.
- For Software : Onsite training (1-2 weeks) with operations/service manual and calibration manuals.

Annxxure- III
File No: CIMFR/PUR/14(24)2010

Item No: - 3 Instrument: **Thermogravimetric Analyser (TGA)**

Objective: To conduct pyrolysis and gasification experiments of coal/biomass with various inert gases (Helium, Argon, and Nitrogen) and various non explosive gasifying agents such as, air, CO_2, O_2 and the mixture of inert and non explosive gases in desired proportion.

Instrument should have operating temperatures from room temperature to 1600 deg. C with varying heating and cooling rate. Instrument should record change in weight very accurately with temperature and time. Instrument should run isothermally and non-isothermally throughout the range of temperature. Balance Sensitivity should be high. For precise and accurate measurement, there should be no mixing of reaction chamber gases and balance chamber gases. Instrument should be supported with user friendly software. Additionally, instrument should be supported by standard gasification kinetics software. Instrument should have port for product gas collection. Provision should be there to introduce measured amount of inert (He, Ar, N2) and other non explosive gases (CO2, O2 and Air) or their mixture in desired proportion to the reaction chamber.

Detailed specification of TGA is given below:

) **Temperature requirement:** From room temperature to 1600 ^{0}C. The unit should have programmable temperature control. Instrument should run in both isothermal and non-isothermal mode.

- Temperature scanning rate for both heating and cooling: 0.01 to 100^0 C/min.

i) **Weight:** Maximum balance capacity is up to 35 gram. Powdered or small solid pieces of sample (mainly coal/biomass) to be studied. Instrument should be able to take load of 50mg -3 gm or more sample (coal/biomass). Sample crucible volume maximum up to 3 cc or more. Crucible should be made of such material that it can sustain 1600^{0}C temperature in inert gas, CO_2, air, O_2 or their mixture (in desired proportion) atmosphere. Crucibles should be of cup type and plate type.

- Sample crucibles (plate type) of 1cc or less: 3 nos.
- Sample crucibles (cup type) of 1cc or less: 3 nos.
- Sample crucibles of 1- 3.5 cc: 3 nos.
- Sample crucibles of more than 3.5 cc: 3 nos.
- Sample Carrier: 2 nos.
- Balance resolution should be1 microgram or better for entire measuring range and balance drift is better than 5 microgram/hr.

ii) **Gas input system**: various inert gases (Helium, Argon, and Nitrogen) and various non explosive gasifying agents such as, air, CO_2, O_2 and the mixture of inert and non explosive gases in desired proportion should be introduced into the system in measured amount. A high precision mixture capable of mixing inert and non-explosive gases in desired proportion with digital display arrangement should be there. Gas flow should be controlled by very good quality MFC (flow rate from 10-200 ml/min). System

should be vacuum controlled (10^{-2} mbar) with fast switchover facilities for different gaseous atmosphere in the reaction chamber with out affecting the balance.

v) **Product gas collection:** Instrument should have port for product gas collection and up gradation.

*) **Thermostat** for the balance housing should be provided.

*i) **Data acquisition and monitoring system**: I/O interface drivers and software for measurement of change in mass with temperature and time with state-of-art computer configuration. The software should be able to display change in mass with temperature and time very accurately. This software should be able to calculate residual weight, rate of change of mass (1^{st} order derivative) in different units (wt/min or %/min). The software should have related statistical analytical tool. Software shall have to be compatible for installation in multiple computers and repeated installation should be allowed

*ii) **Software for kinetic analysis:** Software for kinetic analysis should give reactivity, Arrhaneous plot, Activation energy and related parameter with standard method.

*iii) **Suitable notebook to run the above TGA system with the following minimum specifications and HP colour laser jet printer** (to be provided by the supplier).

Minimum specification of the notebook (Sony/Dell/HP)

Processor : Intel Core i5 (2.66 GHz 3 MB) or more

Operating System : Genuine Windows 7 Professional 64 Bit English version

Chipset : Intel

Total memory : 6GB DDR3 (expandable up to 8 GB X 3)

Display type : 33 cm or more, TFT colour display with LED backlight

Hard drive device : 512 GB

Optical device : DVD recordable (dual layer)

Interface : USB port 3 or more, HDMI out put

Body : High durable and light weight carbon fibre body

Others : Blue tooth laser mouse and key board.

x) **Calibration:** Instrument should be calibrated properly and the calibration to be checked with std. reference material at user's site (ultra pure Calcium oxalate, to be supplied by vendor minimum 50 gm). Complete calibration kits to be provided.

*) **Installation, Commissioning and training:** Installation and commissioning will be done by supplier's engineers at buyer's premises. Training for complete operation of instrument and software to be provided to the concerned scientists/technical persons at buyer's premises for seven days by testing standard reference samples and user's samples free of charge.

xi) Common tools and essential spares (such as each type of O-rings, ferrule, nuts, bolts, wrenches, PTFE/SS gas tube between system and cylinders etc.) necessary for servicing or trouble shooting have to be supplied for a period of three years.

xii) **Warranty:** Three years after successful installation and commissioning.

xiii) All the manuals including complete service/user's instruction manual have to be supplied (both hard copy and soft copy).

xiv) AMC charges (consumable/non-consumable) for two years after warranty period to be mentioned (optional).

xv) Power: 220V AC ± 5%, 50 Hz, Single phase.

