

**OFFICE OF THE PRINCIPAL**  
**SARASWATA DEGREE MAHAVIDYALAYA,**  
Anantapur, Balasore, 756046

**TENDER FORM**

Tender No & Date	
Name of The Tenderer	Principal Saraswata Mahavidyalaya, Anantapur, Balasore.
List of Items	See in <b>Annexure-II</b>
Date of publication of tender notification on official website and newspapers	Date: 08/08/2023
Sale of Tender Form commence from	Date: 08/08/2023
Last date & Time for sale of tender form	Date: 14/08/2023, 02:00PM
Last date & Time for submission of duly filled in Tender form	Date: 15/08/2023, 5:00PM
Date & Time for opening of Tender	Date: 17/08/2023 Time: 11:00 AM
Date and Time of the opening of Technical Bids	Date: 18/08/2023 Time: 11:30 AM
Place of opening of Tender	Office of the Principal Saraswata Mahavidyalaya, Anantapur, Balasore

**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	CHECK-LIST		
2	Bidder Details( <b>Annexure-I</b> )		
3	Technical specification with <b>Compliance Statement(Annexure-II)</b>		
4	Copy of Valid GSTIN Registration Certificate		
5	Copy of PAN		
6	The authorization certificate of OEM/ authorized Manufacturer/ Distributor/ Dealership Certificate		
7	Copy of Income Tax Return for last 03 years (20-21, 21-22 & 22-23)		
8	Price schedule in prescribed format( <b>Annexure-III</b> )		
9	Self-declaration for not having been black listed( <b>Annexure-IV</b> )		
10	Guarantee/Warranty( <b>Annexure-V</b> )		
11	Letter of Willingness( <b>Annexure-VI</b> )		
14	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> )		
15	Photo copies of the work order or Installation report of similar items(Only)		

Signature and 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, **Saraswata Mahavidyalaya** 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 **Saraswata Mahavidyalaya, Anantapur, Balasore.**

### **"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 conforming 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 Saraswata Mahavidyalaya, Anantapur.**" **The Letter of Willingness, Check List.**

The tender document can also be downloaded from the official website. The tender document is not transferable to any other person.

## **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 three 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 outright 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 Saraswata Mahavidyalaya, Anantapur** may ask for **Live Demonstration** of same product in front of the Purchase committee.

### 1. LIST OF ITEMS:

Supply of Laboratory equipments to **Saraswata Mahavidyalaya, Anantapur**. 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 withhold 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 30 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 tender in prescribed form.
- B. Tender 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 Principal, Saraswata Mahavidyalaya, Anantapur, Balasore** 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 tender. Failure to attach Annexure required may invalidate the tenderer.
- 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. Incomplete tenders or tender received after due date and not accompanied with earnest money deposit shall be rejected.
- J. In no case the bidding manufacturer or the bidder, otherwise can authorize any other agency whatsoever to supply the items to purchaser and receive payment

in respect thereof.

- K. 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.
- L. **Principal, Saraswata Mahavidyalaya, Anantapur** 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.
- M. ISO certified Company should have established service team & network across the state.
- N. 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.
- O. They should be registered for GST/CST/ST & Income Tax and should enclose copies of relevant certificates.
- P. 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 rewrite 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. **2% of IT deduction should be made on each 2.5Lakhs purchase that will be deposited by the vendor.**
- G. 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.
- H. 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.
- I. Tenders should comply all the terms and conditions given in the tender document and be quoted for the specification given in the tender documents.
- J. Notwithstanding 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.
- K. 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
- L. 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.
- M. 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.

- 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 installation will include the mechanical, civil, electrical, furnishing work (if any) required at site.

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 invariably 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. TEST AND 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 bear 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.



