

**OFFICE OF THE PRINCIPAL**  
**BETNOTI COLLEGE, BETNOTI, MAYURBHANJ, ODISHA**

**TENDER FORM**

Tender No & Date	No: 32/24 Date. 12.03.2024
Name of The Tenderer	Principal, Betnoti College, Betnoti
List of Items	See in <b>Annexure-II</b>
Date of publication of tender notification on official website and newspapers	Date:12.03.2024
Sale of Tender Form commence from	Date: 12.03.2024
Last date & Time for sale of tender form	Date: 21.03.2024 Time: 11:00AM
Last date & Time for submission of duly filled in Tender form	Date: 21.03.2024 Time: 02:00PM
Date & Time for opening of Tender	Date: 22.03.2024 Time: 11:00AM
Date and Time of the opening of Technical Bids	Date: 22.03.2024 Time: 11:00AM
Place of opening of Tender	Office of the Principal, Betnoti College, Betnoti
Cost of Tender Form	Rs. 500.00 (Non-refundable) by shape of DD drawn in favor of Principal, Betnoti College, Betnoti

### **CHECK LIST**

The tenderers are hereby instructed to arrange and submit the following required documents as per the checklist

Sl. No	Name of Document	Yes/No	Page No
1	Bidder Details <b>(Annexure-I)</b>		
2	Technical specification with <b>Compliance Statement (Annexure-II)</b>		
3	Copy of Valid GSTIN Registration Certificate		
4	Copy of PAN		
5	The authorization certificate of OEM/ authorized Manufacturer/ Distributor/ Dealership Certificate		
6	Copy of Income Tax Return for last 03 Assessment years (21-22, 22-23 & 23-24)		
7	Self-declaration for not having been black listed <b>(Annexure-IV)</b>		
8	Guarantee/Warranty <b>(Annexure-V)</b>		
9	Letter of Willingness <b>(Annexure-VI)</b>		
10	The tenderer should have minimum 2/3 nos. of similar work orders during last five years in any of the Government organization Work Experience <b>(Annexure-VII)</b>		
11	Photo copies of the work order or Installation report of similar items (Only)		
12	Original Product catalogue		
13	Original Tenderer form Duly Signed & Stamp on each Page		

Signature with seal of tenderer

Date:

**Note – If tender is not submitted in above manner by the tenderer, may be treated as non-responsive & liable to be rejected.**

## **NOTICE INVITING TENDER**

The Principal, **Betnoti College, Betnoti** invites sealed tenders under "**TWO BID SYSTEM**" from reputed suppliers of good standards for selection of a supplier for the purpose of supplying different items to **Betnoti College, Betnoti**.

### **"TWO BIDS SYSTEM"**

Tenderer should take due care to submit the tender in accordance with requirement in sealed covers. Bids received shall be evaluated as per the criteria prescribed in the tender document.

The College will not entertain any modifications subsequent to opening of bids and bids not confirming to tender conditions shall be liable to be rejected. Therefore, bidders are advised to submit their bids complete in all respects as per requirement of tender document specifying their acceptance to all the clauses of Bid Evaluation Criteria, General terms and conditions and compliance to the Scope of Work requirement etc.

i) **Technical Bid** shall consist of all technical details along with commercial terms and conditions.

AND

ii) **Financial Bid** shall indicate item-wise price for the items mentioned in the technical bid

The technical bid and the financial bid should be sealed by the bidder in separate covers duly superscribed as "**Technical Bid**" and "**Financial Bid**" respectively. **Both these sealed covers should then be kept in a bigger cover** which should also be sealed & duly superscribed as "Tender for Supplying (Name of the dept.) to **Principal Betnoti College, Betnoti**. "The **Letter of Willingness, Tender Fee DD receipts towards cost of Tender form & Check List**.

The tender document can also be downloaded from the official website <https://betnoticollege.org.in> of the college on payment of a non-refundable cost of Tender form of Rs 500/- in the form of a Demand Draft (DD) in favour of Principal, Betnoti College, Betnoti Payable Bank. The tender document is not transferable to any other person.

