

**CENTRAL INSTITUTE OF MINING & FUEL RESEARCH** (CSIR, Ministry of Science & Technology, Govt. of India) H.Q.:Barwa Road Campus, Dhanbad – 826 001 (Jharkhand), India

No.CIMFR/PUR/14(5)2007

Date:27.12.2007

NOTICE INVITING TENDER

Director, CIMFR invites sealed tenders (In two Bid System) for supply, installation and & commissioning of the following stores.

Item No.	Particulars of Item	Qty.
1.	Multi Channel Seismographs	02 sets
2.	Proximate Analyser (Thermo Gravimetric Analyser)	01 No.
3.	Automatic Bomb Calorimeter	01 No.
4.	Computerized Wire rope Defectograph / Rope Tester	01 complete set
5.	Microwave Digestion System	01 No.
6.	Total Organic Carbon (TOC) Analyser	01 No.
7.	Automatic/Semi Automatic Grinding and Polishing Machine for Coal	01 set
8.	Langmuir-Blodgett Film Deposition System with Accessories	01 set
9.	Thermal Imaging Camera	01 No.
10.	Climate Chamber	01 No.
11.	XGA Professional Plasma with PDA and Visualiser and Software	02 Nos.
12.	BOD self check measuring equipment	01 No.
13.	INNERMOST MEMBER (Liner) of Explosive Testing Cannon	02 Nos.
14.	Microwave Digestion System	01 No.
15.	VOD Meter / Data Recorder	01 No.

Last Date of Submission : 28.01.2008 Time: Up to 4.00 P.M.

Last Date of Opening : 29.01.2008

Time: 10.00 AM onwards

Details of the Tender Document is available at <u>www.cmriindia.nic.in</u>

' : 0326- 2388306/2388319 6 : 0326- 2203156/2381210

**Stores & Purchase Officer** 



## **CENTRAL INSTITUTE OF MINING & FUEL RESEARCH**

(CSIR, Ministry of Science & Technology, Govt. of India) H.Q.:Barwa Road Campus, Dhanbad – 826 001 (Jharkhand), India

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Director, CIMFR invites sealed tenders (In two Bid System) for supply, installation and & commissioning of the following stores.

Item No.	File No.	Particulars of Item	Qty.	T.D. Fee in DD*	EMD in DD/BG/BC
1.	CIMFR/PUR- 14(24)2007	Multi Channel Seismographs	02 sets	Rs.300/-	Rs.14,000.00
2.	CIMFR/PUR- 14(25)2007	Proximate Analyser (Thermo Gravimetric Analyser)	01 No.	Rs.300/-	Rs.50,000.00
3.	CIMFR/PUR- 14(26)2007	Automatic Bomb Calorimeter	01 No.	Rs.300/-	Rs.24,000.00
4.	CMRI/PUR- 11(11)2007	Computerized Wire rope Defectograph / Rope Tester	01 complete set	Rs.300/-	Rs.36,000.00
5.	CIMFR/PUR- 14(31)2007	Total Organic Carbon (TOC) Analyser	1 No.	Rs.300/-	Rs.36,000.00
6.	CIMFR/PUR- 14(32)2007	Microwave Digestion System	1 No.	Rs.300/-	Rs.20,000.00
7.	13(2)/CIMFR/117/ 07-08/PUR	Automatic/Semi Automatic Grinding and Polishing Machine for Coal	1 set	Rs.300/-	Rs.30,000.00
8.	13(2)/CIMFR/105/ 07-08/PUR	Langmuir-Blodgett Film Deposition System with Accessories	1 set	Rs.300/-	Rs.30,000.00
9.	CMRI/PUR/ 12(6)2006	Thermal Imaging Camera	1 No.	Rs.300/-	Rs.50,000.00
10.	CIMFR/PUR- 14(35)2007	Climate Chamber	1 No.	Rs.300/-	Rs.12,000.00
11.	CIMFR/PUR- 11(26)2007	XGA Professional Plasma with PDA and Visualiser and Software.	2 Nos.	Rs.300/-	Rs.35,500.00
12.	CIMFR/PUR- 11(24)2007	BOD self check measuring equipment	1 No.	Rs.300/-	Rs.8,000.00
13.	CIMFR/PUR- 11(25)2007	INNERMOST MEMBER (Liner) of Explosive Testing Cannon	2 Nos.	Rs.300/-	Rs.16,000.00
14.	13(1)/CFRI/ 177/06-07/Pur	Microwave Digestion System	1 No.	Rs.300/-	Rs.14,000.00
15.	CIMFR/PUR/ 14(29)2007	VOD Meter / Data Recorder	1 No.	Rs.300/-	Rs.16,000.00

\* No tender fees are required in case it is downloaded from the site www.cmriindia.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 Director, CIMFR, payable at State Bank of India, Hirapur Branch, Dhanbad from **28.12.2007** to **28.01.2008**. 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 **28.01.2008** before **4.00 PM** and will be opened on **29.01.2008** at **10.00 AM** onwards in the Meeting Room of CIMFR.

Tender Documents with detail terms & conditions can be downloaded from our website: **www. cmriindia.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.