**Bidder Details**

1. Name & Postal address of Bidder:  
E-mail:  
Name & address of Owners/ Partners/ Directors:
2. Nature of Farm/ Agency/Company (Sole/ Partnership/ otherwise):
3. Copy of GST Registration Certificate:
4. Copy of PAN Card:
5. Income Tax return of preceding 3 financial years :
6. Undertaking certifying that the Farm is not black listed in Annexure:
7. Each page of tender form duly signed in:
8. Tender Cost with the tender submitted.:
9. Dealership Certificate (Latest):
10. 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 FOR

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

Sl No.	Experiment Name & Technical Specification	Vendor Specification	Deviation if any
1	<p><b>To verify the law of Malus for plane polarized light - Complete System -01Pc</b></p> <p>Technical Specification : OPTICAL BENCH, - Must have Black Ionised Material : Aluminium Coating, Type : Circular section, Scale : 0-150cm, Least count : 1mm, Length : 1mtr, POLARIZER / ANALYZER, Angle : Adjustable (0°-90°), Aperture : 21mm dia. Frame : 130mm dia., Rod : 10 mm dia. DETECTOR: Detector : Terminals : 4mm safety socket, Aperture : 1 mm , Rod : 10 mm diameter, Voltmeter : 0-20V</p>		
2	<p><b>To determine the specific rotation of sugar solution using Polarimeter. Complete System . -01 Pc</b></p> <p>Technical Specification: POLARIMETER TUBE:Length :200mm with central bulb, metallic cap &amp; cover glasses packed in a velvet case , LAURENT'S HALF SHADE: Circular scale :0°-360°, Least count :1° 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</p>		
3	<p><b>To verify the Stefan`s law of radiation and to determine Stefan`s constant. (Heat Radiation Method) – 01Pc</b></p> <p>Technical Specification: Stefan`s Constant radiation Apparatus on stand with black &amp; silver disc Cu-Cn-Cu thermocouple on a rigid insulated board with two junctions in cotton wool.Oil bath with mustard oil, capacity 100 ml.Fuel for spirit lamp 2 x 100 ml. Spirit lamp on adjustable stand.Cotton wool in a cylindrical copper enclosure on the stand for junctions of cu-cn thermocouple. water bath copper, Super sensitive micrometer as galvanometer fixed on board. Steam boiler2 liter. Capacity with plastic tubing with pinch cock. Hot plate thermostatic controlled single phase ( 8" ).Two mercury thermometer 110 ' C for black body appt.One mercury thermometer 360 ' C for oil both.One 250 ml glass beaker , one plastic funnel.Two spiral connecting wires with connectors.Steam boiler2 liter. Capacity with plastic tubing with pinch cock.Hot plate thermostatic controlled single phase ( 8" ).Two mercury thermometer 110 ' C for black body appt. One mercury thermometer 360 ' C for oil both.One 250 ml glass beaker , one plastic funnel.Two spiral connecting wires with connectors</p>		
4	<p><b>To determine value of Boltzmann constant using V-I characteristic of PN diode. -Complete - 01Pc</b></p> <p>Technical Specification: Digital DC Voltmeter to measure the voltage across the diode.Highly stabilized variable D.C. power supply ( 0 - 2Volts).Digital Milliammeter to measure forward bias current in diode. Silicon Diode mounted inside the cabinet.Temperature controlled oven 70 degree C to heat the diode for different set of readings.Digital temperature indicator to measure temperature directly.</p>		
5.	<p><b>To Analyze elliptically polarized light by using a Babinet's Compensator – 01Pc</b></p> <p>Technical Specification : Babinet Compensator,White light source (Lamp),Quater wave plate,Polarizer,Analyzer,Eye Piece with light source</p>		
6	<p><b>To determine the wavelength and velocity of ultrasonic Waves in a liquid (Kerosene Oil, Xylene, etc.) by studying the diffraction through ultrasonic grating.</b></p>		