**N.B: The tender form found incomplete in any respect and received after last date of receiving will not be considered.**

## **ELIGIBILITY CRITERIA**

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

- A. Must be registered under GST Act
- B. Should not have been blacklisted by any State Govt. / Central Govt. / PSU India. A self-declaration is required as per **Annexure IV**.
- C. The Tenderer must be a Reputed Original Equipment manufacturer (OEM) / or the authorized Dealer of an OEM should provide all documents relating to their manufacturing/ sales capabilities. Must have Odisha Office for after sales & Service (If OEM/ Dealer outside of the State). **Tenderer who has their own sales and service station in Odisha with GST Registration Number should only quote.**
- D. Proof of Establishment of Firms / Manufacturing unit/ Dealership certificate from the OEM to be attached with **Technical Bid**.
- E. The tenderer should have minimum 03 nos. of similar work orders during last five years in any of the Government organization. Photocopies of the work order and Installation report of similar items to be attached with Technical Bid.
- F. The bidder should supply the items as per technical specification mentioned in **Annexure-II**. The list of items available with the tenderer. Original Technical Catalog as Proof of Technical Specification should be enclosed by Bidder, merely Copy & Paste of Technical Specification will be out right Rejected.
- G. The bidder should compile as per **Annexure-II**, duly filled in, signed and complete in all respects. No alteration/ modification in the format shall be permitted.
- H. A self-declaration that the tenderer has not been blacklisted by any State Government/Central Govt./PSU in India as per **Annexure IV**.
- I. Performance Statement- **Annexure-V**
- J. If any Technical conflict arises while evaluating the Technical Bid, **Principal of Betnoti College** may ask for **Live Demonstration** of same product in front of the Purchase committee.

### 1. LIST OF ITEMS:

Supply of Laboratory equipments to **Betnoti College, Betnoti**. The items have been described in Annexure-I A bidder can submit financial bid for any number of items however care should be taken to submit for accounting units mentioned against each item.

### 2. BIDDER:

The term Bidder shall mean Company, Firm, Agency or the Individual to whom the Contract is awarded and shall include its/ his/ her/ its heirs and legal representative. Successful Bidder is referred to as "Party" in this tender document.

### 3. MODE OF PAYMENT

- (i) Payment shall be made through NEFT/RTGS transfer only after satisfactory supply of the said items.
- (ii) The principal shall be at liberty to with hold any of the payments in full or in part.
- (iii) No advance payment will be made in any case.
- (iv) The 100% payment shall be given within 07-10 days after satisfactory installation of the equipment/ material supplied & necessary training of operating personnel.

### 5. MODE OF SUBMISSION OF TENDER

- A. Tender should be submitted by tenderer in prescribed form.
- B. Tenderer should submit their offer in two parts as under:
  - (a)** Technical Bid, consisting of technical details, drawing/catalogues/ brochures, data sheets or models etc. **(Annexure-II)**
  - (b)** Financial Bid on prescribed format attached with the tender document **(Annexure-IV)**
- C. Proposals complete in all respect should be submitted to the **The Principal, Betnoti College, Betnoti, Mayurbhanj-757025** through **Speed Post/ Registered Post/ Courier Service** only. Delivery in person shall not be accepted.
- D. All details asked for in the Annexure(s) should be properly filled in and each page of tender should be Stamped & Signed by the tenderer. Failure to attach Annexure required may invalidate the tender.
- E. Any tender which is not found in the proper form or is received late due to postal delay or otherwise shall in no case be accepted.
- F. The bidder is expected to examine all instructions, forms, terms and specifications in the bid document. Failure to furnish all information required as per the tender document or submission of bids not substantially responsive to the bidding document in every respect will be at the bidder's risk and may result in rejection of the bid.
- G. Offers should be typed and Price be quoted in words as well as in figures. In case of any discrepancy or variation in between figures and words is found, the offer in words shall be finally acceptable. Disagreement with this provision shall entail the bid as non-responsive and subsequently rejected.
- H. Tender documents are not transferable.

- I. In no case the bidding manufacturer or the bidder, otherwise can authorize any other agency what so ever to supply the items to purchaser and receive payment in respect thereof.
- J. In no amendment or supplementary attachment in the bidding document shall be allowed or entertained after the bid having been submitted to the purchaser. No representation there to at any stage shall be entertained.
- K. **Principal, Betnoti College, Betnoti** reserves the right to reject any or all offers or increase/decrease in quantities, call for acceptance the offer in full or in part, without assigning any reasons thereof.
- L. ISO certified Company should have established service team & network across the state.
- M. The principal is not bound to accept the tender quoting the least in the financial bid. The principal reserves the right to place order for a part of the quantity offered. The rates quoted by the bidder shall be valid for any such part.
- N. They should be registered for GST/CST/ST & Income Tax and should enclose copies of relevant certificates.
- O. Tenderer will have to produce all these original documents at any time as deemed by the Institute.