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**Stores & Purchase Officer** 

## **DETAILED TECHNICAL SPECIFICATIONS**

	CIMFR/PUR-14(24)2007	
l. No.	Description	Qty.
1.	MULTI CHANNEL SEISMOGRAPHS with following features :-	2 sets
	✔ No. of Channels (for Microphone & Tri-axial Geophone ) : 4 (four)	
	✓ Vibration Monitoring Range : Upto 254 mm/s	
	✓ Resolution : 0.127 mm/s or better	
	✓ Accuracy : $\pm 5\%$ or 0.5 mm/s or better	
	✓ Air Overpressure Range : 88 to 148 dB or more	
	$\checkmark$ Sampling rate of 1024 to 4096 S/s or higher (independent of record time)	
	$\checkmark$ Event duration record : 1-60 s or more	
	✓ Event Storage Capacity : 300 or more	
	✓ PC-interface : RS-232	
	$\checkmark$ Battery: 6V sealed with 210 hours continuous monitoring capacity or more.	
	$\checkmark$ It should be supplied with compatible one no. of Standard Tri-axial Geophone (2 to	
	250 Hz frequency or better) with 6 feet or more cable.	
	<ul> <li>✓ It should be supplied with compatible one no. of Linear Microphone Assembly with 6 feet or more cable.</li> </ul>	
	<ul> <li>It should be supplied with standard accessories e.g. AC Power Charger (Indian type),</li> </ul>	
	RS-232 Cable, Manual, Carry Case etc.	
	$\checkmark$ It should be supplied with calibration certificates valid for at least one year.	
	✓ Manufacturers should have good record of after sales service in India.	
	✓ Manufacturers should mention about their re-calibration facilities in India and	
	abroad and total charges (Calibration Charges + Handling Charges + Taxes +	
	Any others) for re-calibration of Seismographs every year for five years.	

S1	Description of Item	Qty.
No.	PROXIMATE ANALYZER (THERMO GRAVIMETRIC	1 No
	ANALYZER)	
1.	Thermo Gravimetric Analyzer should have multiple sample analyzers with auto crucible-	
	covers. Thermo Gravimetric Analyzer (19 samples) for Coal, Coke, Graphite, Cement,	
	Bauxite, Iron Ore, Food, Feed, Flour, Rubber, Fertilizer, Plastic etc.	
	The Thermo Gravimetric Analyzer should have the following specifications:-	
	1. Will analyze 1 to 19 samples unattended (19 samples + 1 reference)	
	2. Determination of moisture, volatiles, fixed carbon, ash, LOI	
	<ol> <li>Temperature Range : 50-1000 deg C</li> <li>Sample Size : 0.1 – 10 gms</li> </ol>	
	5. Standard Deviation : $\pm 0.0002$ gms	
	6. Weight loss / Gain Range : $0.100\%$ etc.	
	7. Temperature Stability : $\pm {}^{0}$ C at 105~107 ${}^{0}$ C and $\pm 2{}^{0}$ C at all other ranges.	
	8. Selectable atmospheres : $N_2$ , $O_2$ or Air	
	• Dual carousel configuration (for coal only): Fully Automatic	
	installation & removal of crucible – covers inside furnace (Patented).	
	This has the following advantages:	
	a) No danger to operator as there is no manual removing of	
	lids for Ash determination	
	b) No loss of cycle due to covers falling	
	c) Productivity, Works at night	
	9. All heated parts metallic: Carousels, crucibles, pedestal, covers	
	10. Ceramic Optional : Ceramic crucibles can be used for analyzing corrosive	
	materials 11. Automatic restart after power failure	
	12. Mains power failure support, only 300 watts	
	13. Balance : Sartorius 120 gr 0.1 mg	
	14. The balance has display for easy service	
	15. Eurotherm temperature controller	
	16. The temperature controller has 2 displays: 1 for the set point and other for the	
	present temperature.	
	17. Rotation by stepper motor	
	18. All sensor are magnetic not affected by dust.	
	19. All parts Standard, Easy to repair, by anybody- so no need to depend on the	
	manufacturer.	
	20. Compressed air assisted cooling for faster cool down	
	21. Selectable configuration: ISO, ASTM, DIN etc.	
	22. Data transmission from LIMS to PC, Powerful open database connectivity	
	(ODBC) data base included. 23. Windows Sofware with 8 editable programs, 50 corrections factors and	
	linearization for each slope and each program, non-linear regression and curves	
	fitting for all slopes using linear, least squares and quadratic formulas.	
	24. Programmable ramp rates $25^{\circ}$ C to 107 deg. C 5~30 deg/C min, 104 deg C to	
	1000 Deg 5~50 deg/C min C.	
	Single furnace or dual furnace controlled by one single PC.	
	25. Supplimetary item (Balance, Printer and PC/Laptop (Preferably Laptop should	
	be supplied along with system).	

Sl. No.03

1.

Qty.
1 No.

1. Type / Method : True Isoperibole

AUTOMATIC BOMB CALORIMETER

- 2. Instrument : Automatic Microprocessor controlled Calorimeter
- 3. **Measurement Range:** 1,000 K Cal/Kg to 10,000 K Cal/Kg for 1 gm of sample. With a provision to extend up to 12,000 K Cal/Kg for 1 gm of sample with out reducing the sample size as per standards.

