

OFFICE OF THE PRINCIPAL,
GOVERNMENT AUTONOMOUS COLLEGE, PHULBANI

Email ID- govtcollegephulbani@gmail.com / website:- www. govtcollegephulbani.org

Letter No. 2779

Date: - 13.12.2024

TENDER CALL NOTICE

Sealed tenders are invited in 2 bid-system (Department wise to be super scribed) from interested reputed registered firms / authorized suppliers having valid up-to-date GST/IT clearance for supply of Laboratory Equipment of reputed make so as to reach the undersigned by Registered Post/ Speed Post/courier service/by hand only on or before 30.12.2024 by 05.00 PM positively for consideration. The authority reserves the right to cancel the tender in whole or part without assigning any reason thereof.

For details, visit the College website: <https://www.govtcollegephulbani.org>

Principal
Government Autonomous College
Phulbani
Govt. Auto. College, Phulbani
13.12.24

13/12/24

DETAILS OF TENDER CALL NOTICE

1. Schedule of Tender

Tender No	002/13.12.2024
Name of the Tender Issuer	Principal, Government Autonomous College, Phulbani
Scope of work	Supply of Laboratory Equipment (For UG and PG) <u>Department wise:-</u> 1. Physics 2. Chemistry 3. Anthropology 4. Botany 5. Zoology 6. Education 7. Geography 8. Environmental Science 9. Psychology Supply of Laboratory Equipment Technical Bid and Financial Bid as per Annexure-II & Annexure-III
Last date and time for Submission of bids	30.12.2024, 5.00 PM
Date and time for opening of bids (Technical Bids)	03.01.2025, 11.00 AM
Date and time for opening of bids (Financial Bids)	03.01.2025, 03.00 PM
Name of the contact person for communication	Dr. Girish Chandra Nayak
Contact number of the concerned person	+91 - 8908077158
Address for communication	Principal, Government Autonomous College, Phulbani, Dist: Kandhamal, Odisha, Pin-762001
Cover containing tender should be super scribed	Tender for supply of Laboratory Equipment <u>Department wise (For UG and PG)</u> 1. Physics 2. Chemistry 3. Anthropology 4. Botany 5. Zoology 6. Education 7. Geography 8. Environmental Science 9. Psychology

Address for delivery of Laboratory Equipment	At the respective Departments, Government Autonomous College, Phulbani, Dist- Kandhamal, Odisha, Pin-762001
Mandatory Submission <ul style="list-style-type: none"> • Tender Application form • Technical Bid • Financial Bid • Self-declaration for not being black listed 	<ul style="list-style-type: none"> • Annexure-I • Annexure- II • Annexure- III • Annexure-IV

2. Bidders Eligibility/Criteria

- Bidder must be a Authorized Supplier/ Dealer of supplying Laboratory Equipment. (Necessary certificate to this effect must be enclosed)
- The bidder must have a valid GSTIN for Laboratory Equipment.
- The bidder must have PAN allotted by the Income tax Department.
- The bidder must have cleared GST& Income Tax Payment up to 31.03.2024 & attested copies of GST clearance certificate from the concerned Dept. & attested copies of Income Tax return certificate from the competent authority up to 31.03.2024 must be enclosed along with documents.

Bidding Procedure (Two Bid System):-

Department wise Technical bid for each department such as Physics, Chemistry, Anthropology, Botany, Zoology, Education, Geography and Env. Science having all technical details along with Commercial terms & conditions.

- Financial bid indicating item wise **unit cost inclusive of GST, other taxes if any, charge for installation and commissioning and all other charges** for each department such as Physics, Chemistry, Anthropology, Botany, Zoology, Education, Geography, Psychology and Env. Science for the items mentioned in the technical bid.
- The successful bidders must bring the Equipment to Government Autonomous College, Phulbani at their own cost and complete the installation and commissioning of the equipment at their own cost.
- Technical bid & financial bid should be sealed in separate covers duly super-scribed as “Technical bid for supply & installation of Laboratory Equipment for Dept. of _____” and Financial bid

for Dept. of _____.

- (d) Each page of technical and financial bids must be signed by the bidder. Technical bid shall be opened at the first instance and evaluated by technical committee. At the second stage, financial bids of only technically qualified bidders shall be opened for financial evaluation and ranking to issue the supply order.

