

# GHOSHPUR HIGH SCHOOL (H.S.)

WITH VOCATIONAL (X+2 & VIII) STREAM (VTC-3109)

## CLASS – V-XII INTEGRATED INSTITUTION

P.O.- HAUR ☆ Block-Panskura-1 ☆ Dist.- Purba Medinipur ☆ Pin-721131

E-mail :- [ghoshpurhighschool@gmail.com](mailto:ghoshpurhighschool@gmail.com)

Phone No.- 03228-242202

M- 09434180453

Memo No.- **DST/GHS/01**

Date:- **25<sup>th</sup> May, 2017**

TENDER DOCUMENTS FOR PROCUREMENT OF COMPUTER SYSTEM AND PROJECTOR FOR DEPARTMENT OF SCIENCE AND TECHNOLOGY, **GHOSHPUR HIGH SCHOOL, AT- HAUR, PURBA MEDINIPUR, PIN-721131.**

Sealed tenders are invited from reputed Companies / Supply Agencies for procurement of branded computer system and projector. The interested Companies / Supplier / Agency may submit their technical and financial bid documents in prescribed format in separate sealed cover to "The Headmaster, Ghoshpur High School, Vill.+P.O.- Haur, Dist- Purba Medinipur, Pin-721131". The last date of dropping tender is on 15.06.2017 upto 4.30 p.m. Tender will be opened on 16.06.2017 at 4 p.m. Details of specification & estimated quantities are as follows:-

### 1. **COMPUTER SYSTEM**

#### **Branded Desktop Computer**

**3 Units**

Processor Name/Type	Intel Core™ i3- 6100 (6 <sup>th</sup> Gen) or higher.
Graphics	Intel HD Graphics.
Hard Disk Drive	500 GB or higher, 7200 rpm.
Memory / Socket Type	4GB or higher, DDR4 / DIMM.
Optical Drive	16X DVD RW.
Power Supply	180W, 80 Plus Gold Certified and 92% efficient. (Energy Star, EPEAT)
LAN	Integrated 10M Gigabit Ethernet.
Front Ports	3-USB 3.0, 1-Microphone, 1-Headphone.
Rear Ports	2-USB 3.0, 2-USB 2.0, RJ45, VGA, HDMI, Standard Serial Port, 3-Audio.
Input Devices	Standard Keyboard/Mouse.
Monitor	24 inch TFT/LED.
Warranty	3 years Company Domestic Warranty(On-site Service)

(The Operating System Windows 8.1 or higher must be certified factory preloaded. Or the vender will be allowed to install with original Media and licence copy.)

### 2. **PROJECTOR**

Type- WXGA / Chipset- LCD, Brightness- 3200 lm  
3 year Manufacturer Warranty.

**2 Units.**

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If the office remains closed in any unavoidable circumstances on above-mentioned any days, then next working day will come into force & the scheduled time will remain unchanged.

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2. Bidders must quote rates in absolute numerical values (both in figures and words).
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7. Quoted rate shall be inclusive of all charges including royalty, VAT, tools charges, transportation etc.
8. Any bid received from the bidder without authentication of correction made in rate quoted in word or figure shall lead to cancellation of the bid.

Copy forwarded for information and with a request for making an arrangement to display the notice for wide publicity to :-

- i) The District Magistrate, Purba Medinipur.
- ii) DI of School,(S.E.), Purba Medinipur.
- iii) D.P.O., Purba Medinipur.
- iv) B.D.O., Panskura-1 Block, At.- Panskura.
- v) Haur Gram Panchayat Office, At.- Haur.