#### 6. TERMS & CONDITIONS:

The tenderer are requested to follow the below mentioned instructions

- A. Failure to comply with the conditions will result in forfeiting of the tender. Please cross out any mistakes and re write the same and countersign.
- B. Cost involved in submitting the bids, attending the tender opening meeting, arrangements for the demonstration/ presentation etc. shall be borne by the bidder.
- C. No tenderer shall be allowed to withdraw the tender rates after opening of the tender. If any tenderer withdraws the rates, Rates should be offered unconditionally and if rates are submitted with any condition the tender shall be rejected.
- D. Tenderer shall have to quote item wise rates; consolidated rates shall not be considered and tender shall be liable to be rejected out rightly.
- E. Tenderer/Manufacturer should have extensive **experience of at least 07 years** of designing, manufacturing, Supplying, installation and commissioning of the required item.
- F. It is a compulsory requirement that the items offered make and model, as quoted by the bidder must be supplied, installed and must be in good working condition.
- G. Tenderer should quote for the whole set of items required and should be willing to undertake responsibility of commissioning, warranties and after sales service. Part offer/offers not as per given specification will not be considered.
- H. Tenders should comply all the terms and conditions given in the tender document and be quoted for the specification given in the tender documents.
- I. Not with standing anything stated herein above, the principal reserves the right to assess the tenderer capability and capacity to perform the contract, should the circumstances warrant such assessment.
- J. In case any part of the equipment supplied being found to be non-functional the entire unit of equipment shall be taken as non-functional
- K. The principal reserves the right to change the quantity/ upgrade the criteria/

drop any item or part thereof/extension of delivery date at any time before placing the purchase/ work/ supply order.

- L. Right of Acceptance: The college authority is not bound itself to accept the lowest tender. It is the sole discretion of the principal to place order for better quality.
- M. Signing of Tender: The individual signing the tender (or the documents in connection with it) must specify whether he/she is signing as:
  - (i) A sole proprietor of the farm, or constituted attorney of such proprietor.
  - (ii) A partner of the farm, if it be a partnership, in which case he/she must have the authority to refer to arbitration, disputes if any, concerning the business of the partnership, either by virtue of the partnership agreement or power of attorney.
  - (iii) Authorized signatory of the farm, if it is a company, a letter of the authority in this respect must be closed along with the bid.
  - (iv) A person signing the tender form or any part thereof, on behalf of another, shall be deemed to warrant that he/she has the authority to bind the other and if on inquiry it appears that the person so signing has no authority to do so, Principal may without prejudice to other Civil and Criminal remedies, cancel the contract and hold the signatory liable for all costs and damages.

## **7. PRICES**

Farm will submit the prices (all inclusive) for each item to be quoted on prescribed format attached with the tender document including charges for installation and commissioning with at least One year (12 months) Warranty from the date of satisfactory installation and commissioning of the equipment. The tenderer should take care that the rates and amounts are written in such a way its misinterpretations not possible.

The price ranking will be carried out as under:

1. The prices of optional items if not required as per technical specifications will be excluded for ranking purpose.
2. The ranking will be determined as under. Total Price (Cost) = Price quoted with all accessories as per technical specifications along with all the taxes and charges (if any). All these calculations must be clearly written by the bidder in price bid.
3. Offer with any price variation clause will not be accepted. The rates quoted in ambiguous terms such as "Freight on actual basis", "taxes as applicable extra" or "packing & forwarding extra" will render the tender liable for rejection.
4. G.S.T. or Central sales tax (C.S.T.) or as applicable must be reflected in the financial bid and the tax amount is to be clearly indicated separately but included in the lump sum price.
5. Bids shall be accepted with price quoted in variably in Indian Currency.
6. No increase in price shall be allowed even if claimed on the grounds of any statutory increase or fresh imposition of any other tax later.
7. Discount, if any, offered by the bidder shall not be considered unless specifically indicated in the price schedule and shall be taken into account for consideration only if it is quoted clearly with net price taking all such factors like discount, free supply etc. to arrive at net price.
8. Prices: The tenderer are required to quote as per "Annexure" (Financial Bid) in a Separate Envelope. The rates quoted shall include the cost of Material, labour, Transport & Packaging etc., as required for the completion of work.

## **8. VALIDITY OF BID:**

The bid will remain valid for 1 months from the date of opening of financial bid.

#### 9. TESTAND INSPECTIONS

Upon completion of the installation work, the tenderer/supplier shall facilitate inspection of the equipment by the principal or his authorized representative, to inspect & test the equipment and to confirm that they are installed in conformity to the required specifications and are serving the desired purpose. Any defect or failure to serve the desired purpose, discovered during the inspection will be promptly rectified and made good to the satisfaction of the principal or his authorized representatives.

