

**OFFICE OF THE PRINCIPAL,
SVM, AUTONOMOUS COLLEGE, JAGATSINGHPUR**

Jagatsingpur, Odisha-754103

**TENDER CALL NOTICE FOR LABORATORY
EQUIPMENTS/CHEMICAL/GLASSWARE**

No-1581

Dt:06/07/2024

Sealed quotations are invited from the intending registered Suppliers / dealers/ firms having valid GST registration/ Tax Clearance Certificate of last three years/ PAN Card for supply of **"Laboratory Furniture /Chemicals/Glassware/Lab Equipment's for department of Physics, Chemistry, Botany & Zoology** of reputed brand. Interested bidders may submit their quotations by **Registered Post / Speed Post only** on or before 17/07/2014 **(4:00P.M)**. Quotations received incomplete or after scheduled date and time shall be summarily rejected. The details of items, specifications, Terms and Conditions can be obtained from college web site www.svmcautonomous.ac.in. The Undersigned reserves the right to accept/reject or cancel any or all quotations without assigning any reasons thereof.

Prin
06/7/24

**Principal
SVM, AUTONOMOUS COLLEGE, JAGATSINGHPUR**

**PRINCIPAL
S.V.M.AUTONOMOUS COLLEGE
JAGATSINGHPUR**

Session-2024-25

TENDER FORM

Tender No & Date	Tender No:1581 Date: 06 /07/2024
Name of The Tenderer	SVM, AUTONOMOUS COLLEGE, JAGATSINGHPUR
List of Items	See in Annexure-II
Date of publication of tender notification on official website and newspapers	Date: 8/07/2024
Last date & Time for sale of tender form	Date: 17/07/2024
Last date & Time for submission of duly filled in Tender form	Date:17/07/2024 Time: 4.00 PM
Date & Time for opening of Tender	Date:19/07/20024 Time: 11.00 AM
Place of opening of Tender	Office of the Principal, SVM Autonomous College, Jagatsinghpur
Date and Time of the opening of Technical Bids	Date: 19/07/2024 Time 11.00 AM
Place of opening of Tender	Office of the Principal, SVM Autonomous College, Jagatsinghpur
Date and Time of the opening of Financial Bids	Date: 20/07/2024 Time 11.00 AM
Place of opening of Tender	Office of the Principal, SVM Autonomous College, Jagatsinghpur
Cost of Tender Form	Rs. 1,000.00 (Non-refundable) by shape of DD/ Online (NEFT/IMPS) Account Name: PRINCIPAL SVM COLLEGE Account No:18540110088043 IFS Code: UCBA0001854 Bank: UCO BANK
Earnest Money in Rupees	@ 02% of the Total Quoted value.

CHECK LIST

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

Note – If tender is not submitted in below mentioned manner by the tenderer, may be treated as Non-responsive & liable to be rejected

Sl. No.	Name of Document	Yes/No	Page No
1	CHECK –LIST		
2	Bidder Details(Annexure-I)		
3	Tender Fee		
4	Earnest Money Deposit (EMD)/ Bid Security		
5	Technical specification with Compliance Statement (Annexure-II) Department Wise		
6	Original Product catalogue for quoted product		
7	Catalogue with Plan Layout of Table & Room		
8	Dealership/ Authorization Certificate (In case of Dealer) -Up to Date		
9	GST Registration Certificate		
10	PAN Card Copy		
11	Audited Financial Statement of preceding last 03 Financial years		
12	Income Tax return of preceding last 03 financial years		
13	Copy of GSTR-3B for Last Months (In case of Dealer)		
14	Copy of ISO certificate		
15	Other documents required for eligibility and qualification (Service Related)		
16	Price schedule in prescribed format (Annexure-III) Department Wise		
17	Self-declaration for not having been black listed (Annexure-IV)		
18	Guarantee/Warranty (Annexure-V)		
19	Bank Guarantee Format (Annexure-VI)		
20	Letter of Willingness (Annexure-VII)		
21	The tenderer should have minimum 03 nos. of similar work orders during last three years in any of the Government organization Work Experience (Annexure-VIII)		
22	Bank Details of The Bidder (Annexure-IX)		
23	Photocopies of the work order		
24	Installation report of similar items Only		
25	Original Tender form Duly Signed & Stamp on each Page & Numbering		

