

**OFFICE OF THE PRINCIPAL**  
**SHISHU ANANTA MAHAVIDYALAYA, BALIPATNA, KHORDHA**  
**QUOTATION CALL NOTICE**

No. 721/SAM

Date 16/10/25

Purchase of various Laboratory Equipments/Instruments Accessories for the Department of Physics, Chemistry, Botany and Zoology From RUSA-2.0 Grant.

**NORMS AND CONDITION**

Shishu Ananta Degree Mahavidyalaya, Balipatna, Khordha, Odisha through Open Tender Enquiry (OTE) invites expression of interest (EOI) from registered reputed original manufacturing companies/Firms on their authorized partners/agents/distributors to supply various laboratory equipments/instruments/accessories for the Department of Physics, Chemistry, Botany and Zoology as listed in scheduled-I (Part – A,B,C,D,E,F,G,H,I,J). EOI cum tender bid fee of Rs.1000/- (Rupees One thousand only – Non-refundable) by Demand Draft drawn in favour of “Principal, Shishu Ananta Mahavidyalaya, Balipatna, Khordha” payable at Balipatna to be submitted along with EOI bid/quotation.

1. **Quotation submission:** Single bid for supply, installation and commissioning of the items listed in schedule Annexure (A),(B),(C),(D),(E),(F),(G),(H),(I),(J) can be submitted separately in a duly sealed envelope and super scribed bid for schedule No. 721/SAM/16/10/25 to “PRINCIPAL, SHISHU ANANTA DEGREE MAHAVIDYALAYA, BALIPATNA, PIN-752102, KHORDHA, ODISHA, INDIA” by Speed post/Registered post only. It should be reached on or before 28/10/2025 by 3.00 PM.
2. **DUE AND OPENING DATES**  
The quotation will be opened on dt. 07/11/2025 at 12.30 PM in the Principal's chamber of the college before the concerned RUSA Committee, Advisory Committee and Central Purchase Committee formed by the college. In case opening date happens to be on Holiday, the tender will be opened on next working day at the same time and location concerned above said committee has the discretion to finalize the quotation for their departments.
3. The college is not responsible for non-receipt of quotation within the specified date and time due to any reason including postal delay or holidays.
4. For any query pertaining to this bid document, correspondence be addressed to Mr. Pranakrushna Gochhayat, RUSA Coordinator, Mobile No.-9238804827 of Shishu Ananta Degree Mahavidyalaya, Balipatna, Khordha, Odisha, Pin-752102 or Principal, Shishu Ananta Mahavidyalaya, Balipatna having Mobile No. 8658212727.
5. The vendor must submit the following documents in the sealed Envelope.
  - a. **PROFILE AND DECLARATION:** Bidder's profile and declaration certificate (Annexure- (A), (B), (C),(D), (E),(F),(G),(H),(I),(J)) is to be submitted along with quotation and other documents.