#### 10. GUARANTEE/WARRANTY(Annexure-V)

The tenderer shall furnish along with their quotations the under noted Guarantee/Warranty:

- A. The Guarantee/ Warranty shall be for a period of at least 12 months from the date of satisfactory installation and handing over the equipment and of works conducted there with covered under the contract in working order. During the guarantee period the replacement of any part(s) of the equipment or rectification of defect of works will be free of cost. If the downtime exceeds seven consecutive days at any one time, the guarantee period will be extended beyond aforesaid 12 months by a duration equal to the total down time during the period of warranty.
- B. The tenderer should produce written guarantee stating that the equipment being offered is latest model and that spares for the equipments will be available for a period of at least five years after its supply to the purchaser.
- C. The tenderer whose tender is accepted shall furnish the warranty (Where Ever Applicable) in **Annexure-V** Along with Bill.
- D. The manufacturer and the tenderer should guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.
- E. The tenderer shall be are all cost of such replacement, including freight, if any, of such replace or repaired equipment and/or other articles but without being entailed to any extra payment on that or any other account. All documents required for replacement in part/parts will be made available by the indenter.

## **Annexure-I**

### **Bidder Details**

1. Name & Postal address of Bidder:

2. E-mail:

Name & address of Owners/ Partners/Directors:

Nature of Farm/Agency/Company (Sole/Partnership/otherwise):

3. Copy of GST Registration Certificate.
4. Copy of PAN Card.
5. Income Tax Return for last 03 Assessment years (21-22, 22-23 & 23-24).
6. Undertaking certifying that the Farm is not blacklisted in Annexure.
7. Each page of tender form duly signed in.
8. Dealership Certificate (Latest).
9. Whether agreed to abide by all the terms & conditions of this tender.

Signature of the Proprietor/Authorized Signatory  
(Name & Signature of the tenderer with seal)

Place:

Date:

## Annexure-II

### DEPARTMENT OF PHYSICS

#### LIST OF APPARATUS

(Make: Indosaw/ 3-B Scientific/Spencotek/Phywe/HP/Holmarc)

Sl No.	Experiment Name & Technical Specification
<b>1</b>	<b>DSO</b> Technical Specification: Bandwidth: DC -50MHz , Channels: 2 + External, Display: 5.7 inch LCD colour (320x240 resolution) , <b>ACQUISITION</b> - Mode: Sample, Peak detect, averaging , Sample Rate (Real Time): 500MS/s, <b>INPUT</b> - Input Coupling: DC,AC,GND, Input Impedance: $1M\Omega \pm 2\%$ In parallel with $20pF \pm 3pF$ , Probe Attenuation Factors: 1X,10X,100X,1000X , Max. Input Voltage: 400V (DC + AC Pak, 1M input impedance), <b>HORIZONTAL SYSTEM</b> - Record Length: Max. 512K points, Time Base Range: 20ns/div-50s/iv/5ns/iv-50s/div (step as 1-2-5), Time Base Accuracy: $\pm 100ppm$ , Dual channel, 28 Automatic Measurements, Saving 10 Waveforms and 10 setup parameters, Convenient USB port Interface (DSO-050)
<b>2</b>	<b>BH curve</b> Technical Specification: A step down transformer on board, One Solenoid coil, One search coil, Output brought out through BNC connectors, Type different types of controls through 10 turn potentiometer, Length of sample 39mm, Diameter of sample 1mm (approx.), Sample type: 1. soft iron, 2. Nickle, 3. hard steel (SSP-006)
<b>3</b>	<b>To determine the frequency of an electric tuning fork by Meldes experiment and verify 2 T law</b> Technical Specification: Heavy steel fork, Heavy cast iron base, Electromagnet, Weight box 1, Voltage source 1.5V-12V / 3A, Pulley with clamp, Reel of thread , Scale pan (WO-001)
<b>4</b>	<b>To determine the specific rotation of sugar solution using Polarimeter. Complete System.</b> Technical Specification: POLARIMETER TUBE:Length :200mm with central bulb, metallic cap & cover glasses packed in a velvet case , LAURENT'S HALF SHADE: Circular scale : $0^{\circ}$ - $360^{\circ}$ , Least count : $1^{\circ}$ Vernier Reading :6 min, Dimensions : Dia 12mm, length 200mm OPTIONAL ESSENTIAL ACCESSORIES: Sodium light source ,Starting Voltage : 470 Volts, Input Voltage : 220V,50Hz,Lamp House ; 300x85mm(LxW), Aperture dia :25mm, Sodium Light Transformer (EMT-002)
<b>5</b>	<b>To measure the resistivity and band gap of a given semiconductor by four probe method</b> . Technical Specification: <b>FOUR PROBE EXPERIMENTAL SETUP</b> - Voltmeter Display: 3 ½ digit, 7 segment LED, auto polarity & decimal indication, Voltage Range: X1 (0-200.0mV DC) & 10 (0-2.00V DC), 4mm socket, Current Display: 3 ½ digit, 7 segment LED, Current Range: 0-20mA DC, 4mm socket, Oven Supply: 45V AC (Switch position LOW), 60V AC (Switch position HIGH), Oven Connector: 5 pin, DIN type, Input Voltage: 220V, 50Hz AC, Fuse: 1A, 250V, <b>OVEN</b> - Heating Element: 35 ohm, 75 watt, Oven Supply: 45V/600V AC, Oven Connector: 5 pin, DIN type, Ambient Temperature: 175°C, Fuse 2A, <b>THERMOMETER</b> - Type: Mercury, Temperature Range: 0-200°C, Least Count: 1°C, Length: 300mm approx., <b>FOUR PROBE ARRANGEMENT</b> - Four probe: Spring type, Probe Spacing: 25mm, Crystal: GE wafer, P type, Crystal Size: 12x14x0.5mm (L x W x Thickness), Resistivity: 1-10 ohm-cm, Orientation: <100>, Connection: 4mm safety socket (SSP-007)
<b>6</b>	<b>Computer</b> Technical Specification: Core i3, 8 GB RAM, 512 GB SSD, Windows: DOS, HP wired Mouse & Keyboard & HP 22-inch Monitor with UPS

## **DEPARTMENT OF ZOOLOGY**

### **LIST OF APPARATUS FOR**

(Make: Biolinkk/Pragati/Denvar/Spencotek/Shimadzu/Mettler Toledo)

<b>Sl No.</b>	<b>Experiment Name &amp; Technical Specification</b>
<b>1</b>	<b>Vortex Mixer</b> Technical Specification: Type of Movement: Orbital, Orbital diameter: 6mm, Speed range: 0-3000rpm, Speed range: Scale, Permissible ambient temp.: 5-40 deg C, Permissible relative humidity: 80%, Protection class according to DIN EN 60529: IP 21, Voltage: 200-240/115/100 V compatible, Frequency: 50/60 Hz, Power: 36W, Motor rating input: 30W, Motor rating output: 15W, Dimensions: 107x146x166mm, Weight: 3kg (MX-S/BI-VM-3000)
<b>2</b>	<b>Chromatography Apparatus</b> Technical Specification: Jar with lid
<b>3</b>	<b>Micropipette</b> Technical Specification: All Set, Variable range, Fully Autoclavable, Calibrated in accordance with ISO 8655 and each pipette supplied with individual test certificate (Br-Biochem)
<b>4</b>	<b>Bunsen Burner</b> Technical Specification: with stop cock
<b>5</b>	<b>Analytical/Digital Balance</b> Technical Specification: Max Capacity: 220gm, Readability: 0.001g, Tare Range: Full, Repeatability: $\pm 0.001$ g, Linearity: $\pm 0.002$ g, Pan Size: 85mm, Stabilization Time: 2-3 sec, Communication: RS-232, Calibration: Automatic External Calibration, Weighting Units: Multi weighing units, Power: DC9V/500mA with 6V/1.3Ah rechargeable Battery Backup, Display: Large LCD Display with back light, Working temperature: 10-40 degree C, Automatic External calibration, 2,00,000 internal resolutions, Easy to read LCD display with back light, Multifunction weighing units as like g, ct, etc., Full tare range up to max capacity of the balance, Counting weighing functions, Standard RS 232 C interface, S.S. weighing pan, Level indicator, Adjustable fit, In built rechargeable battery for continuous use, Zero tracking function with battery back-up (DWS-223)
<b>6</b>	<b>Haemoglobinometer</b>
<b>7</b>	<b>Digital Haemoglobinometer</b> Technical Specification: Measurement Method: Cyanmethemoglobin method (optional alkaline, hematin D also available on request), Display: 16 x 2 Alphanumeric, Wavelength: 540 nm, Calibration: Automatic by press CAL key, Set Zero: Automatic by push switch, Measuring Rate: 0.0 to 30. g/dl, Photo Detector: Silicon Photodiode, Accuracy: 4%, Light Source: 540 nm Green LED, Power: 220 V $\pm 10$ AC, Frequency: 50Hz, Dimensions: 275x187x94mm (approx) (AI-121)
<b>8</b>	<b>Room Thermometer</b>
<b>9</b>	<b>Haemocytometer with slide</b>