**Description of Item** 

- 4. **Precision :** 0.2% RSD or better
- 5. Resolution : 0.0001 Cal/gm
- 6. Analysis Mode: Equilibrium Mode / Dynamic mode or any other mode
- 7. Temperature Measuring Resolution : 0.0001<sup>o</sup>C
- 8. **Display :** Color touch screen with graphical user interface
- 9. Correction: Spiking, Ash/Nitrogen or Acid, Fuse Wire, Sulpher and Hydrogen.
- 10. Memory Capacity: Minimum 1,000 tests results or more.
- 11. Computer/Printer/Balance Connection: RS-232 Interface
- 12. Sample Crucible Capacity: 0.5 gm 1.5 gm
- Measurement Precision (Repeatability / Reproducibility): As per BIS 1350 (Part-2), 1970, ASTM D-5865/04 & DIN 51900 Methods.
- 14. Power Requirement: 230 VAC +/- 10%, 50/60 Hz as per Indian condition.
- 15. Processing Capacity: Maximum 15-20 Minutes per samples.
- 16. Oxygen Bomb: The oxygen combustion bomb should make with special stabilized stainless steel to resist the mixed Nitric Acid and Sulphuric Acid produced in combustion. It should have 342 ml capacity with standing a hydrostatic pressure of 3000 – PSI max and working pressure of 1500 PSI.
- 17. Network Connection : Ethernet
- 18. Smart Block Concept : Provision for variety of bombs for measurement of different ranges (25 K Cal/Kg to 12,000 K Cal/Kg) with the same system. The variety of Bomb can be simplify plug in/plug out inside the system.
- 19. Supplimetary item (Balance, Pallet Press, Printer and PC/Laptop (Preferably Laptop should be supplied along with system)

<b>SI</b> . 1	No.04

	Description of Item	Qty.
Com	outerised Wire Rope Defectograph / Rope Tester	1
The in	strument should be supported by following:-	complet set
a)	Complete processing/recording unit with long connecting cable.	SCI
b)	Sensing head(s) for ropes with diameter range 20-65 mm or higher – two	
	or more magnetic heads may be provided for different range of diameters.	
c)	Area/local faults detection with provision for measurement of LF, LMA,	
	Distance and speed of rope movement etc.	
	Digital recording facility with memory card and thermal digital recorder.	
e)	Interfacing hardware, card slot for digital data acquisition and windows	
	based software package for browsing, exporting etc. compatible for Indian	
6	PC, Computer upgrade preferable. Printer/Colour Printer.	
f)	Rope length converter.	
g) h)	Custom carrying and protective cases.	
i)	Training if needed for trackling problems in the instrument explaining the	
1)	working and trouble shooting.	
j)	Operation and Maintenance manual with detail circuit diagrams.	
	The total system should be calibrated and verified properly and the reports	
,	should be enclosed with validity period etc.	
1)	Details of after service and support with spares and minimum period of	
	advice / repair/service etc.	
m)	Latest upgraded model of the instrument with comparatively lesser weight	
	will be preferred.	
	List of users may be provided.	
	Minimum one year guarantee/warranty on equipment.	
<b>.</b> '	Power inverter (standby spares) for better operation (optional).	
q)	One standby long connecting cable for processing /recording un it	
r)	(Optional). Any other improved feature may also be listed.	
1)	Any other improved leature may also be listed.	
[Sepai	ate price list of the optional equipment and attachments may be supplied. In	
	on, principles of operation of the particular equipment should be made clear	
	e limitations of the equipment will also require to be explained.]	
	Indian Agent may be contacted for future service if required and name	
of the	Indian Agent may be supplied by the company.	

## Sl. No.05

Sl No.	File No.CIMFR/PUR-14(31)2007									
1.	Description of Item	Qty.								
1.	MICROWAVE DIGESTION SYSTEM FOR SAMPLE   1									
	PREPARATION									
	Laboratory Microwave Digestion System for closed vessel digestion of organic,									
	inorganic, soil, sediment and rock samples. The system should have following									
	specification:- 1) The system should have single/dual magnetron system with magnetron									
	frequency of 2455 MHz and microwave power output of 1400W or higher.									
	Unpulsed microwave control over the whole range, for precise reaction									
	control and long service life of magnetrons.									
	2) Large, illuminated stainless stell cavity with multi-layer fluropolymer									
	(PTEF) coating, for easy cleaning and corrosion resistance.									
	<ol> <li>The system should have built-in exhaust and cooling system for reduction of total process time and fast cooling.</li> </ol>									
	4) The system should be under user friendly software control for all function									
	including method management, processes control, data collection, service									
	and calibration.									
	5) System must be fully programmable, micro-processes controlled, vide LCD									
	display for all routing operations. The system should be compatible with									
	external PC and printer but it must have option to run without using external PC. For data handling the branded Laptop Computer with latest									
	configuration should be include in the offer.									
	6) The system should have minimum 12 position rotor and 12 No. of									
	PFT/PTFE-TFM/Quartz liners reactions vessels of 100 ml capacity and it									
	should be able to withstand upto 70 bar pressure and temperature of $240^{\circ}$ C									
	or more. 7) The system must have temperature and pressure sensor to monitor									
	temperature and pressure inside the vessels. The sensor system installation									
	should be user friendly and must nor required any tedious efforts.									
	8) The system should have all safety and protection features including over									
	pressure release devises and spontaneous chemical reactions.									
	9) The system should fully compliance with EPA procedures (3015, 3051, 3052).									
	10) The system should carry a warranty of two years with additional 3 years									
	AMC.									
	11) Spare vessels, necessary accessories and consumable, Laptop Computer,									
	Printer etc. should also be quoted with system.									

SI

No.

1.

#### File No.CIMFR/PUR-14(32)2007

#### Description of Item

#### TOTAL ORGANIC CARBON (TOC) ANALYSER

Computer controlled complete analytical system for the analysis of solid and liquid samples. The required specification are as follows:-

Analysis modes: TC, TOC, TIC, NPOC, POC in single sample injection.

