



HARINGHATA MAHAVIDYALAYA

(Affiliated to Kalyani University)

NAAC ACCREDITED

P.O.-SUBARNAPUR, DIST.- NADIA, WEST BENGAL, PIN- 741249

Email: haringhatamahavidyalaya@rediffmail.com

Website: www.haringhatamahavidyalaya.org

☎ : 03473-233-318

Fax No: 03473-232-273

Ref. No: 8270/19/H.M/ Instrument (Physics Lab)/ Tender Notice

Date: 14.09.2019

Haringhata Mahavidyalaya

P.O: Haringhata, Dist.: Nadia

West Bengal, Pin: 741249

Phone No: 03473 233 318

Website No: haringhatamahavidyalaya.org

Email Id: haringhatamahavidyalaya@rediffmail.com

Teacher-in-Charge, Haringhata Mahavidyalaya, invites Tender/Quotation from amongst the authorized Dealer/Manufacturer/Supplier for supplying the following items for the Department of Physics on or before 24.09.2019 through college website or requests to submit quotation papers to the office of the Teacher-in-Charge. The date of opening of quotation papers to be informed over E- Mail/Telephone/Notice. All instruments to be set up by the approved quotationer and it is mandatory.

- Quotation without the attested photocopies of the following documents will be rejected.

1. Pan Card,
2. Trade License
3. GST Registration

The decision of the college authority is final.

REQUIRED INSTRUMENTS

Sl. No	Name of Instrument/Experiment	Specification of the instrument / experiment	Qty.
1.	To study V-I characteristics of PN junction diode, and Light emitting diode	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
2.	To study the V-I characteristics of a Zener diode and its use as voltage regulator	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
3.	To study the characteristics of a Bipolar Junction Transistor in CE configuration.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
4.	To design a CE transistor amplifier of a given gain (mid-gain) using voltage divider bias	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
5.	To design an inverting amplifier using Op-amp (741,351) for dc voltage of given gain.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
6.	To add two dc voltages using Op-amp in inverting and non-inverting mode.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
7.	To design a precision Differential amplifier of given I/O specification using Op-amp.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
8.	To investigate the use of an op-amp as an Integrator.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
9.	To investigate the use of an op-amp as a Differentiator.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
10.	To verify and design AND, OR, NOT and XOR gates using NAND gates.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
11.	Half adder, Full adder and 4-bit Binary Adder.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
12.	To design a monostable multivibrator of given specifications using 555 Timer.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
13.	To design an astable multivibrator of given specifications using 555 Timer.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1

14.	Adder-Sub tractor using Full Adder I.C.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
15.	Determination of the melting point of a solid with a thermocouple.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
16.	Measurement of the coefficient of linear expansion of a solid using an optical lever	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
17.	To study the variation of Thermo-Emf of a thermocouple with Difference of emperature of its Two Junctions.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
18.	To determine the Coefficient of Thermal Conductivity of Cu by Angstrom's Method.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
19	To determine Mechanical Equivalent of Heat, J, by Callender and Barne's constant flow method.	A complete setup with all accessories (Instrument / experiment is to demonstrated at Physics Department)	1
20.	C.R.O (70 MHz.)	70 MHz. 4 analog channel	1
21.	Function generator	5 MHz	1
22.	OP-AMP POWER SUPPLY	0-30 VOLTS DC 500	2
23.	MULTI METRE		2

Jyoti Narayan Patra 14/9/19

Sri. Jyoti Narayan Patra *Teacher-in-Charge*
 Teacher-in-Charge
 Haringhata Mahavidyalaya
 Haringhata Mahavidyalaya



Necessary information to:

1. The Hon'ble Administrator, (S.D.O, Kalyani), Haringhata Mahavidyalaya,
2. District Collectorate Office, Krishnanagar, Nadia,
3. B.D.O. Office, Haringhata, Nadia,
4. Haringhata Municipality,
5. Head, Dept. of Physics,
6. Convenor, Tender Committee,
7. College Website,
8. Notice Board.