Annexure –IV

Fiel No:- CIMFR/PUR/14(23)2010

Item No: 4 Thermogravimetric Analyser

Detail specifications for the instrument:

1. Simultaneous DSC-TGA, DTA-TGA, TGA in a same system.
2. Temperature range: Room temperature to 1600^{o}C, with range of heating rate: 1^{o}C to 100^{o}C/min.
3. (a) Sample weight for TGA: To accommodate up to 2.5 gm. of sample (solid sample in small pieces/ powder form), in dish/ pan type/crucible sample holder.
   (b) TG balance measuring range up to 35 gm with 1 microgram sensitivity for entire measuring range for all options as in sl no.1.
4. a) Gas purging system shall have to be capable of creating pure gas atmosphere or any desired composition of gas mixture in the sample chamber. No mixing of sample purge gases with protective gas (balance/ furnace) in sample chamber.
   b) Multi gas purging system (minimum two) in the sample chamber so that any desired composition of gas mixture (of two gases) may be utilized.
5. Provision for isothermal run should be there in all options as stated under serial number-1
6. Quick switching over of gaseous atmosphere in the furnace chamber. Gas flow rate range should be 10 to 200 ml/min or more for each purge gas in sample chamber, controlled by mass flow meter.
7. Cooling system, water circulation system, thermostatic cooling arrangement, Vacuum pump etc., which ever is required for coal samples will have to be provided as an integrated system. Vacuum arrangement (capable of creating 10^{-2} millibar) is to be provided along with provision of carrying out experiment under vacuum.
8. Cp measurement up to 1400 ^{o}C, to be supplied with Cp calibration standard & soft ware.
9. Updated measurement and analytical software for TGA, DSC-TGA, DTA-TGA. Up to date kinetic software has to be provided. Softwares shall have to be compatible for installation in multiple computers and repeated installation have to be allowed.
10. Computer system:
    Suitable windows based software to control the system along with latest desktop computer (Intel® Core™ I_5-650 processor (3.20 GHz, 1333 MHz, 4MB), 4GB RAM, 500 GB solid state HD, TFT monitor (21 inch), Genuine Windows 7 Professional 32, DVD Recordable (Dual Layer), 4Nos. USB port, make: HP/Dell/IBM) compatible with thermal analysis software and main system and one latest Colour Laserjet printer. (make: HP/Canon) compatible for taking printouts of the thermograms.
11. Sample carriers and Crucibles:

) a.) Sample carriers for protective TG with S type thermocouple: RT to 1600 ^{o}C- This should be capable of holding upto 2.5gm of sample in suitable crucible. Two numbers.

b.) Sample carriers for normal TG with S type thermocouple: RT to 1600 ^{o}C- This should be capable of holding upto 2.5gm of sample in suitable crucible. Two numbers.

i) Sample carrier for TGA DTA: 'S' type thermocouple: RT to 1600 ^{o}C - Two Numbers

ii) Sample carrier for TG- DSC: S type thermocouple: RT to 1600 ^{o}C- Two Numbers

v) Crucibles for TGA: plate type Alumina crucibles to accommodate sample capacity 2.5gm – 3nos.

v) TG crucibles Alumina, vol 2.5 ml approx (capable of accommodating 2.5 gms of powder sample)- quantity 20 nos with lids

*v*i) Crucibles for TGA DTA: alumina 10 pcs with lid and 20 pcs without lid

*v*ii) Crucibles for TGA DSC: alumina 20 pcs with lid and 30 pcs without lid

*v*iii) Crucibles for TGA DTA: Platinum 5 nos. with lid

x) Crucibles for TGA DSC: Platinum 5 nos. with lid

12. Ultra pure Common reference material (alpha alumina) has to be supplied approximately 100gms)

13. Ultra pure calcium oxalate, calcium carbonate, quartz sample, etc. which ever is required for checking of instrument calibration have to be supplied (minimum 50 gm packet for each).
14. All the manuals including complete service manual has to be supplied (both hard copy and soft copy).
15. Weight calibration kits, certified calibration standards for sensitivity, temperature and Cp have to be supplied for entire range.
16. Common tools and essential spares (such as each type of O-rings, ferrule, nuts, bolts, ranges, PTFE/SS gas tube between system and cylinders etc.) necessary for servicing or trouble shooting have to be supplied for a period of three years operation.
17. Three years warranty should be covered with effect from date of commissioning of the instrument.
18. On site training on operation, maintenance, analysis and trouble shouting have to be provided.
19. CO2, O2, N2, Ar gas cylinders (one each along with all necessary certificates) double stage SS regulators, connectors, moisture trap, nuts, ferrules, tubes, gas flow meters has to be supplied by the supplier of the instrument and those have to be connected and integrated with the main unit. Capacity of the regulator and gas flow meter should comply with the desired gas flow rate as stated in the specification no. 6.
20. 10 KVA online UPS with 1 hr backup (make APC/ TATA Libert) with maintenance free Exide batteries. Installation and commissioning of UPS including earthling and output distribution with warranty. UPS should contain all provisions to meet up the requirement of entire set up.
21. AMC charges of the instrumental set up after completion of warranty period has to be mentioned.
22. Power: 220V AC± 5%, 50Hz, Single Phase

Central Institute of Mining & Fuel Research

Erstwhile Central Mining Research Institute
(Council of Scientific & Industrial Research)
Barwa Road Campus, Dhanbad –826015 (Jharkhand), INDIA

COMMERCIAL TERMS & CONDITIONS

Important Notice

The Commercial Terms & Conditions is given in five different sections, which may please read carefully before submitting the tender. Any deviation and non- compliance of the terms & conditions must be written clearly. An incomplete offer and late bids are liable to be ignored and rejected. To aid the Bidders in submitting complete offers, a Check List is included in the bid document. The bidders must fill this and submit along with their offer in their own interest to avoid rejection of their tender.

Request For Proposal (RFP)

NIT No. CIMFR/PUR/14(6)2010

1.Last Date for Submission of Bid : **28.02.2011upto 5.00 P.M**

2.Date of Opening of Tender(only Technical Bid in case of Double Bid System) : **01.03.2011 at 3.00 P.M**

3.Date of Opening of Financial Bid wherever applicable : TENDERERS WHOSE TENDERS ARE FOUND TECHNICALLY SUITABLE WILL BE INTIMATED SEPARATELY

SECTION - I

INVITATION FOR THE BIDS

Sealed tenders are invited under **Two Bids System 1**. Technical-Commercial Bid and **2**. Financial Bid for the products mentioned in our Global / Open Tender Notice required to be supplied, installed, commissioned and demonstrated at CIMFR, Dhanbad. **Technical- Commercial Bid and Financial Bid should be identical in all respects except that the Technical-Commercial Bid should have blank space at the place where prices have been indicated in the Financial Bid.**

Tenderers are requested to submit their tenders in one envelop containing three separate envelopes 1. EMD Envelope, 2. Technical-Commercial Bid Envelope and 3. Financial Bid Envelope duly sealed and super scribed with "Tender No. CIMFR/PUR/14(6)2010 for**(i) Infra Red Gas Analyzer or Portable Photosynthesis System(ii) High Resolution Field (Hand held) Spectroradiometer/Spectrometer (iii) Thermogravimetric Analyzer (iv) Thermogravimetric Analyzer (simultaneous DSC-TGA.DTA-TGA,TGA).**

Last Date of Submission : 28.02.2011 Time: Up to 5.00 P.M.

