



CHRIST COLLEGE ,CUTTACK

Tender Document

For

**“Laboratory Equipment in Physics, Chemistry, Botany and Zoology
Laboratories”**

AtChrist College, Cuttack.

Tender Document No: 07182306/OHEPEE/CC/2024-25/012

Dated: 22nd July, 2024

Issued By:

Principal,

Christ College,

Cuttack-753008

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SCHEDULE OF TENDER

Tender No.	07182306/OHEPEE/CC/2024-25/012
Name of the tender issuer	Principal, Christ College, Cuttack
Scope of Work	Laboratory Equipments for Physics, Chemistry , Botany and Zoology Laboratories Details as per Annexure I
Quantity to be supplied	As per Annexure I
Bid Document Fee/Tender Processing Fee (Non-Refundable)	Rs. 500/- in form of a DD drawn in favour of Principal, Christ College, Cuttack payable at Cuttack
Earnest Money Deposit (EMD)	2% of the total cost of the equipments supplied by the firm
Performance Bank Guarantee (PBG)	5% of Bid Value
Date of issue of tender document	22 July, 2024
Date & Time of Pre Bid clarification	26 July 2024, 10.00 AM
Last Date & Time for Submission of Bids	10 Aug, 2024, 5.00 PM
Date & Time of Opening of Technical Bids	12 August, 2024, 10.00 AM
Date & Time of Price Bid Opening	13 August, 2024 10.00 AM
Name of the contact person for Communication	Sri Surendra Kumar Sahoo, Head Clerk
Contact Number of the concern person	9861884806
Address for Communication	Principal, Christ College, Cuttack- 753008

ELIGIBILITY CRITERIA

The bidders who are desirous for above work require fulfilling the following conditions:

- 1) Must be registered under GST Act.
- 2) Must have filed IT Returns for the preceding three years.
- 3) Should not have been blacklisted by any Local authority / State Govt. / Central Govt. / PSU in India. A self-declaration is required as per **Annexure IV**.
- 4) Must have a PAN

BID SUBMISSION

Steps to be followed for submission of bid:

1. The bid shall be submitted in three parts in three separate envelopes inside one big envelope, the EMD, Technical Bid & the Price Bid.

i) **Earnest money Deposit (EMD):** Bidder has to submit EMD of required amount in the form of Demand draft.

Order drawn in favour of "Principal, Christ College" payable at Cuttack. The EMD should be sealed in one envelope marked as "EMD".

Earnest Money Deposit will not carry any interest. The EMD of unsuccessful bidders will be refunded on acceptance of the work order by the successful bidder. The EMD of successful bidder will be returned / adjusted on submission of performance security.

The bid not accompanying EMD is liable to be rejected.

ii) **The Technical bid** sealed in another envelope marked as "Technical Bid" and shall contain

- The bidder should supply the items as per technical specification mentioned in **Annexure I.**
- The bidder should furnish details as per **Annexure II**, duly filled in, signed and complete in all respects. No alteration / modification in the format shall be permitted.
- A self declaration that the tenderer has not been blacklisted by any

Local authority / State Government/ / Central Govt. / PSU in India as per **Annexure IV.**

- Copy of acknowledgement of Income Tax return of preceding three financial years i.e.2020-21, 2021-22 and 2022-23

(iii) **The Price bid** shall be sealed in another envelope marked as "Price Bid" and shall contain the price bid as per **Annexure III** duly completed in all respects.

Rate quoted should be inclusive of GST. No extra cost will be borne by the college towards transport of goods.No price increase on account of change in tax structure, duties, levies, charges etc. shall be permitted.

The three separate envelopes containing EMD, technical bid and price bid should be sealed in one envelope and should be addressed as per tender schedule super-scribed as“**Lab Equipments for Physics , Chemistry , Botany and Zoology Labs**”.

GENERAL TERMS AND CONDITIONS OF THE BID

Note: Bidders must read these conditions carefully and comply strictly while submitting their bids.

