



GUJARAT ENERGY RESEARCH & MANAGEMENT INSTITUTE (GERMI)

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**GUJARAT ENERGY RESEARCH AND MANAGEMENT INSTITUTE
INVITES QUOTATIONS FROM SUPPLIERS FOR:
1. CORE ANALYSIS LABORATORY
2. PETROLOGY LABORATORY
3. GEOCHEMISTRY LABORATORY**



**Last date for submission of
quotation: 15th May, 2012**

1. INTRODUCTION

1.1 Background of the Project

- 1.1.1 Gujarat Energy Research & Management Institute (hereinafter referred to as “GERMI”), is promoted by Gujarat State Petroleum Corporation Ltd. (GSPC) is a fully integrated energy company having a presence in various operations like Exploration & Production, Transportation of Gas, and Power Generation, IT services. It is one of the fastest growing state owned companies and has excellent support from Gujarat Govt. as well as from Central Govt.
- 1.1.2 GERMI is a centre of excellence in industry learning and has set up to develop human resource assets to cater to the petroleum and allied energy sectors, improve knowledge base of policy makers and technologists and provide a competitive edge to leaders to compete in the global arena. GERMI has already established a specialized technology & management institute focusing on the Oil & Gas Sector and is actively pursuing initiatives in the areas of research and alternative energy resources.
- 1.1.3 As research areas are of imminent importance for petroleum operations, State-of-the art Laboratory, Research Facilities and Strong Technical Leadership are fundamental issues for growing Indian Petroleum Industry. GERMI Research & Innovation Centre plans to develop a World-Class Research Centre with all the high-tech state-of-the art facilities. The research centre is currently at very nascent stage and needs a long way to go. To begin this journey, it had already started developing the initial infrastructure, setting up of
- a) Core Analysis Laboratory
 - b) Petrology Laboratory
 - c) Geochemistry Laboratory
- 1.1.4 Quotes are invited for procurement of equipments for the above mentioned three laboratories as per the minimum desired specification given in this document.

1.2 List of equipments to be supplied

- 1.2.1 Quotations are invited from original equipment manufacturers or their authorized distributors or agents in India for the following equipments:

1.	Core Analysis Laboratory
	1. Automated Permeameter / Porosimeter 2. Calibrated Check Plugs 3. Soxhlet Extraction Apparatus 4. Dean Stark Extraction Apparatus 5. High Speed Automated Centrifuge / Centrifugal Extractor 6. Specimen Grinder 7. Geometric Bulk Volume Meter 8. Plugging / Coring Machine 9. Fluid Transfer Vessel 10. Hand Operated Pump
2.	Petrology Laboratory
	1. Petrographic Microscope 2. Polarizing Research Microscope 3. Digital Camera for Microscope 4. Thin Section Preparation Unit 5. Pycnometer 6. Standard Microscopic Slides with Rock Hand Specimen, Rock Polished Blocks, Mineral Catalogue, Laboratory Models, Brunton Compass, Geological Hammer
3.	Geochemistry Laboratory
	1. Atomic Absorption Spectrophotometer 2. Spectrophotometer 3. Elementor CHNS-O (OIL and Core) 4. Microwave Sample Digestive System 5. Orbisphere TC Sensor 6. Humidity Temperature Control Cabinet 7. Magnetic Stirrer 8. Magnetic Stirrer with Hot Plate 9. Hot Plate 10. Dead Weight Tester 11. pH Meter 12. Viscometer 13. Auto Titrator 14. Temperature Control Retort 15. Flame

Photometer 16 . Heater Cup 17 . Hydrometer Kit 18 . Cup Mixer 19 . Constant Speed Mixer 20 . Marsh Funnel Viscometer 21 . Motorized Sieve Shaker 22 . 8" Dia Complete Sieve Set 23 . Silverson Lab Mixer 24 . Traceable Calibration Weights 25 . Pressurized Mud Balance 26 . Circulation Water Bath 27 . Dry Bath 28 . Water Analysis Kit 29 . Benchtop Meter 30 . Top Loading Balance 31 . High Precision Digital Balance 32 . Lab Oven 33 . Air Compressor 34 . Laboratory Mortar Grinder 35 . Laboratory Refrigerator 36 . Laboratory Deep Freezer 37 . Ice Flaker 38 . Magnetic Separator