Date of Opening (Technical) : 01.03.2011 Time: 3.00 PM onwards

Technical-Commercial Bid should consist of:

1. Technical specifications being offered by the firm of Tender Documents along with Brochures and literature giving all features.
2. Certificate of Registration of firm
3. **Authorization Letter from the manufacturer to quote and submit tender.**
4. Certificate of valid Authorised Distributorship/Dealership/Retailer ship from the manufacturer.
5. Latest Income Tax Clearance Certificate
6. Certificate of Central Sales Tax/Local Sales Tax Registration No. Authorised Service Provider Certificate from the Manufacturer only.
7. **Photocopy of Warranty Service Provider Agreement between the manufacturer and the Service Provider.**
8. Clients list along with addresses, Telephone Nos., Fax Nos., Contact persons. Product supplied, Qty. supplied, Performance Certificates/Bench marking of the equipments by recognized National/Institutional/ Govt. organization like Department of Electronics.
9. Last Audited Balance Sheet of the firm.
10. Maintenance Infrastructure Facilities including addresses, Telephone No. of Service Centre.
11. Photocopy duly attested of Certificate of compulsory enlistment of Indian Agents of Foreign Principals with DGS&D **(wherever required)** quoting on their behalf. Date of enlistment must be before the date of opening of tenders.
12. Details of Equipments supplied of identical or similar nature to other CSIR Labs/Institute for the preceding three years along with the prices eventually or finally paid.

Commercial Terms :

a. Percentage rate of CST/LST, Octroi, freight and forwarding charges, handling charges, loading/unloading charges, any other tax/charge as applicable should be clearly mentioned. The offers indicating "Taxes as applicable" or "Taxes inclusive" may be rejected.
b. Validity of Quotation
c. Delivery Period
d. Payment Terms
e. Warranty
f. Training
g. Discount
h. Terms of Delivery
i. Post Warranty AMC
j. Performance Security Deposit
k. Liquidated Damages
l. Installation, testing and commissioning charges
m. Percentage of Agency Commission in case of imports.
n. Agency Commission should be included in the FOB Price and will be paid to the Indian Agents if registered with DGS&D **(wherever required)**
o. Gateway Airport in case of shipment from abroad
p. Beneficiary Bank and SWIFT No. in case of imports

Financial Bid should consist of:

Basic Price in case of indigenous supply/FOB price in case of imports

Commercial Terms

a. Percentage rate of CST/LST, Octroi, freight and forwarding charges, handling charges, loading/unloading charges, any other tax/charge as applicable should be clearly mentioned. The offers indicating "Taxes as applicable" or "Taxes inclusive" may be rejected.

b. Validity of Quotation
c. Delivery Period
d. Payment Terms
e. Warranty
f. Training
g. Discount
h. Terms of Delivery
i. Post Warranty AMC
j. Performance Security Deposit
k. Liquidated Damages
l. Installation, testing and commissioning charges
m. Percentage of Agency Commission in case of imports.
Agency Commission should be included in the FOB Price and will be paid to the Indian Agents if registered with DGS&D **(wherever required).**
n. Gateway Airport in case of shipment from abroad
o. Beneficiary Bank and SWIFT No. in case of imports

The bids complete in all respects addressed to the Director, CIMFR should reach at the following address **latest by 5.00 PM on 28.02.2011.**

Central Institute of Mining & Fuel Research
Erstwhile Central Mining Research Institute
(Council of Scientific & Industrial Research),
Barwa Road Campus, Dhanbad -826015, JHARKHAND, INDIA
' : 0091-0326-2296030,
STD CODE: 0326

The Tenders (Technical Bids only wherever applicable) will be opened in this Office at 3.00 P.M hours on 01.03.2011 in the presence of Bidders (only one representative of the firm) who is willing to participate in the tender and whose EMD is in order.

SECTION - II

INSTRUCTION TO BIDDERS

1. Scope of Work:

Supply installation, testing, commissioning, demonstration and training in the usage and administration of procurement of products mentioned in our Open Tender Notice.

2. Bidders:

The invitation for Bid is open to all Indian Original Equipment Manufacturers / Authorized Distributors/Authorized Dealers/Authorized Retailers/Foreign Manufacturers or suppliers directly/authorized Indian Agents. In such cases where the tenders are submitted by the Indian Agents of their Foreign Manufacturer/Supplier or directly by the Principal to CIMFR, then the tender of Foreign Manufacturer/Supplier will only be considered and CIMFR will deal directly with the Foreign Manufacturer/Supplier or otherwise as decided by Director' CIMFR.

3. Cost of Bidding:

The bidders shall bear all costs associated with the preparation and submission of its bid and CIMFR will in no case be responsible or liable for these costs regardless of the conducts and the outcome of the bidding process.

4. The Bidding Documents:

The goods and services required, bidding procedures and contract terms are prescribed in the bidding document. In addition to the invitation for the bids, the bidding document includes:

a) Instruction to bidders
b) Schedule of requirements
c) Technical Specifications
d) Terms & Conditions
e) Bid form and price schedule

The bidder is expected to examine all instructions, forms, terms and conditions in the bidding document. Failure to furnish all information required or submission of bid not substantially responsive to the bidding documents in every respect will be at the bidder's risk and may result in rejection of its bid.

5. Preparation of bids:

The bids are to be submitted in three separate sealed envelopes
a) Earnest Money Deposit
b) Technical-Commercial Bid
c) Financial Bid

6. Submission of Bids :

a) Sealing and Marking of Bids

i) The bids shall be submitted in three separate sealed envelopes addressed to **The Director, Central Institute of Mining & Fuel Research , Barwa Road, DHANBAD-826015 JHARKHAND, INDIA** which shall be marked as "EMD", "Technical-Commercial Bid" and "Financial Bid" mentioning Tender Number, Description of Item and Date of Opening and all the three envelopes should be put inside the big envelope.

ii) The Envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared late and delayed.