- b. **EQUIPMENT SPECIFICATIONS:** Specifications are basic essence of the product. It must be ensured that the tenders must be strictly as per our specifications. At the same time, it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation is to be supported with the printed technical leaflet/ Literature of the quoted model of the item by the quoting party/manufacture and the specifications mentioned in the quotation must be reflected/ supported by the printed technical leaflet/ literature. Therefore, the model quoted invariable be highlighted in the leaflet/literature enclosed with the quotation.
- c. Authorised partner / dealer distributor must submit appropriate authorisation certificate from the original manufacturer for participation in the said quotation bid.
- d. EOI cum tender bid fee of Rs. 1000/- by demand draft drawn in favour of "The Principal, Shishu Ananta Mahavidyalaya, Balipatna, Khordha, Odisha, India".
- e. Attested copy of PAN card, Aadhaar card and GST registration papers.
- f. Audited statement of Accounts and IT returns for the last three years.
- g. Name and address of past satisfactory supplies with minimum two Pos to whom such items/stores have been supplied should be mentioned in the technical bid.
- h. Copy of mandatory test reports, national testing / reliability and endurance test reports etc. certified or conducted at the manufacturing site, granted by the bureaus/ quality control departments/ national testing laboratories.
- i. The OEMs/Vendors need to submit a certificate that they are not currently debarred or blacklisted (Annexure-E) for any supplies, products or services or at present in any national organization or educational institute/ College.
- j. Offer should be a page numbered and signed by an authorized signature giving his/her name and designation document company seal, agreeing to the terms and conditions and declaration.
- k. The vendor must submit the price information mentioning all taxes/duties as per Annexure-D. The price should be quoted in words and in figures, without any errors, erasures or alteration. Unit price of each product and accessories should be quoted separately. Maximum educational discount for college as could be offered should also be mentioned. [The bidders should mention in the quotation the rate/amount, warranty/guaranty of equipment's as per Govt. guideline uploaded in the website.
- l. The quoting party should give a certificate to the effect that the quoted prices are the minimum and they have not quoted the same item on lesser rates than those being offered to any college/ to any other customer.
- m. Banker's solvency certificates
6. **PURCHASER'S RIGHT:** - The purchaser reserves the right to accept or reject any bid, and to ~~annul~~ the bidding process and reject all bids at any time prior to award of contract without assigning any reason.
7. **OFFER VALIDITY PERIOD:** - Bid shall remain valid at least for a period 120 days after the date of opening bid prescribed by the purchaser. A bid valid for a shorter period may be rejected by the purchaser as non-responsive. In exceptional circumstances, the purchaser may solicit the bidder's consent to an extension of the period of validity. The request and the response there to shall be made in writing or by e-mail.



8. **COST OF THE EQUIPMENTS/ITEMS/ACCESSORIES MENTIONED ON WEBSITE:** - Please quote best minimum prices as far as practicable and applicable for a premiere Educational Institution. The cost of the equipment/items should be inclusive of all taxes and statutory levies. Labour installation charges, packing, insurance, freight, Pre installation requirements etc., should be mentioned separately (inclusive of all taxes liveable on them). Price to be quoted for delivery at Shishu Ananta Mahavidyalaya, Balipatna, Khordha, Odisha, India.
9. The equipment/ instrument must be guaranteed/ warranted for a period of at least one year \_\_\_\_\_ from the date of its satisfactory installation/commissioning against all manufacturing defects. If the equipment is found defective during this period of whole equipment or part thereof will have to be replaced/ repaired by the supplier free of cost at the lab, or at site of the supplier for which "to and fro" expenses will be borne by the supplier. Availability of spare parts of the equipment / instrument must be guaranteed for a period as per the Govt. guideline uploaded in the website in the specifications of the item from the date of supply. The warranty period and validity of performance guarantee shall be extended for the period of delay in satisfactory installation and delay in warranty services. Besides this, company specified warranty period should be provided for different selected items as per the company norms.
10. **DELIVERY PERIOD:** - The complete delivery of goods, installation and commissioning of the equipments/ instruments / accessories should be made within 4 weeks from the date of issue of purchase order (PO) mentioned in the PO.
11. **INSTALLATION AND COMMISSIONING:** - Installation, commissioning and demonstration of the items procured should be free of cost at college.
12. **OEM SPECIFICATION:** - The OEM should be ISO-9000 and ISO-14001 certified company with due credits to energy conservation and green earth compliance (Copy of the certificate should be provided). Relevant documents of the OEM shall be enclosed, along with the Bid. Any explanation on this account shall be supported with documentary evidence from principals.
13. Firm has to quote their rates only on the format attached at Annexure-D. Rates quoted on other format or specifications are not be accepted.
14. The college does not bind itself to offer any explanation to those bidders whose Bids have not been acceptable by the Bid evaluation committee of the college.
15. The successful bidder with quoted price as approved by the college shall be considered for issue of purchase order only when the bidder fulfils all the terms and conditions laid down in quotation document / PO.
16. The specification and quantity indicated in the schedule Annexure (part-A, B, C, D, E, F, G, H, I, J). College reserves the right to increase or decrease the quantity or delete some or all of items depending on the needs of the college without assigning any reasons, there upon.
17. **PAYMENT ON BILL BASIS AFTER SUPPLY:** - No advance payment will be made at any circumstances. The payment will be made only after satisfactory installation, commissioning and performance of the equipment at SHIHU ANANTA MAHAVIDYALAYA,