1.3 Submission of quotation

- 1.3.1 Last date for submission of quotation is 15th May, 2012 before 1700 hrs. Director, GERMI reserves the right to reject any/all offers without assigning any reasons thereof.
- 1.3.2 Quotations should be submitted to:

The Director
Gujarat Energy Research and Management Institute,
Research Innovation and Incubation Centre
1st Floor, Energy Building, Pandit Deendayal Petroleum University Campus,
Raisan Village, Gandhinagar, Gujarat – 382007, India
Phone: +91 79 23275375
Fax: +91 79 23275380
Email: information@germi.org

Any queries related to the procurement may be addressed to the above stated person through above contact details.

1.4 Schedule of fiscal aspects

- 1.4.1 Date of commencement: Immediately upon issuance of Purchase Order.
- 1.4.2 Period of completion: 60 (Sixty) days from the date of Purchase Order.
- 1.4.3 Liquidated damages: 0.5 % of the Purchase Order value per week of delay to a maximum of 5.0% of Purchase Order value.
- 1.4.4 Defects liability period: 24 months from the date of handing over.
- 1.4.5 Terms of payment: i) 80% on supply of equipment and material, ii) balance 20% upon installation and commissioning of the equipment.

2. ELIGIBILITY

2.1 Eligible Suppliers

- 2.1.1 The Supplier should be an original equipment manufacturer. or
- 2.1.2 The Supplier should be selling agent/authorized distributor/ authorized dealer/authorized supply house, provided such Supplier shall submit back-up authority letter from the concerned manufacturers who authorized them to market their product, provided further such an authority letter is valid at the time of submitting the quotation. Offers without back-up authority from manufacturer will not be considered.

2.2 Experience

- 2.2.1 The Supplier should have minimum 5 years of experience in manufacturing / supplying the required equipments in India or worldwide.
- 2.2.2 The Supplier should have supplied minimum **5 nos** of equipments during **last 5 years** to leading national or international **research institutes or laboratories** with documentary evidence in the form of copy of purchase orders, Installation reports etc. This condition is applicable only for all the equipment listed in clause 2.2.3 herein.
- 2.2.3 List of equipments out of the equipments mentioned in point 1.2.1, which require supply requirements mentioned in points 2.2.1 and 2.2.2:

1.	Core Analysis Laboratory
	1. Automated Permeameter / Porosimeter 2. Soxhlet Extraction Apparatus 3. Dean Stark Extraction Apparatus 4. High Speed Automated Centrifuge / Centrifugal Extractor 5. Specimen Grinder 6. Geometric Bulk Volume Meter 7. Plugging / Coring Machine 8. Hand Operated Pump
2.	Petrology Laboratory
	1. Petrographic Microscope 2. Polarizing Research Microscope 3. Thin Section Preparation Unit 4. Pycnometer
3.	Geochemistry Laboratory
	1. Atomic Absorption Spectrophotometer 2. Spectrophotometer 3. Elementor CHNS-O (OIL and Core) 4. Microwave Sample Digestive System 5. Orbisphere TC Sensor 6. Humidity Temperature Control Cabinet 7. Viscometer 8. Auto Titrator 9. Temperature Control Retort 10. Flame Photometer 11. Constant Speed Mixer 12. Laboratory Mortar Grinder 13. Laboratory Refrigerator 14. Laboratory Deep Freezer 15. Ice Flaker 16. Magnetic Separator

- 2.2.4 The Supplier will have to furnish a performance certificate in English issued by the Competent Authority; clearly mentioning that the Supplier has successfully manufactured / supplied the required equipments in India and Abroad.
- 2.2.5 The supplier should also mention the pre-requisites for installation and operational necessities in its quotes.
- 2.2.6 For rest of the equipments given below, Supplier should have supplied to minimum **5 numbers** to **research/academic institutes/industrial** units during last 5 years.