Telex, cable, facsimile and unsigned bids will not be considered and rejected.

b) Deadline for submission of Bids

i) Bids must be received by CIMFR at the address given in Section-I not later than the time and date specified on the cover page. In the event of the specified date for the submission of bids being declared a holiday for CIMFR, the bids will be received up to the appointed time on the next working day.

ii) The Director, CIMFR may at his discretion extend the deadline for submission of bids by amending the bid documents, in which case all rights and obligations of the purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

c) Late Bids

Any bid received after the deadline for submission of bids prescribed by CIMFR will be rejected and/or returned unopened to the bidder.

d) Bid Opening and Evaluation

Opening of Technical Bids by Purchaser

The Purchaser will open all Technical-Commercial Bids, if the EMD, is submitted as per requirement in the presence of bidders' representatives who choose to attend, at the time, on the date and venue indicated in Section-I. The bidders' representatives present there, shall sign a register evidencing their attendance. In the event of the specified date of the bid opening being declared a holiday for the Purchaser, the bids shall be opened at the appointed time and location on the next working day.

e) Clarification of Bids

i) During evaluation of the bids, the purchaser may at his discretion ask the Bidder for clarification of bids. The request for clarification and the response shall be in writing and no change in price or substance of the bid shall be sought, offered or permitted.

ii) No Bidder shall contact the Purchaser on any matter relating to its bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Purchaser, it should be done in writing.
iii) Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award decision may result in rejection of the Bidder's bid.

f) Evaluation of Technical Bid

i) Prior to the detailed technical evaluation the purchaser will determine the substantial responsiveness of each bid to the Bidding Documents. A substantially responsive bid is one that conforms to all the terms and conditions of the Bidding Documents without material deviations.

ii) A bid determined as not substantially responsive will be rejected by the purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

iii) All the vendors will have to bring their equipment/machine for testing and technical evaluation/bench marking as and when asked for, if required. Separate communication will be sent in this regard.

The bidders short listed by the purchaser based on evaluation of their technical bids may be called for detailed discussion including presentation of their equipment system to a team selected by the purchaser for the purpose, at a specified date, time and venue, if needed.

g) Opening of Financial Bids

i) The purchaser will open the financial bids of only those bidders, which are found to be technically qualified to undertake the job. The time, date and venue of opening of financial bids will be intimated to these technical qualified bidders only.

ii) The Financial Bids of the technically qualified bidders shall be opened in the presence of their representatives, who are willing to participate, on the specified date, time and venue.

h) Evaluation and Comparison of Bid

i) The comparison shall be of all inclusive price of goods, inclusive of all costs as well as taxes paid or payable and the warranty period asked for.

ii) Arithmetical errors will be rectified on the following basis: if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of errors, its bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

iii) Bidders shall state their bid price for the payment schedule. Bids will be evaluated on the basis of this base price. Bidders are however, permitted to state an alternative payment schedule and indicate the reduction in bid price they wish to offer for such alternative payment schedule. The purchaser may consider the alternative payment schedule offered by the selected Bidder but it may not be binding on purchaser.

) Placement of Purchase Order

The purchaser will place the purchase order on the successful bidder whose bid has been determined to be substantially responsive and has been determined as the best evaluated bid provided further that the bidder is determined to be qualified to perform the contract satisfactorily.

) BANK DETAILS OF THE BIDDERS:

) Name of the firms/Org.:

i) Bank A/c No:-

ii) Name of A/c holder:-

v) Name of Bank:-

) Branch Code:-

i) RTGS Code:-

ii) NEFT Code:-

iii) SWIFT Code:-

x) MICR Code:-

SECTION - III

TERMS & CONDITIONS

1. Submission of Tenders: Sealed tenders must be submitted in an envelope duly super scribing "Tender/File Ref.No., Description of item and Date of Opening" addressed to **The Director. Central Institute of Mining & Fuel Research, Barwa Road, Dhanbad - 826015 JHARKHAND, INDIA** in the Tender Box kept in the Office of the Stores & Purchase Officer, CIMFR, **latest by 5.00 PM on 28.02.2011 positively. Request for extension of submission date of tenders will not be considered.**

2. Late/delayed tenders : Late/delayed tenders due to any reason whatsoever will not be accepted / considered at all under any circumstance.

3. Opening of Tenders: The tenders received will be opened at **3.00 P.M.** on **01.03.2011** in the presence of the authorized representatives, if any, of quoting firm (one member only) at this office. **Request for extension of opening date of tenders will not be considered.**

4. Earnest Money Deposit: Tenderers shall have to deposit EMD of amount mentioned in our Global / Open Tender Notice in **Indian Rupees** or in equivalent amount in foreign currency in the form of Crossed Demand Draft/BG only in favour of Director. CIMFR, Dhanbad, issued by Scheduled/Nationalized Bank payable at Dhanbad, India, along with their tenders (with Technical Bid only). **The validity of the EMD submitted in the form of Bank Guarantee must be co-terminous with the validity of the offer. It must normally be valid for six months (180 days) from the date of opening of tender. Tenders received without earnest money will not be entertained/ considered at all and rejected summarily. Tenders received along with EMD in the form of Cheque/Cash will not be accepted/ considered and rejected.**

Firms registered with DGS&D and NSIC may be exempted from payment of EMD if the product being quoted is actually manufactured by them and the product is registered with these agencies. Firms registered with these agencies selling products of other companies and not manufacturing the products being quoted by them are not allowed exemption from payment of EMD. Firms are to submit a legible photocopy duly attested, of Registration Certification of the products manufactured and registered with DGS&D and NSIC for availing EMD exemption before opening of Technical-Commercial Bids, otherwise tender submitted by them will not be considered and rejected summarily.

5. Forfeiture of EMD: The earnest money deposited (EMD) will be forfeited if the vendor withdraws or amends, impairs and derogates from the tender in any respect within the period of validity of tender or fails to furnish the Performance Security Deposit as per Clause No. 6 - Performance Security Deposit mentioned below.