- 1) Bidder shall prepare the bid and submit it in a sealed envelope addressed to Principal, Christ College, Cuttack-753008 and send it through **Speed Post/Registered Post/Courier only** (no hand delivery will be entertained). Each envelope should bear the name of bidder, along with the tender number. However, the authorities shall not be responsible for postal and other delays in receipt of the bids.
- 2) Bidders are requested to check for any notice /amendment/ clarification etc. to the Tender Document through the website www.christcollege.ac.in/ **Noticeboard of the office**. No separate notification will be issued for such notice / amendment /clarification etc. in the print media or individually.
- 3) The Bidders should note that Prices should not be indicated in the Technical bid and should be quoted only in the Price Bid as per **Annexure III**. In case the prices are indicated in the Technical bid, the bid shall stand rejected.
- 4) **"PRE-BID Meeting"** with the intending bidders shall be held on 26.07.2024 from 10:00 A.M. at Christ College, Cuttack. Any queries related to this tender shall be sent to the mail id: christcollegectc@gmail.com 1 day in advance. The clarifications if any will be uploaded in the in the college web site. All bidders are invited to attend the pre-bid meeting. No deviation to any of the terms will be permitted after freezing of the same at pre-bid meeting.
On the date of pre bid meeting the bidders may make a site verification where installations is to be made.
- 5) **OPENING OF TECHNICAL BID**
The Technical proposal will be opened on 12.08.2024 at 10:00 A.M in the presence of the tender Committee and representative of the bidders. No separate intimation will be given to the bidders in this regard.
- 6) **EVALUATION PROCESS**
Technical proposals will be evaluated on the basis of compliance to eligibility criteria, technical specification, and other terms & conditions stipulated in the tender document. Financial proposal will be opened only of those bidders who qualify in the technical evaluation. The Committee reserves the right to reject any or all the tenders without assigning any reason thereof.
- 7) **Award of Contract:** Financial bids with lowest price quotation for the assignment as per Annexure-III will be considered for negotiations and award of contract. However,

where there is tie between bidders in lowest evaluated package price, the person willing to lower his bid to lowest extent will be awarded the contract.

- 8) **PERFORMANCE BANK GUARANTEE:** The selected bidder shall deposit performance security @ 5% of Bid Value in the form of a fixed deposit receipt from a commercial bank / bank guarantee from a commercial bank pledged in the name of the Principal, Christ College, Cuttack within Fifteen (15) working days of the date of notice of award of the tender. The performance security deposit will be retained till completion of the warranty period.
- 9) **WARRANTY:**The Laboratory Equipments for Physics, Chemistry , Botany and Zoology laboratories which are to be Supplied to the College should be NEW as on date of receipt and should be having all components required. The entire System including accessories will remain under warranty for a period of one year from the date of Supply.
- 10) The bids not submitted in prescribed format or in prescribed manner, shall be rejected by the Tender Committee at the risk and responsibility of the bidder.
- 11) All the information as called for in the tender document should be submitted truly, clearly, legibly, transparently, unambiguously and without using abbreviations.
- 12) In the financial bid the total figures should be written in figures followed by words
- 13) Each page of the tender document should be signed by the bidder with seal, in token of having understood and accepted the terms and conditions of the contract and serially numbered and page marked.
- 14) A bid submitted cannot be withdrawn. The bidder or his authorized representative (one person only) will be allowed to be present at the time of opening of tenders.
- 15) The Tendering Authority reserves the right to accept any bid, and to annul the bid process and reject all bids at any time prior to award of contract, without assigning reasons & without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the action.
- 16) All the transit risks shall be the responsibility of the supplier.
- 17) All the disputes shall be subjected to the jurisdiction of Civil Courts situated in Cuttack.
- 18) Any matter which has not been covered under these provisions shall be governed as per the provisions of Odisha State Government Rules.
- 19) If the work is found un-satisfactory or, if the firm dishonors the contract, the Performance Security Deposit may be forfeited and the job may be entrusted to another firm. In this regard the decision of the Committee is final and binding on the firm.
- 20) Any notice given by one party to the other pursuant to this contract shall be sent in writing to Principal, Christ College, Cuttack - 753008.
- 21) **Payment Terms:** All payments will be made within 30 days of submission of tax invoice, based on completion of respective terms & conditions. GST TDS will be

deducted as per the rules. The invoice will be raised in favour of Principal, Christ College, Cuttack

22) **Completion Period:** The work shall be completed in all respect within 45 days from the date of issue of work order.