1.	Core Analysis Laboratory
	1. Calibrated Check Plugs 2. Fluid Transfer Vessel
2.	Petrology Laboratory
	1. Digital Camera for Microscope 2. Standard Microscopic Slides with Rock Hand

	Specimen, Rock Polished Blocks, Mineral Catalogue, Laboratory Models, Brunton Compass, Geological Hammer
3.	Geochemistry Laboratory
	1. Magnetic Stirrer 2. Magnetic Stirrer with Hot Plate 3. Hot Plate 4. Dead Weight Tester 5. pH Meter 6. Heater Cup 7. Hydrometer Kit 8. Cup Mixer 9. Marsh Funnel Viscometer 10. Motorized Sieve Shaker 11. 8" Dia Complete Sieve Set 11. Silverson Lab Mixer 13. Traceable Calibration Weights 14. Pressurized Mud Balance 15. Circulation Water Bath 16. Dry Bath 17. Water Analysis Kit 18. Benchtop Meter 19. Top Loading Balance 20. High Precision Digital Balance 21. Lab Oven 22. Air Compressor

2.2.7 The quotations submitted by any Supplier failing to meet the requirements specified in clause 2.1 and 2.2 above can be rejected by GERMI at its own discretion.

3. General Terms and Conditions

3.1 General Instructions:

- 3.1.1 GERMI reserves the right to reject the quotation without assigning any reason.
- 3.1.2 Completeness of the equipment shall be the responsibility of the Supplier. Any equipment, fittings and accessories, which may not be specifically mentioned in the specification or drawing(s) but which are usual or necessary for the satisfactory functioning of the equipments (successful operation and functioning of the equipment being Supplier's responsibility), shall be provided by the Supplier without any extra cost.
- 3.1.3 The equipment shall be manufactured in accordance with sound engineering and good industry standards and also the Supplier shall in all respect design, engineer, manufacture and supply the same within delivery to the entire satisfaction of GERMI.
- 3.1.4 The supply shall be carried out strictly in accordance with the specifications or as directed by GERMI.
- 3.1.5 The time allowed for completion of work shall be 60 (Sixty) days, which shall be reckoned from the date of issue of Purchase Order.
- 3.1.6 The Quotation shall remain valid for at least 120 days.
- 3.1.7 Water and electricity supply, if required for the job, will be made available *free of cost* by GERMI.
- 3.1.8 The Supplier may inspect the site before submitting their quotations after obtaining prior permission from the competent authority of GERMI.
- 3.1.9 Income tax and other statutory dues shall be deducted from the Supplier's bill as per Govt. of India rules.
- 3.1.10 The Supplier shall ensure compliance of all statutory laws and bylaws of the Central Govt./State Govt./Municipal authorities related to the employment of their staff and all such obligation under Wage Act, Workmen Compensation Act, ES-II Act, Provident Fund and Miscellaneous Provisions Act, Bonus Act, and Contract Labor Act, 1970 etc. and GERMI will not be responsible for such purposes in any way.
- 3.1.11 Before commencement of work the Supplier shall correlate all relevant structural, architectural and service drawings and satisfy himself that the information available from there is complete and unambiguous. The Supplier shall be responsible for any error/difficulty in execution/damage incurred owing to any discrepancy in the drawings which has been overlooked by him and has not been brought to the notice of the competent authority of GERMI before execution.
- 3.1.12 No escalation in any form either of materials or labor shall be payable by GERMI.
- 3.1.13 All materials brought at site shall be as per the specification and shall be got approved by the competent authority of GERMI before being used.
- 3.1.14 Time allowed for completion of work shall be strictly followed; otherwise the Supplier shall be liable to pay compensation at the rate of 0.5 % of the contract value of the job undone per week of delay on the part of the Supplier subject to a maximum of 5% of the total contract value.
- 3.1.15 No claim for any compensation during the extended period shall be entertained and GERMI decision in this regard shall be final.
- 3.1.16 All or any Claim(s), dispute(s) or difference(s) arising out of or in with connection with this agreement shall be subject to the jurisdiction of the Courts at Gujarat only.