6. Performance Security Deposit: The successful tenderer will have to furnish an unconditional Performance Bank Guarantee in favour of the Director, CIMFR, Dhanbad valid up to sixty (60) days after the warranty from a Scheduled/Nationalised Bank in India for 10% of the total order value within twenty one (21) days of the placement of order for orders where full payment is to be made on Letter of Credit/Sight Draft or on delivery, failing which the purchase order/contract shall be terminated.

b. The successful tenderer will have to furnish an unconditional Performance Bank Guarantee in favour of the Director, CIMFR, Dhanbad valid up to sixty (60) days after the warranty from a Scheduled/Nationalised Bank in India for 10% of the total order value before the release of final payment where payment is to be made on satisfactory supply, installation, testing, commissioning, demonstration and final acceptance of the products.

7. Refund of Performance Security Deposit: The Performance Security Deposit will be returned to the successful vendor after sixty days from the date of the completion of warranty period and no interest would be paid thereon.

8. Warranty: **Equipments should be under free ONSITE comprehensive warranty for a minimum period of three years from the date of completion of satisfactory installation, testing, commissioning, demonstration and final acceptance of the products.** A satisfactory service during the warranty period is defined as 95% uptime. In case 95% uptime is not provided, the warranty period would be extendable by a period which is equivalent to the period during which 95% uptime was not provided. **The bidder will also ensure that the spares are available at least for three years after the warranty period for the operation and maintenance of the equipments supplied. The firms giving the warranty offer less than three years must specify the equivalent amount to be charged for additional warranty/per year which will be added to the price quoted for deciding Lowest Tender. Failing to quote the same will lead to rejection of the bid. This must be strictly complied.**

9. Custom Duty and Excise Duty: Our Institution is eligible for payment of concessional Custom Duty and exempted from payment of Excise duty.

a) In case, the tenderers are Indian Agents of the foreign suppliers and quoting prices on behalf of their foreign principals must enclose the proof of enlistment with DGS&D **(wherever required)**. Date of enlistment must be before the date of opening of tenders. Tenders of agents not enlisted with DGS&D will be ignored and summarily rejected. The compulsory enlistment of Indian Agents of foreign principals with DGS&D is of general nature and does not confer on the Indian Agents the status of a supplier registered with DGS&D.

b) In case, the prices are quoted in foreign currency, it must be on FOB price. Indian Agency Commission/Technical Service Charges, if any, must also be shown separately and shall be payable in India in Indian Rupees only if the Indian Agent is registered with DGS&D. Kindly indicate Indian Agent's address, their kind of services and percentage Agency Commission (which will be reduced from invoice and paid in Indian Rupees Only). Also quotation should indicate whether Agency Commission is included / excluded in the FOB price.

c) In case of Domestic, the offer should contain the basic price and percentage of Excise Duty separately since we are exempted from payment of Excise Duty.

10. Prices: The price quoted should clearly mention whether

a) **FOR destination /Dispatching Station by registered road transport**
b) FOR free delivery at this office Stores including Packing & Forwarding, freight, insurance charges, etc.
c) Where there is no mention of the above, the offers will be rejected as incomplete.
d) In case of Imports, the quotation should be for FOB price only.

11. Taxes: The percentage rate of sales tax, resale tax, duties/levies and any other charges etc, should be clearly indicated in the tender, wherever chargeable. The packing charges must be included in the rates. **CIMFR is not authorized to issue C/D Forms.** However, the concessional rate of central sales tax is admissible to Research Institutions from certain States is also applicable to this Institute and necessary Concessional Sales Tax Certificate will be issued. The supplier should submit documentary proof while claiming octroi, naka etc. charges**.**

12. Annual Maintenance Contract: After the expiry of warranty period, ONSITE Comprehensive Maintenance Contract may be entered into for which the Annual Maintenance Contract (AMC) charges should invariably be quoted in terms of percentage (%) of cost on the exact amount inclusive of all taxes and duties of the product to be supplied.
Satisfactory services during AMC period is defined as 95% uptime. In case 95% uptime is not provided the AMC period would be extendable by a period which is equivalent to the period during which 95% uptime was not provided.
Response Time : Should be four hours

Preventive Maintenance: Tenderers should provide at least one preventive maintenance service every month during the AMC period.

13. Training: Tenderers should provide free training on the complete operation and care of the equipment and Software Packages to be supplied on mutually agreed terms.

14. Validity of Tender: The quotations shall be valid for a minimum period of **One Hundred Eighty (180) days from the date of opening of tenders.**

15. Delivery: Equipment may be delivered between 11.00 A.M. to 04.00 P.M. on all working days i.e. Monday to Friday at our Stores Section only.

16. Payment - Indigenous Supplier: Payment shall be made after delivery, satisfactory installation, testing, commissioning, demonstration and final acceptance of the ordered items by the user department, through an Account Payee cheque drawn on **State Bank of India, Hirapur Branch, Dhanbad-826 015 (Jharkhand),** India within thirty (30) days from the date of submission of the bill. Bill(s) in triplicate duly pre-receipted with Rs.1/- revenue stamp will have to be presented for claiming payments.

17. Liquidated Damages: The LD clause of 01% per week subject to maximum 10% of the order value will be imposed on non- compliance of the order Terms &Conditions. The L.D may further be revised and enhanced as per the descretion of the Competent Authority, CIMFR on violation of the contractual terms of any form. Director, CIMFR reserves the right to go ahead with the procurement of ordered goods from any another vendor without giving any prior notice and cancel the purchase order. In such case, any additional impact on CIMFR over and above that contained in the Purchase Order shall be recovered from the successful vendor from the payment to be made by CIMFR or any of the CSIR Labs. to them towards earlier supplies, EMD or otherwise

18 S.T. Registration No./ITCC/Distributorship/Dealership/Service Provider Certificates:

Tenderers must attach a legible photocopy of the following documents positively along with their tenders.

i) CST/Local Sales Tax Registration Certificate.
ii) Latest Income Tax Clearance Certificate.
iii)AuthorisedDistributorship/AuthorisedDealership/AuthorisedRetailership/Autorised Service Provider Certificate from the manufacturers.

19. Environmental conditions for the installation of equipments: Tenderers should specify minimum environmental needs for installation of their Equipments such as air-conditioning specifications, power supply specifications including any special requirements like voltage regulators, etc.

20. Software installation: Tenderers should clearly specify the minimum hardware requirements for the installation of Software Packages positively.

21. Tenderers should note that they should offer their best products pertaining to Technical specifications given.

22. Tenderers should clearly indicate whether they are Original Equipment Manufacturers or authorized distributors/dealers/suppliers on behalf of manufacturers. Brand names & Model Nos. of all equipments and components offered should necessarily be mentioned.