(3) Procedure for submission of two bids system:-

Bid should be submitted **item wise (for each department)** in two envelopes as mentioned below :

Sealed Envelope– 2 (General Eligibility Documents)

- (a) Tender application form(As per Annexure–I)
- (b) Technical bid form (As per Annexure–II) duly filled
- (c) Tender Notice for supply of Laboratory Equipment.
- (d) Single Non Refundable Tender paper cost of Rs.1000/- drawn in any nationalized bank in favour of Principal, Government Autonomous College, Phulbani payable at Phulbani
- (e) Single EMD of Rs. 2000/- in form of Demand draft from any Nationalized bank drawn in favour of Principal, Government Autonomous College, Phulbani payable at Phulbani.
- (d) Self attested copy of GST registration.
- (e) Self attested copy of PAN Card.
- (f) Self attested copy of Income tax return filing for last three years.
- (f) Self declaration for not being blacklisted.(As per Annexure–IV)
- (g) Authorization letter from the manufacturer.
- (h) Self attested copy of Bank details.

Sealed Envelope–3.(Department wise Technical Bid)

- (a) Technical bid form (As per Annexure–II) duly filled For UG & PG.
- (b) Authorization letter from the manufacturer.

Sealed Envelope–4 Department wise Financial Bid duly sealed should contain.

- (a) Financial bid form (As per Annexure–III) duly filled. for UG&PG
- (b) The supplier should quote the unit cost item wise (for each department) inclusive of all expenses, charges, taxes, duties, transportation, packing & forwarding, insurance etc.
- (c) The rate in both words and figures without any correction or overwriting should be quoted in financial bid.

(4) General Terms & Conditions.

- 1. Documents mentioned to be kept in Envelope No-2 must be mandatorily submitted by the bidder to qualify for the bidding process.
- 2. Bidders can participate in the bidding for more than one department with single Tender Cost and Single EMD.
- 3. Each bidder will have to provide single set of documents as mentioned to be kept in Envelope No-2 but separate Technical Bid (Envelope -3) and Financial bid (Envelope-4) for each departments.
- 4. Bidders must have valid GST/ Service Tax registration/ PAN with proven track record for supply of Laboratory Equipment.
- 5. Bidders should send their tender through Registered Post/ Speed Post/ courier/ by hand only. No other mode will be accepted.
- 6. The College is not responsible for non-receipt of tender within specified date and time due to any reason including postal delay on holidays.
- 7. Bids submitted without supporting documents, bare or incomplete in any aspect is liable for rejection.
- 8. The bidders should sign on each page of the tender and submit self-attested copies of the required documents.
- 9. Any delay in the supply and installation of the said items within the specified period, the concerned firms/ suppliers shall be held responsible and the authority reserves the right to cancel the order.
- 10. The quantity of items to be procured may vary at the time of placing

Purchase Order.

11. Quoting merely the lowest price doesn't confer the right to any bidder for the award of supply order. The Purchase Committee reserves the right to select the item of any bid on the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service back up support and training, offer of additional features, and any other relevant features.
12. Each item should be strictly as per the specification. The College reserves the right to reject the item in case any deviation from the desired norm.
13. Installation and successful demonstration of the item in the respective department is obligatory and it should be free of cost at Government Autonomous College, Phulbani.
14. If any item covered under warranty fails, the same shall be replaced completely free of cost without any additional charges whatsoever.
15. The complete delivery of goods, installation and commissioning of the items should be made within 10 days from the date of issue of supply order.
16. The total amount of the item should be inclusive of all taxes and statutory levies, labour cost, installation charges, packing, insurance, freight etc.
17. The item included in the list is tentative and may not be procured while ordering which is the sole discretion of Principal.
18. The successful bidder with quoted price as approved by the College shall be considered for issue of purchase order only when the bidder fulfills all the terms and conditions laid down in tender documents.
19. All the tenders will be evaluated and compared on the basis of the following order.
 - a. Compliance with instructions/General conditions of the tender.
 - b. Conformity with specifications.
 - c. Authorization letter from manufacturer