BALIPATNA, KHORDHA, and after certification in the prescribed format (Annexure-F) by our technical expert/ Department In-charge.

18. College may accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid. The college as its discretion may change the quantity/ upgrade the criteria/drop any item or part thereof at any time before and after placing the purchase order.
19. The bids once submitted shall be the property of the college and shall not be returned to the vendor in future. A bid submitted with false information will not only be rejected but also the OEM/Vendor will be debarred from participation in future tendering process, Late or delayed submitted quotations/ offers shall not be considered at all. Post tender revisions/ corrections shall also not be considered.
20. **RESOLUTION OF DISPUTES:** - College and the vendor shall make every effort to resolve amicably, by direct informal negotiations, any disagreement or dispute arising between them under or in connection with contract. If after thirty days from the commencement of such informal negotiations, college and the vendor have been unable to resolve amicably a resolution by formal arbitration the Principal of college shall appoint a sole Arbitrator of the dispute who will not be related to the vendor and whose decision shall be final and binding. In case of any dispute, the decision of the Principal of this college shall be final and binding on the bidders.
21. **JURISDICTION:** - All disputes will be subject to Balipatna, Khordha, Odisha Jurisdiction only.
22. All Correction/ Corrigendum will be given in our website i.e. <http://www.samvbalipatna.in> only. Please visit college website regularly for information/updates.

RUSA Coordinator

PRINCIPAL

Shishu Ananta Mahavidyalaya  
Balipatna, Khordha

- Signature of members of committee.  
RUSA Committee, Central Purchase Committee  
and Principal Advisory Committee

Principal Cum Secretary  
S. A. Degree Mahavidyalaya  
Balipatna, Khordha

Ashok Kumar Bhadani 16/10/25

16/10/25

16/10/25

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16.10.25

16.10.25

FORMAT TO BE FILLED BY THE MANUFACTURES/ INDIAN AGENTS (ON BEHALF OF THEIR FOREIGN PRINCIPLES) OR THEIR AUTHORIZED COUNTRY DISTRIBUTORS/ REPRESENTING DEALERS/ REGIONAL AGENCIES, SUBMITTING TENDER BIDDER PROFILE (TECHNICAL)

Sl. No.	Details	
1	Name of the Firm	
2	EOI Fee Details Name of Bank Amount Date	
	Name of Bank	
	Amount	
	Date	
3	Registered Office address	
	Telephone Number	
	Fax Number	
	E-Mail	
4	Correspondence/ Contact Address	
5	Details of Contact Person (Name, Designation, Address etc.)	
	Telephone number	
	Fax number	
	E-Mail	
6	Is the firm a registered company? If yes, Submit Documentary proof. Year and Place of the establishment of the company	
7	Bidder's Bank Details Name of Bank	
	A/C No.	
	IFSC Code:	
8	Government /Public Sector Undertaking propriety firm partnership firm (if yes, give partnership deed) limited company or limited corporation member of a group of companies (if yes, give name and address, and description of other companies) subsidiary of large corporation (if yes, give the name and address of the parent organization)	
9	Is the firm registered with sales tax department? If yes, submit valid sales tax registration certificate.	
10	Is the firm registered for service tax with Service Tax department? If yes, submit valid service tax registration certificate.	
11	What type best describes your firm? Manufacturer* Supplier* System Integrator* Consultant* Service Provider (pl. specify details)*	
12	Have you ever been denied tendering facilities by any Government/ Department/ Public Sector Undertaking? (Give details)	

Seal & Signature of Bidder



## Annexure - B

Sl. No.	Name of the Bidder	Turn Over (Rs. Crores) Total of three Financial Years			Average Turn Over for three years
		2022-23	2023-24	2024-25	

Note: Please enclose certificate issued by CA in this regard.