23. Tenderers should furnish the experience of their organization in the area of manufacturing and/or supply of similar equipment.

24. Tenderers should have a well established Office and Service and Support Centre in Kolkata / Dhanbad, India, managed by qualified maintenance professionals along with documentary evidence to be attached with their tenders.

25. Tenderers should indicate the names (along with addresses, Telephone nos., Fax No., Contact person, dates of supply, etc.) of various Government, Public Sector Departments and other organizations where they have supplied and installed the similar equipments and are duly maintaining them.

26. Tenderers should furnish all details of Performance Certification/Bench marking of their Equipments by recognized National/International Institutes Govt. Organizations like D.O.E. (Dept of Electronics), etc as applicable.

27. All prices shall be quoted clearly both in figures and words duly taking into account all concessions provided by the Govt. of India as on the date of tender. In case of discrepancy in Unit and Total prices, unit price shall be taken to be final price for the purpose of calculations.

28. Tenders incorporating additional conditions are liable to be rejected.

29. Complete details including final specifications of the equipments offered/quoted should be furnished along with brochures/literature mentioning all features.

30. Tenderers should indicate whether they are the OEMs/. Authorised Distributors/Authorised Dealers/Authorised Retailer of the equipments offered and have valid license to sell Equipment.
31. Tenderers will also indemnify CIMFR against all possible damage due to any Copyright violation by them.

32 Only legal and authorised copy of Software Packages with all original manuals, installation and performance guide, etc. complete in all respects are required to be supplied.

33. Tenderers will replace equipments in toto, in case of any malfunctioning or other similar problems arise after supply of the equipment.

34. Equipment supplied will include all Operational and Maintenance Manuals, tutorials, reference manuals, installation and performance guide, etc. complete in all respects. Connecting cable and/or any other

part/device which is essentially required for making the equipment operational is required to be supplied along with the equipment and n additional cost.

35. Printed conditions of the tenders shall not be binding on CIMFR.

36. CIMFR is an R&D organization under CSIR, Ministry of Science & Technology, Govt. of India. Therefore it is requested to **quote concessional rates applicable to the R&D organizations since the equipment is required for research purposes.**

37. Offers for stores vaguely described as "Best Indian Make", "Foreign Make" will be ignored while considering the tenders.

38. Details of Equipments supplied to CSIR Labs/Institutes: The tenderers who have supplied identical or similar equipment to other CSIR Labs/Institutions have to furnish the details of such supplies for the preceding three years along with the prices eventually or finally paid positively.

39. **Responsibility:** The responsibility lies with the successful tenderer, if any damage or loss to the property of the Institute occurs while undertaking and executing the contract.

40. **Shortage of Supplies:** Suppliers will have to make the good the shortages, if any, which is revealed after opening the packages. The Stores, which are spoiled/damaged during transit due to faulty packing will have to be replaced by the suppliers. The product should have warranty for workmanship, performance and service for a minimum period of twelve months from the date of acceptance of replacement of spares/parts during warranty period. The replacement should be done free of all costs including to and fro Air Freight, packing, forwarding and insurance charges.

41. **Defects and Liability Period:** Thirty six months from the date of virtual completion, installation and commissioning of the equipments as certified by CIMFR, Dhanbad, India.

42**. Damage and Unaccepted supply :** The material found to be damaged and declared rejected should be collected by you at your risks and costs within 21 days from the date of intimation by CIMFR, otherwise ground rent will be charged.

In addition to the Terms and Conditions mentioned above, Terms and Conditions for the items offered from abroad are as follows:

43. The detailed specifications of the material offered should be given. Relevant technical Literature and descriptive catalogue / pamphlet should also be attached with the offer.

44. **FOB Price only to be indicated.** Other charges applicable to be indicated separately.

45. INSURANCE: Insurance will be done by our own means for imports. Please intimate immediately after shipment about the Airway Bill No. For indigenous items the cost must include the insurance charges.

Bill of Lading, consignment etc. to The Director, CIMFR, P.O + Dist: Dhanbad, Dhanbad, Jharkhand, India.

46. WARRANTY: Warranty period should be for a minimum period of **three years onsite comprehensive.**

47. COUNTRY OF ORIGIN: Please specify Place/County of Origin and the Place/Country from where goods will be finally shipped. These particulars are very important for establishment of Letter of Credit and arranging insurance.

48. VALIDITY PERIOD: Your offer should be valid for at least One Hundred Eighty (180) days from the date of opening of tenders.

49. Please also indicate names and addresses of some of the Indian Organizations to whom you have supplied material, if any, under reference.

50. This Institute is eligible for payment of concessional customs duty under OGL Scheme. Actual User-Condition (Non-industrial-R&D institution).

51. INDIAN AGENT'S COMMISSION: If you have any Agent in India, please indicate specifically whether the amount of agency commission payable to the agent is included in the FOB Price or not. Moreover, Indian Agent should have compulsory registration with DGS&D, Govt. of India (**wherever required on case to case basis)**. Please note that the tender will not be considered if the Indian Agent is not Compulsorily registered with DGS&D, Govt. of India and Agency Commission will not be paid to the Indian Agent unless a legible photocopy of DGS&D Registration Certificate duly attested is submitted to this office. The Indian Agents Commission will be paid in Indian Rupees only within thirty days from the date of commissioning and final acceptance of the whole system by CIMFR, Dhanbad-828 108, India. The role played by the Indian Agents in rendering assistance to your customers may also be specified.

52. FREIGHT: The mode of dispatch should be Ocean Freight/Air Freight preferably by Air India Flight and on To-Pay basis only. Please indicate the approximate Air Freight Charges for Kolkata Air Port, India. The consignments are required to be shipped by Air India (Freight to pay) up to Kolkata Airport, India. All the documents are to be made in favour of Director, CIMFR, Dhanbad-826 001, India and forwarded to our Banker.

For speedy clearance, please specify our Purchase Order Reference No. and date on the top of the parcel as well as on the Airway bill without fail. Address all the consignments to **Director, CIMFR, Dhanbad-826 015,** India and not to Bank. The ordered materials are being imported under Open General License.