	<p><b>Technical Specification</b>  HIGH FREQUENCY GENERATOR: 3MHz.  The liquid is set into longitudinal vibrations mechanically using a crystal and RF oscillator.  SPECTROMETER- The diameter of the brass scale is 7"  Vernier constant: 1 minute.  Spectrometer is provided with 20" long telescope  Magnification using 50mm dia acromatic objective lens.  Collimator tube is provided with 1" diameter acromatic objective  Sodium light source  Starting Voltage : 470 Volts, Input Voltage : 220V,50Hz  Lamp House ; 300x85mm(Lx<math>\square</math>), Aperture dia :25mm  Sodium Light Transformer</p>		
7	<p><b>To Measure the Dielectric Constant of a Dielectric Materials with frequency (Resonance Method) – 01Pc</b>  Technical Specification: Actual capacitor :18pf,13pf,10pf,8pf Test capacitor without dielectric : 80pf,88pf,91pf,94pf, Test capacitor with dielectric :25pf,46pf,60pf,70pf, High Frequency Oscillator :100KHz Gang Condenser :0 to180°, The unit is compiled on a Hylem Board</p>		
8	<p><b>Cathode Ray Oscilloscope – 01Pc</b>  Technical Specification: 50MHz Dual Trace Dual Channel 1mv  Sensitivity, CRT Type: 6-inch rectangular with internal graticule 8x10div (1div=1cm).Bandwidth :X1 - DC (AC 10Hz) ~20MHz (-3dB)  Mode:Ch1,Ch2,Dual(Alt/Chop)Add,Ch2 INV with 1:10 x probe 1 Pair.</p>		
9	<p><b>To Test diode &amp; Transistor Using Multimeter – 01Pc</b>  Technical Specification : Display :3 <math>\frac{3}{4}</math> Big LCD Display, DCV : 6V to 600V, ACV : 600mV to 600V, Resistance : 400 <math>\Omega</math> to 40M<math>\Omega</math>, Capacitance : 50nF to 100<math>\mu</math>F, Frequency : 50 Hz to 100Khz, Temperature : 0°C to 400 °C , Continuity Test , Auto Power Off</p>		
10	<p><b>Half Adder, Full Adder and 4-bit binary Adder &amp; Half Subtractor, Full Subtractor, Adder-Subtractor using Full Adder I.C – 01Pc</b>  Technical Specification : DC Supply :+5V/250mA (Fixed) ,Data Switch : 0-5V-8nos, LED Indication : 8nos, Quad 4 IC7846 : 3nos, Quad 4 IC7404 : 2nos, Quad 4 IC7432 : 1no, Quad 4 IC7483: 1no</p>		
11	<p><b>To build Flip-Flop (RS, Clocked RS, D-type and JK) circuits using NAND gates – 01Pc</b>  Technical Specification : DC Supply : +5V/250mA (Fixed) Data Switch : 0-5V-4nos , LED Indication : 2nos, Clock Pulse : High &amp; Low Quad 4 IC7846 : 3nos, Quad 4 IC7404 : 2nos, Quad 4 IC7432 : 1no, Quad 4IC7483: 1no</p>		
12	<p><b>To design an astable &amp; monostable multivibrator of given specifications using 555 Timer – 01Pc</b>  Technical Specification : DC Supply : 5V, IC : NE555, Led Indicator : 2nos,Resistor : 100K<math>\Omega</math>-2nos,10K<math>\Omega</math>-2nos,1K<math>\Omega</math>,Capacitor :1<math>\mu</math>F,0.1<math>\mu</math>F-2nos,0.01<math>\mu</math>F-2nos,10<math>\mu</math>F, Variable Resistor : 5K<math>\Omega</math>, Optional essential accessories: 20MHz Dual Channel Analog Oscilloscope.</p>		
13	<p><b>To determine the value of e/m by (a) Magnetic focusing – 01Pc</b>  Technical Specification: To study charge of an electron by using Magnetic Focusing method.Kit comprises of High voltage Power Supply with intensity, focus X, Y deflection &amp; Solenoid current controls.Two meters provided for acceleration voltage &amp; for solenoid current controls. One 3"CRT mounted on Teak Wood Stand &amp; a Ring Type Solenoid slides over the CRT.Dimension 11"x7"x4".</p>		