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Memo No.- **DST/GHS/02**

Date:- **25<sup>th</sup> May, 2017**

### TENDER DOCUMENTS FOR PROCUREMENT OF LABORATORY INSTRUMENTS & MATERIALS FOR DEPARTMENT OF SCIENCE AND TECHNOLOGY, **GHOSHPUR HIGH SCHOOL, AT- HAUR, PURBA MEDINIPUR, PIN-721131.**

Sealed tenders are invited from reputed Companies / Supply Agencies for procurement of laboratory instruments & materials. The interested Companies / Supplier / Agency may submit their technical and financial bid documents in prescribed format in separate sealed cover to "The Headmaster, Ghoshpur High School, Vill.+P.O.- Haur, Dist- Purba Medinipur, Pin-721131". The last date of dropping tender is on 15.06.2017 upto 4.30 p.m. Tender will be opened on 16.06.2017 at 4 p.m. Details of specification & estimated quantities are as follows:-

#### **1. LABORATORY INSTRUMENTS & MATERIALS**

##### **A. PHYSICS**

General Physics	Equipment	No. of items required
1.	Metallic bob with hook (brass aluminium & copper) set of 3 each 1.5" dia	6
2.	Steel 1 mtr. Scale	4
3.	Searle's apparatus for Young's Modulus with 2½ kg iron slotted weight complete set	1
4.	Soldering instrument 35 Watt, soldering paste, soldering metal 1mm	3
5.	Travelling microscope large size horizontal 230mm vertical 180 mm with vernier	1
6.	Solid cylinder (brass 25mm X 12mm)	4
7.	Stop watch Digital	2
<b>Heat.</b>		
1.	Maximum minimum thermometer	2
2.	Pullinger's apparatus for coefficient of linear expansion vertical form in wooden frame with test rod and spherometer (least count 0.005 cm) superior quality	1
3.	Calorimeter with wooden jacket + Stimer + Lid superior	1
<b>Sound &amp; Vibration</b>		
1.	Sonometer full meter long Red wood box with brass pulleys w/o weights with etc.	2
2.	Resonance tube apparatus all metallic plastic graduated tube plastic reservoir sliding in brass rod special	2
<b>Light</b>		
1.	<b>Stands with holders for light source, Lens &amp; Screen</b>	3 sets
2.	<b>Holder for lenses Y shape on metal adjustable stan superior</b>	6
3.	<b>Lens &amp; Mirror holder</b>	6
4.	<b>Concave lens 2" dia superior, focal length 15 cm, 20 cm</b>	4 each
5.	<b>Concave Mirror 2" diameter, f=10 cm, 15 cm, 20cm</b>	2 each
6.	<b>Convex lens 2" dia superior, f=5, 10-12 cm</b>	4 each
7.	<b>Convex Mirror 3" optically true superior</b>	4
8.	<b>Convex-concave lens combination</b>	2sets
9.	<b>Prism 1½ " , 2" size superior</b>	4 each
10.	<b>Spectrometer</b>	2sets
11.	<b>Diffraction grating 6000 lines per inch</b>	2sets
<b>Magnetism</b>		
1.	<b>Bar magnet 2" &amp; 3" plastic coated ceramic ( of various shapes)</b>	6

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2.	Bar magnet (strong magnetic field) 4½ “ size plastic coated ceramic	4
3.	Ring magnets 1” & 2”	6 each
4.	U-type or Horse shoe magnets	4
5.	Magnetic compass	12
<b>Electrostatics</b>		
1.	Ebonite rod	4
2.	Capacitor apparatus ( behaviour of capacitors in A.C. Circuit) complete with meters complete superior	2
3.	White Board (3” X 4”) and pens	2
4.	Glass rods	6
5.	Gold Leaf Electroscope	1
<b>Electricity</b>		
1.	Battery holders cell box for two cells (AA battery & 555 battery) with brass terminal each	4
2.	Connecting standard wires copper with PVC covered coil 90 m	2
3.	Power supply 12 volts DC / 2 Amp regulated continuously variable volt model best quality Taiwan	4
4.	Galvanometer (best quality) 50-0-50 bench type	6
5.	Keys	24
6.	AVO meter	2
7.	Micro ammeter complete set	4
8.	Analog Ammeter with pointer	2
9.	Zinc plates for simple Cell	4
10.	Copper plates for simple Cell	4
11.	Resistance wire (Nichrome) 28 or 30 SWG.	Pkt=100gm
12.	Van de graff generator	1
13.	Simple Voltaic Cell	2
14.	Barlow’s wheel	1
15.	Apparatus to show force on a conductor in a magnetic Field	1
16.	Potentiometer	1
17.	Solenoid Apparatus	2
<b>Electronics</b>		
1.	Bread Board	2
2.	Diodes:- IN4001, IN4002, IN4004, IN4007, IN5401, IN5402, IN5403, IN5404, IN5406	24 each
3.	PNP transistors	24
4.	LEDs of different colours	25each
5.	LDR small size	10
6.	Full set apparatus (characteristics of PNP transistors) in large wooden box fitted with meters complete superior quality.	1
7.	Semi conductor diode apparatus complete in large wooden box fitted with three DC large size meters superior quality.	1
<b>Electromagnetism</b>		
1	Capacitor apparatus ( behaviour of capacitors in A.C. Circuit) complete with meters complete superior	2
2	AC circuit study for Resistance, Capacitors and Inductor.	2
3	Torch Bulbs with holders 1.5, 3.0, 4.5, 6 Volts	6 each

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### B. CHEMISTRY

General	Equipment	No. of items required
1.	Klpp's Apparatus (plastic body)	2
2.	Woulfe's bottle	2
3.	A digital balance (up to 3 digits after decimal)	1
4.	Scissors -2 (1 small, 1 big)	2
5.	Tongs 2 long, 4 short.	
6.	Cloth Dusters	24
7.	Water bath (electrical)	1 set
8.	Hot air Oven up to 200 C <sup>0</sup>	1 set
9.	Tripod stand (iron)	24
10.	Burette clamps, Filtering clamps	24 each
11.	Thermometers minus 10 to plus 360 deg C	3 nos each type
12.	Spatula : Nickel	1 set of 4 different groove size
13.	Spatula : Plastic	2 set of 6 different size
14.	Tongs, Twizers	2 each long/short size
15.	Galvanometer with connecting wire & crocodile clips	2 sets
16.	Copper plates, Zinc amalgam rods ( electrode purpose)	2 set each
17.	Dropping bottles (polyethylene) to dispense liquids	5 doz.
18.	Small vials like 35 mm film boxes + small spoons	5 doz.
19.	Cork borer set	2 set
20.	Cotton front buttoned shirt type white Apron with three front pockets. (1 for each candidate)	
21.	Test tube racks	5 doz.
22.	Bunsen burners with rubber/nylon tubing (1 exclusively for the demonstration table)	6
23.	Platinum wire	1 doz.
24.	Asbestos sheets, Wire gauge with & without asbestos	6nos. Each
25.	Porcelain Mortar – pestle	1 big, 6 small
26.	Porcelain evaporation-basin	6
27.	Mica foil	
Glass Apparatus		
1.	Long-nose Glass droppers with rubber tits	2 doz.
2.	Small glass droppers	2doz.
3.	Petridish 2" & 3"	2 doz. Each
4.	Funnels : Glass small 2 doz.; Plastic Big – 2	
5.	Bent tubes	2 doz.
Chemicals.		
1.	Glacial ; Acetic, Phosphoric acids	As per requirement
2.	Organic: Methanol, rectified Spirit, Acetone, Chloroform, Glycerol,	As per requirement
3.	Hydroxides: Potassium, Calcium, Barium	As per requirement
4.	Oxides of : calcium, Zinc, Arsenic, Iron, Manganese	As per requirement
5.	Chlorides, Nitrates, Sulphates of- Sodium, Potassium, Calcium, Manganese, Tin	As per requirement
6.	Sodium salt of; Acetate, Bicarbonate, Bisulphate	As per requirement
7.	Ammonium salt of: Phosphate, Carbonate, Dichromate	As per requirement

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### C. BIOLOGY

<b>Chemicals</b>			
1.	Acetone	2.	Picric acid
3.	Osmic acid 1%	4.	Acetocarmine stain
5.	Sodium Hydroxide	6.	Sodium Citrate
7.	Copper Sulphate	8.	Concentrate H <sub>2</sub> SO <sub>4</sub>
9.	HCL	10.	Sulphosalicylic acid
11.	Bile salts	12.	Sucrose
13.	Glucose	14.	Urease
15.	Leishman's stain (powder)	16.	Crystal violet
17.	Basic fuchsin.	18.	Borax.
19.	Boric acid	20.	Potassium Hydroxide.
21.	Eosin powder.	22.	Safranin powder.
23.	Haemotoxylin.	24.	Glycerine (pure)
25.	Phenol crystals.	26.	pH indicator solution with colour chart –BDH
<b>Equipments</b>			
1.	Filter paper	2.	Aluminium foil pie dish
3.	Spirit lamp		
<b>Glassware</b>			
1.	Funnel	2.	Capillary tube
3.	Long test tube eiyh stopper	4.	Test tube stand.
5.	Pipette 10cc.	6.	Conical flask.
7.	Measure cylinder 500cc and 100 cc	8.	Slide box; 50 slides wooden
9.	Stage Micrometer	10.	Starch and Iodine paper
11.	Starch test paper.	12.	Test tube holder iron c.p.
13.	Test tube stand; 12 tubes.	14.	Test tube; 5x5 / 8 inch.
15.	Thermometer, Maximum Minimum		
<b>Specimens (permanent slide)</b>			
1.	Bacteria	2.	Oscillatoria
3.	Spirogyra.	4.	Rhizopus.
5.	Mushroom (wet preserve)	6.	Yeast.
7.	Liverwort.	8.	Moss (wet preserve)
9.	Lichen (wet preserve)	10.	Amoeba.
11.	Hydra (whole mount)	12.	Mammalian Blood smear.
13.	T.S. of sunflower stem	14.	Onlon Root tip cell mitosis.
15.	Animal cell mitosis – Grasshopper.		
<b>Specimens(Wet preserved)</b>			
1.	Ascaris	2.	Earthworm.
3.	Prawn.	4.	Starfish.
5.	Rohu.	6.	Frog.
7.	Lizard.		
1.	Chemicals Biuret reagent 125 ml	2.	Chromatography paper
3.	Compound Microscope with built in system. 5x, 10x, 45x, 2pieces.	4.	Euglena and Chlamydomonas
5.	Filter paper; 12.5 cm	6.	Funnel; 3" glass (7.5 cm) Soda

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7.	Human Models Eye	8.	Human Models Heart.
9.	Human Models Kidney.	10.	Magnifying Glass 3" dia.
11.	Male and Female Cones of Pinus.	12.	Mitosis in onion root tip cell (permanent slide)
13.	Mitosis in grasshopper (permanent slide).	14.	Meiosis in grasshopper testis (permanent slide).
15.	Meiosis in onion bud cell (permanent slide).	16.	T.S. of Blastula (permanent slide).
17.	T.S. of Testis – mammalian (permanent slide) stages of gamete development.	18.	T.S. of Ovary-mammalian (permanent slide).
19.	Squamous epithelium (permanent slide).	20.	Micrometer Occular (Occular disc 10 mm 100 dia)
21.	Model for kidney and L.S. of kidney.	22.	Model of Meiosis.
23.	Model of Mitosis.	24.	Models T.S. of Stem of Selaginella.
25.	Permanent Slides Budding in Hydra.	26.	Permanent Slides Congugation in Paramecium,
27.	Permanent Slides Transverse Section of Root, Stem and leaves.	28.	pH-meter; digital or pen type.
29.	Plant Models : Dicot/Root.	30.	Plant Models : Gametophyte of Selanginella.
31.	Plant Models : Liverwort.	32.	Plant Models : Root Monocot.
33.	Plant Models : Typical plant cell.	34.	Plant Preserved: Adiantum.
35.	Plant Preserved: Funaria.	36.	Plant Preserved: Marchantia.
37.	Plant Preserved: selaginella.	38.	Pointer for Eye Piece of Microscope.
39.	Reagent Glass Bottles with stopper 250 ml.	40.	Root Pressure; (Borosil glass)
41.	Root Pressure; (soda glass)		

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