3.2 Materials and Workmanship

- 3.2.1 All materials shall be of the best quality and workmanship capable of satisfactory operation under the operating and climatic conditions as may be specified. Unless otherwise specified, they shall conform in all respect to the latest edition of the relevant Bureau of India Standard (BIS) specification wherever Indian specifications apply or internationally accepted standard.
- 3.2.2 All materials and equipment shall conform to the relevant Indian International Standards and shall be of the approved make and design.
- 3.2.3 The Supplier shall supply & deliver all equipment and materials for installation at site. The Supplier shall arrange for transportation, loading and unloading of materials at project site at his own cost & risk.
- 3.2.4 The Supplier shall be responsible for securely protecting and packing the equipments as per prescribed standards in force to withstand the journey and ensuring safety of materials and also arrival of materials at destination in original condition and good for contemplated use.
- 3.2.5 In order to import any items, associated with the GERMI from abroad or from any other state in India, Supplier shall have to arrange any clearance, permission, if required at his own risk, from any Government (Government of Gujarat & Government of India) or any Government controlled organization, for transportation of materials from manufacturing shop to delivery at site. Necessary certificates if so required shall be issued by the GERMI within reasonable time after getting written request from the Supplier along with the necessary documents substantiating necessity of such approvals.

3.3 Warranty/Guarantee

- 3.3.1 The Supplier should transfer the original warranty received from the manufacturer to GERMI.
- 3.3.2 The Supplier must ensure that the goods supplied under the contract are new, unused and of most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the contract.

3.4 Time Schedule of Work in detail

- 3.4.1 The Supplier shall provide full programme of the supply in detail. Strict adherence and guaranteed delivery schedule shall be essence of the agreement.

3.5 Terms of Payment

- 3.5.1 The normal terms of payment are 100% payment within 30 days time after receipt of invoice and acceptance of the materials in good condition and its satisfactory installation and operation
- 3.5.2 Subject to any deduction which GERMI may be authorized to make, the Supplier shall be entitled to payment as follows:
 - a) All payments shall be made in Indian Rupees.
 - b) All payment shall be made on the basis of actual measurement for the quantified terms as per schedule of works.
 - c) The Supplier shall submit the bill / invoice for the work executed showing separately VAT, Service Taxes and any other statutory levies in the bill / invoice.
- 3.5.3 The terms of payment shall be as stipulated in main body of the purchase order.
- 3.5.4 Purchases should normally be made on firm prices. However, statutory variation on account of change in customs duty, excise duty, could be allowed to Suppliers if so agreed and mentioned in the Purchase Order.

3.5.5 The quotation shall specify separately the F.O.B. price, C.I.F. price and the customs duty payable. They will also indicate correctly the rate of customs duty applicable along with Indian customs tariff number. In case of Indian Supplier, total deliverable cost including breakup of the applicable taxes, levies etc. shall be provided as part of the Quotation.

3.5.6 In case where all the Suppliers have quoted only for imported stores against forwarded delivery, the quotes will be evaluated on prices exclusive of customs duty. In such case the amount of customs duty as legally liable calculated by reference to the tariff value of the stores declared by the Supplier.

3.6 Performance guarantee

3.6.1 The Supplier shall test at manufacturer's works the performance of machines at rated operating parameters and design conditions and be fully responsible for the performance of the equipment at GERMI office and for the accuracy and efficiency of the installation to deliver the required end results.

3.7 Technical data

3.7.1 Each Supplier must submit along with his quotation the technical data for all items separately along with the installation and operational requirements.

3.8 Testing and commissioning

3.8.1 **Test at works:** One complete machine will be tested for full capacity at the Manufacturer's site only before dispatching the same. No separate charges would be payable by GERMI towards testing.

3.8.2 The equipments should be dispatched only after the test results are as per guaranteed parameters before dispatch. Supplier shall also provide copies of record of all safety and automatic control settings for the entire machine.