14	<p><b>Tunneling effect in tunnel diode using I-V characteristics-Digital - 01Pc</b></p> <p>Technical Specification: Inbuilt Fixed DC regulated power supply DC Voltmeter : 0-600mV, DC Ammeter : 0-50mA, Tunnel Diode : IN 3717</p>		
15	<p><b>To determine mechanical equivalent of heat J by callender and barne's constant flow method. - Complete System in all Respect. - 01Pc</b></p> <p>Technical Specification : Calendar and Barn's continuous flow calorimeter, AC Ammeter : 0- 3A (Moving Coil), AC Voltmeter : 0-10V (Moving Coil), Thermometers : 10°C to 100°C -2nos, Measuring cylinder : 0 to 100mg, DC Supply : 2V to 12V/3A, Three Flow Water containg Beaker -1 no, Rubber tubing : 8mm - 2Meter, Digital Stop-watch.</p>		
16	<p><b>Study of V-I &amp; power curves of solar cells, and find maximum power point &amp; efficiency - 01Pc</b></p> <p>Technical Specification: DC Ammeter Range: 0-200mA, DC Voltmeter Range: 0-500mV, Ammeter Display: Analog Moving Coil, Voltmeter Display: Analog Moving Coil, Solar Cell, Light Source: 100W with intensity control , Range Selector Restive Load: 10Ω, 22Ω, 47Ω, 56Ω, 68Ω, 82Ω, 100Ω, 150Ω, 180Ω, 1KΩ</p>		
17	<p><b>To determine the wavelength of laser source using diffraction of single slit</b>  <b>To determine the wavelength of laser source using diffraction of double slits - 01Pc</b></p> <p>Technical Specification: <b>OPTICAL BENCH</b>- Material: Black Aluminum alloy, Type: Hexagonal section, Scale: 0-100cm, Least count: 1mm, <b>DIODE LASER</b>- Peak wavelength: 635nm, Operating voltage: 5V DC, Operating current: 250mA, Optical power: 0.40-0.8mW, Laser product: Class II, Operating temp. : 0-40°C, Storage temp. : -10 to 50 °C, <b>PIN HOLE PHOTO DETECTOR</b>- Detector: Silicon photocell, Terminals: 4mm safety socket, Aperture: 1mm, Rod: 10mm diameter, <b>SLIT HOLDER</b>- Clear Aperture: 45x45mm, Object holder: Clip type, Mounting Rod: 10mm diameter, <b>SADDLE WITH MICROMETER</b>- Material: Aluminium, Transverse Motion: 10-0-10mm, Least count: 0.02mm, Locking: Spring loaded, Motion: X-Y axis, Holder: 10mm dia, <b>SINGLE WIRE</b>- Frame Size: 50mm x 50mm, Clear aperture: 15mm dia. (approx.), Wire thickness: 0.5mm (approx.), <b>CROSS WIRE</b>- Frame Size: 50mm x 50mm, Clear aperture: 15mm dia. (approx.), Wire thickness: 0.5mm (approx.), <b>TRANSVERSE SADDLE</b>- Material: Aluminium, Locking: Spring loaded, Motion: X-Y axis, Holder: 10mm dia, <b>DIGITAL MULTIMETER</b>- Resistance: 200W, 2000W, 20k, 200k &amp; 2000k W., D.C. Voltage: 200 &amp; 2000, mV: 20, 200 &amp; 600V, AC Voltage: 200 &amp; 600V, D.C. Current: 200 &amp; 2000mA, 10A, Testing: Diode &amp; transistor, Battery: 9V, <b>DIFFRACTION SLIDE</b>- Frame Size: 50mm x 50mm, Slit: Width=0.06mm &amp; Separation=0.20mm (Single, Double), Diffraction grating: 80 lines /mm, Diffraction grating: 300 lines /mm, Single slit: Tapered, Double slit: Tapered, Metal gauze: 300 mesh, All individually mounted in slide frames and protected by two Glass plates</p>		

S/d

Principal  
Saraswata Mahavidyalaya,  
Anantapur, Balasore

## DEPARTMENT OF CHEMISTRY

### LIST OF APPARATUS FOR

(Make: Biolinkk/Spantocetk/Spectronics/Contech/Denvar/Prime)