Seal & Signature of Bidder

## Annexure - C

**DECLARATION**

1. I .....Son/Daughter of Shri.....  
Proprietor/ Partner/ Director/ Authorized Signatory of M/s ..... am  
competent to sign this declaration and execute this EOI cum quotation bid document.
2. I have carefully read and understood all the terms and conditions of EOI cum quotation  
bid and hereby convey my acceptance of the same.
3. The information /documents furnished along with the above application are true and  
authentic to the best of my knowledge and belief.
4. I/ We/ am are well aware of the fact that furnishing of any false information / fabricated  
document would lead to rejection of my bid at any stage besides liabilities towards  
prosecution under appropriate law.
5. Our firm is neither blacklisted by any Government Department nor is any Criminal Case  
registered against the firm or its owner or partners or directors anywhere in India.
6. Each page of the quotation document and papers submitted by my Company is  
authenticated, sealed and signed, and I take full responsibility for the entire documents  
submitted.

Signature of the Authorized Person

Full Name.....

Date.....

Company Seal

Place.....

Mobile No.....

Note: 1. the above declaration, duly signed and sealed by the authorized signatory of the firm/  
company should be enclosed with the EOI cum quotation bid document.

2. Certificate as per the above must be submitted only on non-judicial stamp paper of suitable  
amount.

## ANNEXURE-D

**QUOTATION FORMAT**

Please quote rates for supply and installation of Laboratory Equipments (including transportation charges/ Labour charges etc.) for Department of Physics, Chemistry, Botany and Zoology.

For Equipments/Instruments:

Item No.	Name of Instrument/ Equipment with Specification	Unit Price	GST/any other Tax	Total Price (for delivery at S.A.M Balipatna, Khordha, Odisha)

Signature of the Authorized Person /Bidder

Full Name .....

Date.....

Company Seal

## ANNEXURE-E

**SELF DECLARATION FOR NOT BLACK LISTED**

To,

The Principal

Shishu Ananta Mahavidyalaya, Balipatna, Khordha

Ref: Quotation call notice no..... Dated.....

Madam/Sir,

I/We ..... hereby confirm that our firm has not been banned or black listed by any Government organization / Financial Institution/ Court/ Public sector Unit/ Central Government.

Date:

Place:

(Signature and Seal of the Firm / Quotationer)

**EQUIPMENT FUNCTIONAL CERTIFICATE**

This is to certify that the equipments supplied to the department of .....  
have been demonstrated before the faculty members of the department of  
..... regarding their functions. All the equipments are found ok and  
performed satisfactorily.

Signature of HOD

Department of .....

Signature of Service Engineer/Export  
of the Supplying Agency.