**Operating Principal**: High temperature oxidative combustion followed by NDIR detection.

**Analysis Range**: Liquid : 0-25,000 mg/I without dilution or better and can accept particles of 500 microns or more, solid samples: 0-150 mg absolute carbon, Should be able to handle salt content up to 35 g/ltr., Should have the facility of electronic mass flow controllers, Capable of automatic calibration out of only one stock solution.

**Furnace Temperature**: For liquid and solid module: 900<sup>o</sup>C or more.

**Sample Injection**: Software controlled sample injection and auto dilution facility for liquid samples and solid sampling kit for solid samples.

**Sample Injection Volume**: For Liquid:  $10\mu$ L to 3 ml or more, Solid: 1mg-3gm **Precision**:  $\pm 2\%$  of full scale.

**IC Pretreatment**: Automatic internal acidification and sparging module.

**Instrument Control:** Through PC with the helf of user-friendly software for controlling all functions including aspiration, measurement, injection, volume setting, furnance temperature control, of,off carrier gas and spurage gas.

**Data processing**: Windows based software with real time graphical display of peaks, automatic multipoint calibration with baseline auto correction along with data and graphics printing facility. **Accessories :** System should be quoted with

- 1. 5 KVA On-line UPS with 1 hour backup.
- 2. Sufficient quantity of consumables, wear parts, standards & 0.1 mg accuracy electronic balance, cylinder filled with desired gas and two stage regulators and tools and other accessories required for trouble free installation and operation of instrument for at least 3 years in liquid and solid modes.
- 3. Laptop for operating the instrument and field presentation/use with following configurations: Processor : Mobile Intel Core 2 Duo Processor T7500, 2.2 GHz with 4 MB L2 Cache 800 MHz FSB or Higher: 945 PM or higher chipset on OEM Motherboard, Memory: 2 GB 667 MHz Dual Channel DDR2 SDRAM expandable upto 4 GB, HDD: 160GB SATA with 7200 rpm, 39.1 cm TFT Active Matrix Display (1280 x 800 WXGA Bright View Resolution) or higher, Graphics Card: NVIDIA Ge Force 8400 M Gs with 128 MB GDDR3 dedicated memory; Modem: Integrated 56 KBPS Modem (Fax/Data) and 10/100/1000 Gigabit Past Ethernet; Integrated Wireles 3945 a/b/g, Integrated internal blue tooth and Ye Fi, Internal DVD Writer 8x Super Multi with Double Layer Fixed; Integrated stereo speaker with sound blaster; Keyboard with touch pad and USB wireless mouse; Expansion Port: 3 USB 2.0 port, Gigabit Ethernet Cord, RGB or S Video or VGA, PCI MCI Slot, Connector for port replicator / Docking Station and Travel Battery and other standard features

Operating system and other software pre-installed: Microsoft Windows XP and MS Office 2003 preloaded: Norton/Kaspersky antivirus software latest version with 1 year license, recovery solution; Power Supply: 230V, 50Hz Ac supply with rechargeable battery pack comprising of 9 cell 85 Whr Li-Ion batteries with suitable battery charger/adaptor (voltage and capacity of battery pack to be indicated in the offer); nylon backpack carry case to be provided.

Three years on site service and warranty for laptop to be provided.

4. A3 Size Colour Printer

Warranty : 1 year warranty and AMC of next 3 years should be quoted for TOC analyzer. Quantity : 1 No.

Sl No.	File No.13(2)/CIMFR/117/07-08/PUR	
1.	Description of Item	Qty.
1.	Automatic/Semi Automatic Grinding and Polishing Machine for Coal	1 set
	8"/10" wheels 5-6 in nos. (of equal size) and matching cloth holding band	
	with provision to fix the grinding /polishing cloth and paper; automatic	
	speed (0-500 rpm or higher) controller with digital display and touch panel	
	controlling unit; arrangement for water supply from the tap and flushing	
	system with proper drainage outlet; the rotary system of the wheel should	
	withhold the variable pressure etc.	
	Consumables (Polishing/Materials) a) Polishing cloth for 8"/10" wheels with provision to fix with the wheels of	50 Pc
	grinding/polishing machine.	
	b) Polishing cloth for final polishing.	50 Pc
	c) Emery Paper 240 grit for 8"/10" wheels with provision to fix the	50 Pc
	grinding/polishing machine.	
	d) Emery Paper 400 grit for 8"/10" wheels with provision to fix the	50 Pc
	grinding/polishing machine.	<b>5</b> 0 D
	e) Emery Paper 600 grit for 8"/10" wheels with provision to fix the	50 Pc
	grinding/polishing machine.	1 lbs
	f) Gamma alumina polishing powder 0.5 micron	1 lbs
	g) Gamma alumina polishing powder 0.05 micron	1 10
	Note . The instrument should be installed at CIMEP. Digwedih Compus	
	Note : The instrument should be installed at CIMFR, Digwadih Campus,	
	P.O.: FRI, Dhanbad (Jharkhand), India	

