



INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG
DEPARTMENT OF PHYSICS

No.IGIT/PHY/43

Date: 31/01/2019

CALL FOR QUOTATION

Sealed quotations are invited for the equipments mentioned in Annexure-I on or before Dt. 14.02.2019. Quotation number and date should be superscripted on the sealed envelope and sent by Registered Post / Speed Post/Courier to HEAD, DEPARTMENT OF PHYSICS, INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG-759146, DIST: DHENKANAL, ODISHA, INDIA.

Quotations received after the due date, or without seal shall not be considered. The items will have to be delivered within 15 days from the date of placing order unless otherwise directed failing which the purchase order is liable to be cancelled.

The terms of delivery along with any extra charges e.g GST etc. & mode of payment should be indicated clearly in the quotation.

QUOTATION OPENING DATE & TIME: Dt. 14.02.2019 (4.30 PM).

YOURS FAITHFULLY

31.01.19

HOD

Professor & Head

Dept. of

I.G.I.T Sarang

759146



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TERMS AND CONDITIONS

1. The materials should be delivered to the principal, Indira Gandhi Institute of Technology Sarang F.O.R destination Ex- Go down as per terms within 15 days of issue of this order.
2. The materials are to be carefully packed and insured against breakage / pilferage and losses during transit.
3. Rate as per your quotation/ as per manufacturers price list should be furnished with usual discount admissible to the educational institution / dispensaries.
4. Inspection of goods before delivery shall be allowed to our representative, if allowed.
5. Defective supplies will be rejected and returned at the cost of suppliers.
6. The supplier to withstand guarantee for a period of one year against all manufacturing defects and during the guarantee period, all the repair / replacements will be done at their cost.
7. Payment will be made by crossed cheque / Bank draft on state Bank of India, IGIT Sarang. Full payment will be made on receipt of materials in good condition & after successful installation.
8. No advance will be paid for the above supply.
9. Bill prepared in triplicate named Principal, IGIT Sarang should be submitted to the Principal, attention to HEAD, DEPARTMENT OF PHYSICS, IGIT, SARANG.
10. Any legal disputes pertaining to the purchase order will be subjected to jurisdiction of concerned courts within the state of ODISHA.
11. All correspondences arising out of this order should be addressed to the Principal IGIT , SARANG attention to HEAD, DEPARTMENT OF PHYSICS, IGIT, SARANG noting the number and date of order.
12. Valid up to date GST/VAT clearance certificate be submitted alone with the bill / acceptance of the order.
13. The firm should furnish PAN / IT copy of the firm.
14. Copy of the service tax certificate may be produced, if order is accepted.

| Sl No | Name of the Experiment | Make & Model | Specifications | Remark |
|-------|---------------------------------------|-----------------|---|---|
| 1 | Four Probe Apparatus | INDOSAW SK-012 | <p>FOUR PROBE EXPERIMENTAL SETUP Voltmeter Display : 3½ digit, 7segment LED, auto polarity & decimal indication, Voltage Range : X1 (0-200.0mV DC) & X10 (0- 2.00 V DC), 4mm socket, Current Display : 3½ digit, 7segment LED, Current Range : 0-20mA DC, 4mm socket Oven Supply : 45V AC (Switch position LOW), 60V AC (Switch position HIGH) Oven Connector : 5 Pin, DIN type, Input Voltage : 220V, 50Hz AC, Fuse : 1A, 250 V OVEN Heating Element: 35 ohm, 75 Watt Oven Supply : 45V/60V AC Oven Connector: 5 Pin, DIN type Ambient Temperature : 175° C, Fuse : 2A THERMOMETER Type: Mercury, Temperature Range: 0-200° C, Least Count: 1° C, Length: 300mm approx. FOUR PROBE ARRANGEMENT Four probe : Spring type, Probe Spacing : 25mm, Crystal : Ge Wafer, P type Crystal Size : 12 x14 x 0.5mm (LxWxThickness), Resistivity : 1~ 10 ohm-cm, Orientation: <100> Connection : 4mm safety socket</p> | <p>N.B.:</p> <ul style="list-style-type: none"> • Please furnish the PAN/GST/IT clearance Certificate. • Please indicate clearly following information. <p>F.O.R- IGIT, SARANG with all charges included, Guarantee period, Free service period at IGIT, Sarang. Payment shall be made after successful installation.</p> |
| 2 | Photo diode characteristics apparatus | INDOSAW SK060 | <p>Optical Bench- Aluminium alloy Small Type, DC SUPPLY : 0-16V, 5V/1A, DC Current : 5 Amp Display: Two separate displays (3 digits LED) for output voltage and load current continuously. RESISTANCE MODULE-Resistance : 10 Ohm, Wattage : 10W , Connection : 4mm safety socket PHOTO DETECTOR-Detector : Silicon photocell, Terminals : 4mm, Aperture : 1 mm, Rod : 10 mm diameter</p> | |
| 3 | Solar cell characteristics apparatus | INDOSAW SA-027 | <p>Circuit board, Decade resistance box, 3 3/4 Digital multimeter with 10A ,Flexible lead set (50cm), lamp source, Solar module, Power supply, Cylindrical base, Instruction manual</p> | |
| 4 | Stefan's constant kit | INDOSAW SW-1128 | <p>Stefan's constant radiation apparatus on stand with black and silver disc. Cu-cn-cu thermocouple on a rigid & insulated board with two junctions in cotton wool. Oil bath with mustard oil, capacity 100 ml. Fuel for spirit lamp 2 x 100 ml with stand, Cotton wool in a cylindrical copper enclosure on the stand for junctions of cu-cn thermocouple. Water bath copper. Super sensitive micrometer as galvanometer fixed on board. Steam boiler 2 litre. Capacity with plastic tubing with pinch cock. Hot plate thermostatic controlled single phase (8"). Two mercury thermometer 110 ' C for black body appt. One mercury thermometer 360 ' C for oil both. One 250 ml glass beaker one plastic tunnel. Two spiral connecting wires with connectors. One operating instructions manual file.</p> | |
| 5 | BH Curve Apparatus | INDOSAW SK-1010 | <p>B-H Curve Cum Hysteresis loos Set up with Data Logger Input channels : 2, 100MmHz Input channels resolution : 12 bit ADC @ 100 ksps, Analog input:0-5 V,</p> | |