ANNEXURE – I

DETAILS OF EQUIPMENTS FOR LABORATORIES

EQUIPMENT FOR LABORATORY OF PHYSICS DEPARTMENT

SL No	Goods/ Services to be procured	Detailed Specification	Quantity
1	Digital storage oscilloscope	<p>Specifications- Slim Design Storage Scope Two channels and External trigger Up to 250 MSa/s real time sample rate 8"inch color TFT LCD display VGA output for projection use Record length: 10M points per channel Waveform Record & Play Store up to 15 waveforms and 8 measurement settings USB interface for real-time data and control Advanced trigger: Edge trigger, Video trigger and Alternate trigger ISO& CE Certification</p>	1
2	Hall effect instrument with complete set	<p>Display-0-20V DC,0-5A, Digital LED , Primary, Safety socket-4mm,Electromagnet coils 500 T,Voltage resolution-0.1V,Current resolution -0.1A, ISO& CE Certification</p>	1

EQUIPMENT FOR LABORATORY OF CHEMISTRY DEPARTMENT

SL No	Goods/ Services to be procured		Quantity
1	FTIR spectrophotometer	<p>Technical Specification of FTIR Spectrophotometer FTIR should be High-end advanced PC based system for operation on 220V / 50Hz.</p> <p>It must have followed minimum technical specification:</p> <ul style="list-style-type: none"> ▪ Full mid-IR wave number range from 6,000cm⁻¹ to 550 cm⁻¹ or better ▪ Michelson's interferometer with 30° incident angle, completely sealed and desiccated optics ▪ frictionless Flexible moving mirror mechanism for smooth moving mirror motion and high-quality IR spectra ▪ spectral resolution of 0.9 cm⁻¹ or better. ▪ Signal to Noise Ratio should be 30,000: 1 or higher (4 cm⁻¹ resolution, 1 min scan, around 2,100 cm⁻¹, peak-to-peak). Signal to noise ratio must be achieved without any mask or apodisation. ▪ Germanium coated KBr / ZnSe beam splitter with moisture resistant coatings on surfaces ▪ Must have high intensity long life Ceramic IR source. ▪ Should have DLATGS detector with temperature control ▪ Data sampling should be done by stable He-Ne laser ▪ Following components of FTIR must be covered under a warranty of 10 years - Light Source, Interferometer, Laser, Detector and Electronic Substrate ▪ Must have built-in validation software conforming to ASTM and European Pharmacopoeia. ▪ System must be supplied with 64-bit Windows 10 based FTIR software 	1

		<p>for complete instrument control full data processing including Arithmetic calculations; Dynamic spectral subtraction; Peak detection; Baseline correction; Normalization; Derivatives etc.</p> <ul style="list-style-type: none"> ▪ Must have advanced data processing capabilities include Full Quantitation; Spectrum search; Private library search; multi-linear regression; Deconvolution; Kubelka-Munk conversion; Kramer-Kronig Analysis; ATR-correction; JCAMP conversion; ASCII conversion; Contaminant / Foreign Material Analysis Program and Pharma Report Program etc. <p>Should have built-in atmospheric correction function for automatic elimination of water vapor and CO₂ peaks</p> <ul style="list-style-type: none"> ▪ Should have Automatic accessory recognition (ATR recognition) function with optional Quick-Start accessories ▪ Should have Built-in self diagnostic function for checking, logging and status monitoring of interferometer conditions and key components in the interferometer & sequential display of result ▪ Must have USB interface for PC connectivity ▪ Instrument must withstand humidity of 20-90% with no condensation ▪ Full system must be covered under warranty for minimum period of 1 year from the date of installation. ▪ Installation & training must be provided to user upto their satisfaction at lab <ul style="list-style-type: none"> ▪ The Following items must be provided with the main instrument: <ul style="list-style-type: none"> a) Single-reflection Diamond ATR- Qty 1 Which covers application of measurement of Powders, moldings, films, liquids, rubber etc without sample preparation. b) Branded i3 PC with original Windows 10 Professional <p>Online 1 KVA UPS with 30 minutes back up <u>ISO & CE certification</u></p>	
2	UV Vis Spectrophotometer	<p>Microprocessor based UV-VIS Spectrophotometer with high resolution touchscreen display, for operation on 220V / 50Hz.</p> <ul style="list-style-type: none"> ▪ Stand-alone operation as well as complete control through PC with PC software supplied as standard ▪ True double beam optics with aberration corrected concave blazed holographic grating in Czerny – Turner mounting for high energy throughput and high quality monochromatic light ▪ Wide wavelength range of 1,100 nm to 190 nm ▪ High resolution 1 nm spectral bandwidth over entire wavelength range ▪ Wavelength setting and display in steps of 0.1nm ▪ Wavelength accuracy of ± 0.1nm for D₂ spectral line ▪ Wavelength repeatability of ± 0.1nm ▪ Wavelength Slew rate: approx. 29,000 nm/min ▪ Variable wavelength scanning speed: $\geq 3,000$ nm/min to 2 nm/min 29,000 nm/min when survey scanning ▪ Ultra low stray light of <0.02%T at 220nm with NaI filter ▪ Wide Photometric range of -4 to +4 Abs and 0 to 400 %T ▪ High Photometric Accuracy of ± 0.002 Abs at 0.5 Abs ▪ High Photometric Repeatability of Less than ± 0.0002 Abs at 0.5 Abs ▪ Baseline stability: < 0.0003 Abs/Hr (700 nm, one hour after light source turned ON) 	1