# Sl. No.08

51 o.	File No.13(2)/CIMFR	/105/07-08/PUR					
		Description of Item	Qty.				
	Langmuir-Blodgett Film Deposition System with Accessories						
	The system should be fully automated and have the facilities to:						
	1. Record Compression Isotherm						
	2. Surface Pressure Vs. Time						
	3. Deposit Langmuir – Blodgett film on solid substrate						
	Basic Specifications						
	Range :	0-100 mN/m					
	Film balance resolution :	0.05  mN/m					
	Sensitivity :	Better than 0.05 mN/m					
		$\pm 0.1 \text{ mN/m}$					
	Automatic Dipping Speed : (lifting & dipper head speed ca	: 0.3 mm/min (minimum)					
		0.01-90  mm/min.					
		0.01-60 mm/min.					
		AC 200-230V, 50/60 Hz					
		0.1 mm/min. increments					
	Deposition Cycle :	Unlimited					
	Depth of Dipping Area :	60 mm					
	Working Area :	$600 \text{ cm}^2$					
	Trough Dimension : 4	400 mm x 150 mm					
	bath incorporated in Teflon tro and one Suction Pump for clear Appropriate user friendly softw	Material must be made up completely of Teflon with external water circulation ough. The system should be provided with a dust hood / environmental chamber using the floating impurities and a semi micro-balance.					
	Appropriate Software for processing of data and drawing graphs. Essential supporting kit to experiment in the instrument such as Micro syringes, Glass slides, Quartz slides should be provided with adequate numbers. PC with Windows XP operating system for the LB system with following minimum configuration :-						
	Intel 1.8 Core 2 duo with two V Colour TFT Monitor, Optical N	USB drives, 512MB DDR RAM, 160 GB HDD, 3.5" FDD, DVD-RW, 17" Mouse, Keyboard.					
	Essential Accessories		1 set				
	1. Programmable Spin Coater	Unit					
	Specifications:						
	Speed Range :	500 RPM to 8000 RPM					
	Speed Accuracy :	1% across the full range					
	Speed Control :	Programmable					
	Time Control : Acceleration/Deceleration :	Programmable					
		: Programmable 60 mm					
	Teflon Coated Bowl :	8 inch					
	Display :	digital					
	Timer :	adjustable from 1-999 sec					
	Power Supply :	230V  AC / 50  Hz					
	Wattage :	250 W					
	Slide Mounting :	vacuum suction facility					
	Substrate Holder Size :	1 cm to 8 cm					
	D' (I D II)						
	Dimension (LxBxH) :	15"x10"x12"					

	This unit should consist of 8" SS Teflon Coated Removable Bowl, Vacuum Chuck (1"x1") Substrate, Digital Speed Indication, Digital Timer Indication and Dial Guage indication of vacuum at chuck, Instruction Manual &	
	Tutorial. PC with Windows XP Operating System for the Spin Coater unit with preferably following configuration: Intel 1.8 Core 2 duo with two USB drives, 512MB DDR RAM, 160 GB HDD, 3.5" FDD, DVD-RW, 17" Colour TFT Monitor, Optical Mouse, Keyboard.	
2.	Rotary Vacuum Pump Specifications:- Oil type with displacement capacity 90 lit/min and integrated vacuum release switch for easy wafer handling.	1 set
3.	Single Dip Coater Unit Specifications:	1 set
	Deposition Speed: Can be programmed from 1 to 100 mm/minDeposition arm movement: 150mmDeposition cycles: UnlimitedDelay times: UnlimitedDipper: Stepper Motor	
	This unit should consist of an Interface Control Unit, PCI Mountable Interface Card, Multi Slide Holder, Window Based Application Software, Instruction Manual & Tutorial.	
	PC with Windows XP Operating System for the Dip coater unit with preferably following configuration: Intel 1.8 Core 2 duo with two USB drives, 512MB DDR RAM, 160 GB HDD, 3.5" FDD, DVD-RW, 17" Colour TFT Monitor, Optical Mouse, Keyboard.	
4.	<b>Essential Tool Box,</b> containing at least Align key set, Screw Driver set, Coupling Rubber Tube, Tweezers, Micro Switch, Magnetic Torpedo Level, Silk Thread, Extension Board, Filter Paper, Hook, Tissue Paper, Inlet-Outlet Pipe.	1 set
	Essential terms and conditions	
	<ol> <li>The main system along with items mentioned under essential accessories must come in a single package.</li> <li>Two year warranty for the whole system from the day of installation.</li> <li>Time to time onsite troubleshooting as and when required during the warranty period must be provided.</li> </ol>	
	<ol> <li>The supplier must have a working service centre in eastern region preferably at Kolkata.</li> <li>Supplier firm being manufacturer firm will be preferred.</li> <li>Supplier must provide detailed pre-installation requirement along with quotation.</li> <li>Existing customer list with address and contact number must be provided with quotation.</li> <li>Quotation from dealers will be rejected.</li> </ol>	
	<ul><li>9) Scientific research publications citing the application of the instrument quoted may be provided.</li><li>10) Any future software upgradation must be provided free of cost.</li></ul>	
	Note : The instrument should be installed at CIMFR, Digwadih Campus, P.O.: FRI, Dhanbad Jharkhand, India.	

Sl No. 09	File No.	CMRI/PUR/12(6)2006	
	Sl. No.	Description	Qty.
	1.	Thermal Imaging Camera have been the following specifications :-	1 No.