## **DEPARTMENT OF CHEMISTRY**

### **LIST OF APPARATUS FOR**

(Make: Prime/Omega India/Contech/Spectronics/Pragati/Borosil/ Shimadzu/Mettler Toledo)

<b>Sl No.</b>	<b>Experiment Name &amp; Technical Specification</b>
<b>1</b>	<b>Hot Air Oven</b> Technical Specification: 14"x14"x14", Temperature upto 250, Accuracy $\pm 1$ , C double walled inner chamber of anodized Aluminum/ Stainless Steel, Elements on three sides (VU-01)
<b>2</b>	<b>Resistance Box</b> Technical Specification: 1-5000 Ohm's
<b>3</b>	<b>Digital Conductivity Meter - Microprocessor Based</b> Technical Specification - Measurement Range: conductivity: 0-200mS/m spread into 5 ranges 0.00-20.00micro S/cm, 20.0-200.0 micro S/cm, 200-200 micro S/cm, 2.00-20.00 MS/cm, 20.0-200.0MS/cm., Resistivity: 0-100 M ohm cm, TDS: 0-100ppt (g/L), Salinity: 0-100ppt, Temp.: 10-110 deg C, Precision: Conductivity: $\pm 1\%$ FS, Temp.: $\pm 0.4$ deg C, ATC: 0-50 deg C, Display: Back Lite LCD, Power: 9V/500 Ma External adaptor or Battery backup unit (Option), Operating Temperature: 15-45 deg. C, Meter Dimensions (mm): 165 (I) x 19 (D) x 60 (H), Weight: 700gm, Electrode: Conductivity Electrode ECN G01, Temp Sensor Electrode ETS01 (CC-01)
<b>4</b>	<b>Digital Potentiometer (with 2 Electrodes)</b> Technical Specification: Range: 0 to + 199.9mV, 0 to + 1999 mV, Resolution: 0.1mV, Repeatability: +1mV, Accuracy: +1mV +1 digit, Input impedance: > 1012 ohms, Operating temperature: 10o C to 45oC, Display: 3 1/2 Digit seven segment LED display with auto polarity indication, Power: 230V + 10% AC, 50 Hz, Dimensions: 275 X 175 X 76mm, Weight: 2.5 Kg (Approx.), Accessories: Platinum Electrode, Reference Electrode, Glass Electrode and Silver Electrode-1No each, Buffer Tablets 4 pH & 7 pH, Operation Manual, Electrode Stand, and Dust Cover (SI-147)
<b>5</b>	<b>Melting Point Apparatus</b> Technical Specification: Cylindrical silicon oil bath, Built-in Magnetic stirrer with electronic speed controller, Electronic controller for adjusting the heating rate, Digital display of temperature with PT-100 sensor, Glare-free back ground light with adjustable light intensity, Provision for holding the melting point display, Temp. Range: 2deg above RT-275deg C (SI-252)
<b>6</b>	<b>Glass Filtration Assembly</b>
<b>7</b>	<b>Suction Pump</b>
<b>8</b>	<b>Digital Hot Plate with Magnetic Stirrer (Ceramic Plate)</b> Technical Specification: Stirring Positions: 1, Set-Up plate dimensions: 135mm, Set-up plate material: Stainless steel with <b>Ceramic plate</b> , Motor type: DC motor, Max. Stirring quantity (H2O) (L): 5, Motor rating input (W): 3, Motor rating output (W): 2.5, Speed range (rpm): 100-1500, Safety temperature: 50-320 deg. C, External temperature sensor: PT1000, Control accuracy with external temperature sensor PT 1000 deg.C: $\pm 1$ , Hot surface warning: 50 deg.C, Protection class according to DIN EN 60529: IP 42, Voltage (VAC): 200-240/100-12, Frequency (Hz): 50/60, Load: 10Kg, Power (W): 650, Display: LED Digital Display (Br-Biochem-BIMS-005)

## **DEPARTMENT OF BOTANY**

### **LIST OF APPARATUS FOR**

(Make: Novel/Biolinkk/Prime/Pragati/ Shimadzu/Mettler Toledo)