- d. Guarantee/Warranty/Expiry Period.
 - e. Quality.
 - f. Price.
 - g. Post sales service
20. Following documents should accompany with tender.
- a. Tender application along with Annexure–I to IV duly completed & signed.
 - b. Specifications and rate as per our format
 - c. Self Attested Copy of GST/registration.
 - d. Self Attested Copy of PAN Card.
 - e. Three year Income tax returns(2021-22 ,2022-23 and 2023-24)
 - f. Self declaration for not being blacklisted.
 - g. Authorization letter from manufacturer.
 - h. Self Attested Copy of Bank details/Cancelled Cheque.
21. The vendor shall adhere to the time line provided by the College.
22. In the event of any loss, damage, breakage or leakage or any shortage, the bidder shall be liable to bear such loss and shortage found at the checking/ inspection of the supplied instrument. No extra cost on such account shall be admissible.
23. A copy of recent catalogue of supplied items is to be submitted along with triplicate copies of bills/ invoices. Internet price proof shall not be accepted under any circumstances.
24. In case of any error or omission, decision of the college authority is final and binding.
25. Supplied items, if any found damaged/ lost are liable to be replaced by the supplier before receiving final payment.
26. Process of the supplied items charged in the bills / invoices are subject to recovery of any excess found later on.
27. Copies of the way bills used should be submitted while supplying the goods.

28. Any loss caused to the institute due to any wrong calculations / claims will be recovered from the supplier at any time.
29. Warrantee period & after sale service conditions etc. are also to be clearly indicated. No advance money will be paid to the selected firm.
30. Bills for final payment to the selected firm will be made after supply of all the articles in order list, submission of requisite document & complete verification by the post purchase committee.
31. Any dispute arising shall be subject to the jurisdiction of Phulbani, Kandhamal Court only.
32. Any corrections/ corrigendum will be given in our Official website i.e. <https://www.govtcollegephulbani.org>. Please visit College website regularly for any information up date.
33. The authority reserves the right to accept or reject the tenders in whole or part without assigning any reasons thereof.
34. In case of any doubt/difference of opinion arising during bidding process, the decision of the authority is final and binding.

Principal

To,
The Principal,
Govt. Autonomous College,
Phulbani

Sir,

With reference to your Notice reference NO. 002/ dt. 13.12.2024, I am hereby submitting my tender for the supply of Laboratory Equipment accepting the terms and conditions mentioned in the tender document.

1.	Name of the Bidder/Company name	
2.	Full Postal Address	
3.	Telephone Nos/Mobile Nos/ Fax Nos.	
4.	E-mail ID	
5.	PAN No.	
6.	GST No.	
8.	Bank Details	

Undertaking:-

- (1) I certify that I have gone through the terms and conditions mentioned in the bidding document and undertake to comply them.
The rates quoted by me are valid and binding upon me for the entire validity period and it is certified that the rates quoted are minimum and rational as per existing market rate.
- (2) I hereby undertake to execute the work / supply order as per direction given in the tender document within stipulated period.

(Signature of the Bidder)

Date:
Place:

Name:-
Designation:-
Registration No. of supplier/Bidder

(Official seal of the Firm)

TECHNICAL BID

(Should be submitted in a sealed envelope separately & super-scribing on the envelope Department wise as "Technical Bid")

Department:-

Sl. No	Item with Specification	Brand Name & Model No	Warranty/ Guaranty period	Remarks
1.				
2.				
3.				

**Signature of the Bidder
(with Seal)**

FINANCIAL BID

(To be enclosed in separate sealed cover & super-scribed on the envelope Department wise as “Financial bid”)

Department:- _____

Sl. No	Item with Specification	Brand Name & Model No	Unit Cost inclusive of GST & all Other costs & charges	Remarks
1	2	3	4	5
01				
02				
03				

**Signature of the Bidder
(with Seal)**

SELF DECLARATION FOR NOT BLACKLISTED

To

**The Principal,
Government Autonomous College,
Phulbani.**

Ref: Tender No.002/Dt.13.12.2024

Madam / Sir,

I/we _____ hereby confirm
that our firm has not been banned or black listed by any Government Organization /
Financial Institution / Court / Public Sector / Private Sector / State Govt. / Central Govt.

Place:

Date:

**Signature of the Bidder
(with seal)**

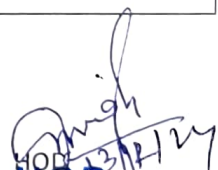
CHECK LIST

- 1) Large Envelop No-1 containing the following small envelopes
 - (a) Envelope No-2 containing the following General documents
 - * TENDER DOCUMENT (Annexure-I)
 - * EMD in the form DD drawn in any nationalized bank in favour of Principal, Government Autonomous College, Phulbani payable at Phulbani.
 - * Demand draft drawn in any nationalized bank in favour of Principal, Government Autonomous College, Phulbani payable at Phulbani for tender paper cost
 - * PAN
 - * GST
 - * ITR
 - * Self declaration Annexure-IV
 - (b) Sealed Envelope no-3 (Technical Bid Annexure-II for each dept.) super-scribed with dept. name.
 - (c) Sealed Envelope-4 (Financial Bid Annexure-III for each dept.) super-scribed with dept. name.