Place:

Signature and with seal of tenderer

Date:

NOTICE INVITING TENDER

The **Principal, SVM Autonomous College, Jagatsinghpur** 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 **Principal, SVM Autonomous College, Jagatsinghpur**

"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 item) to Principal SVM Autonomous College, Jagatsinghpur."** The **Letter of Willingness, Tender Fee DD receipts towards cost of Tender form, Check List and the EMD draft should be kept in the Bigger Cover.**

In case of any clarification required relating to the tender kindly mail to us on this email id **svmcorissa@gmail.com**

Tender documents for supply of different items can be obtained from college office on all working days between 9A.M. and 1P.M on payment of a non-refundable cost of Tender form of Rs 1000/- in the form of a Demand Draft (DD)/ Online (NEFT/IMPS) PRINCIPAL SVM COLLEGE Account No:18540110088043, IFS Code: UCBA0001854, Bank: UCO BANK in favour of **Principal SVM College**. Payable UCO Bank . The tender document is not transferable to any other person.

I.Pre-Qualification Criteria

The bidder should meet the following pre-qualification criteria:

- I. The bidder must be a registered company in India, registered under the Companies Act 1956 and should be in existence since last 5 years or more. Consortium in any form is not allowed.
- II. The eligibility of the Bidder will be judged basis its own or the OEMs credentials. Hence, in case of bidder is channel Partner, the respective OEM has to authorize in writing on its letter head to allow the Partner in using its credentials for eligibility.
- III. OEMs / Channel partners of OEM's can participate in this tender. For execution of orders, OEM may declare in the Manufacturer's Authorization Form its channel partners who will be treated as supplier.
- IV. The OEMs / Channel partners of OEM's should have executed at least Three single order of Value Rs. 50 Lakh (Rupees Fifty Lakh Only) or more in last three financial years for supply and installation of Lab Table /Furniture and peripherals in Govt./ Semi Govt Colleges in the state of Odisha.
- V. The OEM/ Bidder shall have implemented at least 3 similar projects minimum worth Rs. 10 Lakh in Odisha Necessary proof of document needed to be furnished.

- VI. The OEMs / Channel partner's of OEM's should have presence in Odisha for last 5 (Five) financial years in the same business area with Odisha GST Number. Documentary evidence with self-attested is to be attached with the bid.
- VII. The Bidder should have an annual average turnover of Rs. 20 Lakh or above in the last three financial (Audited balance sheet along with CA certificate is to be submitted).
- VIII. The Bidder should have not been banned / black listed as on date by any Government Agencies / Govt. Department/ Quasi Govt Department / PSU / Board/ council or similar organization on grounds of non- performance, fraud practice, financial irregularities. A self declaration on the letterhead of the bidder duly signed and stamped by the Authorised Signatory to be submitted.
- IX. Tender document must be submitted along with all the relevant documents. This is required to show that the bidder had accepted all the terms and conditions mentioned in this tender document.
- X. However, of **SVM Autonomous College, Jagatsinghpur** Authority reserves the right to evaluate the Bidder's performance through the report from any Govt. Department / Quasi Govt. Dept / PSU / Board Council or similar organization at their own discretion or ask the bidder to produce service satisfaction certificate from the customer base mentioned as per above criteria.
- XI. Technical Brochures of items quoted. Printed and published Brochure and / or Web site reference essential (customised statement on OEM letter head or likes is not acceptable).
- XII. The bidder should have valid documentary proof of GST registration
- XIII. PAN registration number- Self-Certified Copy of PAN /GST registration
- XIV. The bidder should submit (self-attested) documentary proof in support of each of the above conditions. The Incomplete offers will be summarily rejected without any further correspondence.
- V. Bidders who will qualify basis the above criteria may be called for a technical presentation in order to evaluate the technical understanding and capability of the bidders. Tendering authority has all the rights to reject or select the bidders for further evaluation.
- VI. Tendering authority reserves the right to accept or reject any or all the offers without assigning any reason.

II. ADDITIONAL TERMS & CONDITIONS

The Projects are to be implemented on a turnkey basis in all the Science Department as given below. The successful bidders are responsible for supply including installation.

- A. Must have average annual turnover for the last 3 years should not be less than Rs 50 Lakhs. The bidder must submit copy of audited balance sheet and profit & loss account along with the acknowledgement of Income Tax Return as a proof in the **Technical Bid**.
- B. Should not have been blacklisted by any State Govt. / Central Govt. / PSU India. A self-declaration is required as per **Annexure IV**.
- C. Supplier must have ISO- 9001,1400,45001 certificate.
- D. Bidder should have Udyog Aadhar/ MSME/SSI Registration Certificate.
- E. The bidder should quote for all packages 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.
- F. 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.
- G. A self-declaration that the tenderer has not been blacklisted by any State Government/ / Central Govt. / PSU in India as per **Annexure IV**.
- H. Performance Statement- **Annexure-V**
- I. If any Technical conflict arises while evaluating the Technical Bid, **Principal SVM Autonomous College, Jagatsinghpur** may ask for **Live Demonstration** of same product in front of the Purchase committee.

1. LIST OF ITEMS:

Supply of Laboratory equipment's to **Principal SVM Autonomous College, Jagatsinghpur** 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. EARNEST MONEY DEPOSIT (EMD)

EMD, otherwise known as Bid Security is to be submitted by the bidder along with the bid in shape of bank draft or Banker's cheque in favour of **Principal SVM Autonomous College, Jagatsinghpur**. No other mode of payment will be accepted amount deposited against any other tender will not be considered for adjustment against this tender.

The amount of EMD to be submitted by the bidder shall be **02%** of the estimated value of the item. The Offers not accompanied by the required EMD are liable to be rejected.

- (i) The EMD will be returned to the unsuccessful bidders after expiry of the final bid validity period or within 30 working days from the date of issue of the work order whichever is earlier without any interest and Firms Registered under MSME (for Odisha State Only) are exempted from Submitting EMD. Bid security declaration should be provided along with MSME /Start-up proofs.

4. 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.

6. 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 **Principal SVM Autonomous College, Jagatsinghpur** through **Speed Post/ Registered Post** 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. 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 SVM Autonomous College, Jagatsinghpur** 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.

7. 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, the EMD amount deposited by him shall be forfeited and he shall be disqualified from participating in any future tender of the Institute.
- D. Rates should be offered unconditionally and if rates are submitted with any condition the tender shall be rejected.
- E. Tenderer shall have to quote item wise rates; consolidated rates shall not be considered and tender shall be liable to be rejected out rightly.
- F. Tenderer/Manufacturer should have extensive **experience of at least 05 years** of designing, manufacturing, Supplying, installation and commissioning of the required item.
- 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.
- N. 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 firm, 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 do to so, Principal may without prejudice to other Civil and Criminal remedies, cancel the contract and hold the signatory liable for all costs and damages.

8. PRICES

Firm 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 mis interpretations 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.

9. VALIDITY OF BID:

The bid will remain valid for 3 months from the date of opening of financial bid. The quoted price will remain firm and in case of acceptance of the tender the prices will remain firm till execution of the complete order and will not be subject to the price escalation on any account whatsoever.

10. TECHNICAL PREFERENCE BID EVALUATION PROCESS

Sl. No	Description	% Weightage
1	GENERAL DOCUMENTS (GST/VAT/PAN/ITR)	10%
2	EMD/TENDER FEES	10%
3	ISO Certificate	10%
4	MSME UDYOG AADHAR /SSI Certificate	10%
5	TECHNICAL CATALOG/ LITERATURE/DRAWINGS /	10%
6	PHYSICAL PRE DEMONSTRATION AT COLLEGE (ONLY)	20%
7	PO COPY (CENTRAL INST/ RESEARCH INST/ UNIVERSITIES (UGC) / RUSA COLLEGES WITH INSTALLATION COPY	10%

8	AFTER SALES CAPACITY / (PROOF) SERVICE WORK ORDER COPY	20%
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- A. Tenderer/Manufacturer should have extensive experience of at least 05 years of designing, manufacturing, Supplying, installation and commissioning of the required item.
- B. 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.
- C. Tenderer who have their own sales and service station (With GST Registration) in Odisha should only quote.
- D. Tenderer should quote for the Complete Experiments only as per ANNEXURE-II ("No Optional accessories") should be quoted separately. No Alternative Model is acceptable and also 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.
- E. Tenders should comply all the terms and conditions given in the tender document and be quoted for the specification given in the tender documents and must have enclosed Tender Compliance Statement..
- F. 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.

11. FINANCIAL BID EVALUATION & AWARD OF CONTRACT

- A. Least Cost Selection Method" will be followed. (Technically Evaluated "L1"), Preference will be given those have quoted Maximum number of Items.
- B. The farm, who will Technically Qualified in Technical bid evaluation with lowest financial Process , shall be declared as the eligible bidder and shall be communicated for further process leading to issue of "Supply Order".
- C. The eligible bidder will be intimated by the principal by email/ speed post and will be asked to acknowledge the "Letter of Intent (LoI)/ Work Order" and to submit the "Performance Security" within 21 days of issuance of intimation by the principal in shape of DD/BG .
- D. The "Performance Security" is unconditional and irrevocable.
- E. Performance Security must remain valid till warranty period of the goods.
- F. After receipt of the "LoI" or after issue of work order if due to any reason(s) the eligible bidder withdraws its willingness to supply the required goods then the EMD/Performance Security deposited by the same farm will be forfeited by the principal and farm securing the next eligibility position in the financial bid will be awarded with contract, after submission of the required Performance Security amount & EMD.
- G. Once the Supply Order is issued by the college, the concerned farm must supply and install the required number of items within 08 days from the date of issue of the supply order. No further time will be allowed without any valid reason and without prior approval of the same from the principal.

12. 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.

13. 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 down time 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.

14. TRAINING OF PERSONNEL

The successful tenderer will be required to undertake to provide training for personnel, involved in the use of equipment at site.

15. LEGAL JURISDICTION

All questions, dispute of difference arising under out of or in-connection with the contract if concluded shall be subject to the exclusive jurisdiction of the court within **Jagatsinghpur**

16. FRAUD AND CORRUPTION

It is required that the purchasers as well as bidders/ suppliers observe the highest standard of ethics during the process of procurement and execution of contracts. In pursuance of this policy, the purchaser defines for the purpose of this provision the terms set forth below as follows:

- A. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in execution of contract.
- B. "Fraudulent practice" means a misrepresentation of facts and/or concealment of facts in order to influence the procurement process or the execution of a contract to the detriment of the purchaser, it includes collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive level and to deprive the purchaser from the benefit so free and open competition.
- C. In case of above forbidden practices adopted by any firm being detected, the purchaser shall have right to declare the firm ineligible and subsequently debar the firm either for an indefinite period or for a stated period of time for participation in any tender, award of contract and initiate appropriate legal action as per court of law.

ANNEXURE-I**BIDDER DETAILS**

SI No	Particular	Details
1	Name of the Firm /Agency/Company	
2	Registered Office Address & Complete Postal Address	
3	Telephone Number , E-mail id and Website details	
4	Contact No. of Authorized Signatory	
5	Name of Authorized Signatory (In Block Letter)	
6	Type of Firm (Proprietary/Partnership/Pvt.Ltd/ Public Ltd)	
7	Date of Establishment and Experience in business (in number of years)	
8	G.S.T. Registration No.	
9	PAN No.	
10	Details of Tender Fee Deposit i.e Draft No. Date and bank name	
11	Details of Earnest Money Deposit i.e Draft No. Date and bank name	
12	Yearly turnover of the organization during Last 3 years (year wise) and furnish audited balance sheet & profit and loss A/C for the last 3 years 2021-22,2022-23,2023-24	
13	Annexure VIII performance /Work Experience of organization	

