



# Government College of Engineering

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No. GECA/Physics/2018-19/3696

Date 03.11.2018

To,

GECA Website / GECA Noticeboard

## Subject :- Invitation for Quotations for supply of following Items for Physics Dept.

Dear Sir,

You are requested to send your competitive quotations for the supply of the following items subject to the following conditions.

### CONDITIONS:

- 1 Rates quoted should be FOR AURANGABAD or free delivery at the Institute inclusive of all lead and Lift.
- 2 Detailed specifications of the articles you intend to supply should be given. If not according to the specification, laid down here under.
3. The material should be supplied within ( 04) weeks from the date of order. List of material is given below.
4. The earliest deliver period should be quoted if you cannot supply within the period mentioned above.
5. Quotation should be in sealed cover and superscripted as **“Quotations” for Physics Department**  
Due on : 27-11-2018, at 5 P.M. on address Principal, Govt. College of Engineering, Aurangabad Station Road, Osmanpura, Aurangabad - 431005
6. Quotation should be valid for six month.
7. Quotation not complying with the above conditions and incomplete once will not be considered.
8. Right to reject any or all quotations rights are with the under signed.
9. Rates quoted must be inclusive of All applicable Taxes.
- 10 Installation & Demonstration of the machines/equipments will be carried out free of cost at our institute by the supplier
11. No advance shall be paid and No part payment shall be made.

| Sr. No. | Specification   | Approx Qty. | Remark |
|---------|---|-------------|--------|
| 01      | Curie Temperature Kit for Ferroelectrics - Make Standard<br>Apparatus should consist of –<br>• Main unit consisting of a) Digital voltmeter ( 0-9.99 V ac)<br>b) Audio oscillator ( 1KHz) & Electronic circuitry c) Standard Capacitors (nf)<br>• Dielectric cell consists of two 1" dia. gold plated brass discs fitted in between the Teflon cell holder.<br>• PZT sample(1No.) & Barium Titanate Sample (1No.)<br>• Hot Air Furnace : PID Controlled (RT – 225   | 02 Nos.     |        |
| 02      | Hysteresis Loop Tracer - Make Standard<br>Apparatus should consist of –<br>Display of magnetic field in gauss, Variable magnetic field, A good quality solenoid coil<br><i>Technical Specifications</i><br>Display – 3 <sup>1</sup> / <sub>2</sub> digit, Sample Type – Soft Iron, Nickle, Hard steel<br>Length – 39mm , Diamter – 1.17 mm,<br>Diameter of pickup coil – 3.21 mm, Mains supply – 230V ± 10%, 50 Hz,   | 02 Nos.     |        |
| 03      | Optics Bench with He-Ne Laser Source - Make Standard<br>Apparatus should consist of –<br>Optical bench - Material : Aluminium alloy, Type : Hexagonal section, Scale : 0-100cm, Least count : 1mm, Supplied with 4 fixed saddle.<br>He-Ne laser, Screen (30 x 30 cm), Diffraction slides<br>Slit holder, Glass scale, Slit (Blade), Measuring tape (3 m)<br>Clip, -10cm concave lens in holder, -5cm concave lens in holder, +10cm convex lens in holder, +20cm convex lens in holder, Prism table,<br>Cylindrical base | 01 Nos.     |        |

|    |  |         |  |
|----|--|---------|--|
| 04 | <p>10 MHz Modulation Function – Pulse Generator with Frequency Counter<br/>- Make Standard<br/>Apparatus should consist of –<br/>1 Hz – 10 MHz frequency in 7 steps,<br/>Sine, Square, Triangle, Ramp, Pulse and Serial Data outputs<br/>20 Vpp output and DC offset, 20x4 character LCD Display<br/>40 MHz External Frequency counter, TTL output, 50 <math>\Omega</math> impedance, AM Standard, AM Balance, FM, ASK, FSK &amp; PWM modulations<br/>60db attenuation, Rise &amp; Fall time <math>\leq</math> 50 ns, standard RS232 Interface<br/><i>Technical Specification –</i><br/>Operating Modes – Sine, Square, Triangle, Ramp, Pulse, TTL and serial data, Frequency Range – 1Hz – 10 MHz sine wave &amp; 1 Hz – 2MHz others, Frequency Accuracy - <math>\pm</math> 0.5%, Amplitude Display Accuracy <math>\pm</math> (5% + 1digit), Sine Wave Distortion – 1.0% (2 MHz), 2% (10 MHz) typical, Square Wave / Pulse <math>\leq</math> 50ns</p>   | 03 Nos. |  |
| 05 | <p>Spectrometer - Make Standard<br/>Apparatus should consist of –<br/>A heavy, Sturdy base fitted with leveling screws and carries the fixed collimator arm and a swinging Telescope arm. Adjustment to the collimator and telescope tubes are provided for setting their optical axis at right angles to the vertical axis. Telescope and collimator are fitted with smooth rack and pinion adjustment.<br/>Slit of the collimator is from stainless steel and the slit jaws are finished and ground and optically tested for accuracy of the edges. A sliding shutter is provided to increase or decrease the width of slit. Custom prism table with grating holder is provided with three leveling screws, Spectrometer is with stainless steel scale 6" with vernier reading to 30 seconds. The scale circle is provided with slow and quick tangential movements being fixed to the telescope.<br/>Two verniers are provided reading to <math>\frac{1}{2}</math> minute or 30 seconds. The objectives are 1" clear aperture with 10X RAMSDEN Eye Piece fitted with cross line</p> | 04 Nos. |  |

Yours faithfully

*H. Reia*

Head of the Dept. Physics  
Govt. College of Engineering  
Aurangabad