1) Temperature Range : (i) upto $500^{\circ}$ C (ii) upto $1000^{\circ}$ C (iii) upto $1500^{\circ}$ C (iv) upto	
$2000^{\circ}$ V	
<ol> <li>Hardware switch or Software selectable ranges.</li> <li>Storage Range : -40<sup>0</sup> to 70<sup>0</sup>C (approx.)</li> </ol>	
<ul> <li>4) Operating Humidity, %RH non condensing: 10 to 95%</li> </ul>	
5) Opr. Temperature: $0-40^{\circ}$ C/ $0-50^{\circ}$ C	
6) Video output, NTSC/PAL: NTSC & PAL	
<ul><li>7) Thermal Image Display on high visibility LCD Screen: 3"/4" LCD</li></ul>	
8) Digital Interface: USB/RS232 PCMCIA	
9) Docking Station: Optional	
10) Detector type : Uncooled FP Array	
11) Detector array format: 320x240 pixel or better	
12) Digitizing Resolution: 14 bit or better	
13) Video update rate: 50-60 Hz interlaced	
14) Thermal Sensitivity: <0.08°C at 30°C	
15) Repeatability: $\pm 1\%$ or better	
16) Accuracy: $\pm 2^{\circ}$ C or 2% which is maximum or better	
17) Wavelength sensitivity: $7.5 - 13 \mu\text{m}$ or $7-14 \mu\text{m}$	
18) Target sighting facility preferred	
19) Emissitivity determination facility of soil/rock will be preferred	
20) Minimum focus range: 0.3m or less	
<ul><li>21) Digital Zoom: 2,4 interpolable or better</li><li>22) Provide single multi movable spot highest and lowest temperature capture,</li></ul>	
temperature analysis in line/area (specify no. of movable spots)	
23) Provide PC based image processing and report writing software for MS Windows	
24) Image Storage on CF Card, 2 GB preferable	
25) State the choice of colour palettes.	
26) Instrument should be capable of working in harsh environment (IP-54 enclosure dust	
and splash proof rating)	
27) NIST calibration certificate	
28) Field of view (FOV): $24^{\circ}$ x $18^{\circ}$ preferred	
29) State the focal length of lens in mm	
30) Maximum operating time with battery (preferable 8 hrs. with or without battery	
charge)	
31) Text/Voice annotation	
32) High resolution visual image generation facility along with IR image	
33) Environment Temperature correction facility	
<ul><li>34) Provide operation/user manual</li><li>35) Provide the service manual</li></ul>	
36) Consumable and spare parts for 5 years to be provided	
37) Power supply	
38) Image recording facility	
39) Lens cap	
40) 220 to 240 volt AC battery charger or from 12V car battery or two bay intelligent	
charger	
41) Battery, Li-ion rechargeable or better one with sufficient back-up time preferably 8	
hrs. back-up time	
42) Carry Case	
43) CF Card	
44) USB cradle	
45) AC adaptor	
46) Shoulder/hand strap	
47) Tripod 48) Televista lang	
48) Telephoto lens	
49) Zoom lens	
50) Macro mens 51) Wide angle lens 13	
51) Wide angle lens 13 52) Close-up lens	

## Sl. No.10

#### File No CIMED/DUD 14(25)2007

Sl No.	File No.CIMFR/PUR-14(35)2007		
1.	Description of Item	Qty.	
	Climate Chamber with inner space 600x600x600 mm (Volume Space 216	1 No.	
	L) to condition test objects at following thermal cycle		
	(a) $70 + 3^{\circ}C$ dry atmosphere for 72 hours		
	(b) $70 \pm 3^{\circ}$ C and 95-100% relative humidity for 72 hours		
	(c) $-30 + 3^{\circ}$ C for 24 hours		
	The chamber should be equipped with all standard accessories including		
	provision for display, setting and monitoring arrangement of the test		
	condition, object viewing window, facilities for bi-directional		
	communication (RS232/RS485) with standard Window based PC, facilities		
	for downloading, analyzing and printing the data, Standard Safety features,		
	Calibrating Arrangement, Low Fluctuation/Vibration in the temperature		
	(upto 1K or better) and humidity data (upto 3% or better).		

Sl. No.11	Sl No.	File No.CIMFR/PUR-11(26)2007	
		Description of Item	Qty.
	1.	XGA Professional Plasma Display: 50" Diagonal, XGA Resolution, 16:9 Aspect Ration, Point Zoom, Video Wall capability, 1024 x 1080 pixels, Contrast ration – not less than 10,000:1	02 Nos.
	2.	PDA – Connector Interface Card`	02 Nos.
	3.	Speaker Systems for 50" Plasma Displays	02 Nos.
	4.	Wall Mount Kit / Desktop Stand	02 Nos.
	5.	Interactive Electromagnetic LCD Writing Tablet: 17" Diagonal LCD Screen Size, 1280 x 1024 max. resolution, LCD sensor zone	02 Nos.
	6.	VGA Amplifier Cum Switcher	02 Nos.
	7.	Visualizer – Digital Professional Presenter: CCD Camera, VGA In, VGA out, USB PS2 Mouse, MIC RS232C Port, DVI Port, S-Video, Composite Video	02 Nos.
	8.	Software for Visulizer	02 Nos.

	Si File No.CIMFR/PUR-11(24)2007	
1	Description of Item	Qty.
	BOD Self check measuring equipment for determination of Biochemical oxygen demand (BOD) in water/wastewater.	01 No.
	The offer should include complete package ready for use for 12 simultaneous measurements of BOD with all accessories including BOD bottles, Measuring Heads, BOD incubator/Thermostate Box, Stirring Systems etc. The technical specifications is as follows:	
	Application : BOD routing, BOD Standard Measuring Principal: Manometric with pressure sensor Quantity measured: BOD n Measuring Range : 0-4000 mg/l Display Accuracy: 1 digit Memory: For BOD5: 1 per day Ambient Temperature: Storage (0-65 <sup>o</sup> C), Operation Temperature (30-40 <sup>o</sup> C) Measuring Value Memory: 05 Hour – 99 days Sample Volume : Fixed Power Supply : 230V/50Hz	

No.     The No. Child Ni Child Chil Child Chil		Q
	INNERMOST MEMBER (Liner) of Explosive Testing Cannon	0
		N
	This is the innermost part of three member explosive testing cannon assembly (see	
	attached figure) and have following specifications:	
	(a) Outside diameter : $4\frac{3}{4}$ inch / $7\frac{3}{4}$ inch taper $\pm 1/32$ inch	
	(b) Inside diameter : 55mm inside diameter for a length of 4.0 feet	
	(c) Length : 5.0 feet $\pm 1/32$ inch	
	(d) It should be made of 2.5% Chrome, 0.75% Nickel, 0.35% Molybdenum Forged	
	Steel, Oil Hardened & Tempered condition having Brinell Hardness of 340/360.	
	The supplier should submit a certificate of examination of the material used for making liner from reputed organization for their conformity to our requirement.	