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|---|---|-----------------|--|
| | | | <p>Output channels : 12 bit DAC, Analog output : ± 12 V max 10 Current booster : Upto 1 A, Power Connector : 3PIN DIN, Communication: USB</p> <p>BH CURVE POWER SUPPLY UNIT Specifications: 0-10V AC,Frequency-5-500Hz, Connector BNC & 4 mm Socket, Power Supply Input Voltage : 220V, 50Hz AC Power Supply output Voltage : ± 12 V, 3PIN DIN</p> <p>ELECTROMAGNET Coils:300,Wire:19SWG, Cu., Connection: 4mm safety socket. U Core:150x130mm(LxH),40x40mm cross section. I Core: 150mm (L),40x40mm cross section. Point Pin: Length=90mm,Core material: Ferromagnetic turns.</p> |
| 6 | Babinet Compensator | INDOSAW SW-1138 | Babinet Compensator, White Light Source (Lamp), Quarter wave plate, Polariser ,Analyser, Eye piece, Sodium light (optional) |
| 7 | Dielectric Constant of Solid (For Different Dielectric Materials) | INDOSAW SK-042 | <p>HIGH VOLTAGE POWER SUPPLY Input Voltage : 220V, $\pm 5\%$, 50Hz AC, Output Voltage : 0-600V DC, Voltage Resolution : 10V Voltage Display : Analog, Short Circuit Current : 100μ Amp POWER SUPPLY 2-12V AC/DC Input Voltage : 220V, $\pm 5\%$, 50Hz AC, Output Voltage : 2,3,4,5,6,8,10 and 12 V AC full wave rectified, unsmoothed and unregulated D.C. Overload protection : Resettable thermal trip</p> <p>DIELECTRIC CONSTANT KIT A Metal Rail : Metal sheet, L=350mm approx., B Capacitor plate : Aluminium, 20cm x 20cm (LxW), C Capacitor plate : Aluminium,28cm x 28cm (LxW),D Glass sheet : 21cm x 21cm (LxW) E Polystyrene sheet : 21cm x 21cm (LxW),F Two way switch : 4mm socket, 3 nos. G Capacitor : 0.01μF & 0.001μF,H Spacer : PVC (1,2,3,4,6 mm)</p> <p>ELECTROMETER AMPLIFIER Input Impedance : >10 ohm, Input Current : < 0.5pA, Output Voltage : upto +10V,Output Current : 5mA (Short Circuit Protected), Output impedance : <1ohm, Supply Voltage : 12 V AC</p> <p>DIGITAL MULTIMETER Resistance Range : 200 ohms, 2000 ohms, 20k, 200k & 2000k ohms1. D.C. Voltage : 200 & 2000 Milli volts : 20, 200 & 1000 volts A.C. Voltage: 200 & 750 volts. D.C. Current : 200, 2000 micro ampere : 20 & 200 milli ampere</p> |
| 8 | Viscosity measurement setup | INDOSAW SW-1116 | Constant water level reservoir can be adjusted on MS chrome plated rod on tripod stand, Rubber tube of length 1mtr, Stopwatch, Thermometer Pinch cock, Graduated cylinder 100ml,Manometer on wooden Stand Glass capillary tube of length 38cm on stand |