3.9 Operating instruction & maintenance manual

3.9.1 The Supplier shall submit essentially the comprehensive operating instructions, maintenance schedule and log sheets for all systems and equipment included in this contract. This shall be supplementary to manufacturers operating and maintenance manuals.

3.9.2 On Site Training: The Supplier shall arrange the required training to get the equipments operated skillfully and safely.

3.10 Maintenance during defects liability period

3.10.1 **Complaints:** The Supplier shall agree to receive calls for any and all problems experienced in the operation of the system under this contract, attend to those within 48 hours of receiving the complaints and shall take steps to immediately correct any deficiencies that may exist including replacement of compressor at no cost to owner.

3.10.2 **Repairs:** All equipments that require repairing shall be immediately serviced and repaired. Since the period of mechanical maintenance runs for TWO YEARS concurrently with the defects liability period, all replacement parts and labor during this period shall be supplied promptly *free of charge* to the owners.

3.10.3 **Warranty replacement:** Replacement of parts, if required, during the warranty period shall be supplied *free of cost* by the Supplier. All charges shall be paid by the Supplier for release of spare parts from the customs. Kindly note that only custom

papers & DSIR Certificate shall be supplied by GERMI.

3.11 Insurance coverage for

3.11.1 The equipment ordered shall be insured by the Supplier for the onward journey from the factory up to the GERMI premises until they are installed, commissioned and handed over to GERMI representative. Any loss on account of any incident before installation, commissioning and handing over shall be full responsibility of the Supplier.

3.12 Other general terms

3.12.1 The manufacturer or and its authorized agents/ dealers representatives are requested to quote for all possible variants and models along with optional components and attachments. The sample preparation components as required for a specific model should also be quoted.

3.12.2 The manufacturer/Supplier (or the Indian Agents) of all equipment shall erect & commission them in our laboratory and demonstrate the performance of the equipment as per their claims.

3.12.3 The equipment must be capable of operating on the standard AC supply in India i.e. - 220 V \pm 10%. The UPS or any other special requirements of the supply must be mentioned in the quotations and requisite equipment should also be supplied by the manufacturer.

3.12.4 The complete equipment & all accessories shall be guaranteed for satisfactory performance.

3.12.5 The Supplier shall provide at least one hard copy of operation and maintenance manuals along with complete circuit diagram of the main equipment and all its accessories.

3.12.6 If GERMI desires the Supplier directly or through its representatives, Supplier should be ready to take up the AMC of the equipment post two years of Defect Liability Period.

3.12.7 The manufacturer or and its authorized agents/ dealers representatives may have to provide an onsite training of the operation of the said equipment to the suitably assigned person/persons by the competent authority of GERMI.

3.12.8 Specific requirements of samples, space and working environment desired for the best/optimum performance of the equipment should be mentioned. The installation space, temperature and other working conditions should also be mentioned.

3.12.9 The place of delivery for all equipments is GERMI Gandhinagar.

3.12.10 Software or any IT requirements viz. computer, printer, monitor and allied accessories should also be quoted with assured supply along with the provision of regular up gradation at least for 5 years.

3.12.11 The Supplier should assure the supply of spares, specialized consumables and standards if required for a period of 5 years.

3.12.12 All the equipments should be quoted with price distribution for all essential and optional attachments, spare parts, maintenance kit (tool set), operational consumables, standards whichever is applicable.

4. COMMON REQUIREMENTS FOR ALL EQUIPMENTS

1. Multiple plans for Comprehensive warranty (parts and labor) should be quoted as optional. Such warranty should also cover all accessory instruments that work in conjunction with the main equipment and should be clearly specified. The following are plans envisaged:
 - a. Two-year warranty/Three-year warranty/Four-year warranty/Five year warranty
 - b. Any other warranty plan including insurance option.
2. Essential equipment spares for 5 years should be quoted as an option for all equipments and equipment downtime should not exceed 24 working days with component breakdown. Supporting documents to this effect should be attached.
3. Computer units supplied with each equipment should come with valid operating system CD, complete office suite programmes, and Antivirus Software valid for three years subscription for virus update.
4. Software update/revisions may be offered for 5 years.
5. Both application and equipment maintenance training at the time of installation and training for additional people onsite within the first year in form of training workshops.