Sl No.	Apparatus Name & Technical Specification	Vendor Specification	Deviation if any
1	<p><b>Spectrophotometer ( UV-Visible) -Single beam (with accessories) – 1Pc</b>                      Technical Specification - Optical System: Single beam, grating 1200 lines/mm, Wavelength Range: 190-1000nm, Bandwidth:2nm, Wavelength Accuracy: <math>\pm 1</math>nm , Wavelength Repeatability: 0.5nm, Wavelength Setting: Auto, Photometric Accuracy: <math>\pm 0.5\%</math>T, Photometric Repeatability: 0.3%T, Photometric Range: -0.3-3A, 0-200%T, Stray Light: <math>\leq 0.3\%</math>T, Stability: <b>+0.002A/h@500nm</b>, Display: 128*64 Dots LCD, Detector: Silicon Photodiode, Standard cell holder: 4-position 10mm cell changer, Light Source: Tungsten &amp; Deuterium Lamp, Output: USB port &amp; Parallel Port (printer), Power: AC 85-250V, Dimension: 420x280x180mm, Weight: 12kg, USB Cable, 4 Glass Cell (1cm), 2 Quartz Cell (1cm), Operating Manual, Dust Cover, Software CD, Software Key, Software Manual, Power Cable with Computer</p>		
02	<p><b>Digital pH Meter- Microprocessor based – 1Pc</b>                      Technical Specification - pH range: 0-14 Ph, pH resolution: 0.01pH, pH Accuracy: <math>\pm 0.02</math> pH, Temperature compensation: Automatic or Manual, Temp. Range: 0-100 deg C, mV range: <math>\pm 1999</math>mV, mV resolution: 1mV, mV Accuracy: <math>\pm 1</math>mV, Electrode: pH combination electrode with built in temperature sensor – Plastic-EpHP02, Temp. Electrode: Built in, pH, mV and temp. Measurement, 3 point ph calibration, automatic buffer recognition, Buffers selectable from 1.68pH, 4.00pH, 4.01pH, 6.86pH, 7.00pH, 9.18pH, 9.20pH, 10.01pH and 12.45pH, Bi directional RS 232 interface. Baud rate selectable from 1200, 2400, 4800 and 9600, Real time clock, Memory storage of 100pH measurements</p>		
03	<p><b>Digital Colony Counter – 1Pc</b>                      Technical Specification - 3 Digits &amp; 4 Digits LED Display Range 0-999 with 150 Memory, Hold and Count Correction Facility, Data Restored Even After Power Failure</p>		
04	<p><b>Digital Conductivity Meter - Microprocessor Based – 1Pc</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: <math>\pm 1\%</math>FS, Temp.: <math>\pm 0.4</math> 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</p>		
05	<p><b>Analytical Balance – 1Pc</b>                      Technical Specification: Max Capacity: 220gm, Readability: 0.001g, Tare Range: Full, Repeatability: <math>\pm 0.001</math>g, Linearity: <math>\pm 0.002</math>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</p>		

06	<p><b>Digital Potentiometer (with 2 Electrodes) – 1Pc</b></p> <p>Technical Specification: Range: 0 to + 199.9mV, 0 to + 1999 mV, Resolution: 0.1mV, Repeatability: +1mV, Accuracy: +1mV +1 digit, Input impedance: &gt; 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 &amp; 7 pH, Operation Manual, Electrode Stand, and Dust Cover</p>		
07	<p><b>Microprocessor Melting Point Apparatus – 1Pc</b></p> <p>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</p>		
08	<p><b>MICRO CENTRIFUGE HIGH SPEED 10000 R.P.M – 1Pc (Microprocessor based)</b></p> <p>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</p>		
09	<p><b>Digital Hot Plate with Magnetic Stirrer (Ceramic Plate) – 1Pc</b></p> <p>Technical Specification: Work plate dimensions: 135mm(5 inch), Work plate material: stainless steel cover with ceramic, Motor type: DC motor, Motor rating input: 5W, Motor rating output: 3W, Power: 515W, Heating output: 500W, Voltage: 100-120/200-240V 50/60Hz, Stirring positions: 1, 18%, Max. stirring quantity: 3L, Max. magnetic bar[length]: 50mm, Speed range: 100-1500rpm, Speed display: LED, Temperature display: LED, Speed display resolution: ±1rpm, Heating temperature range: Room temp.-280, increment 1°C, Control accuracy of work plate: ±1°C(&lt;100°C) ±1%(&gt;100°C), Overheating protection: 320°C, Temperature display accuracy: ±1°C, External temperature sensor: PT1000 (accuracy ±0.5°C), "Hot" warning: 50°C, Protection class: IP21, Dimension [W x D x H]: 150×260×80mm,, Weight: 1.8kg, Permissible ambient temperature and humidity: 5-40°C 80% (Br Biochem)</p>		

S/d  
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Anantapur, Balasore

## DEPARTMENT OF ZOOLOGY

### LIST OF APPARATUS FOR

(Make: Biolinkk/Spancotek/Spectronics/Contech/Denvar/Prime/Novel/Omega India)

