

GOVT. COLLEGE OF ENGINEERING & TECHNOLOGY, BIKANER**SCHEDULE - G**

NIT NO. :-CET/STORE/2014-15/05

Tender for :- Material Science & Engg. Lab
for Mech. Engg. Dept.

Sale of Tender :- Up to 12 Noon 15.4.2015

Last date of Tender Submission:-2.00 PM, 15.4.2015

Opening Date of Tender:- 2.00PM, 16.4.2015

Bid Validity: 90 days from bid opening date

Estimated Cost:- Rs. 708000/-

Earnest Money:-Rs. 14160/-

Tender Cost:- Rs. 200/- (By Hand)

Tender Cost:- Rs. 240/- (By Post) (D.D.)

Delivery period:- 45 Days from order

| S. No. | Name of Equipment | Specifications | Quantity | Rate |
|--------|---|---|----------|------|
| 1. | High Temp Tube Furnace with Cryostat circulating bath | <p>Maximum Temp.: 1400° C / 1650°C Working Temp.: 1600° C Temp. Accuracy: ±1° C</p> <p>Heating Elements: Molybdenum Disilicide (MoSi₂) heating elements or equivalent</p> <p>Inner Chamber: Ceramic Refractory</p> <p>Insulation : Ultra high purity alumina low thermal mass insulation.</p> <p>Body : Made of mild steel duly Powder Coated</p> <p>Tube Material : High Purity Alumina Tube Size : Inner Dia. =40-50 mm Zone length =100-200 mm/Overall length=500mm</p> <p>Soft start facility and step down Air Cooled Transformer.</p> <p>Gas Purging: couplers with cooling attachment for purging of gases.</p> <p>Temp. control: Microprocessor based PID digital programmable controller, dual display of set & actual Temp. with soft touch keys. With thermocouple break protection & cold junction compensation. CE mark to meet EMC regulations.</p> <p>Sensor : Pt-Pt/Rh</p> <p>With safety like: High speed semiconductor safety fuse for over load protection. Automatic tripping Over current and short</p> <p>Circuit Protection: High Temp. alarm Control panel : Separate Control Panel with all Electrical Accessories, can be placed On the side or bottom of the furnace.</p> | 1 | |

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|---|---------------------------------------|--|--------------------------|--|
| | | Power Supply : 415 volts, three phase AC supply. <u>CRYOSTAT CIRCULATING BATH :-</u> Bath volume (Lt.) :- 5-10 Lt. Temp. Set Range:- (-)10°C to 30°C With accuracy ±0.2°C Controller-PID Microprocessor Controller Insulation-Polyurethane foam/equivalent Pump-Capacity / Height - 5-10 Lt. / min Safety-Over Current fuse / Over Temp. cut off Refrigerant-CFC Free | | |
| 2 | Ball mill | For mixing and grinding electrically operated having capacity from up to 1-5 Kg fitted with ½ HP Motor Gear unit drive with the minimum 80 RPM. The jar is made of mild steel and having mild Steel balls of dia 15-25 mm . To operate on 220 volts 50cy Ac only. | 1 | |
| 3 | HYDRAULIC PRESS (HAND OPERATED): - | Compact Laboratory Hydraulic Press Capable of Producing force about, 10 Ton, Hand-Operated for Die Pellet with Pressure guage, and lever without Die. With 05 set of die and plunger between 5 to 20 mm range. | 1 | |
| 4 | Ferric chloride reagent | | 05 Lit | |
| 5 | Hydrochloric acid | | 01 Lit | |
| 6 | Methanol | | 01 Lit | |
| 6 | Sample polishing machine with drier | Motor- 0.75kW to 01 kW 2 wheels with guards Wheel size- 8 to 12 inches Water inlet & outlet facility with flexible tap Speed of wheels -50 to 500 rpm in both directions Drier temperature range-30 to 70° C With Emery paper set of 10 pieces of each of grade 40,80,150,240,600 | 01 | |
| 7 | Emery papers | Grade 40,80,150,240,600 | 100 pieces of Each grade | |

Terms and conditions:-

- All page of tender should be signed and stamped.
- STCC is required. Party may be asked for the sample/demo.
- Tenderer must be manufacturer / Authorized Dealer/ Supplier having authorization of quoted item.
- Mention basic rate of items & taxes if any separately for each item..
- Rate includes loading & Unloading at concerned lab./ workshop & FOR College of Engineering & Technology, Bikaner
- Successful firm has to submit agreement on stamp paper of Rs. 500 (Form 17) along with SD money @ 5% of order value before issue of order.
- Committee has right to cancel tender of all or any item.
- Tender will be finalized item wise.
- In case of any clarification same can be clarify from store.
- Without EMD tender will be rejected out rightly.
- EMD and form charges should be in favor of Principal College of Engineering & Technology, Bikaner in shape of DD/Banker Cheque only.
- Order will be given in installment as or when required.
- Conditional Tender will not be accepted.
- SSI unit EMD & Tender cost assumption should be as per Raj. Govt. rule

HOD STORE