NOTE:

- The decision on suitability of equipment for its use in GERMI by technical committee shall be final.
- In case change in technical situation, the technical committee reserves the right to redefine specifications.

5. Technical Specifications

5.1 Minimum Desired Specifications

5.1.1 Given below are the minimum desired specifications for all the equipments. Supplier's equipments should at least fulfill these specifications. Anything above these specifications is invited.

Equipments	Specifications
CORE ANALYSIS LABORATORY	
1. Automated Permeameter / Porosimeter	Porosity Range 10- 40% Permeability Range 0.001 – 1000md Confining Pressure Range 100- 8000psi Loading Type Hydrostatic Core Dia / Length Varying
2. Calibrated Check Plugs	Varying Porosity and Permeability Core/Plug Size Varying Sensitivity as per above Equipment
3. Soxhlet Extraction Apparatus	Capacity 200cc Heating Capacity 100°C Boiling Flask 500cc Core/Plug Size Varying
4. Dean Stark Extraction Apparatus	Boiling Flask 500cc Heating Capacity 100°C Extractor Cup 200cc Core/Plug Size Varying
5. High Speed Automated Centrifuge / Centrifugal Extractor	Rotating Speed 2000rpm Speed Regulation ±1rpm Core Dia / Length Varying Number of Samples 06 Fluids Involved Oil-Water-Gas Temperature Range -20 to 40°C
6. Specimen Grinder	Core Dia / Length Varying Motor Speed 1000rpm Speed Regulation ±1rpm Wheel Dia 50mm
7. Geometric Bulk Volume Meter	Caliper 100mm Core Dia / Length Varying
8. Plugging / Coring Machine	Core Depth 0-5" Core Bit Inner Dia Varying Motor Speed 1000rpm Speed Regulation ±5rpm Coolant Media Water-Oil-Gas

<p>9. Fluid Transfer Vessel</p>	<p>Volume 1000cc Pressure 100psi Temperature 100°C Material Polycarbonate /Hastelloy/SS</p>
<p>10. Hand Operated Pump</p>	<p>Pressure 1000psi Temperature Ambient Cylinder Capacity Varying Wetted Part Non-Corrosive-Non Rusting Pressure Accuracy ±0.85% Volume Accuracy ± 0.1 cc</p>
<p>PETROLOGY LABORATORY</p>	
<p>1. Petrographic Microscope</p>	<p>Capacity Transmitted - reflected polarized Light Eyepiece Magnification 4x-400x Stage Rotatable 360° with Graduation Marks Eyepiece Assemble Two Cross-Hairs Eyepiece Monocular/Binocular</p>
<p>2. Polarizing Research Microscope</p>	<p>Complete Set with Image Work Station Swift Point Counter Photometer</p>
<p>3. Digital Camera for Microscope</p>	<p>Sensor 5Megapixel Compatibility Windows Operating System Data Storage 10GB Live View Mode Shutter Vibration Elimination</p>
<p>4. Thin Section Preparation Unit</p>	<p>Complete Set with Thin Sectioneer, Rock Cutter, Polishing System Grinder-Polisher Bonding Fixture</p>
<p>5. Pycnometer</p>	<p>Flow Rate 10L/Min Pressure Range 0.1 - 0.3 MPa Temperature Range 0 - 20°C Calibrated Known Volume Cells</p>
<p>6. Standard Microscopic Slides with Rock Hand Specimen, Rock Polished Blocks, Mineral Catalogue, Laboratory Models, Brunton Compass, Geological Hammer</p>	<p>Standard Laboratory Study System</p>