DEPARTMENT OF ANTHROPOLOGY
GOVT. AUTO. COLLEGE, PHULBANI
LABORATORY EQUIPMENT LIST

DATE-13.12.2024

Sl. No	Name of the equipment	Quantity	Specification
1	Anthropometric rod	02	Biocraft for height measurement
2	Portable digital spirometer	01	Hand-held Spirometer Brand- Contec Model Name/No-sp10 Mode- automatic
3	Total Body Fat Analyser	01	Item Type: Body Fat Monitors, Material: ABS, Commodity Quality Certification: 3C, Model Number: Body Fat Caliper, Unit Type: piece, Package Weight: , Package Size:
4	Sliding calliper	05	Biocraft
5	Spreading calliper with pointed end	05	Biocraft
6	Human skeleton set	1 set	Fibre make
7	Human skull	05	Fibre make
8	Mandible	05	Fibre make
9.	Clavicle	05	Fibre make
10.	Scapula	05	Fibre make
11	Humerus	05	Fibre make
12	Ulna	05	Fibre make
13	Radius	05	Fibre make
14	Femur	05	Fibre make
15	Tibia	05	Fibre make
16	Fibula	05	Fibre make
17	Human vertebrae	05	Fibre make
18	Bioelectric impedance	01	Bioelectrical Impedance Analysis (BIA) is able to make an estimation of <u>body composition</u> (e.g. quantities of fat mass and fat-free mass) by running a small electrical current through the body. This is possible simply because different bodily tissues (e.g. muscle, fat, bone, etc.) all have varying amounts of water content, and, as a result, they all differ in terms of electrical conductivity.
19	Ischihara colour blindness test chart	01	colour blindness test


 HOD
 Department of Anthropology
 Govt. (Auto.) College
 Phulbani

GOVT. AUTONOMOUS COLLEGE, PHULBANI

DEPARTMENT OF BOTANY

List of Equipments

Sl No.	Name of the Equipments	Specification
1.	Bacteriological Incubator	Type of Incubator: Bacteriological Incubator Capacity in liters: 48 Material of Outer Chamber, Mild steel furnished with epoxy powder coating. Ambient Temperature in °C: 5° C to 60°C and ± 1° C. Temperature Accuracy in °C: ±0.5°C, Temperature Uniformity in °C: ≤ ± 0.5 °C at 37°C. Insulation: 75 mm Puff Insulation, Controller: Microprocessor based PID control, Digital Display of temperature in °C: Yes, Type of Display: LED, Type of Temperature sensor: PT100, Power supply: 220 V , 50 Hz Single Phase, Door: Metal door with locking arrangement, Type of Shelves: Fixed, Material of Shelves: Stainless Steel Perforated Tray/Shalve, Number of shelves: 2, Size of incubator (L x W x H) in mm x mm x mm: 500X400X400 (mm), Weight in kgs:40. Over temperature protection: Yes, Safety alarm system: Yes, Warranty in Years: 3 years
2.	Magnetic Stirrer	Number of stirring Positions: 1 Calibration: Manual Calibration Type of Drive Motor: Brushless Motor DC, Display Option/Output Read out Option: Digital Magnetic stirrer is: with a hot plate for heating the liquid Magnetic stirrer Type: variable speed Controller type: Microprocessor controlled IP rating or Ingress protection rating: 21, Speed Control Accuracy of set speed (+/-) (RPM): 1 Maximum Stirring capacity per position: 2 milliliter Top plate Material: Stainless steel User Interface: Digital Front Panel Warranty on Machine: 3 year In built-in multi-step safety system to continuously monitor device operation and protect against damage should the operation exceed the pre-determined parameters: Unsafe Hotplate Temperature – Temperatures exceed safety Parameters Speed Mode: Variable Speed