The following documents may be sent to us directly while dispatch.

Invoice in quadruplicate with deduction of Agency Commission, if any, Packing List, Delivery Challan, Country of Origin Certificate, Literature, if any, should be enclosed.

53. PAYMENT TERMS :

Term I - **In case of indigenous orders, the payment will be on credit basis i.e. 100% after receipt of material in good condition, installation, testing, commissioning, satisfactory demonstration, final acceptance of the whole system and on submission of unconditional Performance Bank Guarantee for 10% of the total order value valid till 60 days after the warranty period from a Indian Scheduled Bank duly recognized by RBI.**

Term II - In case of import orders, 80 percent value of goods will be paid through an Irrevocable Letter of Credit on submission of shipping documents. Balance 20 percent value of goods will be paid through L/C excluding Indian Agency Commission, if any, after installation, testing, commissioning, satisfactory demonstration, final acceptance of the whole system and on submission of unconditional Performance Bank Guarantee for 10% of the total order value valid till 60 days after the warranty period from a Foreign Bank duly endorsed by Nationalized Bank in India.

Term III - 100% payment after satisfactory installation & commissioning of the equipment if it is to be supplied for the first time in India or otherwise if the party does not have successful installation in India, against submission of unconditional Performance Bank Guarantee for 10% of the total order value within twenty one (21) days of the placement of Purchase Order valid till 60 days after the warranty period from a Foreign Bank duly endorsed by Nationalized Bank in India. Director, CIMFR reserves the right to change the payment terms at his discretion from case to case basis depending on the merit of the case.

54. The tenders are liable to be cancelled if any of the conditions noted herein are not complied with. Hypothetical, ambiguous and conditional tenders will not be entertained at all and rejected summarily.

55. Goods should not be dispatched until firm Purchase Order is received by the successful vendor.

56. Director, CIMFR reserves the right to delete or alter the item given in the enclosed annexure depending on prevailing requirements.

57. Director, CIMFR reserves the right to accept or reject any tender in completely or in part thereof without assigning any reason.

58. Arbitration :

Except where otherwise provided in the Contract, all questions and disputes relating to the meaning of the specifications, instructions and terms & conditions herein before mentioned and as to the quality of the materials, as to any question, claim, right, matter or thing whatsoever, in any way arising out of or relating to the Contract. Specifications, estimates, instructions, orders

or these conditions or otherwise concerning the works, or the execution of the same whether arising during the process of the work or after the completion or abandonment thereof shall be **referred to the sole arbitration of a person nominated by the Director General, Council of Scientific & Industrial Research, New Delhi,** and if he is unable or unwilling to act to the sole arbitration of some other person appointed by him willing to act as such arbitrator. The submission shall be deemed to be submission to Arbitration under the meaning of the India Arbitration & Conciliation, 1996 or any satisfactory modification or reenactment thereof for the time being in force conclusive and binding on all parties of the Contract. **The venue of the arbitration will be Dhanbad only.**

In the case of a dispute between the purchaser and a foreign supplier, the dispute shall be settled by arbitration in accordance with provision of clause above. But if this not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission of International Trade Law) Arbitration Rules. The venue of the arbitration shall be the place from where the order is issued.

SECTION - IV

FORMATS FOR BID SUBMISSION
Checklist for Bid Submission

The following check-list must be filled in and submitted with the bid document:

Technical Bid:

1.	Has the tender document issued to you?	Yes / No
2.	Have you attached the technical bid form?	Yes / No
3.	Have you attached a copy of the last audited balance sheet of your firm?	Yes / No
4.	Have you attached proof of the manufacturer's authorization?	Yes / No
5.	Have you attached the details of the income tax registration and latest income tax clearance certificate?	Yes / No
6.	Have you attached the statement of deviations from the technical Specifications in the format?	Yes / No
7.	Have you provided details of your maintenance infrastructure facilities including addresses of the service centers in the format	Yes / No
8.	Have you attached the technical details of the goods and services offered as a part of this bid document?	Yes / No
9.	Have you attached the copies of relevant work orders executed during the last three years?	Yes / No
10.	**Have you attached the details of identical or similar equipments supplied to other CSIR Labs/Institutes for the preceding three years together with prices eventually or finally paid?**	Yes / No
11.	**Have you attached photocopy duly attested of Certificate of compulsory Enlistment of Indian Agents of foreign principals with DGS&D if quoting on their behalf? Date of enlistment must be before the date of opening of tenders.**	Yes / No
12.	Have you attached Service Provider Certificate issued by the Manufacturer?	Yes / No

Financial Bid:

1.	Have you attached the Financial Bid?	Yes / No
2.	Have you attached the price schedule for the goods/services offered in the Format?	Yes / No
3.	Have you attached the statement of deviations from the Financial terms and conditions in the format?	Yes / No

Please arrange your tender document for each part as given below:

Earnest Money Deposit :

TECHNICAL BID:

Technical Bid Form

Copy of the Last Audited Balance Sheet of the company

Income Tax Registration Certificate/PAN No.and latest Income Tax Clearance Certificate

Proof of Manufacturer's authorization

Photocopy of Warranty Service Provider Agreement between the manufacturer and the Service Provider.

Statement of Deviation from the technical specifications

Details of service centers at Dhanbad

Photocopy duly attested of Certificate of compulsory enlistment of Indian Agents of foreign principals with DGS&D if quoting on their behalf. Date of enlistment must be before the date of opening of tenders?

Copies of relevant work orders

Details of supplies of identical or similar equipment made to other CSIR Labs/Institutions for the preceding three years together with price eventually or finally paid.

FINANCIAL BID:

Financial Bid Form

Estimated quantity and Financial Bid Analysis
Statement of Deviations from Financial terms and conditions

Technical Bid Form

(To be submitted on the firm's Letter Head and signed by an authorized person)

To ,
The Director
Central Institute of Mining & Fuel Research
P.O. DHANBAD Barwa Road,
DHANBAD – 826015, Jharkhand,INDIA

Ref: Tender No.

Sir,

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned offer to supply and deliver goods as per the schedule of requirements and in conformity with the said bidding documents.
We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the bidding documents.

If our bid is accepted, we will submit a unconditional performance bank guarantee for the sum equivalent to 10% of the Contract Price i.e. Total Order Value for the due performance of the Contract, in the form prescribed by the Central Institute of Mining & Fuel Research, Dhanbad.