GEOCHEMISTRY LABORATORY	
1. Atomic Absorption Spectrophotometer	Flame Atomization Automated Wavelength Scanning Wavelength Accuracy $\pm 0.1\text{nm}$ Background Correction Option Light Source Hollow Cathode Lamp Automated Spectral Bandwidth Change High Efficiency Detector Computerized Gas Controller PC Controlled Parameter Selection/ Analysis Variable Calibration Standards
2. Spectrophotometer	Wavelength 190-1100nm Spectral Bandwidth 2nm Scan speed 2500-3000nm/min Wavelength Accuracy $\pm 0.1\text{nm}$ Spectral System Single / Double Beam Data Storage and Access
3. Elementor CHNS-O (OIL and Core)	Multiple Operation Mode Standard Auto Sampler High Precision Gas Regulator Automated Weighing Upgradeability Risk free Device
4. Microwave Sample Digestive System	Filling Volume 25cc Temperature 100°C Pressure 100psi Number of Vessels 16
5. Orbisphere TC Sensor	Temperature Range 0-50°C Pressure 0-20 bar Accuracy $\pm 1\%$ Multiple Sensor System CO ₂ , N ₂ etc
6. Humidity Temperature Control Cabinet	Humidity Range 10 – 95 % Temperature -10 – 150°C Temperature Accuracy $\pm 0.5^\circ\text{C}$ Size-Volume 5 cu. ft.
7. Magnetic Stirrer	Digital Display Accuracy 98% Control Knob Varying Speed
8. Magnetic Stirrer with Hot Plate	Digital Display Temperature 100°C Control Knob Varying Speed Variable Size Magnetic Pellets Corrosion/Rusting Resistant Hot Plate
9. Hot Plate	Temperature 100°C

	Plates 1 / 2 Corrosion/Rusting Resistant Hot Plate
10. Dead Weight Tester	Pressure 10 1000psi Accuracy \pm 0.1 % Pressure Interval 1psi
11. pH Meter	pH Range 01 – 14 Accuracy 0.05 pH Temperature Compensation 0-60°C Power/Battery Backed Operation
12. Viscometer	6 Speed Component Spring Rotor Bob F ₁ R ₁ B ₁ Temperature Ambient
13. Auto Titrator	Automatic Mode Magnetic Stirrer 5 Buffer Calibration Results Variable Units Electrolyte KCL
14. Temperature Control Retort	Sample Capacity 50cc Temperature Range 0-500 Temperature Regulator
15. Flame Photometer	Manual / Auto Ignition Digital Display Analysis Range 0-100mg/L Accuracy \pm 1% Flame System LPG/Natural Gas Compressor with Pressure Regulator
16. Heater Cup	Temperature Ambient – 100°C Capacity 250cc Body type Corrosion/Rusting Resistant
17. Hydrometer Kit	Set of Varying Specific Gravity
18. Cup Mixer	Capacity 1L Varying Motor Speed
19. Constant Speed Mixer	Capacity 1L Pre-Set Speed 4000&12000rpm Variable Speed 20000rpm
20. Marsh Funnel Viscometer	Complete Set with Measuring Cups
21. Motorized Sieve Shaker	Digital Timer-Speed Display Motor Geared-Varying speed Nest of Sieve 10 Motion Directionally Controlled
22. 8" Dia Complete Sieve Set	Complete Sieve Set – US + BIS

23. Silverson Lab Mixer	Capacity 5L Motor Speed 1000rpm Variable Full Load Speed 5000rpm
24. Traceable Calibration Weights	Set of Varying Weights
25. Pressurized Mud Balance	Density Display Variable Units
26. Circulation Water Bath	Temperature 100°C Capacity 100L Temperature Accuracy 0.5°C Corrosion / Rust Proof Interior and Exterior
27. Dry Bath	Temperature Ambient – 100°C Accuracy ±1°C Digital Display Varying Heating Blocks Corrosion / Rust Proof Interior and Exterior
28. Water Analysis Kit	Capacity to analyze maximum physic-chemical parameters
29. Benchtop Meter	Portable Water Analysis Kit
30. Top Loading Balance	Capacity 2000g Readability 0.1g Accuracy ± 0.01%
31. High Precision Digital Balance	Pan Dia 5" Capacity 1000g Readability 0.001g Accuracy 0.01%
32. Lab Oven	Double Walled System Temperature Ambient – 250°C Digital Thermostat Size 600mm x 600mm x 600mm
33. Air Compressor	Flow Rate 50L/Min Delivery Pressure 100psdi Sound Level <40db / Silent Dew Point 0°C Digital Display Automated Standby
34. Laboratory Mortar Grinder	Feed Size 08mm Output 10 – 20µm Speed 100rpm Feed Quantity 150cc
35. Laboratory Refrigerator	Varying Thermal Chambers

