



# SALDIHA COLLEGE

[ B+Re-Accredited by NAAC ]

P.O. SALDIHA • DIST. BANKURA • PIN-722173

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NIT: 06/2018-19

Dated: 07.03.2019

## E- Tender Notice

1. **Saldiha College**, Bankura intends to procure Lab Instruments for science departments. The tentative quantity of the required items along with technical configuration of each items are mentioned at Annexure separately. Saldiha College is looking for interested bidders who have experience in supplying of above type of instruments.

2. Bidders are advised to study all technical and financial aspects, instructions, forms, terms and specifications carefully in the tender document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender document in every respect will be at the Bidder's risk and may result in the rejection of the bid.

3. Intending bidder may download the tender documents from the website <https://wbenders.gov.in> or [www.saldihacollege.com](http://www.saldihacollege.com). **Only online Submission of Tender will be accepted. Last date of submission: 23/03/2019 up to 12:00 hrs. Opening Date 23/03/2019, 1 PM.**

4. The categories of items and quantity indicated in the Tender Document are tentative. Saldiha College, however, reserves the right to increase or decrease the quantity or delete some or all of the items depending on the needs of the Saldiha College and availability of funds without assigning any reasons.

5. The bidder should indicate specifically the **Basic Price, Taxes, GST, Entry tax, other duties (if any)**, and levies chargeable quantitatively against each item. **College will assist to have way bill (if necessary) but the pay will be borne by the bidder.** No additional information will be entertained after due date. Saldiha College may reject bids if they do not carry such information separate and specifically quantitatively.

6. The tender should be submitted in two cover system (electronically) as defined in E-Tender participation system: (a) Technical Bid (b) Financial Bid.

7. The bidder should clearly indicate the delivery period and validity period of tender.
8. The bidder should clearly indicate whether the service facilities and maintenance facilities for the items quoted at Bankura is available or not.
9. The bidders are required to quote for each item separately in terms of basic price and all other charges. Prices can be quoted in Multi Currency.
10. The bidder (Technical Bid) must be submitted along with the copies of OEM license or authority from the manufacturer.
11. Saldiha College reserves the right to reject any or all tenders without assigning any reason whatsoever.
12. No advance payment or payment against Performa invoice will be made. Payment will be made after receipt, inspection, and installation/testing.
13. All damaged or unapproved goods shall be returned at the bidder's risk and cost and the incidental expenditure thereupon shall be recovered from the concerned party.
14. On acceptance of tender, the date of delivery should be strictly adhered to otherwise, the Saldiha College reserves the right not to accept the delivery in full or in part. In case the order is not executed within the stipulated period, the Saldiha College will be at liberty to make purchases through other sources.
15. Payment of bill will be made through by crossed account payee Cheque or electronic payment (NEFT) only after delivery and successful installation of each of the items.
16. Delivery Schedule: The Company shall be able to deliver the required items within 15 days of the receipt of order. Delivery/Installation is to be done at Saldiha College, Saldiha, Bankura, West Bengal.
17. Warranty : All the products must carry minimum one year comprehensive warranty.
18. The products asked for should be of very high standard and of mentioned brand.
19. **Liquidated Damages** : The Company shall be liable to indemnify the Saldiha College in all respects and meet and pay off the litigation expenses and all the liabilities including damages, sums etc. arising out of and as a consequence of the negligence, deficiencies, mistakes, lapses, delays etc. in the execution of the various jobs and the services provided.
20. The company should ensure quick back up response in case of equipment failure which should be replaced if needed within 48 hours of the distress call.

21. **Payment:** There is no provision for making advance payment to the Company. However, the running bills for the jobs completed can be submitted by the company and will be cleared for payment within reasonable period.

22. **Purchase Order:** The purchase order for the entire quantity can be placed either in one lump sum or as per the requirement through repeat order subject to availability of fund of the required items. The quantity shown is tentative and may increase or decrease.

Principal  
Saldiha College  
Saldiha, Bankura

## Annexure 1

### Proforma for Technical Bid

SL. NO.	Particulars	Information
1	Name of the Firm & Owner : (with Telephone/Mobile Numbers, email)	
2	Type of Organisation (Proprietorship/Partnership/Pvt. Ltd./Limited Company) Month/Year of Establishment	
3	Website of Bidder, if any	
4	Month/Year of Establishment	
5	PAN/Sales Tax/VAT Regd. Nos.	
6	Annual Turnover 2017-18	
7	Whether product(s) offered by the bidders are exactly as per the configuration of Saldiha College. If not, indicate the changes in each product	
8	Clientele (submit copies)	
9	Validity of Tender	
10	Whether Terms & Conditions issued by Saldiha College are acceptable to the Firm	
11	Whether Warranty as per the desired specification	

**\*\* Bidder should only quote rate for 1 unit of each item in BOQ.**

Date

Name:

Designation:

Signature of Owner/Authorized Representative

## E-TENDER SPECIFICATION

Sl. No.	Item	Specification	Quantity
1	<b><u>Double Beam UV VIS Spectrophotometer</u></b>	<p><b>SALIENT FEATURES</b> Microprocessor based UV-VIS Spectrophotometer with high resolution colour touch screen display for operation on 220V / 50Hz.</p> <ul style="list-style-type: none"> <li>▪ Stand-alone operation as well as complete control through PC with PC software supplied as standard</li> <li>▪ True double beam optics with aberration corrected concave blazed holographic grating in Czerny – Turner mounting for high energy throughput and high quality monochromatic light</li> <li>▪ Wide wavelength range of <b>1,100 nm to 190 nm</b></li> <li>▪ High resolution <b>1 nm</b> spectral bandwidth over entire wavelength range</li> <li>▪ Wavelength setting and display in steps of 0.1nm</li> <li>▪ Wavelength accuracy of <math>\pm 0.1\text{nm}</math> for D<sub>2</sub> spectral line</li> <li>▪ Wavelength reproducibility of <math>\pm 0.1\text{nm}</math></li> <li>▪ Wavelength Slew rate: <math>\geq 14,500 \text{ nm/min}</math></li> <li>▪ Variable wavelength scanning speed: <math>\geq 3,000 \text{ nm/min}</math> to <math>2 \text{ nm/min}</math> <span style="padding-left: 150px;"><math>29,000 \text{ nm/min}</math></span> when survey scanning</li> <li>▪ Ultra low stray light of <math>&lt;0.02\%T</math> at 220nm with NaI filter</li> <li>▪ Wide Photometric range of -4 to +4 Abs and 0 to 400 %T</li> <li>▪ High Photometric Accuracy of <math>\pm 0.002 \text{ Abs}</math> at 0.5 Abs</li> <li>▪ High Photometric Repeatability of <math>\pm 0.0002 \text{ Abs}</math> at 0.5 Abs</li> <li>▪ Baseline stability: <math>&lt; 0.0003 \text{ Abs/Hr}</math> (700 nm, one hour after light source turned ON)</li> <li>▪ Ultra low Photometric noise of <math>&lt; 0.00005 \text{ Abs}</math> (700 nm)</li> <li>▪ Dual source – high intensity Tungsten-Halogen and Deuterium lamp with automatic changeover</li> <li>▪ High sensitivity matched pair Silicon Photodiode detector</li> <li>▪ 5 USB ports for high speed PC and printer connectivity, data storage and transfer through USB pen drive</li> <li>▪ Guaranteed compliance with all Pharmacopoeia</li> </ul>	01

Sl. No.	Item	Specification	Quantity
		requirements <ul style="list-style-type: none"> <li>▪ Built in validation program, diagnostic and security functions</li> <li>▪ All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, DNA and Protein Quantitation in stand alone and PC mode. Additionally Multi-Component measurement available in stand-alone mode.</li> <li>▪ Large sample compartment compatible with wide range of accessories</li> <li>▪ Must supply one pair of 10mm path length Quartz Cuvettes of 3.5 ml volume as a standard supply</li> <li>▪ Branded PC with Original must be supplied with the system</li> <li>▪ 12 months warranty from the date of installation</li> </ul>	
2	pH meter	<b>Brand name</b> <b>Elico LI 614</b> Accessories supplied: Combine pH Electrode, Reference Electrode, Electrode stand with holding clamp, Buffer tablet, sample containers and RTD Probe, Temperature sensor	01
3	Conductivity Meter	<b>Brand name</b> <b>Elico CM 183</b> Accessories supplied: Electrode stand with holding clamp, , Thermo Probe, Dip type Conductivity Cell of Cell Constant 0.1, 0.5 and 1.0	01
4	Bomb Calorimeter	Make S.S. Company	01
5	Senior Rotary Microtome	Make Westwox	01
6	Compound Microscope	<b>Brand name</b> <b>Olympus</b> <ol style="list-style-type: none"> <li>1. Two or more convex lenses</li> <li>2. Typical magnification range between 40x and 1000x</li> <li>3. One objective is used at a time</li> <li>4. Two-dimensional images</li> <li>5. Available in monocular, binocular and trinocular configurations</li> </ol>	02

Sl. No.	Item	Specification	Quantity
7	Set up for determination of the wavelength of laser source using diffraction of single slit and double slit. (full set up)	DEVCO make	01
8	To determine work function of material of filament of directly heated vacuum diode. (full set up)		01
9	Hydrogen source/discharge tube with power supply and cabinet/stand.	DEVCO make. (For H-alpha emission line of Hydrogen atom.)	01
10	To determine the value of e/m by cathode ray tube and Bar magnet. (full set up)	Make- SES Instrument Pvt. Ltd. (model EMX-01 or similar model)	01
11	To design a digital to analog converter (DAC) of given specifications.	(full set up/ trainer kit with IC fitted)	01
12	Audio oscillator/function generator, 1 Hz to 1Mhz with frequency counter and display.	Make - Metravi	01
13	Iodine source/vapor tube with power supply/accessories/cabinet.	Make- Friends Scientific.	01
14	To show the tunneling effect in tunnel diode using I-V characteristics. (full set up)		01
15	To determine the Coefficient of Thermal Conductivity of Cu by Searle's Apparatus. DEVCO make (full set up).		01
16	Measurement of Planck's constant using black body radiation and photo-detector.	Make- SES Instrument Pvt.	01
17	Photo-electric effect: photo current versus intensity and wavelength of light; maximum energy of photo-electrons versus frequency of light.	Make-SES Instruments Pvt Ltd.	01
18	To draw the BH curve of Fe using Solenoid & determine energy loss from Hysteresis (compact set up) Without CRO, (.full set up)	Make- Friend Scientific.	01
19	To measure the resistivity of a semiconductor (Ge) with temperature by four-probe method (room temperature to 150°C) and to determine its band gap. (full set up)	Make- SES Instruments Pvt Ltd.	01

20	Mercury vapour lamp (to be connected to direct main AC line),	Philips make	02
21	Sodium vapour lamp (35W) ,	Philips make	02
22	-12V-0-12 Voltt-1A dc power supply		01
23	0-12V variable power supply, 2A with digital display		01
24	-12V-0- +12 Voltt-1A dc power supply		01
25	Digital multimeter (AC/DC voltage, current, resistance, capacitance measurement facility, 3 and 1/2 digital display, )		01
26	Digital milli ammeter 0-100 mA (0.01mA resolution)		02
22	Potentiometer bridge with jockey (standard 10 wire, 20 Ohm),	DEVCO make	02