<b>Sl No.</b>	<b>Experiment Name &amp; Technical Specification</b>
<b>1</b>	<b>Binocular Microscope</b> Technical Specification: Head: Binocular, 360°rotating, 30° inclined, Eyepieces: Wide Field 10x/18mm, Objectives: Achromatic 4x,10x,40x,100x, Stage: Mechanical stage, 125x116mm with specimen holder, Focusing: Coaxial coarse and fine focusing mechanism with limit stop, Condenser: N.A. 1.2 with diaphragm adjustable height, Illuminator: 1W LED with external power supply (ES-20)
<b>2</b>	<b>Micropipette</b> Technical Specification: All Set, Variable range, Fully Autoclavable, Calibrated in accordance with ISO 8655 and each pipette supplied with individual test certificate (Br-Biochem)
<b>3</b>	<b>MICRO CENTRIFUGE HIGH SPEED 10000 R.P.M (Microprocessor based)</b> Technical Specification: Max. Speed: 10000 r.p.m., Motor- Universal Motor (with carbon), Power- AC 220V 50Hz, Dimensions: 510x510x390mm, Weight of Machine: 21kg approx., Rotor Type- Angle Head, Rotor Capacity- 8x15ml, Max. speed on Rotor- 10000 r.p.m., LCD Display, Digital Timer- 0-59 minutes, Programmable speed controller from 2000 to 10000 in variation of 100 rpm (BL-T-10M)
<b>4</b>	<b>Rocking Shaker</b> Technical Specification: Body made out of thick mild steel finished with powder coating. PMDC motor, Used for shaking Platform size 450x450mm. S.S. platform consists of 9x250ml, Conical flask lotus type clamps. RPM range 50-250 RPM, Electronic variable Control with Digital Timer with RPM, Workable on 220 V AC 50 Hz Single Phase. (VU-08A)
<b>5</b>	<b>Vortex Mixer</b> Technical Specification: Type of Movement: Orbital, Orbital diameter: 6mm, Speed range: 0-3000rpm, Speed range: Scale, Permissible ambient temp.: 5-40 deg C, Permissible relative humidity: 80%, Protection class according to DIN EN 60529: IP 21, Voltage: 200-240/115/100 V compatible, Frequency: 50/60 Hz, Power: 36W, Motor rating input: 30W, Motor rating output: 15W, Dimensions: 107x146x166mm, Weight: 3kg (MX-S/BI-VM-3000)
<b>6</b>	<b>Digital Water Bath</b> Technical Specification: No of holes: 6, Lid: Concentric rings 75 mm dia, Temperature: Ambient+5 to 100°C, Temperature Controller: Thermostatic rotary knob, Display: LCD Display, Inner MOC: SS 304, External MOC: Powder coated GI sheet, Insulation: Glass wool, Power supply: 220 Volts 50 Hz, Optional: Digital temperature Controller SS 304 exterior (VU-07)
<b>7</b>	<b>Class work material</b>
<b>8</b>	<b>Mortar with pestle 3"</b>
<b>9</b>	<b>Test tube 13ml</b>
<b>10</b>	<b>Rubber Cork</b>
<b>11</b>	<b>Test tube stand</b>
<b>12</b>	<b>Chromatography paper</b>
<b>13</b>	<b>Beaker 10 &amp; 50ml</b>
<b>14</b>	<b>Funnel 75mm</b>
<b>15</b>	<b>Staining Rack 6 hole</b>
<b>16</b>	<b>Staining bottle (Coplin Jar)</b>
<b>17</b>	<b>Glass Rod</b>
<b>18</b>	<b>Filter Paper</b>
<b>19</b>	<b>Conical flask 250ml</b>
<b>20</b>	<b>Measuring Cylinder 10 &amp; 100ml</b>
<b>21</b>	<b>T/A Apparatus</b>
<b>22</b>	<b>Farmer Potometer</b>
<b>23</b>	<b>Willmolt's Bubbler</b>
<b>24</b>	<b>Ethanol 500ml</b>
<b>25</b>	<b>Formaldehyde 500ml</b>

## **DEPARTMENT OF MATHEMATICS**

Sl.No	Name of Equipments and technical specification
<b>1</b>	<b>Overhead Projector</b> Sonic PA503S-3(800X600 pixel)Resolution, SVGA Business and education projector, Brightness: 3800 ANSI lumens, Vertical key stone ,Speaker, Light Source Life(Nor/Super Eco):6000/15000 Connectivity: Computer/Laptop ,HDMI:1(black
<b>2</b>	<b>Computer systems(PC, Key Board, Mouse CPU UPS and other accessories )</b> Processor: HP PC Intel Pentinum Silver J5040(Up to 3.2 GHz Burst frequency,4Mb L2 cache,4 cores, 4threads), Size: 21.5 inches(54.6cm) FHD three side micro edge Memory and Storage: 8GB DDR4-2400 MHz RAM(1 X 8) 512GB SSD/Intel UHD Graphics 605 , Win 11 Home/Wired keyboard and mouse Combo/MS Office)
<b>3</b>	<b>Scientific Calculators</b> CASIO,Fx-991ES PLUS Natural VPAM 2 <sup>nd</sup> edition, Black in Color,1 LR44 batteries required, 10 digit mantissa
<b>4</b>	<b>Printer</b> HP Ink Advantage Ultra 4929 print, copy scan self rest wifi, smart App setup/page with 2 additional sets of Ink, colour print.