		<ul style="list-style-type: none"> ▪ Baseline flatness: $< \pm 0.0006$ Abs (1100 to 190 nm, one hour after light source turned ON) ▪ Ultra low Photometric noise of < 0.00005 Abs (700 nm) ▪ Dual source – high intensity Tungsten-Halogen and Deuterium lamp with automatic changeover ▪ High sensitivity matched pair Silicon Photodiode detector ▪ 4 USB ports or more for high speed PC and printer connectivity, data storage and transfer through USB pen drive ▪ Guaranteed compliance with all Pharmacopoeia requirements ▪ Built in validation program, diagnostic and security functions ▪ The instrument should provide network access via wireless connectivity. Data can be transferred to a PC via a network ▪ The instrument should have provision for Bar code reader and key board entry function: sample names and numerical values can be entered by a bar-code reader or from the keyboard ▪ The instrument should have Sleep mode and wake up function: Analysis can start the instant the user arrives at the laboratory. The instrument should require no time to warm up. ▪ All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, DNA and Protein Quantitation in stand alone and PC mode. Additionally Multi-Component measurement available in stand-alone mode. ▪ Large sample compartment compatible with wide range of accessories. ▪ Must supply one pair of 10mm path length Quartz Cuvettes of 3.5 ml volume as a standard supply ▪ One Thermoelectrically Temperature controlled (Peltier) cell holder must be supplied with the following specification: Number of cells: One each on the sample and reference sides (temperature-controlled) Temperature control range: 7°C to 60°C Temperature display accuracy (difference from the true value): $\pm 0.5^\circ\text{C}$ Temperature control precision (variation of temperature): $\pm 0.1^\circ\text{C}$ ▪ Must supply one Branded i3 PC with Original Windows 10 Professional ▪ Must supply one Online 1 KVA UPS with 30 minutes back up 12 months warranty from the date of installation, ISO & CE certification 	
3	Microprocessor Flame photometer	<p>Microprocessor Based with Printer Interface, detection of Sodium, Potassium, Calcium, Lithium & Barium Auto Gas Cutoff, Sensitivity: General: Na: 0.5 ppm, K: 0.5 ppm, Li: 0.5 ppm, Ca: 15 ppm Resolution: 0.1 ppm/meq Display: 20 x 4 alphanumeric LCD with backlit Accuracy: $< 2\%$ error when 3 ppm Na/K and 5 ppm Li are set as maximum standards Ignition System: Auto ignition Atomiser: Axial flow type Reproducibility: $< 1\%$ coefficient of variation for 20 consecutive samples using 10 ppm Na set as maximum standard Detector: Silicon Photodiode Calibration: Upto 5-Point calibration with curve fitting software Filter: Na & K supplied (Ca & Li are optional at extra cost) Flame System: LPG and dry oil free air Main Unit Dimensions: 285x255x210 mm Dimension(Compressor Unit): 290x255x210 mm Power: 230 V + 10% AC, 50 Hz Air Supply: By oil free mini compressor unit with pressure regulator Combustion Gas LPG: LPG controlled by precision regulator</p>	1

