



## TRIVENIDEVI BHALOTIA COLLEGE

(Govt. Sponsored)

Post: Raniganj, Dist.: Paschim Bardhaman, Pin- 713347

ESTD - 1957

Ref. No.:

Date: 07/07/2022

### TENDER NOTICE

This is an open circulation on behalf of Department of Physics, T.D.B College, Raniganj seeking competitive quotations from potential companies/ agencies to supply the following Laboratory equipment/ materials mentioned in the list as below:

Sl. No.	Name of The Apparatus/Materials with description	Make	Remarks
1	<p>Travelling microscope. TRAVELING MICROSCOPE. DELUX MODEL The bed is of cast iron &amp; accurately machined. The horizontal carriage is machined and interground on the guide ways of horizontal bed. The carriage is fitted with vertical brass pillar carrying a microscope tube on a ground fitted vertical carriage. The base is fitted with two leveling screws. Horizontal scale is 20 cms and vertical scale is 16 cms long. Both the horizontal scale &amp; vertical carriages are provided with slow motions which travels approximately 3 cms in one traverse. Microscope tube is provided with rack &amp; pinion. A milky white Perspex sheet is provided on the horizontal bed. Venire constant 0.001 cms. Complete with Stain less steel or brass scale in a polished wooden box.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
2	<p>Jourin's law apparatus. a. Surface Tension by capillary rise apparatus The apparatus consists of a glass beaker with adjustable heights with slow moving arrangement fitted on a haevy metal base. One glass plate with frame can be clamped at desired height - complete with 100pcs capillary tubes of 5" length &amp; different bore and one stainless steel index rod. b. Spirit Level c. Travelling Microscope, (Vertical &amp; Horizontal) s.s scale d. Sp.Gr.Bottle (Borosil) e. Capillary tube 100 pcs. f. Copper sulphate</p>	INCO/SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
3	<p>Spring constant measurement apparatus. a. Spiral spring about 25 mm dia &amp; 10 cm long. The upper end of the spring is suspended from a chucknut &amp; the lower end is provided with a pointer which moves over a vertical meter scale. The lower end is also provided with a hook for carrying weights. Total set up is is provided with a heavy metal base. Supplied with 50gm x 5 iron C.P.weight set</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply



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4	<p>Moment of inertia of flywheel FLYWHEEL . High precision quality. More than 60 turns with 50 gm weights, 120 turns with 100 gm weights</p> <p>Comprising of carefully machined and balanced cast iron wheel of about 20 cm in dia and 4.4cm thick, and steel spindle supported on the ball bearings in strong iron brackets. The sides of the wheel are red or grey painted. The top of wheel is chrome plated and is marked with a thick red line. A pointer is fixed to one of the brackets.</p> <p>Diametric hole is drilled in the shaft to take a pin and cord. The base is provided with four holes so that the apparatus can be fixed on a wall, complete with cord and hook.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	<p>Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply</p>	
5	Castrol Oil 500 ml	Good quality		
6	Screw gauge 0.5 mm pitch	Good quality		
7	Slide calipers 0.1 cm division (steel) -12cm	Good quality		
8A	Digital balance. 0.001 gm to 200 gm	K.Roy / WENSOR		
8B	Digital balance. 0.1 gm to 3 Kg	K.Roy / WENSOR		
9	Tuning fork box. Set of 8. Accurate. Heavy duty	RAGG		
10	Beaker borosil 500ml	Borosilicate		
11	<p>Stop Watch. 1/100th Sec. 6 digits LED display Microcontroller based high precision 6 digits digital stop watch. Displays Minutes, Seconds, 1/100th Second. Operates on mains. Start / Stop / Fly Back action. Total time display : 99 mins 59.99 Sec</p>	CASIO/ DETECH/ CITIZEN		
12	<p>Young Modulus by Method of Flexure set Up The set up is complete with :</p> <p>Flexure of beam apparatus. Two heavy metal stands with levelling arrangements and steel knife edges - one stirrup with steel knife edge, pointer and pan ( or hanger) - complete with 110 cms. steel bar of unequal sides cross - section</p> <p>5 no.of slotted weight of 0.5 Kg with hanger Spirit level 2.5"</p> <p>1 Meter scale. Wooden Slide calipers (SS. Imported) Screw gauge Traveling microscope of V.C. 0.001 cm</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC		Detailed working manual needed