		External Dimension: Depth: 200 millimeter Body Material: Mild Steel Top plate Finish: PTFE coated
3.	Colony Counter	Counter: 4 digits (9999 counts) resettable digital counter with audio beep at every count Power: 12W Accuracy: 99.9%, Accessories: Marking Pen, Magnifying Lens, Lens Holder, Operation Manual and Dust Cover, Magnification: 100 mm diameter Magnifying Lens, Material: Stainless steel, Probe: Auto Marker Per probe for marking and counting simultaneously, Counter: 4 digits (9999 counts) resettable digital counter with audio beep at every count, Voltage: 220/230V (+/- 10%)AC,50/60 Hz, Disch Diameter: 115 millimeter, Illumination: Uniform glare free illumination by cool fluorescent tube light, Display: Digital LED Warranty: 3 year
4.	Hot Air Oven	Minimum Capacity: 330 liter, Hot Air Circulation: One path (in between the inner chamber and insulation), Maximum Temperature (degree Celsius): Upto 350, Coating of Outer Chamber: Stoving Enamel, Width: 650 millimeter, Maximum Capacity: 10000 liter, PID Micro Processor Temperature Controller Display: Dual, Motorized blower: Move away forced air, No. of Inner Trays: 2, Working Temperature Range: 250 degree Celsius, Insulation: Glass wool, PID Micro Processor Temperature Controller Sensitivity (degree Celsius): +/- 1, PID Micro Processor Temperature Controller Range:250 degree Celsius, Digital Timer: RS485 Port, Length: 650 millimeter, Material of Outer Chamber: Mild Steel No. of Inner Trays: 2 Warranty: 3 year, Height: 650 millimeter, Coating of Inner trays: Nichol plated, Design of Inner trays: Adjustable Wires Mesh, Material of Inner Chamber: Stainless Steel

D. Saha
18/12/24

HOD, Botany

D. Saha
18/12/24

HOD
Botany
Govt. (Auto) College,
Phulbani

Accounts
 Sent to
 Principal
 12/12/24
 The Principal
 Govt. (Auto) College Phulbani

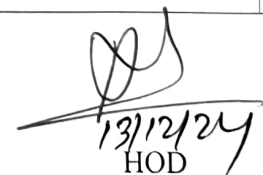
Total
 09 Deals

Sub- Purchase of Lab equipment for the department of chemistry

Sir,

As per the resolution adopted in the meeting of HODs and OIC held on 05.12.2024, I submit herewith the list and name of the lab equipment with specifications required for the department of chemistry.

SL. No	Name of the Instrument	Specification	Quantity
1	UV-Visible Spectrophotometer	Light Source: Halogen Lamp, Deuterium Lamp Diffraction Grating (lines/mm): 1200 Type of Spectrophotometer: UV - VISIBLE Type of Optical System: Single Beam Monochromator Type: Holographic Grating Detector Type: Photodiode Spectral Bandwidth Type: Fixed Bandwidth Wavelength Range: 200-1000 nm Resolution: 1 nanometre Accuracy: ± 1 nm Bandwidth (nm): 2.0 Photometric measurement modes: Transmittance, Absorbance, Concentration (Wavelength, time) Photometric Accuracy: ± 0.005 Abs at 1 .0 Abs Sample Holder: 4 positions 10 mm Cuvette Holder Display: In-built display Display type: LED Onsite Warranty 1 year	1 no


 13/12/24
 HOD
 Department of Chemistry

Department of Education
Laboratory Equipment List

Sl.No	Name of the equipment	Specification	Quantity
1	Desktop	13 th Gen Intel Core i5-1335U, 23.8 INCH (60.5 cm), FHD, Anti-glare, 8 GB DDR4, 512 GB M.2SSD, 510SP White Wireess Keyboard and Mouse Combo, Windows 11, Shell White. All in one	1
2	UPS	1500 VA Line Interactive UPS	1
3	Emotional intelligence inventory	SK Mangal & Shubhra mangal, age-16+, medium-English	1
4	Multiple intelligence scale	Surbhi agrawal & Suraksha Pal, age-14-18, medium- english	1
5	Non-verbal group intelligence test	AO Imtisingba, age-12-19, medium- english	1
6	Test of general intelligence	KS mishra & SK pal, age-16+, medium-english	1
7	Critical thinking scale(CTS)	Hemant lata Sharma & priyamvada, age-14-18,	1
8	Language creativity test(LCT)	SP malhotra & Sucheta kumara, age-12-22,	1
9	Productive thinking scale(PTS)	Anu balhara & Priya mittal	1
10	Dimensional personality inventory	Mahesh Bhargava, age-12+, medium-english	1
11	Big five personality inventory	A.K Singh & Ashok kumar, age-20-38, medium- english	1
12	Adjustment inventory for college student	AKP sinha & RP singh, age-16+, medium-english	1
13	Globe	Globe hub 16inch height,12inch diameter with monuments educational world globe with 75mm magnifying glass desk	2
14	World map	Geographical map 40*30inch	1