36. Laboratory Deep Freezer	Varying Thermal Control Automatic Alarm System Digital Temperature Display CFC/HCFC Free Refrigerants Corrosion-Rust Free Exterior and Interior
37. Ice Flaker	Varying Thermal Chambers Varying Temperature Control Automatic Alarm System Digital Temperature Display CFC/HCFC Free Refrigerants Corrosion-Rust Free Exterior and Interior
38. Magnetic Separator	Production Start Time 05 – 10Min Collecting Bin Capacity 10kg CFC/HCFC Free Refrigerants Corrosion-Rust Free Exterior and Interior
38. Magnetic Separator	High Magnetic Strength Complete Operating Assembly

6. Price Format

6.1 The Supplier shall have to provide a Price quotation as per the format given below:

(For Indian Suppliers)

Supplier's Name: _____
Quotation no: _____ Validity of Quotation: _____
Gross weight of the consignment (In KG): _____
Dimension (L X B X H) of each package and number of packages: _____

Sr. No.	Item Description	Qty	Unit price (In Rs.)	Total price (Unit price x Qty)
1.				
2.	TOTAL PRICE OF ALL THE EQUIPMENTS			
3.	Duties, taxes (please elaborate on applicable taxes and duties including excise separately here)			
4.	TOTAL LANDED PRICE AT GERMI OFFICE (PLEASE REFER NOTES BELOW)			

Notes:

1. Indian Supplier must furnish prices of each items and components separately.
2. Total Landed Price should be inclusive of all direct and indirect costs till installation at GERMI premise including duties, levies, insurance, freight, installation & commissioning charges, TPI charges from any of the agencies, costs of training GERMI's Representatives. GERMI shall not make any payment over and above Total Landed Price.
3. It is also mandatory to enlist all taxes and duties as applicable on date of submission of quotation.
4. Sales tax should be quoted without Form 'C'. GERMI will not issue Form 'C' to the Indian Supplier.

(For Foreign Suppliers)

Supplier's Name: _____
 Country of Origin: _____ Airport of Export: _____
 Quotation no: _____ Validity of quotation: _____
 Gross weight of the consignment (In KG): _____
 Dimension (L X B X H) of each package and number of packages: _____

Sr. No.	Item Description	Qty	Unit price (In USD)	Total price (Unit price x Qty)
1.				
2.	GROSS TOTAL PRICE OF ALL THE EQUIPMENTS			
3.	Add: Customs Duty			
4.	Total Landed Price at GERMI premise (Please see notes below)			
5.	Air Freight (upto Mumbai/Ahmedabad Airport)			
6.	Insurance charges			
7.	Installation and Commissioning Charges			
8.	Charges for training GERMI employees, if any			
9.	Any other charges, if any			
10.	TOTAL LANDED PRICE AT GERMI OFFICE			

Note:

1. Supplier must indicate the currency in which prices are quoted.
2. Foreign Supplier must indicate the gross weight of the consignment along with the number and dimensions of the package(s).
3. Total Landed Price quoted should be inclusive of all direct and indirect costs till installation at GERMI premise including duties, levies, insurance, freight, installation & commissioning charges, TPI charges from any of the agencies, costs of training GERMI's Representatives. GERMI shall not make any payment over and above Total Landed Price.
4. It is also mandatory to enlist all taxes and duties as applicable on date of submission of bid.
5. Supplier will submit the AMC charges as applicable. Charges must be quoted on year wise.