



GOVT. GIRLS' GENERAL DEGREE COLLEGE

7, Mayur Bhanj Road, Kolkata - 700 023

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E-mail : gggdc.coll@gmail.com

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Ref. No. :

DEPARTMENT OF PHYSICS
TENDER NOTICE

Date :

TENDER NOTICE NO. Gggdc/19/Phys/01

Dated 08/07/2019

Sealed quotations are invited from the competent concerns/authorised manufacturers/dealers to supply equipments to the Department of Physics, Govt. Girls' General Degree College, 7, Mayurbhanj Road, Kolkata 700023 for setting up laboratory of Semester based B.Sc Physics(Honours) (preferably Semester III and Semester IV) Course subject under CBCS to the following terms and conditions.

KINDLY QUOTE PRICES INCLUDING GST

Terms and Conditions

1. Quotations are to be addressed to the 'Officer-In-Charge, Govt. Girls' General Degree College, 7, Mayurbhanj Road, Kolkata 700023'.
2. The Quotations are to be sent to the Principal's Office on or before **15.07.2018** Upto **3.30** p.m.
3. The sealed quotations will be opened on **16.07.2018** at **3.30** p.m.
4. For every item in the quotation, the Name of the Manufacturer must be clearly mentioned along with the price list, catalogue number, batch number, quality etc. of the items stated in the Supplied Sealed Quotations.

Please provide GST charges for every single items maintaining serial order of the items

5. Quotation should be accompanied with S.T and I.T clearance certificate. Without S.T and I.T clearance certificate, quotation will not be accepted.
6. Quotation from any concern having any connection with a member of the staff of this college will not be accepted.
7. The quotation for each item must include delivery and free demonstration charges, if any. Such charges are to be mentioned separately.
8. The quotation should confirm exactly to the specific model and manufacturer mentioned in the tender (if any)
9. Quotations are invited for the following experimental set-up: ANNEXURE I
10. The College reserve right to accept or reject any quotation in part or full without assigning any reason.

Also visit our website www.govtgirlsekalpur.com

S. Mandal
08/07/19

Head
Department of Physics
Govt. Girls' General Degree College
7, Mayurbhanj Road, Kolkata-700023

Head
Dept. of Physics

S. Mandal 08/07/19
Officer-in-Charge
Government Girls' General
Degree College
Kolkata

ANNEXURE I

Quotations are invited for the following experimental set-up:

Sl. No	Experiment Set Up	Specifications	Quantity
1.	Verification of Stefan's law using a torch bulb		2 Set
2.	Determination of the coefficient of thermal expansion of a metallic rod using an optical lever.		1 Set
3.	Calibration of a thermocouple by direct measurement of the thermo-emf using operational amplifier and the constants. [One end in ice and another end at water bath which to be heated.]		1 Set
4.	Calibration of a thermocouple by direct measurement of the thermo-emf using potentiometer and the constants. [one end in ice and another end at water bath which to be heated.		1 Set
5.	Calibration of thermocouple [one end at room temperature other end in the oil bath] and determination of boiling point of water.		1 Set
6.	To determine the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charlton's disc method.		1 Set
7.	Complete set up of Logic Gates		2 Set
8.	Complete set up of Half Adder and Full Adder		1 Set
9.	Construction of half subtractor, full subtractor, adder-subtractor using full adder IC		1 Set
10.	Construction of FF circuits using NAND gates.		1 Set
11.	Construction of 4 bit shift registers (serial & parallel) using D type FF IC.		1 Set
12.	Construction of astable multivibrator using 555 Timer.		1 Set
13.	Measurement of Plank constant using LED		1 Set
14.	Determination of ionization potential of Mercury		1 Set
15.	Determination of e/m by using bar magnet.		1 Set
16.	To study the photoelectric effect: variation of photocurrent versus intensity and wavelength of light.		1 Set
17.	To determine the wavelength of H-alpha emission line of Hydrogen atom.		1 Set
18.	To show the tunneling effect in tunnel diode using I-V characteristics.		1 Set
19.	To determine (1) wavelength and (2) angular spread of He-Ne laser/ solid state laser using plane diffraction grating.		1 Set

20.	To study the static characteristics of BJT in CE Configuration.		1 Set
21.	To design a CE transistor amplifier of a given gain (mid-gain) using voltage divider bias		1 Set
22.	To study the frequency response of the BJT amplifier in CE mode.		1 Set
23.	To study the static characteristics of FET.		1 Set
24.	To design a Wien bridge oscillator for given frequency using an op-amp.		1 Set
25.	OP AMP Complete Set Up		2 Set
26.	Digital Micro-Ammeter	0-250 μ A	2
27.	AC Source		2
28.	Digital Milli-Ammeter	0-250 mA	3
29.	Digital Voltmeter	0-50/100 V	2
30.	POD	1K Ω , 10K Ω , 1M Ω	5 Each
31.	Multi-meter		2
32.	Meter Bridge		2
33.	Potentiometer		1
34.	Rheostat		2
35.	Determination of rigidity modulus of wire by measuring the time period of torsional oscillation of a metal cylinder attached to it.		1 Set
36.	Conversion of an ammeter to a voltmeter		1 Set
37.	Conversion of a voltmeter to an Ammeter.		1 Set
38.	2V/1A constant voltage/current source		2
39.	Determination of the pressure coefficient of air using Jolly's apparatus.		1 Set
40.	Determination of the focal length of a concave lens by auxiliary lens method.		1 Set
41.	Polari-meter Set up		1 Set
42.	Determination of the frequency of a tuning fork with the help of sonometer using n-l curve.		1 Set
43.	Metallic Cylinder and Rectangular bar for Moment of Inertia Experiment		2 Each
44.	Resistance	220 Ω , 330 Ω , 1K Ω , 10K Ω , 1M Ω , 470 Ω , 100 Ω , 33 Ω , 47 Ω	10 each
45.	Inductances	10 mH, 25mH	4 Each
46.	Capacitors	0.1 μ F, 0.22 μ F, 0.33 μ F	4 Each

47.	Experimental Set up for Thevenin and Norton Theorems		1 Set
48.	Experimental Set up for Superposition and Maximum power transfer theorem		1 Set
49.	Bread Board		10
50.	Double Slit		1
51.	Grating	100/200/300 lines per mm. (Original Hilger and Watts)	2
52.	Prism		2
53.	Spectrometer		2
54.	Helium Source		2
55.	Mercury source		2
56.	Sodium Source		2
57.	Newton's ring Apparatus		1 Set
58.	Scanner HP Scanjet 200		1
59.	LaserJet Pro M1136 MFP Laser Printer		1
60.	Laptop Free DOS		1
61.	IC's	7402, 7408, 7404, 7432, 7409, 7400, 741,	5 Each
62.	Variable Power Supply	0-2 V	3
63.	Variable Power Supply	0-5 V	2
64.	Bad conductors of different materials and of different thickness for Lees' and Charton's Experiment		2
65.	Banana plug	4mm, 2mm	2 Each
66.	Bulb for lamp and Scale arrangement	6 Watt	3
67.	Charging/discharging keys		2
68.	Capacitance Box	Decade Type	1
69.	Convex Lens	F=10, 15, 20 cm	2 Each
70.	Fortin's Barometer		2
71.	Phol's Commutator (Heavy Type)		2
72.	Spirit Level		3

S. Mandal
08/07/2019

Head
Dept. of Physics

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Almond 08/07/19
By Order
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