15	India map	Geographical map 40*30inch	1
16	World Atlas	Dimensions: 27.7*1*21.4, medium: English	1
17	India Atlas	Dimension:20.3*25.4*4.7 cm, medium :English	1
18	Problem solving ability test	Sushma talesara and farzana isfan, medlum-english, age-14+	1
19	Teaching aptitude test battery	R.P Singh & S.N Sharma, medium-english, age-15+	1

(Signature)
Head of Department

Education

DEPARTMENT OF ENVIRONMENTAL SCIENCE

List of Equipment

Sl. No.	Name of the equipment	Specification	Quantity	Remark
1	Weighing Balance	Capacity 220g; Stabilization time: 2.0s; Repeatability(max): 0.1mg; Repeatability(5% max): 0.09mg; Linearity Deviation: ± 0.2 mg; Readability: 0.0001g; Minimum weight ($u=15, k=2$): 14 mg; Minimum weight (USP): 140 mg; Digital Display: LCD (backlit), Weighing Chamber: 3 glass sliding door system, weighing Pan size: 100 mm dia; Internal auto calibration, Levelling: manual through bubble; built in interface: 02 no.s of RS 232, USB-A, USB-B; Database Management: 10 users, 1000 products, 1000,000 weighing records can be stored in memory, GMP & GLP: GMP and GLP compliance, Additional Features: Peak load, statistics, density, underhook weighing, auto test, totalizing, Newton Unit measurement. Warranty: 1 year	01	
2.	Sound Level Meter	Power Source: Alkaline Batteries, Minimum level of noise/sound Measuring: 30dB; Maximum level of noise/sound Measuring: 130 dB, Resolution (dB): 0.1, Portable Wireless Printer (optional), Display LCD, In built interface (USB/RS 232) for data transfer, Warranty: 1 year	01	
3.	Autoclave	Sterilizer chamber capacity (usable volume): 15 - 25 L; Sterilizer Chamber Type: SS 304 Circular; Working Pressure range: 5-20 psi, Door sealing: By neoprene Rubber Gasket; Working Temperature Range: 120 °C approx.; Manual Water Filling & Removal; Warranty 1 year, Compliance of Chamber EN 13445 norms, ISO Quality assured.	01	

Note. Procurement of equipment subject to availability of fund (allocated to the department)


 Head of the Department
HOD

Department of Environmental Science
 Government Autonomous College, Phulubani

Department of Geography


Name of the item with Cnt.	Specifications
1 HP Desktop(01nos.)	<p>General</p> <p>Model Name -24-cb1907in</p> <p>Series -All-in-One</p> <p>Part Number -79U84PA</p> <p>Colour-Jet black</p> <p>Brand-HP</p> <p>System Features</p> <p>Cache Memory-12 MB</p> <p>Processor Name-Core i5</p> <p>Processor Brand-Intel</p> <p>Processor Frequency-Base Frequency 3.3 GHz, Max Boost Upto 4.4 GHz</p> <p>Operating System-Windows 11 Home</p> <p>Processor Model-Core i5</p> <p>Memory</p> <p>Memory Speed-3200 MHz mt/s</p> <p>Memory Slots-2</p> <p>System Memory-8 GB DDR4</p> <p>Memory Detail-DDR4</p> <p>Display Size-23.8 Inch</p> <p>Full HD-Yes</p> <p>Display Resolution-1920 x 1080 Pixel</p> <p>Display Type-Full HD</p> <p>Other Display features</p> <p>Full HD, VA, Three-Sided Micro-Edge, Anti-Glare, 250 Nits, 72% NTSC</p>
2 ETREX 10 GPS Device (Yellow)(01nos.)	<p>Display</p> <p>Display Type-TFT</p> <p>Display Size-2.2 inch</p> <p>Resolution-128x160 pixels</p> <p>Dimensions</p> <p>Width-54 mm</p> <p>Height-103 mm</p> <p>Depth-33 mm</p> <p>Weight-142 g</p>
3 Scientific Calculator(30nos.)	Casio FX-350MS,2nd Gen Non-Programmable Scientific Calculator,240Functions.(Rs.585/Pc.)
4 UPS	<p>Intex UPS Protector 725 ,Line interactive</p> <p>Output power Wattage-360 W</p> <p>Input Voltage -230V,Output Voltage-230V</p> <p>Input and Output Frequency-50Hz</p>
5 Hard Disk Drive	WD,HDD.2TB External Hard Disk Drive