Description of Item		
Description of Item           MICROWAVE DIGESTION SYSTEM		
Specifications:-		
1. The Microwave Digestion System must be able to ensure efficient		
operation for the digestion of minimum 12 samples simultaneously		
for refractory / ceramic materials, Coal Ash, Ore etc. at high pressure		
(1450 psi)		
2. The system must be compatible to with stand exposure to corrosive		
chemicals and spills. There must be non-absorptive load, such as a		
PFA floor in the cavity to compete with the sample for available		
microwave energy.		
3. The unit should be computer controller for operation, storage,		
printing and graphic display.		
4. Instrument must have dual magnetron with unpulsed microwave		
power over its full range.		
5. The magnetron should be protected from reflected microwave		
energy. 6. Dual temperature sensor design for high accuracy to measure		
temperature.		
7. Forced air cooling system to prevent over heating and cool vessels in		
minutes.		
8. Multiple over-pressure release device and protection shields around		
the reaction vessels to ensure safety.		
9. The impact resistance door with electrical and mechanical interlocks.		
10. System must be operated through touch control with appropriate		
software for real time temperature and pressure. It should have		
facility to interface with PC.		
11. System programme must include the capability to programme a time		
to temperature or pressure operation.		
12. High performance vessels 12 Nos.		
Ø Linear Material : PTTE-TFM Ø Pressure Jackst : Coromia or Similar		
<ul> <li>Ø Pressure Jacket : Ceramic or Similar</li> <li>Ø Volume : Min. 100 mL</li> </ul>		
$\vec{D}$ Volume 1 Nini. 100 hiL $\vec{D}$ Maximum Pressure: 100 bar (1450 psi)		
$\vec{\omega}$ Maximum ressure: 100 bar (1430 psr) $\vec{\omega}$ Maximum temperature: 300 <sup>o</sup> C		
13. Minimum 12 position rotor system		
14. Inbuilt exhaust system to cool the vessels and to drive away if any		
fumes in the cavity.		
15. System should be upgradeable to open vessel digestion system		
16. All necessary accessories/spare parts/consumables should be quoted		
for smooth and trouble free operation of the equipment for minimum		
3 years.		
17. Minimum 2 years warranty of the system		

Sl. No.15	Sl No.	<b>File No.</b> CIMFR/PUR/14(29)2007	
		Description of Item	Qty.
	1.	MICROTRAP VOD METER / DATA RECORDER	1 No.
		Portable 1 channel continuous explosives velocity if detonation (VOD) recorder for	
		explosives in one or more blastholes and explosives samples Resolution = 14 bits. 1	
		part in 16.384. Recording speed is adjustable from 1 Hz to 2 MHz. Standard	
		memory of 4,000,000 data points = 2 seconds recording time at a 2 MHz recording	
		speed Reducing recording speed increases the recording time. Adjustable internal	
		and multiple external trigger modes Pre-trigger time is adjustable form 0% to 100%	
		of the total recording time Multiple event storage of upto 16 events in non-volatile	
		memory. Operates from the internal rechargeable NiCad battery (up to 12 hours), or VAC Battery Charger. Parallel Port Communication Cable, USB Port	
		communications adapter, Micro Trap VOD Operations Manual, Micro Trap	
		Advanced Analytical Software for Window 95 and late, padded micro Trap Case.	
		Includes a 1 year comprehensive 100% part and labour warranty.	
		includes a 1 year comprehensive 100% part and labour warranty.	
	2.	VOD Cable (VOD Probe Cable) (1000m) – 4 boxes	1000m



## Central Institute of Mining & Fuel Research Erstwhile Central Mining Research Institute (Council of Scientific & Industrial Research) Barwa Road Campus, Dhanbad –826001 (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 (RPF)**

# NIT No. CIMFR/PUR/14(5)2007 1.Last Date for Submission of Bid : 28.01.2008 upto 4.00 P.M 2.Date of Opening of Tender(only Technical Bid in case of Double Bid System) : 29.01.2008 at 10.00 A.M 3.Date of Opening Financial Bid wherever applicable : TENDERERS WHOSE TENDERS ARE FOUND TECHNICALLY SUITABLE



#### **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 three separate envelopes 1. EMD Envelope, 2. Technical-Commercial Bid Envelope and 3. Financial Bid Envelope duly sealed and super scribed with "Tender No. and Description of item" strictly as per our Technical specifications and Terms and Conditions.

#### 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 if 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.

#### **<u>Commercial Terms</u>** :

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
- 1. 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.
- 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

1. 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.