		Printer: Provision for attachment of HP laserjet/ inkjet (non-windows) printers with centronics parallel interface Display Type: 20x4 Alphanumeric backlit LCD Frequency: 50 hz ISO & CE certification																	
4	Digital Turbidity Meter	0 - 200 NTU(in 2 Ranges):0 - 20, 200 NTU, Resolution 0.01 NTU, Accuracy $\pm 2\%$ FS, ± 1 Digit <table border="1"> <tr> <td>Display</td> <td>3 1/2 Digit 7-Segment LED</td> </tr> <tr> <td>Light Source</td> <td>IR LED</td> </tr> <tr> <td>Detector</td> <td>Photodiode</td> </tr> <tr> <td>Sample System</td> <td>60 x 25mm Clear Glass Test Tubes</td> </tr> <tr> <td>Power</td> <td>230 V $\pm 10\%$ AC, 50 Hz</td> </tr> <tr> <td>Dimensions</td> <td>245 x 260 x 125 mm (L x B x H) (Approx.)</td> </tr> <tr> <td>Accessories</td> <td>Test tube Set of 5, Operation Manual, Dust Cover</td> </tr> <tr> <td colspan="2"><u>ISO &CE certification</u></td> </tr> </table>	Display	3 1/2 Digit 7-Segment LED	Light Source	IR LED	Detector	Photodiode	Sample System	60 x 25mm Clear Glass Test Tubes	Power	230 V $\pm 10\%$ AC, 50 Hz	Dimensions	245 x 260 x 125 mm (L x B x H) (Approx.)	Accessories	Test tube Set of 5, Operation Manual, Dust Cover	<u>ISO &CE certification</u>		1
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<u>ISO &CE certification</u>																			
5	Auto melting point apparatus	Visual Image: 10x magnified displayed on monitor, Temperature Range: ambient + 5 to 315°C Heating Rates: 0.2, 0.5, 1.0, 2.0, 3.0, 6.0, 12.0°C/min, Temperature Readability: 0.1°C Cooling Time: 20 minutes (300°C to ambient), Temperature Accuracy: $\pm 0.5^{\circ}\text{C}$ (ambient + 5 to 200°C) $\pm 0.8^{\circ}\text{C}$ (200 to 315°C) Sample size: 5 mg (approximately) Sample Holder: Glass Slide $\leq 1\text{mm} \pm 0.02\text{mm}$ thick Sample Cover: Glass Coverslip $\pm 0.17\text{mm}$ thick Temperature Sensor: Pt-100 (2 wire RTD) Test Storage: Up to 20 tests with parameters USB interface for real-time data and control, ISO &CE certification	1																
6	Deluxe conductivity meter	Display: 3.5 Digital LED, Range: 0 to 20 $\mu\text{S}/\text{cm}$, 0 to 200 $\mu\text{S}/\text{cm}$, 0 to 2 mS/cm, 0 to 20 mS/cm, 0 to 200 mS/cm, 0 to 1000 mS/cm, Big Screen & large LCD Display with white backlight. USB interface, Accuracy: + 1%FS ± 1 digit,3 points Calibration, Temperature Compensation: Auto: 0 to 50°C, Manual: 0 to 50°C, Resolution: 0.1 $\mu\text{S}/\text{cm}$, Power: 230V + 10%AC, 50Hz, Conductivity Cell (K=1), ISO and CE Certification	1																

7	Microprocessor pH EC TDS meter	Resolution 0.01 pH Ph Range -2 to 20.000 Accuracy +/-0.01 pH,+1 Digit Voltage 12V DC using 230+/-10% AC Adaptor, ISO and CE Certification	1
8	TLC apparatus with accessories	TLC chamber, TLC plates, applicator, silica gel, (Branded)	1
9	Paper chromatography kit with accessories	Paper chromatography paper size 120 mm x 140 mm (Branded)	1 packet of 100 units
10	Digital Polarimeter	Measurement Range: -45° to +45°, -120° + 120° Voltage: 230 V, Frequency: 50 Hz, Minimum Reading : 0.001° and 0.01°, Display Type: Digital, Mounting Type: Table Top	1
11	Micro pipette	10-100 microlitres (P100), 2-20 microlitre (P20)	1each
12	Hot Plate	Speed Range 1500 RPM Speed Setting 15 to 1500 RPM (at every 50 RPM) Set - up plate material Stainless Steel	1
13	Magnetic stirrer with temperature controller	<ul style="list-style-type: none"> Stirring paddle (PTFE coated): Q-19A (9 x 35 mm) Motor rating input: 18 watts; Motor rating output: 10 watts Speed range: 100 - 1500 rpm; Speed/temperature display: LCD Speed display resolution: 1 rpm; Top plate material: Porcelain enamel Dimension of top plate: 135 diameter mm Heating power: 500 watts; Temperature range: Upto 340 degree celcius Control accuracy of heating temperature: 1 degree celcius; Residual heating warning alarm: Above 50 degree celcius Control accuracy of heating temperature with PT-1000: 0.2 degree celcius; External temperature sensor: PT-1000^Protection class acc. to DIN/EN60529: IP 42^Voltage: 220/240 volts; Frequency: 50 hz Unique safety temperature control system Settable safe temperature limit to avoid overheating Residual Temperature warning when unit is switched off for operator safety 	1
14	pH meter Unbreakable	pH Range- -2.0 to 20.0 pH; -2.00 to 20.00 pH; -2.000 to 20.000 pH pH Resolution 0.1 pH; 0.01 pH; 0.001 pH pH Accuracy ±0.1; ±0.002 pH pH Calibration up to five point calibration, seven standard buffers available (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) + five custom buffers pH Temperature Compensation manual or automatic from -20.0 to 120.0°C (-4.0 to 248.0°F)	1

		<p>pH Input impedance 10^{12} Ohm smV Range ± 2000 mV mV Resolution 0.1 mV mV Accuracy ± 0.2 mV Temperature Range -20.0 to 120.0°C (-4.0 to 248.0°F) Temperature Resolution 0.1°C (0.1°F) Temperature Accuracy ± 0.4°C (± 0.8°F) (excluding probe error) Temperature Compensation manual or automatic from -20.0 to 120.0°C (-4.0 to 248.0°F) pH Electrode FC2323 Food care PVDF body, pH electrode with internal temperature sensor, quick connect DIN connector and 1 m (3.3' cable) Logging Memory 200 samples (100 pH and 100 mV range) Connectivity opto-isolated USB with optional HI 92000 software and micro USB cable Automatic Shut-Off user selectable: 5, 10, 30, 60 min or can be disabled GLP Yes Battery Type/Life 1.5V AA batteries (4) / approximately 200 hours of continuous use without backlight (50 hours with backlight) IP Protection IP67 Environment 0 to 50°C (32 to 122°F); RH 100% Dimensions 185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4") Weight 400 g (14.2 oz.)</p>	
15	Digital potentiometer	<p>Resolution 0.1 mV Model Name/Number 118 Repeatability ± 1 mV Accuracy ± 1 mV, ± 1 digit Input Impedance > 1012 ohms</p>	1
EQUIPMENT FOR LABORATORY OF BOTANY DEPARTMENT			
SL No	Goods/ Services to be procured	Specifications	Quantity
1	UV Vis Spectrophotometer	<p>Optics: Single Beam, Grating 1200 lines/mm, Wavelength Range: 190 - 1100 nm, Spectral Bandwidth: 2 nm, Wavelength Accuracy : ± 0.5 nm, Wavelength Repeatability: 0.3 nm, Wavelength Resolution: 0.1 nm, Photometric Accuracy : ± 0.3 %T or 0.003 A @ 1A, Photometric Range: 0-200 %T, -0.3 to 3A, 0 - 9999 Conc., Photometric mode %Transmission, Absorbance and Concentration, Stability: ± 0.002 A/h @ 500 nm. Power: 230 V $\pm 10\%$ AC, 50 Hz</p>	1
2	Vertical Laminar air flow	<p>Horizontal, Steel body, 6x2x2, Filter-0.3micron, air flow velocity 0.3m/s to 0.5m/s, 220 volts, LED Light, standard fittings for gas connection etc, CE & ISO Certification</p>	1
3	Vertical Autoclave	<p>50 L capacity, Double wall, Stainless steel, Silicon gasket, Pressure-15 to 20psi, Temp-121-125 C, Analog dial gauge, Mechanical timer, Power supply 220V 50 Hz along with standard fittings</p>	1
4	Bacteriological Incubator	<p>Thermostatically controlled, 120 L capacity, Double wall with insulation provided with outer stainless steel metal door and inner glass viewing door, Temperature range: Ambient +5.0°C to 60.0°C, Temperature control accuracy: ± 0.5°C of set point, Temperature uniformity: ± 0.5°C, Control type: Time proportionate digital / Microprocessor PID, Auto tune, Temperature display: 3 1/2 digit LED, ISO & CE Certification</p>	1
5	Centrifuge with head	<p>Compact lab centrifuge ,4400 rpm, with speed regulator, 200 ml capacity, rotor capacity-8x 15 ml, swing out head, 8 tubes, Power supply 220V 50 Hz, digital timer, branded , ISO & CE Certification</p>	45,000

EQUIPMENT FOR LABORATORY OF ZOOLOGY DEPARTMENT

SL No	Goods/ Services to be procured	Detailed Specification	Quantity
1	Semiautomatic Microtome Model MRM-ST	LCD Display with feather touch keypad Cutting/Trimming Mode Fast Forward /Backward Function Increase/Decrease Section Thickness, Adjustable Retraction. Motorised Feed Drive, Finger Protection Guard, Standard/Universal Cassette Clamp ,branded , ISO /CE Certification	1
2	Horizontal Electrophoresis apparatus	<ul style="list-style-type: none"> • Horizontal gel apparatus MINI: Gel Size:5×7 (1No),10×7 with three slots (1No) • Combs: 8-well Polished acrylic Colour adjustable comb,1.5thickness (2Nos) • Preparative Comb: 3-well Polished acrylic comb,1.5thickness (1+2) • No.of Samples: 24;Buffer Volume: 300ml • Gel Casting Assembly: 1Set • Power Cords: 1Set • Power pack ISO&CE Certification	1
3	Precision Balance	Capacity-1.2 kg, scale readability0.001 gm, repeatability 0.001-0.003 gm	1
4	Trinocular Inverted Microscope	Magnification- 40x-400x, Illumination- Trinocular, 1x magnification with interpup adjustment. Koehler's illumination system 12V – 50W Halogen Lamp, Objectives- 4x, 10x , 20x (SL) & 40x (SL) Anti fungal coated & infinity corrected, Digital camera	1
5	Upright Deep Freezer (-)20deg	Vertical, 170 litres, cooling -20 degree C,CE and ISO certification	1

DETAILS OF THE TENDERER

Sl. No	Particular	
1	Name of the Firm/Agency/Company	
2	Complete postal address of the Office (Furnish Address proof)	
3	Telephone Number & E-Mail Id	
4	Name of Authorized Signatory (in block letters)	
5	Contact Number of authorized signatory	
6	G.S.T. Registration No. (Furnish Photocopy)	
7	PAN No. (Furnish Photocopy)	
8	Details of Earnest Money Deposit i.e. Draft no., date and bank name	

Date:**Place:****Signature & Seal of the Bidder**

PRICE SCHEDULE

To,
Principal,
Christ College,
Cuttack-753008

Ref: Bid no. ----- Dated -----

Sir,

I/We ----- hereby offer to supply the following items at the prices
and within the period indicated below:

<u>Sl No.</u>	<u>Description</u>	<u>Make and Model</u>	<u>Qty. in Nos.</u>	<u>Unit Price</u>	<u>Total Amount</u>
<u>1</u>					
<u>2</u>					
<u>3</u>					
<u>Total</u>					

It is herewith certified that we have understood the general Terms and Conditions of the bid and our offer is to supply items strictly in accordance with the requirements and the terms mentioned in the bid.

Note

No change in the Proforma is permissible.

Date:

Place:

(Signature and seal of the bidder)

SELF DECLARATION FOR NOT BLACK LISTED

To,
The Principal,
Christ College, Cuttack- 753008

Ref: Tender no. ----- Dated: -----

Madam/Sir,

I / We.....here by confirm that our firm has not been banned
or blacklisted by any Government organization/Financialinstitution/Court
/Public sector Unit /Central Government / Local Authority.

Date:

Place:

Signature & Seal of the Bidder