[Signature]
13/11/24

[Signature]
HABO
Dept of Geography
Govt Autonomous College
Phulbari

Department of Physics
Equipment technical Specification

Sl. No.	Expt. Name	Tech. Specification	Qty.	Price (Rs)
1	To determine the Hall coefficient of a semiconductor sample	<p>CONSTANT CURRENT SOURCE-Current: 0-20 mA DC, Resolution: 1C micro amperes, Power: 220V \pm 10%, 50 Hz AC, Display: 3½ digit LED, Weight: 3 Kg approx.POWER SUPPLY-Voltage: 0-16V DC continuously variable & stabilized, Voltage display: 3½ digit LED, Ripple: Less than 25mV, Overload: Current limiting protection, Current: 5 A continuously variable, 10% to full rating, Current display: 3½ digit LED, Working voltage: 230V AC, 50 Hz single phase,DIGITAL GAUSS METER-Range: 200 Gauss & 2 k Gauss, Resolution: 0.1Gauss at 0 - 200 Gauss, offset: By Potentiometer to set ZERO, Input Voltage: 220 V, \pm 5 %, 50 Hz AC, Axial Hall Probe: InAs, Display: 3½ Digit LED, HALL EFFECT APPARATUS-Coils: 400 turns., Coil Current: 4.5Amp (Max.), Connection: 4mm safety socket .U Core: 150x130mm (LxH), 40x40mm cross section., I Core: Length=150mm, 40x40mm cross section. Core material: Ferromagnetic., Base dimension: 360x180x 33mm, Weight: 8.8kg (Approx.)</p> <p>GE CRYSTAL PCB-Crystal: Ge Wafer, P type, Crystal Size: 6x7 x 0.5mm (LxWxT), Resistivity: 1~ 10 ohm-cm, Orientation: <100>, Offset pot: Trim pot, Connection: 4mm safety socketCE & ISO Certified Company</p>	1	
2	J By calorimeter	<p>DC Power Supply-Voltage Range: 1.5V-12V, Current Range: 3A, Joules Colorimeter Apparatus, Analog Voltmeter-Range:0-20V, Display: Analog (Moving Coil), Panel, Size: Square 70mm x 60mm (Lx W), Analog Ammeter-Range: 0-20A, Display: Analog (Moving Coil), Panel,Size: Square 70mm x 60mm (Lx W), Rheostat,Contact: Spring loaded copper blades,Connecting Lead, Thermometers (1/10°C)</p>	1	
Total			2	


 for HoD, Physics
 13/12/2024

PSYCHOLOGY DEPARTMENT
GOVT. AUTONOMOUS COLLEGE, PHULBANI
EQUIPMENTS REQUIRED FOR DEPARTMENT

SL No.	Name of the Equipment	Specifications	Unit Price	Required No.	Remark
1	Tachistoscope	Digital or Manual Tachistoscope Suitable for laboratory and classroom environments. Designed for experimental psychology studies, including perception, attention, and cognitive processing.			
2	Mirror-drawing Apparatus	Manual or Digital Designed for experimental psychology studies, including motor learning, cognitive coordination, and skill acquisition. Suitable for laboratory and classroom environments High-quality mirror with distortion-free reflection. Adjustable drawing surface size: Minimum A4 size compatibility.			
3	Metronome	Digital or Mechanical Metronome. Designed for experimental psychology studies, including attention, coordination, and rhythm perception experiments. Suitable for laboratory and classroom environments			
4	Aesthestometer	Mechanical or Digital Aesthesiometer. Purpose: Designed for experimental psychology studies, including tactile sensitivity and two-point discrimination testing. Device used to measure sensation. Suitable for laboratory and classroom environments.			
5	Stopwatch	Digital Stopwatch. Designed for experimental psychology studies, including reaction time measurement and time-bound tasks. Suitable for laboratory and classroom environments.			
Total					Rs111,800