**LIST OF EQUIPMENTS TO BE PURCHASED  
(FOR DEPARTMENTS OF PHYSICS, CHEMISTRY, BOTANY AND ZOOLOGY)**



## DEPARTMENT OF PHYSICS

**(Complete set of Apparatus with INDOSAW/ PHYWE/ DIDA LAB/ OMEGA/ AELAB MAKE  
OR EQUIVALENT MADE/STANDARD)**

1. To study surface tension by capillary rise method.
2. To determine the height of a building using Sextant.
3. To study the Motion of Spring and calculate (a) Spring constant, (b)  $g$  and (c) Modulus of rigidity.
4. To determine the Moment of Inertia of a Flywheel.
5. To determine Coefficient of Viscosity of water by Capillary Flow Method (Poiseuille's method).
6. To determine the Modulus Rigidity of a wire by Maxwell's needle.
7. To determine the value of  $g$  using Bar Pendulum.
8. To determine the value of  $g$  using Kater's Pendulum.
9. To study the characteristics of series RC Circuit.
10. To determine an unknown Low Resistance using Potentiometer.
11. To determine an unknown Low Resistance using Carey Fosters Bridge.
12. To compare capacitances using DeSauty's bridge.
13. Measurement of field strength  $B$  and its variation in a solenoid (determine  $dB/dx$ )
14. To verify the Thevenin and Norton theorems.
15. To determine self-inductance of a coil by Andersons bridge.
16. To study response curve of a series LCR circuit and determine its (a) Resonant frequency, (b) impedance at resonance, (c) quality factor  $Q$ , and (d) Band width.
17. To study the response curve of a parallel LCR circuit and determine its (a) Anti-resonance frequency and (b) Quality factor  $Q$ .
18. To determine the frequency of an electric tuning fork by Melde's experiment and verify 2-T law.
19. To plot the I-D curve and to determine the refractive index of a prism.
20. To determine refractive index of the Material of a prism using sodium source.
21. To determine the dispersive power and Cauchy constants of the material of a prism using mercury source.
22. To determine wavelength of (1) Na source and (2) spectral lines of Hg source using plane diffraction grating
23. To determine dispersive power and resolving power of a plane diffraction grating.
24. To determine Mechanical Equivalent of Heat,  $J$ , by Callender and Barnes constant flow method.
25. To determine the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charltons disc method.
26. To determine the Temperature Coefficient of Resistance by Platinum Resistance Thermometer (PRT).
27. To study the variation of Thermo-emf of a Thermocouple with Difference of Temperature of its Two Junctions.

28. To determine J by Calorimeter.
29. To determine the specific heat of liquid by the method of cooling.
30. To determine the specific heat of solid by applying radiation correction.
31. To study the V-I characteristics of a Zener diode and its use as voltage regulator.
32. Study of V-I and power curves of solar cells and find maximum power point and efficiency.
33. To study the characteristics of a Bipolar Junction Transistor in CE configuration.
34. To study the various biasing configurations of BJT for normal class A operation.
35. To study the frequency response of voltage gain of a RC-coupled transistor amplifier.
36. To design a Wien bridge oscillator for given frequency using an op-amp.
37. To design a phase shift oscillator of given specifications using BJT.
38. To study the Colpitt's oscillator.
39. Use of an oscilloscope.
40. CRO as a versatile measuring device.
41. Circuit tracing of Laboratory electronic equipment.
42. Use of Digital multimeter /VTVM for measuring voltages.
43. Winding a coil/transformer.
44. Study the layout of receiver circuit.
45. Trouble shooting a circuit.
46. Balancing of bridges.
47. To observe the loading effect of a multimeter while measuring voltage across a low resistance and high resistance.
48. To observe the limitations of a multimeter for measuring high frequency voltage and currents.
49. To measure Q of a coil and its dependence on frequency, using Q-meter.
50. Measurement of voltage, frequency, time period and phase angle using CRO.
51. Measurement of time period, frequency, average period using universal counter/ frequency counter.
52. Measurement of rise, fall and delay times using a CRO.
53. Measurement of distortion of a RF signal generator using distortion factor meter.
54. Measurement of R, L, and C using a LCR bridge/ universal bridge.
55. Study of photoelectric effect.
56. Basics of GM counter characteristics and counting statistics.
57. Study of Gamma ray spectroscopy by SCA and MCA.
58. To determine the Plank's constant using LEDs of at least 4 different colours.
59. To determine the value of  $e/m$  by (a) Magnetic focusing or (b) Bar magnet.
60. To setup the Millikan oil drop apparatus and determine the charge of an electron.
61. To measure (a) Voltage, and (b) Time period of a periodic waveform using CRO and to test a Diode and Transistor using a Millimeter.
62. To design a switch (NOT gate) using a transistor.
63. To verify and design AND, OR, NOT and XOR gates using NAND gates.
64. Half Adder, Full Adder and 4-bit binary Adder.
65. Half Subtractor, Full Subtractor, Adder- Subtractor using Full Adder I.C.
66. To build Flip-Flop (RS, Clocked RS, D- type and JK) circuits using NAND gates.
67. To design an stable multivibrator of given specifications using 555 Timer.
68. To design a monostable multivibrator of given specifications using 555 Timer.

69. Study of Electron spin resonance- determine magnetic field as a function of the resonance frequency.
70. Study of Zeeman effect: with external magnetic field; Hyper fine splitting.
71. To show the tunnelling effect in tunnel diode using I-V characteristics.
72. Quantum efficiency of CCDs.
73. Measurement of susceptibility of paramagnetic solution (Quinck's Tube-Method).
74. To measure the Magnetic susceptibility of Solids.
75. To measure the Dielectric Constant of a dielectric Materials and variation with frequency.
76. To determine the Hall coefficient of a semiconductor sample.
77. To draw the BH curve of Fe using solenoid and to determine the energy loss from Hysteresis.
78. To measure the resistivity and band gap of a given semiconductor by four prob method.
79. To verify the law of Malus for plane polarized light
80. To determine the specific rotation of sugar solution using Polarimeter.
81. To analyze elliptically polarized Light by using a Babinets compensator.
82. To determine the refractive index of liquid by total internal reflection using Wollastons air-film.
83. To determine the refractive Index of (1) glass and (2) a liquid by total internal reflection using a Gaussian eye piece.
84. To study the polarization of light by reflection and determine the polarizing angle for air-glass interface.
85. To verify the Stefan's law of radiation and to determine Stefan's constant.
86. To determine the Boltzmann constant using V-I characteristics of PN junction diode.



**DEPARTMENT OF CHEMISTRY**  
**(LIST OF APPARATUS AND CHEMICALS)**

1. UV-Visible spectrophotometer (Chemiline CL-1320, systronic & others) – 1 No.
2. Conductivity meter (Chemiline model – CL-220) – 1 No.
3. PH meter (model CL-110) – 1 No.
4. Display table size (l×w×h) (5ft×2.6"×2.6") – 1 No.
5. Test tube (Pragati)(15×125mm)
6. Stalagmometer – 6 Nos.
7. Potassium iodide – 500g.
8. Sodium Chloride – 500g.
9. Cyclohexane – (500ml.×4) – 2 lit.
10. Ethanol – (500ml.×2) – 1 lit.
11. Ferrous sulphate – (100g.×5) – 500g.
12. Methyl ketone – 250g.
13. Calcium chloride - 500g.
14. Magnesium sulphate – 250g.
15. Magnesium sulphate – 250g.

**DEPARTMENT OF BOTANY**  
**(LIST OF LABORATORY EQUIPMENTS)**

List of Laboratory equipments

- 1 Laminar Air Flow
- 2 Autoclave
3. Magnetic Stirrer
- 4.Hot Plate
- 5.MicroPipette ( Different size)
- 6.UV Visible Spectroscope.
- 7.BOD Incubator
8. Gel Electrophoresis with Kit.
- 9.Water Bath
10. Soil Thermometer
- 11.TLC Kit
12. Trinocular Microscope with digital Display.

**DEPARTMENT OF ZOOLOGY**  
**(LIST OF LABORATORY EQUIPMENTS)**

List of Laboratory equipments

- 1.Colorimeter (Digital)
2. Staining Rack
- 3.Rod ring
4. Light microscope (Trinocular)
- 5.Themometer.
- 6.Water bath
- 7.Sphygmomanometer
- 8.Digital Colony Counter
- 9.Titration set
- 10.Soil thermometer
- 11 Digital turbidity meter
- 12.Hot air oven
- 13.Autoclave
- 14.Compound and Light microsciope
- 15.Glas covered Human skeleton
- 16.Staining Bottle.
- 17.Beak of Birds mode
- 18.Laminar Air Flow (Vertical)
- 19.Incubator