



# BALARAMPUR COLLEGE

Estd. 1985 (Affiliated to Sidho Kanho Birsha University, Purulia)  
BALARAMPUR

P.O.-Rangadih Dist.-Purulia (W.B) Pin.-723143

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Ref.No. 153/16

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## Tender Notice

Sealed quotations are invited from the reputed laboratory instruments suppliers for supplying the followings Physics Laboratory instruments as per the following Under Graduate Physics Honours experiment mention in the table. It is also mandatory to submit the Quotations to the office of the Principal, Balarampur College within 07 days from the date of publication of this tender notice. Quality of the instruments should be maintained otherwise the College reserves the right to reject the instruments at any time and in this case the College will not pay any payment to the suppliers.

Sl No	Name of the Experiment	Apparatus to be supplied	Quantity
1	Construction of one-Ohm coil.	Standard 1 ohm , 5 A	6 Pc
		Wooden Bobin	2 pc
		Appropriate Constantan/Manganin wire (0.04ohm/cm)	10 m
2	To determine the constant of a ballistic galvanometer by capacitor discharge method	Capacitor : 1 micro- farad, 2 micro- farad, 3 micro- farad, 4 micro- farad, 5 micro- farad (Lab Purpose bipolar)	6 Pc. each
		Dial type capacitor box(range 1 to 10 micro farad)	3 Pc
		Two way key	3 Pc
3	To study the variation of refractive index with the wavelength and hence to determine the dispersive power of the material of a given prism	He- discharge tube	5 Pc each
		H- discharge tube	
		Stand and Holder for He- discharge tube	2 Pc
4	To determine the wavelength of a monochromatic light by Newton's ring method.	High voltage power-supply for He- and H discharge tube	2 Pc
		Newton's ring Apparatus <b>DEVCO</b> Extara plano-convex lens	1 Pc 5 pc
5	Calibration of a Polarimeter and determination of the concentration of the given active solution	Polarimeter	1 Pc
		Extra. Tube of polarimeter	2 Pc
		Borosil certified measuring cylinder 100 ml, 200 ml, 50 ml	3 pc each
		Borosil certified beaker 100 ml, 200 ml, Burate 200ml	3 Pc. each

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		Dextrose	500 gm
6	To measure the high resistance by the method of leakage of charge of a charged capacitor.	Dial type high Resistance Box(~ mega Ohm) [range: 1 – 10 mega ohm]	3 Pc
		Appropriate Charging, discharging and floating key(Roker Key)	2 Pc.
7	Determination of the mutual inductance of two coils at different angles ( $\phi$ ) with the help of a ballistic galvanometer by Carey Foster dc method and to draw M- $\phi$ graph	Appropriate Mutual inductance coil	1 Pc.
8	To determine the self inductance L1 and L2 of two coils and verification of the laws of inductance by Anderson's method	Complete setup of Anderson's Kit	1 Pc
9	To draw B-H loop of the specimen given in the form of an anchor ring.	Anchor ring	1 Pc
		Solenoid( Primary current Minimum 3 Amp with 6 V Power supply)	1 Pc
		Suitable Power Supply(12 V, 6 A) Suitable Murcury Rocker	1 Pc Each
		Appropriate Rheostat(10 ohm, 6 Amp)	2 Pc
10	Measurement of the voltage across the inductance, capacitance and resistance of a series LCR circuit for different frequencies of the input voltage with the help of an a.c. millivoltmeter. Hence study the Variation of impedance of the inductor and capacitor with frequency of the impressed voltage. Also draw the resonance curve of the circuit.	Inductor 20 mH, 50 mH, 100 mH For lab Use	4 pc each
		Double lens holder	2 Pc
		Bad conductor in Lees method to determine K	2 pc
		Casio scientific calculator	2 Pc
		Potentiometer Resistance 20 ohm	1 Pc

  
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