Sl No.	Apparatus Name & Technical Specification	Vendor Specification	Deviation if any
1	<p><b>Spectrophotometer ( UV-Visible) -Single beam (with accessories) - 01 Pc</b></p> <p style="text-align: right;">Technical</p> <p>Specification - Optical System: Single beam, grating 1200 lines/mm, Wavelength Range: 190-1000nm, Bandwidth:2nm, Wavelength Accuracy: <math>\pm 1</math>nm , Wavelength Repeatability: 0.5nm, Wavelength Setting: Auto, Photometric Accuracy: <math>\pm 0.5\%</math>T, Photometric Repeatability: 0.3%T, Photometric Range: -0.3-3A, 0-200%T, Stray Light: <math>\leq 0.3\%</math>T, Stability: <a href="#">+0.002A/h@500nm</a>, Display: 128*64 Dots LCD, Detector: Silicon Photodiode, Standard cell holder: 4-position 10mm cell changer, Light Source: Tungsten &amp; Deuterium Lamp, Output: USB port &amp; Parallel Port (printer), Power: AC 85-250V, Dimension: 420x280x180mm, Weight: 12kg, USB Cable, 4 Glass Cell (1cm), 2 Quartz Cell (1cm), Operating Manual, Dust Cover, Software CD, Software Key, Software Manual, Power Cable with Computer</p>		
02	<p><b>Analytical Balance - 01 Pc</b></p> <p>Technical Specification: Max Capacity: 220gm, Readability: 0.001g, Tare Range: Full, Repeatability: <math>\pm 0.001</math>g, Linearity: <math>\pm 0.002</math>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</p>		
03	<p><b>HOT AIR OVEN – 14x14X14 Outer MS &amp; Inner SS - 01 Pc</b></p> <p>Technical Specification: Size: 14"x14"x14", Temperature upto 250, Accuracy <math>\pm 1</math>, C double walled inner chamber of anodized Aluminum/ Stainless Steel, Elements on three sides</p>		
04	<p><b>MICRO CENTRIFUGE HIGH SPEED 10000 R.P.M (Microprocessor based)</b></p> <p>Technical Specification: Speed: 3000rpm - 10000rpm (step 1000rpm), Centrifugal Force: 1000g - 7500 g, Sample Capacity: 8 x 2.0ml /1.5ml / 0.5ml /0.2ml tube, (additional 0.5ml and 0.2ml tube carriers)2 x 8 x 0.2ml PCR tube, strip(tube strip only used when speed<math>\leq</math>6000rpm), Time Range: 1s - 999min, Noise: <math>\leq 55</math> Db, Dimension: 176 x 156 x 121 (mm), Net Weight: <math>\leq 1.5</math>kg, Power: 220V/110V 50-</p>		
05	<p><b>Binocular Microscope - 02 Pc</b></p> <p>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</p>		
06	<p><b>Compound Microscope with stage – 04 Pc</b></p> <p>Technical Specification: Achromatic objective: 10x, 45x (SL), and 100x Oil Immersion(SL), Eyepieces: 5x or 15x and 10x (Huygenian any two), Magnification Range: 50x-1500x &amp; Mechanical Stage</p>		

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Anantapur, Balasore

## **DEPARTMENT OF BOTANY**

### LIST OF APPARATUS FOR

(Make: Biolinkk/Spancotek/Spectronics/Contech/Denvar/Prime/Novel/Omega India)