## Annexure-III

### **FINANCIAL BID**

<b>SL No</b>	<b>Name of the Items</b>	<b>Make &amp; Model</b>	<b>Qty</b>	<b>Taxable price Per unit</b>	<b>GST@%</b>	<b>Total Price Including GST</b>
<b>1</b>						
<b>2</b>						
<b>3</b>						
<b>4</b>						
<b>5</b>						
<b>6</b>						
<b>7</b>						
<b>8</b>						
<b>9</b>						
<b>10</b>						

Price: - Total price should be inclusive of all taxes. Items quoted must be as per the specifications given in enclosed Annexure-II

Signature& Seal of

the supplier Place:

Date:

## **Annexure-IV**

### **SELF DECLARATION CUM UNDERTAKING**

It is certified that my Farm/ Agency/ Company has never been **black listed** by any of the Departments/ Autonomous Institutions/ Universities/ Public Sector Undertakings of the Government of India or Government of Odisha or any other State Government or reputed educational institutions and no criminal case is pending against the said Farm/Agency/Company as on date \_\_\_\_\_.

Signature of the Bidder

Name of the Authorized

Signatory:

Name of the Farm/Agency

Seal of the Farm/Agency

## **GUARANTEE/WARRANTY**

I/We hereby declare that the equipments and other articles supplied to the purchaser under this contract shall be of the best quality and workmanship and are strictly in accordance with the specification and particulars contained/mentioned in the clause hereof and I/we hereby guarantee that the said equipment and other articles confirm to the description and quality aforesaid.

The purchaser will be entitled to reject the said equipment and other articles as maybe discovered not to confirm to the said description and quality. On such rejection the equipment and other articles will be returned in own risk and all the provision herein contained relating to rejection there of shall apply. I/we shall, if called upon to do so, replace within a period of 14 days or such further period that be extended from time to time by the purchase at his discretion, and an application made thereof by us, the equipment and other articles as are rejected by the purchaser and in such an event the above mentioned Warranty shall apply to the equipment and/or other articles replaced from the date of replacement thereof, otherwise the tenderer shall pay to the purchaser such damages as may arise by reason of therein contained without prejudice to any other right of the purchaser in that behalf.

The equipment being offered is latest model and that spares for the equipments will be available for a period of at least five years after its supply to the purchaser. The Guarantee/ Warranty shall be for a period of at least 12 months from the date of satisfactory installation and handing over the equipment and of works conducted there with covered under the contract in working order. During the guarantee period the replacement of any part(s) of the equipment or rectification of defect due to manufacturing of works will be free of cost. If the downtime exceeds seven consecutive days at any one time, the guarantee period will be extended beyond aforesaid 12monthsbyduration equal to the total down time during the period of warranty.

Signature with seal of

the tenderer Date:

Place:

**LETTER OF WILLINGNESS**

To  
The Principal,  
Betnoti College,  
Betnoti, Mayurbhanj, Odisha

Sub: Submission of willingness certificate to supply/ install (Laboratory Equipments) at your college premise.

Sir,

I am to inform you that my farm (name of the farm with address) is ready to **supply/install (Physics, Chemistry, Botany & Zoology)** within the specified period of receipt of work order from the college, if my farm is selected as eligible bidder during the selection of tender. I am willing to accept all the clauses of Bid evaluation criteria, general terms and compliance to the scope of work requirement as mentioned in the Tender form. If my farm fails to supply and install the required items in the quoted price.

Yours faithfully,

Authorized Signatory of the

farm with Seal Date:

Place:

**PAST WORK EXPERIENCES**

**Work of Similar nature (of value not less than 1/2 Lakhs) over the last 6 years**

<b>Sl. No</b>	<b>Name &amp; Address of the College</b>	<b>PO No &amp; Date</b>	<b>Total Value of items supplied</b>	<b>Date of Supply</b>	<b>Contact no for College</b>

Authorized Signatory of the

firm with Seal Date:

Place: