



GUSHKARA MAHAVIDYALAYA

NAAC Accredited 'B++' (Cycle-3)

P.O. GUSHKARA, DIST. PURBA BARDHAMAN, PIN 713128, W.B.

Phone: (03452) 255 105, Email: guskaramahavidyalaya@gmail.com

Tender Reference No.: GM/RUSA/NIT-8/2026

E-tenders are invited from eligible bonafide parties with requisite credentials for supply of Lab. Equipment, Desktop Computers and Printers. Rates should be quoted in the prescribed format (standardized BOQ format).

All the relevant documents, **Specification (Annexure-“A”)** etc. should be downloaded by the interested bidders from the website: <https://wbtenders.gov.in> Any addendum/corrigendum/Extension of validity period will be notified at the aforesaid e-Tendering portal: <https://wbtenders.gov.in>. Bidders are requested to go through the following very carefully before submission of bids. When a tendering firm submits their tender in response to this NIT, they will be deemed to have understood fully the contents, the requirements, terms & conditions of this tender.

A. Lab. Equipment, Desktop Computers and Printers:

Login by bidder: A bidder desirous of taking part in an e-tender invited by a State Government shall login to the e-Procurement portal of the Government of West Bengal using their login ID and password using valid DSC.

B. Eligibility of Bidder:

The bidder must be an eligible bonafide party with requisite credentials. Certificates/Authorization must be submitted online in support of the claim.

C. Validity of Bid: - The tendered rate shall be valid till 1 year from the date of acceptance.

D. Documents: - Bidders shall submit their Valid License, GST Registration Certificates, PAN No. and P. Tax, Bank Account No. and Credentials in support of supplying the said items from any Govt./Govt. Aided undertaking.

E. Others: -

- i. **The bid price must be the final price inclusive of Supply of Materials and Cost of Carriage etc.**
- ii. The intending Bidders shall clearly understand that whatever may be the outcome of the present invitation of Bids, no cost of Bidding shall be reimbursable by the College.
- iii. The College authority does neither bind itself to accept the lowest rates of any tender nor to assign any reason thereto for non-acceptance of the tender.
- iv. The college authority has the full right to check/verify the original copy of documents submitted by the bidder at any point during the e-tendering process.
- v. Rules for EMD applicable for suppliers with MSME Registration as per Govt. Rules.
- vi. Rates of discount quoted by the bidders would have to be according to Govt. Rules regarding this.
- vii. GST and GST-TDS will be levied by the College authority according to the Govt. Rules.
- viii. Bidders will have to quote the bids of the specified items following the specification sheet attached the NIT.

It is obligatory for the bidder to maintain the time schedule. In case of delay successful bidder will be held responsible & action will be taken as per condition of tender as laid down herein without prejudice. Any sort of plea for Part Performance / No Performance / Defective Performance against work order, will not be considered and this will include incidents occurring due to acts of God.

F. Payment:

Tax Invoice and the Challan against the supply is/are to be sent in TRIPLICATE and should invariably be submitted along with supplies.

Payment shall be made after completion of the AOC satisfactorily in all respects. No interest shall be paid to the firm if the payment is delayed due to whatever reasons. In no circumstances, delivery schedule should be affected & or linked with the payment of outstanding bills. The payment of bills shall be withheld, in case of violation of any tender terms & conditions.

Date & Time Schedule

Sl.No.	Particulars	Date	Time
1.	NIT publication date	26.09.2026	18:00 p.m.
2.	Bidding starts	26.09.2026	18:00 p.m.
3.	Bidding closing	12.10.2026	18:00 p.m.
4.	Bid opening date	14.10.2026	13:00 p.m.

Bid Opening Location: Gushkara Mahavidyalaya, P.O. Gushkara, Dist. Purba Bardhaman, PIN 713128, W.B.

Sd/- Dr. S. Chatterjee
Principal
Gushkara Mahavidyalaya

Instructions to Bidders

General guidance for E-Tendering:

The following are the instructions / guidelines for electronic submission of the tenders for assisting the Manufacturer/Authorized Dealers/Suppliers to participate in E-Tendering:

- I. **Registration:** Any eligible manufacturer / authorized concerns willing to take part in the process of E-Tendering will have to be enrolled & registered with the Government e-procurement system, through logging on to <https://wbtenders.gov.in>.
- II. **Digital Signature Certificated (DSC):** Each Civil Contractor is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders for the approval service of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the website stated in Clause-I above. DSC is given as a USB e-Token.
- III. The bidder can search and download the NIT and Tender document(s) electronically from computer once he logs on to the website mentioned in Clause-I using the Digital Signature Certificate. This is the only mode of collection of Tender documents.
- IV. **Submission of Tenders:** Tenders are to be submitted online to the website stated in Clause-I in two folders, one in Technical Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). Virus scanned and digitally signed copies of the documents are to be uploaded. The documents will get encrypted (transformed into non-readable formats).
- V. **Technical Proposal:** The Technical proposal should contain scanned copies of the following cover (folder):
 - a) **Statutory Cover** Containing the following documents –
 - i. NIT (Online)
 - b) **Non-Statutory Cover** Containing the following documents –

Sl.No.	Category	Sub-Category	Details
1.	Certificates	Certificates	• Manufacturer/Authorized Dealer/Authorized Supplier • GST Registration • PAN • P.Tax (Challan) • IT Acknowledgement for last 3 years • Credentials • MSME Certificate (if applicable)
2.	Company Details	Company details	• Trade License

VI. Financial Proposal:

- a) **BOQ:** The Financial Proposal should contain Bill of Quantities (BOQ) in two covers (folder). The contractor is to quote the rate online through computer in the space marked for quoting rate in the BOQ after downloading the prescribed format from the website.

Opening & Evaluation of Tender:

- I. **Opening of Bid Proposal: Nodal Officer and Procurement Officers** will open the bids of the Tender in presence of the **members of Purchase & Tender Sub-Committee**.
- II. **Intending tenderers may remain present if they so desire.**
- III. Cover (folder) for Statutory Documents will be opened first and if found in order, cover (folder) for Non-Statutory Documents will be opened. If there is any deficiency in the Statutory Documents the tender will summarily be rejected.
- IV. Decrypted (transformed into readable formats) documents of the Non-Statutory cover will be downloaded and handed over to the Purchase & Tender Sub-Committee.
- V. Summary list of technically qualified tenderers will be uploaded online.
- VI. Pursuant to scrutiny and decision of the Purchase & Tender Sub-Committee the Summary List of eligible tenderers and the serial number of work for which their proposal will be considered will be uploaded in the web portals.
- VII. During evaluation the committee may summon the tenderers and seek clarification/information or additional documents or original hard copy of any of the documents already submitted and if these are not produced within the stipulated time frame, their proposals will be liable for rejection.

Sd/- Dr. S. Chatterjee
Principal
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Terms and Conditions

1. **Commencement and timely completion of supply:** All the supply must be completed in all respects within the time specified in notice inviting Tender from the date of commencement as mentioned in AOC. Time for completion as specified in the tender shall be deemed to be the essence of the contract.

SPECIFICATION SHEET

Desktop Computers

**HP/LENOVO -I3 14TH GENERATION PROCESSOR, 8GB RAM, 512GB SSD,
20" MONITOR, KEYBOARD & MOUSE, UPS WITH WINDOWS OFFICE,
3YEARS ONSITE WARRANTY**

Heavy Duty Multi-Function Colour Laser Jet Printer

**Category A3 MFP's Colour LaserJet
Main Functions Print, Copy, Scan, Send.**

- 1. Print/copy Speed 26 PPM TO 30PPM or more**
- 2. RAM + STORAGE 2+64 GB OR MORE**
- 3. PROCESSOR SPEED 1.6 GHz dual core processor or more**
- 4. Colour Network Printer (PDL support UFR II) Standard in built**
- 5. Colour Scanner Standard in built**
- 6. Duplex Standard in built attached**
- 7. Send scans to e-mail, PC, folder & Pen drive**
- 8. Wi-Fi Standard in built**
- 9. Control Panel 7" inch touch screen display**
- 10. Zoom 25% to 400% with 1% adjustment**
- 11. Connectivity USB port & Network Port, Wireless LAN**
- 12. Paper tray capacity Dual Trays (550 X 2)**
- 13. Multipurpose tray 100 sheets (Up to 250gsm)**
- 14. Max Original size A3**
- 15. Output paper sizes A5, A4, LEGAL, A3**
- 16. Warm up time < 20sec**
- 17. Power consumption 1580w or less**
- 18. Color Toner Yield 25000 nos & above**
- 19. B/W Toner yield 36000nos & above.**

Digital Multifunction B/W Laser Printer

Type	Monochrome Laser	
Copy Speed	Up to 18 / 19cpm (A4 / LTR)	
Halftones	256 levels	
First Copy Time (FCOT)	12.0 / 11.8s (A4 / LTR)	
Paper Source	150 sheet cassette	
Paper Weight	60 to 163g/m2 (cassette)	
Paper Output	100 sheets (face down)	
Copy Size	Platen: Up to A4 / LTR	
Copy Memory	64MB (Shared)	
Print Speed	Up to 18 pages per minute / 19 pages per minute (A4 / LTR)	
Print Language	UFR II LT	
Print Resolution	Up to 600 x 600dpi, 1,200 (equivalent) x 600dpi	
Print Memory	64MB (Shared)	
Scan Type	CIS	
Scan Resolution	Optical	Up to 600 x 600dpi
	Driver enhanced	Up to 9,600 x 9,600dpi
Colour Depth	24-bit	
Document Size	Platen: Up to A4	
Compatibility	TWAIN, WIA	
Output File Format	Windows	Hi-Compression PDF, Searchable PDF, PDF, JPEG, TIFF, BMP
	Mac	PDF, JPEG, TIFF, BMP, PNG
Pull Scan	Yes, USB	
Scan To PC	None	
Standard Interface	USB 2.0 Hi-Speed	
USB Function	Print, Scan	
Compatible Operating Systems*1	Windows 8 (32 / 64-bit), Windows 7 (32 / 64bit), Windows Vista (32 / 64-bit), Windows XP (32 / 64bit), Windows 2000, Windows 11 Pro	
LCD Display	7 Segment (1 digit) LED	
Toner Cartridge*4	Cartridge 925*2 (1,600 pages) (Bundled cartridge 700 pages)	

Department of Botany

SL.	Equipment Specifications
01	<u>1. Paper Chromatography Apparatus Full Kit</u> Kit Includes: Rectangular TLC developing tanks (jar) with set (Complete $L \times H \times W$: 7.5 cm $\times$ 15.5 cm $\times$ 8.0 cm) • Alfalfa Powder – 10 g $\times$ 2 bottles • Red Extract – 25 ml $\times$ 2 bottles • Chromatography Sheets (Whatman No.1 filter paper) – 50 pcs • Chromatographic Solvent – 250 ml $\times$ 6 • Isopropyl Alcohol (70%) – 250 ml $\times$ 2 • Butanol – 500 ml $\times$ 2 • Ninhydrin – 250 ml $\times$ 6 • Acetone – 500 ml $\times$ 2
02	<u>2. Digital Spectrophotometer</u> • UV-Vis Single Beam Spectrophotometer • Wavelength range: 340–960 nm • High accuracy and reliability • % Transmission and OD measurement • 10 nm bandwidth • Single position 20/50 mm cuvette holder • Free installation included
03	<u>3. High Speed Microcentrifuge Machine 12000 RPM 12-Slot Rotor for 0.2/0.5/1.5/2 mL Tubes.</u> • Over-Temperature Protection: Automatically shuts down with an alarm if chamber temperature is too high, protecting sensitive samples. • Program Memory Function: Stores custom speed and time settings for quick recall without resetting. • Rotor: Accepts 12-position 0.2/0.5/1.5/2 mL tubes and 12-Position 0.5/ 1ml Micro Blood Tubes, Includes adapters for 0.2 mL and 0.5 mL • Safety Protection: Features low-voltage input, sturdy lid, and automatic lid lock for user safety. • Low Noise and Vibration: Quiet motor with rubber base minimizes noise and vibration (below 56 dB(A)). • Automatic Operation: Starts rotation instantly upon lid closure, streamlining the sample separation process. • Specifications: Max 9660xg, 1000-12000 rpm, 48 W power, low-noise operation, suitable for 5-40°C environments.

04	<u>4. Monocular Compound Microscope</u> • Monocular straight tube (length: 165 mm) • Precision fine focusing system (reading up to 0.002 mm) • Separate coarse and fine focusing knobs • Coaxial coarse & fine adjustment • Fine division: 0.002 mm • Coarse stroke: 37.7 mm per rotation • Fine stroke: 0.2 mm per rotation • Moving range: 28 mm • Dimensions: 33 × 28 × 44 cm • Quadruple revolving nosepiece • Plano concave reflector or mirror • Graduated mechanical stage (125 mm × 140 mm) with X-Y movement • Abbe condenser (N.A. 1.25) with iris diaphragm and filter holder • Rack and pinion movement • Filters: daylight cobalt blue filter • Coated Semi Plan Objectives: SP-4x, SP-10x, SP-40x & SP-100x (oil immersion) • Eyepiece: WF-10x & H-5x or H-15x • Rechargeable sub-stage LED illuminator for artificial light • Finish: Matte grey • On-site warranty: 1 year • Free installation (Model: EDUCATOR-Medical/Equivalent)
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Department of Geography