Place:

Signature and with seal of tenderer

Date:

ANNEXURE-II

TECHNICAL COMPLIANCE SHEET

To,
The Principal
SVM Autonomous College, Jagatsinghpur
Jagatsinghpur, Odisha-754103

Sub: Technical Compliance for the Department of _____

Tender Ref :

Dear Sir,

I, the undersigned, offer to participate in the selection process to select supplier for "**Lab Equipment's /Chemicals/Glassware/ for department of Physics, Chemistry, Botany & Zoology**" at the college, in accordance with your Tender No:

I am here by submitting Technical Proposal, which includes EMD, Technical Proposal and Financial Proposal sealed in separate envelopes. I, hereby declare that all the information and statements made in the Technical & Financial Proposals are true and correct. I accept that any misinterpretation contained in it may lead to disqualification of my proposal.

I hereby unconditionally undertake to accept all the terms and conditions as stipulated in the Tender No document. In case any provision of this Tender are found violated, then your College shall without prejudice to any other right or remedy be at liberty to reject our proposal including forfeiture of the full said earnest money deposit absolutely.

SI No	Item Name	Tender specification	Bidder/Vendor Specification	Make & Model	Compile (Yes/No)	Any Deviation
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						

N.B:

- a. Separate Annexure-II to be attached for Each Department.**
- b. Alternative Make/Models strictly prohibited.**
- c. Optional items strictly prohibited,**
- d. Each item should complete in all respect**

Place:

Signature and with seal of tenderer

Date:

ANNEXURE-III
FINANCIAL BID SUBMISSION FORM

To,
The Principal
SVM Autonomous College, Jagatsinghpur
Jagatsinghpur, Odisha-754103

Sub: Submission of Financial Proposal for Department of _____

Tender Ref :

Dear Madam/Sir,
I, the undersigned, here by submitting the Financial Proposal to select supplier for "Supply of Laboratory Equipments/Apparatus" at the college in accordance of

I, hereby declare that all the financial figures mentioned the Financial Proposal is true and correct. I also accept that any misrepresentation of financial facts and figures may lead to disqualification of my proposal

Sl No	Name of the items/ Equipment	Company/ Make	Qty	Unit rate in fig. (Rs.)	Total Rs.
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
Total					
GST					
Grand Total					

(Total Rupees in words.....)

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

N.B:

- a. Separate Annexure-III to be attached for Each Department.
- b. Alternative Make/Models strictly prohibited.
- c. Optional items strictly prohibited,
- d. Each item should complete in all respect

Place:

Signature and with seal of tenderer

Date:

ANNEXURE-IV

SELF DECLARATION CUM UNDERTAKING

To,
The Principal
SVM Autonomous College, Jagatsinghpur
Jagatsinghpur, Odisha-754103

Dear Sir/Madam,

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_____.

Place:
Date:

Signature and with seal of tenderer

GUARANTEE / WARRANTY

To,
The Principal
SVM Autonomous College, Jagatsinghpur
Jagatsinghpur, Odisha-754103

Dear Sir/Madam,

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 may be 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 aforesaid 12 months by duration equal to the total down time during the period of warranty.

Place:
Date:

Signature and with seal of tenderer

ANNEXURE-VII

LETTER OF WILLINGNESS

To,
The Principal
SVM Autonomous College, Jagatsinghpur
Jagatsinghpur, Odisha-754103

Sub: Submission of willingness certificate to supply/ install (name of the item/items) at your college premise.

Dear Sir/Madam,

I am to inform you that my farm (name of the farm with address) is ready to **supply/ install (name of the items)** 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, my EMD/ performance security will be forfeited.

