



## TRIVENIDEVI BHALOTIA COLLEGE

(Govt. Sponsored)

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

ESTD - 1957

Ref. No.: TDBC/493/58(4)

Date: 31/07/2025

### TENDER NOTICE

This is an open circulation on behalf of Department of Physics, T.D.B College, Raniganj inviting competitive quotations from potential companies/ agencies for repairing & maintenance following items as mentioned below:

Sl. No.	Items	Make	Remark
1	Variable Voltage source 0-2V 200 mA Precession Source with display	INCO/ SES/ R.K.LAB/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
2	To determine the value of g using Bar Pendulum. Compound pendulum (Bar pendulum), chrome plated Brass bar with equidistant holes one steel knife-edge fitted on a wooden bracket for fixing on the wall.	INCO/ SES/ R.K.LAB/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
3	Spring Constant Apparatus The apparatus consists of a spiral spring about 25mm diameter and 10cm length. The upper end of the spring is suspended from a chuck nut and the lower end is provided with a small pointer which moves over a vertical wooden meter scale. The lower end is also provided with hook for carrying weights. All this setup is provided on a heavy metal base, supplied with 50gm x 5 Iron C.P weight set	INCO/ SES/ BESTO/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
4	Surface Tension by Capillary rise method: Surface tension stand consists of atleast 5 set (each 3) of capillary tubes with different bore radius	Good quality	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
5	To find the value of unknown capacitance by De-Sauty's Bridge. De-Sauty's Bridge The instrument has following in built parts fitted in metal/teak wood case. The Bridge consists of sine wave signal of 1KHZ. The Amplitude of AC switch indicating lamp is provided on the Bakelite board. Two sockets are provided for the output of AC signals. For detecting small AC signals in the output, Null Detector sin-built with digital display. Five unknown values are provided on the board selected by a Rotary switch. The circuit layout on the board is quite spread out to facilitate convenient working & clear understanding. 4mm socket are provided for making connection. Two-decade dial of x10&x100 ohms. Decade dial of x0.1mfd.	INCO/ SES/ R.K.LAB/ 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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6	Radius of Curvature of plane convex lens by Newton's Ring apparatus – a) Newton's Ring apparatus – Compact type - Complete with Newton's Ring lens set fitted in front of microscope. Microscope tube has transverse motion along horizontal traverse. Horizontal motion is provided by micrometer drum. Within wooden case	INCO/ SES/ DEVC/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
7	Copper Boiler – 6 litre capacity	Good quality	
8	Weight 50gm	Good quality	
9	Plastic coated single copper wire 22-gauge coil	Good quality	
10	Pencil Type Jockey	Good quality	
11	To study the V-I characteristics of a Zener diode and its use as voltage regulator. Zener Diode Characteristics & Load regulation Apparatus - Complete with the following: Two digital 20V meter, one selectable digital (200 $\mu$ A/200mA) ammeter, power supply with coarse & fine controller, Load resistance Selectable (100 $\Omega$ , 200 $\Omega$ , 300 $\Omega$ , 500 $\Omega$ , 1K $\Omega$ , 2K $\Omega$ , 5K $\Omega$ , 7K $\Omega$ , 8K $\Omega$ , 10K $\Omega$ ) with bread board attachment, heavy metal body, all 4mm connecting knob, with circuit diagram, manual & connecting knob, etc.	INCO/ SES/ R.K.LAB/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
12	To analyze elliptically polarized Light by using a Babinet's compensator. The total setup complete with the following: a) Babinet's Compensator. The instrument consists of two-round scales. One with index and the other vernier. The first scale (index scale) is for tuning the analyser into the azimuth. The second scale (vernier scale) is for measuring the degree of orientation of a wedge box. The wedges box contains two wedges cut in mutually perpendicular direction of optics axis in quartz. The long wedge is movable by means of a micrometer drum, with the help of which accurate reading of the movement is taken. Micrometer screw minimum reading 0.001cm. (i.e. Least count)	INCO/ SES/ DEVC/ OSAW/ SCIENTIFIC	Must accompany detailed manual along with working video. Demonstration to be done at dept. at the time of supply
13	Diffraction Gratings (2500/5000/7500/10000/15000 LPI)	Imported	
14	Silicon tuber tube	Good quality	
15	Glass Bulb for Jolly's Apparatus	Good quality	



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16	Use a Multimeter for measuring (a) Resistances, (b) AC and DC Voltages, (c) DC Current, (d) Capacitances, and (e) Checking electrical fuses. Digital LCR Multimeter – 3-1/2 Digits, Backlit LCD, Peak Hold, AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Inductance, Frequency, Temperature, Diode, Transistor and Continuity Test	METRAVI 451	
17	Cork for Lees Method	Good quality	

Interested vendors may contact College office for further clarification. Sealed quotations must be submitted to the office within **10 days** from the date of publication of this tender (by **09/08/2025, Saturday**).

Sd/-

**Teacher-in-Charge**

T.D.B College, Raniganj