- **GPS**

2.2" sunlight-readable color display with 240 x 320 display pixels for improved readability

Display Size 3.5 x 4.4 cm

Max Range 2m, Range 2 m

Preloaded with TopoActive maps with routable roads and trails for cycling and hiking

Support for GPS and GLONASS satellite systems allows for tracking in more challenging environments than GPS alone

8 GB of internal memory plus a micro SD™ card slot

3-axis compass and barometric altimeter

Battery life: at least 25 hours in GPS mode with 2 AA batteries

- **Auto Level**

Magnification: 24x Objective Aperture: 32 mm (1.26 in.) Length: 214 mm (8.42 in.) Accuracy (1 km double-run leveling): ± 2.0 mm Resolving Power: 4" Compensator Type: Pendulum compensator with magnetic damping Compensator Range: ± 15 to ± 18 arc min Minimum Focusing Distance: 20 cm (7.9 in.) from end of telescope Water Resistance Rating: IPX6 (protected against powerful water jets)

- **Brass Brunton Pocket Transit Compass**

Made from premium brass, aluminum, glass, and leather

- **Large Mirror Stereoscope with Premium Optics and Prisms**

Optical Tube Length- 3 Inches; Eye Piece Lens Description- Galilean; Objective Lens Diameter- 35 mm; Telescope Mount Description- Azimuth mount

Department of Physics

Sl. No.	Particulars	Specification
1	Experimental Setup To design am modulator and demodulator using transistor	➤ Scope of Learning • To study the process of Amplitude Modulation and Demodulation using transistor. ➤ Features • Standalone system • In-built Carrier signal generator. • In-built message signal generator • Inbuilt modulator and demodulator systems. • 4-mm connector for reliable and robust connections • 12V dual DC power supply • Easy to learn and illustrative study materials • Attractive, durable and insulating wooden casing/metallic casing. ➤ Technical Specifications • On Board DC power supply : 12V DC • Mains power : 230V AC $\pm 10\%$
2	Experimental Setup To study envelope detector for demodulation of AM signal	➤ Scope of Learning • To study the process of Amplitude Modulation and Demodulation using transistor. ➤ Features • Standalone system • In-built Carrier signal generator. • In-built message signal generator • Inbuilt modulator and demodulator systems. • 4-mm connector for reliable and robust connections • 12V dual DC power supply • Easy to learn and illustrative study materials • Attractive, durable and insulating wooden casing/metallic casing. ➤ Technical Specifications • On Board DC power supply : 12V DC • Mains power : 230V AC $\pm 10\%$
3	Experimental Setup To study FM-Generator and Detector circuit.	➤ Scope of Learning • To study the process of Frequency Modulation (FM) and Demodulation. ➤ Features • Standalone system • In-built Carrier signal generator. • In-built message signal generator • Inbuilt modulator and demodulator systems. • 4-mm connector for reliable and robust connections • 12V dual DC power supply

		• Easy to learn and illustrative study materials • Attractive, durable and insulating wooden casing/metallic casing. Technical Specifications • On Board DC power supply : +12V DC • Mains power : 230V AC $\pm 10\%$
4	Experimental Setup To study AM Transmitter and Receiver	Scope of Learning • To study the application of basic logic gates. ➤ Features • Standalone system • In-built stable 3.5 character digital meters • 0-20 V variable power supply • Easy to learn and illustrative study materials • Attractive, durable and insulating wooden casing/metallic casing. ➤ Technical Specifications • Mains power : 230V AC $\pm 10\%$
5	Experimental Setup To study FM Transmitter and Receiver	➤ Scope of Learning • To study the application of basic logic gates. ➤ Features • Standalone system • In-built stable 3.5 character digital meters • 0-20 V variable power supply • Easy to learn and illustrative study materials • Attractive, durable and insulating wooden casing/metallic casing. ➤ Technical Specifications • Mains power : 230V AC $\pm 10\%$
6	Band gap of semiconducting material by Four Probe method	Standard Good quality
7	Band gap using thermistor	Standard Good quality
8	Experimental Set up to verify the law of Malus for plane polarized light.	Standard Good quality
9	Experimental Set up to verify Stefan's law and to determine Stefan's constant by electrical method.	Digital Meters: Digital meter 12V DC., Ammeter 250mA DC., Temperature Meter, Power Supply : DC Supply IC Regulated 0-12V DC, 2A Operated on mains power 230V, 50Hz $\pm 10\%$
10	Experimental Set up to determine the Boltzmann constant using V-I characteristics of PN junction diode.	<u>Digital Meters:</u> Two Digital Meters. <u>Power Supplies:</u>