SI No.	Apparatus Name & Technical Specification	Vendor Specification	Deviation if any
1	<p><b>Spectrophotometer ( UV-Visible) -Single beam (with accessories) -01Pc</b></p> <p>Technical Specification - Optical System: Single beam, grating 1200 lines/mm, Wavelength Range: 190-1000nm, Bandwidth:2nm, Wavelength Accuracy: <math>\pm 1</math>nm , Wavelength Repeatability: 0.5nm, Wavelength Setting: Auto, Photometric Accuracy: <math>\pm 0.5\%</math>T, Photometric Repeatability: 0.3%T, Photometric Range: -0.3-3A, 0-200%T, Stray Light: <math>\leq 0.3\%</math>T, Stability: <b>+0.002A/h@500nm</b>, Display: 128*64 Dots LCD, Detector: Silicon Photodiode, Standard cell holder: 4-position 10mm cell changer, Light Source: Tungsten &amp; Deuterium Lamp, Output: USB port &amp; Parallel Port (printer), Power: AC 85-250V, Dimension: 420x280x180mm, Weight: 12kg, USB Cable, 4 Glass Cell (1cm), 2 Quartz Cell (1cm), Operating Manual, Dust Cover, Software CD, Software Key, Software Manual, Power Cable with Computer</p>		
02	<p><b>Analytical Balance -01Pc</b></p> <p>Technical Specification: Max Capacity: 220gm, Readability: 0.001g, Tare Range: Full, Repeatability: <math>\pm 0.001</math>g, Linearity: <math>\pm 0.002</math>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</p>		
03	<p><b>HOT AIR OVEN – 14x14X14 Outer MS &amp; Inner SS -01Pc</b></p> <p>Technical Specification: Size: 14"x14"x14", Temperature upto 250, Accuracy <math>\pm 1</math>, C double walled inner chamber of anodized Aluminum/ Stainless Steel, Elements on three sides</p>		
04	<p><b>MICRO CENTRIFUGE HIGH SPEED 10000 R.P.M -01Pc (Microprocessor based)</b></p> <p>Technical Specification: Speed: 3000rpm - 10000rpm (step 1000rpm), Centrifugal Force: 1000g - 7500 g, Sample Capacity: 8 x 2.0ml /1.5ml / 0.5ml /0.2ml tube, (additional 0.5ml and 0.2ml tube carriers)2 x 8 x 0.2ml PCR tube, strip(tube strip only used when speed<math>\leq</math>6000rpm), Time Range: 1s - 999min, Noise: <math>\leq 55</math> Db, Dimension: 176 x 156 x 121 (mm), Net Weight: <math>\leq 1.5</math>kg, Power: 220V/110V 50-60HZ</p>		
05	<p><b>Gel Electrophoresis Horizontal -01Pc</b></p> <p>Technical Specification: No of Samples: Upto 36, Buffer Volume: 400ml, Gel Size: 7x5cms, 13x6cms, 13x10cms (each), Dimension: 25.5cms(L) x 15.5cms(B) x 7cms(H), Bufer tank with positive and negative electrooes, Casting tray 7x5cms, 13x6cms, 13x10cms (1 no. Each) , 8-wells 1.5mm thickness comb (well width-5mm, interspace-3mm) (1nos.), 3-wells 1.5mm thickness preparative comb (well width-18mm, interspace-4mm)(1nos.), 13-wells 1.5mm thickness comb (well width-5mm, interspace-5mm) (2nos.), 18-wells 1.5mm thickness comb (well width-4mm, interspace-3mm) (2nos.), Power Chord with safety lid</p>		



06	<p><b>Binocular Microscope -01Pc</b></p> <p>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</p>		
07	<p><b>Compound Microscope with stage -05Pc</b></p> <p>Technical Specification: Achromatic objective: 10x, 45x (SL), and 100x Oil Immersion(SL), Eyepieces: 5x or 15x and 10x (Huygenian any two), Magnification Range: 50x-1500x &amp; Mechanical Stage</p>		
08	<p><b>Digital Water Bath -01Pc</b></p> <p>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</p>		
09	<p><b>Micropipette</b></p> <p>Technical Specification: Variable, Fully Autoclavable, Calibrated in accordance with ISO 8655 and each pipette supplied with individual test certificate (Br Biochem)</p>		

S/d  
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Anantapur, Balasore

# COMPUTER

SL NO	Name of the Article	Vendor Specification	Deviation if any
1	<b>Computer with UPS - 04Nos.</b> Technical Specification - Desktop-Intel Core i3, 10th generation, 4GB RAM, DDR4, 1 TB HDD with SSD, genuine Windows 10, 20" LCD monitor , UPS-600 VA output power capacity, leak proof battery		
02	<b>Printer - 04Nos.</b> All-in-One Laserjet Pro Printer with Duplex & Wi-Fi, W1A24A		

S/d  
Principal  
Saraswata Mahavidyalaya,  
Anantapur, Balasore

**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:

## 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/Company:

Seal of the

Farm/Agency/Company:

## **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 conform 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 thereof 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 down time exceeds seven consecutive days at any one time, the guarantee period will be extended beyond a foresaid 12 months by duration 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,  
Saraswata Mahavidyalaya  
Anantapur, Balasore, Odisha

Sub: Submission of willingness certificate to supply/ install (name of the item/Dept,) at yourcollege 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 thecollege, 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 SealDate:

Place:

**PAST WORK EXPERIENCES****Work of Similar nature (of value not less than 2 Lakhs) over the last 6 years**

<b>Sl. No</b>	<b>Name &amp; Address of 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 SealDate:

Place: