



UNIVERSITY DEPARTMENT OF PHYSICS
RANCHI UNIVERSITY, RANCHI

Phone : +919431586302(P)

Basic and Applied Sciences Campus
Morabadi
RANCHI – 834 008
Jharkhand, India
E-mail :
physics@ranchiuniversity.ac.in

Ref. No.: Phys./P.G./-----

SHORT TENDER NOTICE

Quotations in sealed envelopes are invited from reputed suppliers/vendors for the supply of the following equipments adhering strictly to the specifications appended as **ANNEXURE-I**. The quotations may be submitted personally to the office of or by registered post to,
The Head, University Department of Physics, Ranchi University, Ranchi-834 008, Jharkhand
on or before 15th December 2016 till 4.00 pm.

List of Equipments:

1. Millikan's Oil Drop Experiment Set Up
2. Customized Electronic Bread Board Kit with on-board and in-built devices
3. Measurement of e/m set up using Magnetron Bulb Method
4. Digital Multimeter

Term and Conditions:

1. Only such quotations will be considered which fully comply to the specifications of the equipment(s) as in ANNEXURE-I. The quotations not meeting these requirements fully shall be rejected or shall not be considered.
2. The price quotes in Indian Rupees must include relevant taxes, duties, transportation cost (if any) and other such charge(s) as may be applicable to the item(s) quoted for. The purchaser will not be liable to any extra cost except as quoted in the quotations.
3. Evidence of sales tax registration, income tax clearance and other relevant papers must be enclosed with the quotations. Those participants, enclosing evidence of supply of these items to other reputed Educational Institutions/Govt. agencies and having authorization from the manufacturer(s), shall be preferred.
4. The undersigned reserves the right to terminate/cancel the purchases fully or partially without assigning any reason.
5. Warranty of the item(s) for at least one year or more after installation is desirable.
6. Payment to successful bidder(s) will be made after the installation and satisfactory functioning of the equipment(s) through a/c payee cheque(s) only.

Head
University Department of physics
Ranchi University, Ranchi

ANNEXURE –I

Technical Specifications

1. Millikan's Oil Drop Experiment

//Oil drop chamber mounted with attached oil sprayer and atomizer, illuminating device to illuminate the space between the electrodes appropriately, a powerful microscope with CCD camera head to view and transmit the image of oil droplets between the electrodes to the attached monitor, a power pack to supply continuously varying voltage in the range 0 – 800 volt, digital meter and time meter, timing device.//

2. Customized Electronic Bread Board Kit

//On board bread boards(at least two nos.), built-in dc regulated power supplies (i) 0- 30V variable 1 A, Fixed +5V and + -15V; Built-in ac source 0- 10 -15- 20- 30 V; seven segment display – 02 nos. with BCD 7 Segment decoder; 2 nos digital voltmeter, 2 nos ammeter; Logic switches – 12 nos.; logic indicators 12 nos.; potentiometers and fixed clocks, 1 Hz, 10 Hz, 100 Hz, 1kHz, 10kHz, 100kHz; Logic pulser, Built-in Function Generator with frequency counter sin, square, triangular, TTL , output frequency: 1 Hz – 1MHz.//

3. e/m Measurement Set Up using Magnetron Bulb

//Magnetron bulb with additional circuits, appropriate power supply units, ammeters, voltmeters and other measuring units.//

4. Digital Multimeters

//3-1/2 Digits display, LCD, AC Voltage, DC Voltage, AC Current, DC Current, Resistance, Diode, Transistor and Continuity Test. 500V DC/AC Protection in Resistance, Diode and Continuity Test //

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