We agree to abide by this bid for a period of One Hundred Twenty days after the date fixed for opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
We declare that we are the manufacturers/authorized agents/distributor of

_____
_____

that we/our principals are equipped with adequate machinery for production, quality control and testing of offered products manufactured/developed and used by us.
2. We hereby offer to supply the Goods/Services at the price at the rates mentioned in the Financial Bid.
3. We enclose herewith the complete Technical Bid as required by you. This includes:

Technical Bid Form

Copy of the last audited balance sheet of the company
Proof of Manufacturers authorization.
Technical details of the goods and services offered.
Statement of deviation from the technical specifications
Details of local service centers
Product catalogues/user manual/other informative material about our products and Services.

Details of supplies of identical or similar equipment to other CSIR Labs/Institutes for the preceding three years together with prices eventually or finally paid.
Photocopy duly attested of Certificate of compulsory enlistment of Indian Agents of Foreign principals with DGS&D if quoting on their behalf. Date of enlistment (It must be before the date of opening of tenders).
4. We have carefully read and understood the terms and conditions of the bid document and the conditions of the contract applicable to the bid document and we do hereby undertake to supply as per these terms and conditions.
5. Certificate that the bidder is:
A Sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of the sole proprietor, or

A partnership firm, and the person signing bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney, or

A company and the person signing the document is the constituted attorney.
(NOTE: Delete whatever is not applicable. All correction/deletions should invariable by duly attested by the person authorized to sign the bid document)

6. We do hereby undertake take, until a formal work order is prepared and executed, this bid, together with your written acceptance thereof and placement of letter of intent awarding the work order, shall constitute a binding contract between us.
Dated this day 2010 Signature of Bidder

Details of enclosures.
Full Address_____
Telephone No._____
Telegraphic Address:_____
Fax No_____
E-Mail _____
COMPANY SEAL

STATEMENT OF DEVIATIONS FROM TECHNICAL SPECIFICATIONS AND SCHEDULE OF REQUIREMENTS

Following are the Technical deviations and variations from the Technical specifications and Schedule of Requirements. These deviations and variations are exhaustive. Except these deviations and variations, the entire work shall be performed as per your specifications and documents.

Sl No.	Item	Statement of Deviations / Variations

Signature of the Bidder

Name:

Date:

Place:

Address:

Company Seal

MAINTENANCE INFRASTRUCTURE FACILITIES INCLUDING ADDRESSES OF THE LOCAL SERVICES CENTRES

LOCATION	ADDRESS OF SERVICE CENTRE	NAME OF THE CONTACT PERSON WITH TEL. No. Fax No. and Email	Total No. of qualified service engineers	Remarks

Signature of the Bidder

Name:

Date:

Place:

Address:

Company Seal

Financial Bid Form

(On the Letter Head of the firm submitting the Bid Document)

To
The Director
Central Institute of Mining & Fuel Research
P.O.DHANBAD, DISTT: DHANBAD
PIN - 826015, Jharkhand, INDIA

Ref: Tender No.

Sir,

Having examined the bidding documents and having submitted the technical bid for the same, we, the undersigned, hereby submit the Financial Bid for supply of goods and services as per the schedule of requirements and in conformity with the said bidding documents.

We hereby offer to supply the Goods/Services at the prices and rates mentioned in the Financial Bid.

We do hereby undertake that, in the event of acceptance of our bid, the supply of Goods/Services shall be made as stipulated in the schedule to the Bid document and that we shall perform all the incidental services.

The prices quoted are inclusive of all charges including installation and commissioning charges in the Central Institute of Mining & Fuel Research Institute, Dhanbad.

We enclose herewith the complete Financial Bid as required by you. This includes:

Financial Bid Letter

Price Schedule

Statement of deviations from Financial terms and conditions.

We agree to abide by our offer for a period of One Hundred Twenty (120) days from the date fixed for opening of the bid documents and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and condition of the bid document and we do hereby undertake to supply as per these terms and conditions. The Financial Deviation are only those mentioned in the statement of deviation from financial terms and conditions.

Certified that the bidder is:
A sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of sole proprietor.
Or
A partnership firm and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney.
Or
A company and signing the bid document is the constituted attorney.
(Note: Delete whatever is not applicable. All corrections/deletions should invariably be duly attested by the person authorized to sign the bid document).

We do hereby undertake, that until a formal work order is prepared and executed, this bid, together with your written acceptance thereof and placement of letter of intent awarding the work order, shall constitute a binding contract between us.
Dated this day of_____ Signature of Bidder

Details of enclosures
Full Address:
Telephone No.
Telegraphic Address:
E-mail:

COMPANY SEAL

PRICE SCHEDULE - Estimated Quantity and Financial Bid Analysis

Sl No	Item Name	Qty.	Manufacturer	Model Name & Version	Compaliance to suggested Technical Specification	Operating System Environment	Unit Cost Rs.	Total cost (inclusive of all other charges

1. Attach sheet giving detailed Technical Specification and deviations for the suggested systems.

NOTE

(i) For Financial bid comparison total Value in Col. No. 9 shall be the basis.
(ii) Unit value quoted in actual quantity of work shall form the basis.
(iii) The Bid should have Col. 3 x Col. 8 = Col.9. Any error in the Table of any bidder is liable to be out rightly rejected.
(iv) The price quoted should be inclusive of all charges including all applicable taxes,
Octroi, freight and handling charges, and all other miscellaneous expenses.
(v) In case of discrepancy between unit price and total price, the unit price will prevail.
(vi) Annual Maintenance Charges after warranty period should be quoted separately.

Signature of the bidder

Name :

Place :

Date :
Address :
Company Seal

STATEMENT OF FINANCIAL DEVIATIONS

Following are the financial deviations and variation(s) from the exceptions to the specifications and documents for the Bid document. These deviation(s) and variation(s) are exhaustive.
Except these deviation(s) and variation(s), the entire work shall be performed as per your specifications and documents.

Sl No.	Section No.	Clause No.	Statement of Deviations / Variations

S. No. Section No. Clause No. Statement of deviation(s) and variation(s)

Signature of the bidder
Name:
Place:
Date:
Address:
Company Seal