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 <u>latest by</u> <u>4.00 PM on 28.01.2008.</u>

Central Institute of Mining & Fuel Research Erstwhile Central Mining Research Institute (Council of Scientific & Industrial Research), Barwa Road Campus, Dhanbad -826001, JHARKHAND, INDIA ' : 0091-0326-220-3156, 6: 0326-2203156,2202429 STD CODE: 0326

The Tenders (Technical Bids only wherever applicable) will be opened in this Office at 10.00 A.M hours on 29.01.2008 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 who are registered with DGS&D as authorized Indian Agent of Foreign Supplier under the Compulsory scheme of Ministry of Finance. In case Indian Agents submit their tender or forward the tender of Foreign Supplier without DGS&D Registration Certificate, the tender will not be considered. In such cases the tender must be submitted by Foreign Manufacturer/Supplier directly to CIMFR, then the tender of Foreign Manufacturer/Supplier will only be considered and CIMFR will deal directly with the Foreign Manufacturer/Supplier.

#### 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-826001 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, <u>which are found to be</u> <u>technically qualified to undertake the job</u>. 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.

#### i) 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.

## **SECTION - III**

### **TERMS & CONDITIONS**

1. <u>Submission of Tenders:</u> Sealed tenders must be submitted in an envelope duly super scribing "Tender/File Ref.No., Description of item and Date of Opening" addressed to Director. Central Institute of Mining & Fuel Research, Barwa Road, Dhanbad - 826001 JHARKHAND, INDIA in the Tender Box kept in the Office of the Stores & Purchase Officer, CIMFR, <u>latest by upto 4.00 PM on 28.01.2008 positively. Request for extension of submission date of tenders will not be considered.</u>

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

<u>3. Opening of Tenders:</u> The tenders received will be opened at **10.00 A.M.** on **29.01.2008** in the presence of the authorized representatives, if any, of quoting firm (one member only) at this office. <u>Request for extension of opening date of tenders will not be considered.</u>

<u>4. Earnest Money Deposit:</u> 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.

**<u>7. Refund of Performance Security Deposit:</u>** 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.

**<u>9. Custom Duty and Excise Duty:</u>** 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 compulsory enlistment with DGS&D. 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.

**<u>11. Taxes:</u>** 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.

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

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

**<u>15. Delivery:</u>** 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-826001 (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

**<u>18 S.T. Registration No./</u>**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.

## <u>20. Software installation:</u> 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 authorised 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. 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-828 108, 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-828 108, 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 offer, the payment will be on credit basis i.e. 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 Foreign Bank duly endorsed by Nationalized Bank in India.

Term II - In case of Foreign offer, 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 by Foreign Demand Draft 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 - Letter of Credit / Sight Draft (For 100% payment 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.

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 whole 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.



#### 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       Yes /         Specifications in the format?       Yes /	
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	Yes / No
	in the	
	Format?	
3.	Have you attached the statement of deviations from the Financial	Yes / No
	terms	
	and conditions in the format?	

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



#### (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 – 826001,INDIA

#### **Ref:** Tender No. CIMFR/PUR/14(5)2007 date: 27.12.2007

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 2004 Signature of Bidder

#### 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** 

## (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 DHANBAD-826001, INDIA

#### Ref: Tender No.CIMFR/PUR/14(5)2007 dated 27.12.2007

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 \_\_\_\_\_2007 Signature of Bidder

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

COMPANY SEAL

PRICE SCHEDULE - Estimated Quantity and Financial Bid Analysis										
SI	Item Name	Qty.	Manufacturer	Model Name	Compaliance to	Operating	Unit	Total cost		
No				& Version	suggested	System	Cost	(inclusive of		
					Technical	Environment	Rs.	all other		
					Specification			charges		

#### **PRICE SCHEDULE - Estimated Quantity and Financial Bid Analysis**

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

#### <u>NOTE</u>

(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.  $3 \times \text{Col. } 8 = \text{Col.9}$ . 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.

SI 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

#### **BID SECURITY FORM**

PEOPLE KNOW ALL these that WE by presents of bank) of ...... (Name of country), having our registered office at (address & phone & fax no. of bank) (hereinafter called "the bank"), are bound unto ..... (Name of Purchaser) (hereinafter called "the Purchaser") in the sum of ...... For which payment well and truly to be made to the said purchaser, the Bank binds itself, its successors, and assigns by these presents, Sealed with the common Seal of the said Bank this ...... Day of ...... 200...... THE CONDITIONS of this obligation are:

- 1. If the Bidder withdraws its Bid during the period of bid validity specified by the
  - Bidder on the Bid Form; or
- 2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser

During the period of bid validity:

- a) Fails or refuses to execute the Contract Form if required; or
- b) Fails or refuses to furnish the performance security, in accordance with Instruction to Bidders.

We undertake to pay the purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is owing to it, owing to the occurrence or one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee shall remain in force up to and including Forty-five (45) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

### PERFORMANCE SECURITY FORM

To: \_\_\_\_\_\_\_(Name of Purchaser) WHEREAS\_\_\_\_\_\_\_(Name of Supplier) hereinafter called "the Supplier" has undertaken, in pursuance of Contract No. \_\_\_\_\_\_\_ dated \_\_\_\_\_\_\_ 2007 to supply \_\_\_\_\_\_\_ (Description of Goods and Services) hereinafter called "the Order" AND WHEREAS it has been stipulated by you in the said order that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the order.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and	nd responsible to you, on behalf of the						
Supplier, up to a total of	(Amount of the						
Guarantee in Words and Figures) and we undertake to pay	y you, upon your first written demand						
declaring the sum or sums within the limit of	(Amount Guarantee) as aforesaid,						
without your needing to prove or to show grounds or reasons for your demand or the sum specified							
therein.							

This guarantee is valid until the \_\_\_\_\_day of \_\_\_\_\_2007

#### Signature and Seal of Guarantors

Date

Address

All correspondence with reference to this guarantee shall be made at the following address:

(Name & address of the lab)