		Regulated Power Supply, Temperature controller for oven. <u>Components are mounted on the panels are:</u> Sample : PN Diode mounted, Voltage Control through Potentiometer, Thermometer
11	Experimental Setup Verification of Brewster's law and finding of the Brewster's angle.	Standard good quality
12	Spectrometer	INCO Standard spectrometer, least count 20 sec
13	Sodium Vapour Lamp Transformer	ASICO, Scientific kart, Standard
14	Polarizer and analyzer for spectrometer	Standard good quality
15	Laser 5mW with power supply & mounting arrangement	Laser 5mW ,standard quality
16	Digital Storage Oscilloscope	30MHz , Standard quality

Department of Chemistry

DIGITAL POTENTIOMETER

TYPE	High quality precision manual instrument
MESURING MODE & RANGE	Millivolt 0 to $\pm 1999\text{mV}$
RESOLUTION	1mV
POLARITY	Automatic
INPUT IMPENDANCE	10^{11} ohm
POLARIZATION	10 Micro amper for metal to metal electrode
STIRRER	In built stirrer with manual speed control
ACCESSORIES	Platinum electrode reference electrode clamp stirrer magnet
POWER	230 V AC $\pm 10\%$, 50Hz
DISPLY	3(1/2) LED
DIMENSION	235(W) $\times$ 185(D) $\times$ 85 (H) mm
WEIGHT	1.25 KG APPROX.

Digital pH Meter

- pH Range: 0 to 14.00 pH
- mV Range: 0 to ± 1999 mV
- Resolution: 0.01 pH, 1 mV in mV mode
- Repeatability: ± 0.01 pH ± 1 digit; ± 1 mV ± 1 digit
- Slope Correction: 85% to 115%

- **Temperature Compensation: 0 to 100°C (manual)**
- **Display: 3½-digit red LED with automatic polarity & decimal point**
- **Power: 230 V $\pm$ 10%, 50 Hz**
- **Dimensions: 235 × 185 × 85 mm;**
- **Weight: ~1.25 kg**

Included Accessories

- **Combined pH electrode**
- **Electrode stand & clamp**

DIGITAL COLORIMETER, One button press micro controller based colorimeter with Square cuvette

- **Function: % T & OD**
- **Filters: Inbuilt filters, GaN based. 400 420 470 500 530 560 590 620 660 700.**
Selection is done using soft touch keys.
- **Readout: 3 digit LED display for %T & OD 3 digit LED display for Wavelength**
- **Measurement: %T - 0-100%; OD - 0-1.99**
- **Accuracy: %T - $\pm$ 1%; OD - $\pm$ 0.01**
- **Light source: LED of infinite life.**
- **Detector: Photo cell**
- **Cuvette: Square APH cuvette 10 mm path length optiglass window**
- **Power required: 230 V AC $\pm$ 10% 50 Hz, 10 VA**
- **Warning time: 5 minutes**
- **Weight: 1 Kg. (Approx)**
- **Body: NANO Crystalline ABS™**
- **Dimension: 90 mm(H) x 225 mm(W) x 220 mm(L)**
- **Sample quantity: 2ml**
- **Accessories: Square cuvette, Dust proof cover**

100–1000 µl Variable Volume Micropipette;

Volume Range	100 – 1000 µl
Accuracy	±1.8 – 0.8%
Repeatability	≤0.4 – 0.2%
Compatible Tips	<u>C2002V3</u>
Sterilization	Autoclave at 121°C for 20 Minutes

7 Inch Magnetic Hot Plate Stirrer | with LED Digital Display;

Model	MI0102005
Stirring Positions	1
Set-Up Plate Dimen.	Φ185 mm
Max.Stirring Quantity(H₂O) [L]	20
Max. Stirring Bar [L X Φ, mm]	80*Φ9.5
Motor Rating Output[W]:	25
Speed Range [rpm]	50-1500
Safety Temperature [°C]	50-550
Control Accuracy [°C]	±1
Hot Surface Alarm	50°C
Working Ambient Temp. [°C]	5-40
Working Relative Humidity	80%
Protection Class	IP 42
Power[W]	1050
Hot Plate Stirrer Dimen. [W*D*H, inch]	8.6×13.8×3.9

Hot Air Oven;

Standard Laboratory Hot Air Oven Specifications

- **Construction:** Double-walled structure with high-grade stainless steel (SS 304) inner chamber and heavy mild steel (MS) powder-coated outer body.
- **Insulation:** High-density thick glass wool or mineral wool insulation packed between the walls to minimize outer surface heat loss.
- **Temperature Range:** From ambient/50°C up to 250°C or 300°C (precision-engineered typically for routine operating limits around 180°C to 200°C).
- **Temperature Control:** Digital microprocessor-based temperature controller or high-precision hydraulic thermostat accuracy (typically $\pm 1^\circ\text{C}$).
- **Air Circulation:** Built-in motorized heavy-duty blower/fan for uniform and forced hot air distribution across the chamber.
- **Heating Elements:** High-grade imported Kanthal/nichrome wire heaters placed at the sides or bottom.
- **Shelves:** Removable and adjustable wire mesh or perforated stainless steel trays/shelves (usually 2 to 3 shelves depending on volume).
- **Power Supply:** Operates on standard 220V–230V AC, 50Hz single phase.

Litre Capacity	Inner Chamber Size (Inches)	Inner Chamber Size (cm)	Standard Number of Shelves Included
~45 Litres	14" x 14" x 14"	35 x 35 x 35 cm	2

Conductivity meter

- **Manual instrument, convenient for routine analysis**
- **Range : 0 μS – 200 mS**
- **Resolution : 0.1 μS**
- **Temperature : 0 $^\circ\text{C}$ – 100 $^\circ\text{C}$ (Manual)**
- **Readout : 3 digits LED**

Monocular microscope

Feature	Specification
Stand	All-metal rugged stand
Focusing	Individual Coarse & Fine Focus with focus stop
Illumination	Maintenance-free ECO LED with intensity control & battery backup
Power Supply	220V / 50Hz
Condenser	Movable Achromatic 0.90 NA with iris diaphragm
Mechanical Stage	115 x 125 mm, double plate with coaxial XY drive knobs
Nosepiece	Quadruple revolving
Objectives	Achromatic 4x, 10x, 40x (spring), 100x (spring, oil immersion)
Eyepiece	Widefield 10x/18, lockable
Head	45° inclined, 360° rotatable monocular
Accessories	Dust cover, complete set



DEPARTMENT OF ZOOLOGY GUSHKARA MAHAVIDYALAYA

[NAAC Accredited B++ (3rd Cycle) Degree College]
P.O. Gushkara, Dist. Purba Bardhaman, West Bengal - 713128
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Date: 21.08.2026

Instrument Requisition

Sl. No	Particulars	Specifications	Quantity	Price Amount (Approx)
1.	LED Display Auto Deluxe pH Meter	Display Type: 4 Digit LCD; Temperature: 0-100°C; Resolution: 0.01 Ph; Calibration: 2 Points with Auto Buffer Recognition; Measurement Range pH Meter: 0 to 14.00 pH with Buffer solution. (Model No: BR Biochem PHS-3C/ Systronics 361 PH Meter /AQUASOL DIGITAL Table Top PH Meter-AB-T-PH/ similar type.)	1	18,000/-
2.	Hot Plate with Magneto Stirrer	Minimum stirring quantity (water): 2L Remi 2MLH 2Ltr/ similar type	1	15,000/-
3.	Digitally Controlled Rectangular Hot Plate	Plate Size: 25 x 40 cm; Wattage 1500 W;	1	20,000/-
4.	Vertical Autoclave Machine Medical Sterilizer	Product Type: Vertical Autoclave Sterilizer; Material: Stainless Steel (SS 304); Capacity: 40 Liters; Chamber Size 12 x 22 Inches; Temperature Range: 121°C – 134°C; Pressure Range: 15 – 20 PSI; For culture media and glassware sterilization Electric: yes Timer: Yes Chamber/body: SS shell / mixed construction Pressure gauge: Yes Safety valve: Yes + double safety valve Steam release: Yes Vacuum release: Yes	1	15,000/-
5.	BOD INCUBATOR	Application: Microbial culture incubation,	1	40,000/-

		BOD testing, environmental microbiology 100/112 L 5–60°C PID PT-100 refrigerated forced air SS-304 inner 1 shelves independent safety thermostat 230 V 1-year warranty calibration certificate Capacity:100–112 L minimum Temperature range:5°C to 60°C Working temperature:20–37°C continuous operation Temperature accuracy: $\pm 0.5^{\circ}\text{C}$ or better Temperature uniformity: $\pm 1^{\circ}\text{C}$ or better Controller: Digital microprocessor/PID controller; Display Digital: LED/LCD, Resolution: 0.1°C; Sensor: PT-100 RTD Cooling Hermetically sealed, CFC-free refrigeration compressor Heating Tubular/SS heater, approximately 300–500 W Air circulation: Continuous forced-air circulation using low-vibration fan Inner chamber SS 304, corrosion-resistant Outer body: Mild steel, powder-coated Insulation: High-density PUF, preferably 50– 75 mm; Door: single, outer insulated metal + inner glass/acrylic Door gasket: Magnetic/silicone gasket Shelves Minimum 2 adjustable SS/epoxy-coated shelves Temperature safety Independent over- temperature safety thermostat Alarm High/low temperature alarm preferred; Power supply 220–240 V AC, 50 Hz, single phase Data logging USB/data logging preferred but optional at this budget Interior light: LED, optional Mobility: Castor wheels preferred Warranty: Minimum 1 year onsite/parts warranty; Calibration: Calibration certificate		
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		traceable to NABL/ISO 17025 laboratory preferred Installation: Installation and demonstration included		
6.	GOD POD Kit (For quality estimation of Glucose)	Glucose Oxidase (GOD), Peroxidase (POD), 4-Aminoantipyrine (4-AAP / 4-Aminophenazone, Phenol (or derivatives like p-hydroxybenzoic acid), Phosphate Buffer, Sodium Azide (NaN_3) with D-Glucose Standard Standard Solution	5 set	2,500/-
7.	Cardiophonic Stethoscope	Chest Piece: Premium-Grade Titanium, Dual-Sided (29mm); Tubing: Dual Lumen Latex-Free PVC; Headset: Stainless Steel with Adjustable Spring; Ear Tips: Soft-Seal PVC Weight: 170 gms; Warranty: 5 Years (ELKO DEXA III Ti Titanium Stethoscope or H. Mukherji & Banerjee Surgical or similar)	2	5,500/-
8.	Manual / Mercury (Hg) Sphygmomanometers	Manual / Mercury (Hg) Blood Pressure Machine (Diamond Mercurial Blood Pressure Apparatus Wall or ELKO EL-320 Elkometer Deluxe or similar)	2	6000/-
9.	Glucometer	Glucometer with 100 Test Strips & 100 Lancets (Dr. Morepen or Accu Chek or similar)	2	5,000/-
10.	Centrifuge machine	Capacity: 4 tubes $\times$ 15 ml Max Speed: 3500 RPM Max RCF: 1850 g Rotor Type: Swing-out head Power Supply: 220–240 V, 50 Hz, Single Phase Dimensions: Approx. 31 $\times$ 31 $\times$ 29.5 cm (Remi C-852 or C-854/4 Or similar)	1	10,000/-
11.	Homogenizer	Motor power: AC/DC 1/8 HP; Speed: 300-8000 RPM; Voltage Range: 1-50 ml; Material: Stainless Steel; Voltage: 2220-240	1	15,000/-

		V Shaft Diameter 10 mm; Jar Size: 5 mL, 15 mL, 25 mL; Frequency: 50 Hz REMI Lab Homogeniser (1-50 ml, 300-8000 RPM, 1/8 HP) or Similar		
12.	Elisa Test Kit		2	5,000/-
13.	Haemocytometer		5	3,000/-
Total:				1,60,000/-

Head
Department of Zoology



DEPARTMENT OF NUTRITION GUSHKARA MAHAVIDYALAYA

[NAAC Accredited B++ (3rd Cycle) Degree College]
P.O. Gushkara, Dist. Purba Bardhaman, West Bengal - 713128
E-mail: nutritionhons@gushkaramahavidyalaya.ac.in

Date: 21.08.2026

Instrument Requisition

Sl. No	Particulars	Specifications	Quantity	Price Amount (Approx)
1.	LED Display Auto Deluxe pH Meter	Display Type: 4 Digit LCD; Temperature: 0-100°C; Resolution: 0.01 Ph; Calibration: 2 Points with Auto Buffer Recognition; Measurement Range pH Meter: 0 to 14.00 pH with Buffer solution. (Model No: BR Biochem PHS-3C/ Systronics 361 PH Meter /AQUASOL DIGITAL Table Top PH Meter-AB-T-PH/ similar type.)	1	15,500/-
2.	Vertical Autoclave Machine Medical Sterilizer	Product Type: Vertical Autoclave Sterilizer; Material: Stainless Steel (SS 304); Capacity: 40 Liters; Chamber Size 12 x 22 Inches; Temperature Range: 121°C – 134°C; Pressure Range: 15 – 20 PSI; For culture media and glassware sterilization Electric: yes Timer: Yes Chamber/body: SS shell / mixed construction Pressure gauge: Yes Safety valve: Yes + double safety valve Steam release: Yes Vacuum release: Yes	1	15,000/-
3.	BOD INCUBATOR	Application: Microbial culture incubation, BOD testing, environmental microbiology 100/112 L 5–60°C PID PT-100 refrigerated forced air SS-304 inner 1 shelves independent safety thermostat 230 V 1-year warranty calibration certificate	1	35,000/-

		Capacity:100–112 L minimum Temperature range:5°C to 60°C Working temperature:20–37°C continuous operation Temperature accuracy: $\pm 0.5^{\circ}\text{C}$ or better Temperature uniformity: $\pm 1^{\circ}\text{C}$ or better Controller: Digital microprocessor/PID controller; Display Digital: LED/LCD, Resolution: 0.1°C; Sensor: PT-100 RTD Cooling Hermetically sealed, CFC-free refrigeration compressor Heating Tubular/SS heater, approximately 300–500 W Air circulation: Continuous forced-air circulation using low-vibration fan Inner chamber SS 304, corrosion-resistant Outer body: Mild steel, powder-coated Insulation: High-density PUF, preferably 50–75 mm; Door: single, outer insulated metal + inner glass/acrylic Door gasket: Magnetic/silicone gasket Shelves Minimum 2 adjustable SS/epoxy-coated shelves Temperature safety Independent over-temperature safety thermostat Alarm High/low temperature alarm preferred; Power supply 220–240 V AC, 50 Hz, single phase Data logging USB/data logging preferred but optional at this budget Interior light: LED, optional Mobility: Castor wheels preferred Warranty: Minimum 1 year onsite/parts warranty; Calibration: Calibration certificate traceable to NABL/ISO 17025 laboratory preferred Installation: Installation and demonstration included		
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4.	Laminar Air Flow	Vertical Laminar Air Flow Working size Approx. 2 ft × 2 ft × 2 ft (1200 × 600 × 600 mm) Airflow Unidirectional, vertical airflow Air velocity 0.45 ± 0.05 m/s (≈90 FPM) HEPA filter 99.97% efficiency at 0.3 μm Pre-filter Washable/reusable, typically 90–95% efficiency Air cleanliness ISO Class 5 / Class 100 working zone Blower Low-noise centrifugal blower Work surface SS 304 stainless steel Cabinet Powder-coated CRCA steel or SS 304 UV lamp 15–30 W, with safety interlock preferred Fluorescent/LED light ≥500 lux Noise level Preferably ≤65 dB Electrical supply 220–240 V, 50 Hz, single phase Socket 5/15 A or suitable laboratory-grade socket Manometer Differential pressure gauge for HEPA filter Recommended feature Front sash, airflow indicator, UV timer/interlock Certification Factory test certificate; preferably HEPA integrity/leak test certificate		49,000/-
5.	Monocular Microscope	Magnus HM-100 Mag Master Monocular Student Microscope with light or similar Metal Body, Lens: 4X, 10X, 40X, 100X Condenser: NA 0.65/ 0.90; Noise Pieces: Quadruple (4x)	1	15,000/-
6.	Muffle Furnace	Material Loading Capacity: 1000 kg Max Temperature (C): 900-1000-degree C Size: 150 x 150 x 300mm. (5" x 5" x10") or higher Type: Laboratory use	1	19,000/-

		Temperature Accuracy: +/- 1 deg C Working temperature: 1200-degree C Power: Electric		
7.	Desiccator	Desiccator – Specification Type: Vacuum Desiccator Material: Borosilicate glass Diameter: 20CM Plate: Porcelain perforated plate Lid: Ground-glass, airtight lid Stopcock: Vacuum stopcock Desiccant: Silica gel Use: For drying and storing moisture-sensitive samples and obtaining constant weight.	1	4,000/-
8.	Cardio phonic Stethoscope	Chest Piece: Premium-Grade Titanium, Dual-Sided (29mm); Tubing: Dual Lumen Latex-Free PVC; Headset: Stainless Steel with Adjustable Spring; Ear Tips: Soft-Seal PVC Weight: 170 gms; Warranty: 5 Years (ELKO DEXA III Ti Titanium Stethoscope or H. Mukherji & Banerjee Surgical or similar)	1	2,500/-
9.	Glucometer	Glucometer with 50 Test Strips & 50 Lancets (Dr. Morepen or Accu Chek or similar)	2	2,500/-
10.	Elisa Test Kit		1	2,500/-
Total:				1,60,000/ -

Head
Department of Nutrition