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PROPOSAL

List of Equipment/Instruments

Sl. No.	Instruments/ Infrastructures	Specification	Make
1	Double distillation unit (Glass)	Glass Horizontal with quartz element and with cut of device 1.5 to 2 ltr per	Borosil/JSW/Any reputed brand
2	Stereo/ Dissecting/ Microscope (Electronic)	Magnification-20x – 40x.; Observation Binocular inclined at 45°, Rotatable 360°.; Focusing-Rack & pinion with extra-large knobs and slip clutch Mechanism with safety stop.; Illumination-Stand provides both incident and transmitted light with all electrical and transformers built inside base having 6V – 20W lamps. Eye Pieces-Extra Wide field 10x.	Olympus/Zeiss or any reputed brand
3	Highspeed laboratory centrifuge (Temperature Controlled-Optional)	Type of Motor-With Carbon Brushless Type of lid lock-Electronic lid locking with automatic lid opening at end of run No of acceleration and deceleration profiles in built for rotor speed while automatic braking- Acceleration and Deceleration Profile-9/10 Configuration of Rotor supplied with centrifuge machine-swing out or angle rotor Rotors for 0.2/2.0 and 5 mL. RPM->16000.	Ependroff/Thermo Fisher/REMI/Sigma or any other reputed brand
4	Thermocycler (Gradient-Optional)	Temp. range 4~99.9°C Sample capacity 96x0.2ml Max. heating rate 4.5°C/s Maxi. cooling rate 3.5 °C/s	iGene/Himedia/Qaigen/Biorad/Thermo Fisher or any other reputed brand

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		Temp. uniformity $\pm 0.25^{\circ}\text{C}$ Temp. accuracy $\pm 0.20^{\circ}\text{C}$ Temp. display resolution 0.1°C Temp. control method Block/Tube Gradient temp. uniformity $\pm 0.3^{\circ}\text{C}$ Gradient temp. accuracy $\pm 0.3^{\circ}\text{C}$ Gradient temp. range $30-99.9^{\circ}\text{C}$ Gradient temp. difference range $0.1-30^{\circ}\text{C}$ Single step time range 1~59m59s (0 is forever)	
5	UV Transilluminator	UV Wavelength (nm) (nm)-365 Type of illuminator- Benchtop Type Intensity control - High/Medium/Low-Yes Cooling system by fan air cooling Warranty (years)-3 Input Voltage-V (V)230 Selection of Intensity Single Intensity Weight of equipment, kg (kg)-7.5 UV safety screen-Yes No. of UV Tubes- (Nos)-8 Application Range-To view DNA/RNA migration on the agarose gel in microbiology laboratory Wavelength type-Single UV Tube wattage (W)8	iGene/ LABY ^R /Qaigen/Biorad/Thermo Fisher or any other reputed brand
6	Microwave Oven	24 L Solo Microwave Oven	IFB/LG/Samsung or any other reputed brand
7	Ice Maker Machine	Ice flakes for molecular biology experiments. 9 bullets per 6 mins.	Kilig/AGARO regency/Labman/ or any other reputed brand
8	Autoclave (steam sterilization)	Double walled vertical autoclave. (Min-3ft)	Tuttnaure/or any other reputed brand
9	Incubator cum Shaker	Range of Temperature-5 degree centigrade to 60 degrees centigrade or more Type of Display-LCD	Thermo Fisher/REMI or Any reputed brand

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		Type of speed control-Step Orbital shaking amplitude in mm-25 mm Type of flask which can be accommodated-250 ml No of clamps for 100 ml flask to be supplied with system-18 No of clamps for 250 ml flask to be supplied with system-10 No of clamps for 500 ml flask to be supplied with system-6 No of clamps for 1000 ml flask to be supplied with system-4 Interior illumination-LED Bulbs	
10	Laminar Airflow (Horizontal) with all accessories	Vertical Laminar Airflow Workstations HEPA area dimensions: 2' x 2' or 3'x2' or more	Any reputed brand
11	Haemocytometer	Haemocytometer Neubauer Counting Chamber	Any reputed brand
12	Haemoglobinomete r	Manual Sahli's haemoglobinometer	Any reputed brand
13	Micropipette	0.5 microliter -10 microliter	Tarson/Polylab/Himedia or Any reputed brand


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