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13	Moment of inertia of the suspension wire set up. Heavy metal base with leveling arrangements - two 3 ft long metal rods are fitted vertically on it - one horizontal bar with a 3 Jaw chuck fitted at the top from which the inertia table is suspended - the inertia table consists of a heavy aluminum disc of 150 mm. dia. with circular concentric groove with the circumference - three masses are put on the groove for balancing - this inertia table is also provided with one 3 Jaw chuck over a cross piece	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Detailed working manual needed
14	Rigidity of modulus by dynamical method set up Modulus of Rigidity Apparatus. Dynamic Method. Stand type. All Metal -two vertical rods of 4ft length stands on a metal base - one 3 jaw chuck is fitted on a heavy cylinder - this cylinder is suspended vertically by the experimental wire - complete with circular scale & pointer of the cylinder.	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Detailed working manual needed
15	Stokes Law Verification Apparatus. Made from Borosilicate glass & wooden frame with heavy metal base. With castor oil, Iron balls of different diameter, ball lifting arrangement.	Good quality	-
<b>ELECTRICAL LAB</b>			
16	Training Boards for Different Types of Theorems Verifications. Verification of Thevenin, Norton and maximum power transfer theorems using a resistive whetstone bridge network, DC Power supply source, 2 nos Digital Meters, circuit arrangement, detailed manual etc.	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Detailed working manual & video needed
17	DC Power Supply 2V 1A	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	-
18	Cotton Coated wire for connection. 500 gm	Good quality	
19	Plastic coated wire for connection -1 coil (21 gauge) 90 meter	Good quality	
20	Andersen bridge a.To measure the self - inductance of two coils by Anderson Bridge to find the total inductance of two coils connected in series & hence to estimate the co-efficient of coupling between the coils. b.To study the variation of variation of inductance of two coils in series with angle between there planes by Anderson Bridge. Complete with Anderson Bridge full set up with three non inductive resistances of 1000 ohms. A variable non inductive resistance in the form of three decades of 10x1, 10x10, 10x100 ohms. This resistance also includes the resistance of self inductance L which is also connected in the same arm. A non inductance variable resistance of three decades of 10x10, 10x100, 10x1000 ohms & standard capacitance in the form of four values of 0.005, 0.01, 0.02,0.05 mfd selected by a selector switch. Complete with Digital null detector, 1 KHz Sine wave Audio Oscillator with variable amplitude.	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
21	Ballistic galvanometer. Made from Phosphor Bronze ligament imported from Germany Coil resistance: 100 ohms Time period : 12 Sec Sensitivity : 300 mm per micro coulomb at 1M	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	



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22	Phols commutator. On bakalite base with heavy parts.	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	
23	Micro Ammeter range (0-500micro A). Digital	DETECH/ SES	
24	Milliammeter(0-500 mili A) Digital	DETECH/SES	
25	4 terminal Low Resistance. Manganin coils.	DETECH/SES	
26	Fractional resistance box 0.1Ω to 10Ω Manganin coils.	SET & DE/ INCO/ SES/ DETECH/ OSAW	
27	Table galvanometer. 30-0-30 1micro / div	SETT & DE/ INCO/ SES/ DETECH/ OSAW	
28	One way switch (single key)	Good quality	
29	Charge and discharge key with Null position. Three separate position for charge, discharge and neutral position. On heavy bakelite base. All heavy brass components.	SETT & DE/ INCO/ SES/ DETECH	
30	Capacitor box with difference key (0.1 -1 micro F)	Good quality	
31	Resistance Box(0-10000) Manganin coils.	SETT & DE/ INCO/ SES/ DETECH	
32	Potentiometer. Heavy type. Frame made of heavy MS pipes. Powder coated. Top: 18mm branded ply with all side white sunmica. Waterproof. Heavy brass jockey.	SETT & DE/ INCO/ SES/ DETECH	
33	Carry foster Bridge. Heavy type. Brass & Cu Parts. All heavy duty. Frame made of heavy MS pipes. Powder coated. Top: 18mm branded ply with all side white sunmica. Waterproof. Heavy brass jockey.	SETT & DE/ INCO/ SES/ DETECH	
34	Sliding Rheostat( 500 ohm)1A Heavy duty. Sturdy construction. Phosphor -bronze sliding contacts. Superior quality oxidized Eureka wires are used.	SETT & DE/ INCO/ SES/ DETECH	
34A	Sliding Rheostat( 50 ohm)5A Heavy duty. Sturdy construction. Phosphor -bronze sliding contacts. Superior quality oxidized Eureka wires are used.	SETT & DE/ INCO/ SES/ DETECH	
<b>Electronics Laboratory</b>			
27	IC Regulated Battery Eliminator (Stabilized)2/4/6/8/10/12V 1A	SETT & DE/ INCO/ SES/ DETECH	-
28	PN junction trainer kit Complete with Power supply & 2 nos digital meters. Detailed manual & working video.	SETT & DE/ INCO/ SES/ DETECH/ scientific	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply



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29	Zener diode and load regulation. Complete with Power supply & 2 nos digital meters. Detailed manual & working video.	SETT & DE/ INCO/ SES/ DETECH/ scientific	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
30	BJT( SL-100) in CE and CB modes trainer kit. To draw the output characteristics of a transistor in CE configuration. Complete with 3 nos digital meters, DC Dual Power Supply, circuit arrangement, on board bread board, detailed manual etc.	SES/ INCO/ SCIENTECH/ DETECH/ scientific	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
31	Op-Amp trainer kit. OP-Amp. Complete set. Use of Op-Amp as inverting, non-inverting, differential Amplifier and as an adder etc. Trainer kit complete with +-12 V DC Power Supply, DC milli Volt sources, 741 Op-Amp, on board Bread Board, Digital voltmeter and detailed manual.	SETT & DE/ INCO/ SES/ DETECH/ scientific	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
32	Pot. Carbon. (100 ohm,1k, 2k, 5k, 10k, 20k)	-	-
33	Digital CRO 50 MHz. 2 TRACE	RIGOL/ GWINSTEK/ APLAB/SES/ scientific	
34	R-C Coupled Amplifier apparatus Study of single stage Transistor Amplifier (Gain and frequency response) :- RC coupled Amplifier Trainer The single board trainer with in built I.C. regulated power supply helps to study of single stage CE Amplifier. The frequency response of the Amplifier. The effect of negative feedback on the performance of the amplifier. Bandwidth measurement The trainer consists of :i) IC regulated power supply, ii) Components on board, iii) 3 Nos digital meter iv) Signal Generatr complete set.	SES/ INCO/ SCIENTECH/ DETECH/ scientific	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
35	Digital Multimeter. CHY21 with LCRHz	CHY21	-
36	To design AND, OR, NOT and XOR gates using NAND gates.	-	-



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37	Design a combinational logic system for a specified Truth Table. Complete with with power supply, bread board & circuit arrangement	SES/ INCO/ SCIENTECH/ DETECH/ scientific	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
38	To convert a Boolean expression into logic circuit and design it using logic gate ICs. Panel board complete with IC - 7404 (NOT), 7408 (2-input AND) 7411 (3-input AND), 7432 (2-input OR) 7402 (2-input NOR), 7400 (2-input NAND), 7486 (2-input X-OR) Stabilized power supply - 5V dc voltmeter , (0-5V), LED light	SES/ INCO/ SCIENTECH/ DETECH/ scientific	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
39	Half Adder, Full Adder and 4-bit binary Adder. Complete with power supply & circuit arrangement	SES/ INCO/ SCIENTECH/ DETECH/ scientific	
40	Bread board	WISH	
<b>Wave and Optics Laboratory</b>			
41	Sodium vapour lamp	Philips / OSRAM / GE	
42	Transformer for Sodium vapour lamp 35W	Philips / OSRAM / GE/DETECH	
42A	Lamp house. Made from heavy MS round pipe with adjustable opening. Powder coated finish.	Philips / OSRAM / GE/DETECH	
43	He discharge tube set with Stand & High Voltage Power Supply & stand	Philips / OSRAM / GE/DETECH	
44	Ne discharge tube set with Stand & High Voltage Power Supply	Philips / OSRAM / GE/DETECH	
45	Mercury Vapour Lamp Set with lamp house & transformer	Philips / OSRAM / GE/DETECH	
46	Mercury discharge tube		
47	Double slit micrometer	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration
48	Law of Malus for plane polarized light. Malus Law Apparatus helps to understand polarization properties of light. It can also be used to study the light intensity relation of polarizer-analyzer. This apparatus comprises of a diode laser (as a light source), a polarizer, an analyzer assembly and a pinhole photo detector with output measurement unit.	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	



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			to be done at dept. at the time of supply
49	Single slit diffraction setup. Determination of the width of a single slit by Fraunhofer diffraction method Complete with : Spectrometer 7" circle 20 Sec VC Delux model. Single slit Na Lamp Lamp House Transformer for Na lamp Reading telescope. Delux model with scale Spirit level	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
50	Laser diffraction setup Complete with: LASER diode with power supply LASER detector Diffraction grating Optical bench Other accessories	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
51	Polari meter set with Na lamp, Transformer, lamp house	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	
52	Grating Stand	-	
53	Diffraction Grating . Imported	Hilger & watts	
54	High Refractive Index Prism. DEDF. For Spectrometer work. Made from Extra Dense Flint Glass. RI - 1.7	PRINCE/ DETECH	
55	Spectrometer Cross Wire		
56	Newton's ring apparatus. Complete with Two Motion Newton`s ring Microscope, Set of Newton`s ring lens with mounting & adjustment arrangement. One Plano-convex lens and one optically true parallel glass plate are put together inside a brass cup with screw cap arrangement and is fitted with leveling screws -one glass plate with arrangement to incline is fitted on the same cup- supplied with one lens fitted in metal frame and base with leveling screws for parallel rays form the source.	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply



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57	<p>Research Spectrometer. 7" 30Sec. Double Vernier. High Grade Spectrometer. 7" circle. 30 Sec Vernier with slit &amp; micrometer scale. Stainless steel scale. The achromatic objectives used in the telescope &amp; the colorimeter are of very superior quality. The scales and verniers are automatic machine divided. Cover plate is provided to protect the scale and vernier from dust and carries two transparent windows for verniers. Complete with prism clamping device &amp; diffraction grating stand. Provided with vertical adjusting screws to both the colorimeter &amp; Telescope. Clamping devices are provided to lock the colorimeter &amp; Telescope after adjustment.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	-
58	<p>Cathetometer. 50 cm long. It can be used in horizontal or vertical positions and is provided with heavy levelling screws. The asuare bar of gun metal is graduated in half degrees and is read by vernier. Vernier conatant 0.01 mm. The brass rod rotates on centres &amp; can be clamped at any desired place. The carriage of the telescope is of gun metal and further provided with a substage which is moved by fine pitch screw for giving final adjustment to the telescope. Focussing is provided by rack &amp; pinion.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	-
<b>Quantum Physics Laboratory</b>			
59	<p>Measurement of Planck's constant using black body radiation and photo detector. APPARATUS: Selenium photocell used as photodetector duly mounted A commercially available tungsten filament incandescent light bulb rated at 60W,220V</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the
	<p>High precision different coloured optical filters(Blue, Green, Yellow) Aperture / Intensity control to modulate power density incident on the detector An AC voltage regulator to control input intensity of light bulb Digital AC ammeter(0-2000mA) to measure current &amp; AC voltmeter(0-200V) to measure voltage of the bulb DC microammeter (0-20<math>\mu</math>A/0-200<math>\mu</math>A) to measure current through the photocell Black box containing intensity control, filter holder &amp; output detector.</p>	-	time of supply
60	<p>To determine Planck's constant using LED for different colours. Complete with power supply, Digital meters, 5 different colour LEDs, circuit arrangement.</p>	INCO/ SES/ DETECH/	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply





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61	<p>Photo electric effect set up photocurrent vs intensity and wavelength of light. Measurement of Photo electric effect using photo valve. Complete with: Photo valve mounted in box, fitted with high intensity light with illumination control and provided with an AC ammeter to measure current variation of the light source. Set up is complete with DC regulated power supply, 04 different colours of high quality optical filters for wavelength variation, digital microammeter, digital millivoltmeter to measure photocurrent and applied voltage and provision for distance variation of the phototube from the light source. Set of high quality optical filters - set of 04 different colors Black box with scale - arrangement to adjust distance of phototube. Digital Lux Meter with mounting arrangement to measure intensity of light source at different distance</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
62	<p>To determine work function of material of filament of directly heated vacuum diode. Complete with digital meters, valve diode, circuit arrangement, manual.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
63	<p>To determine the ionisation potential using mercury( Frank Hartz experiment) Ionization Potential of Mercury - To draw V-I Characteristics of Thyatron valve and to drive Ionization Potential of DC Power Supply 0-3 VDC/50mA &amp; AC 6.3V 0 to 25V 500mA, two meters for voltage &amp; current measurement, valve diagram is Printed on Front panel, connections of Supplies &amp; Valve brought terminals.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
64	<p>e/m by Cathode Ray Tube &amp; Bar Magnet. Set Up for Determination of e/m by using a Cathode Ray Tube &amp; a Pair of Bar Magnets. Complete with CRT, Power Supply, Magnets, Magnetic disc with fittings etc.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply



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65	<p>Resistivity and band gap using four probe method Resistivity of Semiconductors by Four Probe Method at Different Temperatures and Determination of the Band-gap, Complete in all Respect Complete with:</p> <ol style="list-style-type: none"> <li>Probes Arrangement: It has four individually spring loaded probes.</li> <li>Sample :Germanium crystal in the form of a chip</li> <li>Oven : It is a small oven for the variation of temperature of the crystal from the room temperature to about 200°C (max.)</li> <li>Four Probe Set-up, The set-up consists of three units in the same cabinet. (i) Digital Voltmeter, (ii) Constant Current Generator : Open Circuit Voltage 18V Digital Ammeter: 0-20mA Resolution: 10mA (iii) Oven Power Supply: Suitable voltage for the oven is obtained through a step down transformer with a provision for low and high rates of heating. A glowing LED indicates, when the oven power supply is 'ON'.</li> </ol>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	<p>Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply</p>
<b>HEAT</b>			
66	<p>E-T Curve Set with Dead Beat Galvanometer Set Up To draw the e-t curve of a thermocouple using potentiometer. Potentiometer with jockey[10 no wire] MS powder coated frame, all side white sunmica top. Heavy brass jockey. 2V Power Supply Resistance box 0-10000 Manganin coils. Heavy type Spot Galvanometer with sensitivity control Plug key. 1 Way Thermocouple Copper Constantan Thermometer 110 Deg Stand for holding thermometer Arrangement for boiling of water - complete with electrical heater Ice bath - 500 ml Plastic beaker</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	<p>Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply</p>
67	Hot plate (1200 watt) with temperature control	ISO certified	-
68	Hot Plate with starrer	ISO certified	
68	Thermometer. 1/5 <sup>th</sup> deg graduation. Mercury	ISO certified	
70	<p>Stefan's law with bulb filament set up. Set is complete with Torch Bulb on board, DC Regulated Power supply, circuit arrangement, Digital voltmeter and ammeter, detailed manual.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	<p>Demonstration to be done at dept. at the time of supply</p>
71	<p>FUNCTION GENERATOR 2 MHz. Digital. 4 Digit Digital Frequency display. Wave forms : Sine / Square / Triangular. Frequency : 10 Hz to 2 M Hz Output amplitude : Sine / Square / Tria : 0-8V p-p Output impedance : 50 Frequency readout : 4 digit counter</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	



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72	<p>FUNCTION GENERATOR. DIGITAL. 100 KHz 4 Digit digital readouts. 1 Hz resolution. Wave forms : SINE / SQUARE / TRIANGULAR Frequency range : 10 Hz to 100 KHz or 200 KHz Sine wave Amplitude flatness : Within 1dB Output Amplitude : 0 to 10 Volts (P/P). Output Amplitude : Adjustable from 10 mV to 10 V pp Sine wave THD : 0.8% from 10 Hz to 10 KHz 2.5% upto 200KHz Power supply : 230V AC. 50 Hz.</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	
73	<p>Hall Effect Experiment, DT-HALL The set-up consists of following units: (i) (a) Hall Probe (Ge Crystal - n type) (b) Hall Probe (Ge Crystal - p type) (ii) Hall Probe Stand, aluminum body with adjustable height. Suitable for holding all type of hall probe. (iii) Hall Effect Set-Up, complete with CC power supply, digital voltmeter, digital ammeter. (iv) Electromagnet, 10Kg at 10mm air gap at 4A current. (v) Constant Current Power Supply with digital ammeter. Current control by potentiometer. (vi) Digital Gaussmeter. 20KGass. With imported hall probe. Complete in all respect</p>	INCO/ SES/ DETECH/ OSAW/ SCIENTIFIC	

Interested Vendors may contact College office for further clarification. Sealed quotations must be submitted within 7 days from the date of publication of this notice.

Sd/-  
**Principal**  
T.D.B College, Raniganj