Place:

Signature and with seal of tenderer Date:

ANNEXURE-VIII**PAST WORK EXPERIENCES**

Work of Similar nature of value not less than 10 Lakhs) over the last 3 years						
Sl. No.	Name & Address Of The Colleges	List Of Items Supplied	PO No & Date	Total Value of Item Supplied	Date Of Supply	Contact No of Concern Person
1						
2						
3						
4						
5						

Place:

Signature and with seal of tenderer

Date:

ANNEXURE-IX**BANK DETAILS OF THE BIDDER**

SI No	Particulars	Details
1	Account Number	
2	Name of A/C Holder	
3	Name of the Bank & Branch	
4	Address of the Branch	
5	IFSC Code	
6	MICR code	
7	Account Type	
8	Contact No. of the Branch	

I /we hereby declare that the particulars given above are correct and complete.

Place:

Date:

Signature and with seal of tenderer

LIST OF LAB EQUIPMENTS FOR DEPARTMENT OF PHYSICS

Brand: INDOSAW/ SPANCOTEK/PHYWEE/3B SCIENTIFIC

INSTRUMENTS			
Sl.No	Name of items	Technical Specification	QTY
1	ZENER DIODE CHARACTERISTICS OF & VOLTAGE REGULATOR	DC Supply (Inbuilt in Kit),Range: 0-15V/100mA (Variable),DC Voltmeter Type: Moving Coil, Range: 0-15V, Display: Analog Pointer Type, Panel Dimensions: 60mm x 55mm x 10mm,DC Voltmeter Type: Moving Coil, Range: 0-12V, Display: Analog Pointer Type, Panel Dimensions: 60mm x 55mm x 10mm,DC Ammeter Type: Moving Coil, Range: 0-50mA, Display: Analog Pointer Type, Panel Dimensions: 60mm x 55mm x 10mm, Variable pot :500K, Zener Diode: 6.2V,8.2V&12V, Load Resistance Selector: 50,100,220,330,500Ω & 1KΩ,10KΩ ,Interconnection :4mm, Mains Supply :230V/50Hz	1
2	PLANCK'S CONSTANT USING LEDS OF 4 DIFFERENT COLOURS	DC Supply Range:0-12V, Voltmeter Range: 0- 12V, Display:7 Segment LED Display, Ammeter Range:0-200mA, Display: 7 Segment LED Display, OVEN WITH TEMPERATURE SENSOR: Heating Element: 35 Ω, Oven Connector: 5 Pin, DIN type, Ambient Temperature: 353K, Temperature Sensor: Pt100, Output Pin: Heater pin 4 & 5. Temperature pin 1 & 2 Analog temperature indicator to measure temperature directly.	1
3	SERIES RC CIRCUIT	Power Supply Range :0-12V (Variable) DC Regulated Inbuilt, Voltmeter Range: 0-12V, Display: Analog (Moving Coil),Panel Size: Square 70 mm x 60 mm (Lx W),Galvanometer Range: 1-0-1μA, Display: Analog (Moving Coil),Panel Size: Square 70 mm x 60 mm (Lx W),Resistances :10KΩ,15KΩ & 18KΩCapacitors: 1000 μf,2200 μf & 4700 μtoggle Switch: 2way, Dump Switch: 1no,Mains Power :230V/50Hz	1
4	DESAUTY'S BRIDGE	Decade Resistance: Range :10x10Ω ,100x10Ω& 1Kx10Ω.-2nos, Standard Capacitors: 0.01 μf & 0.1 μf Unknown Capacitor :1no, A.C supply of frequency: 1KHz, Null Detector: Digital, Display:7 Segment LED, Mains Power :230V/50Hz	1
5	TRANSISTOR CHARACTERISTICS (NPN & PNP)	Inbuilt Variable DC Power Supply, Range:0-1V/100mA&10V/100mA (Variable) ,DC Voltmeter Range :0-1V & 0-10V ,Display: Analog Pointer Type, Panel Dimensions: 60mm x 55mm x 10mm,DC Ammeter Range :0-250μA & 0-50mA,Display: Analog Pointer Type, Panel Dimensions: 60mm x 55mm x 10mm,Transistor: NPN & PNP, Variable pot: 1K & 10K,Interconnection :4mm, Mains Supply :230V/50Hz	1
6	OHM'S LAW	Inbuilt Variable DC supply, Range:0-5V/100mA, DC Voltmeter Moving Coil, Display: Analog Pointer Type, Panel Dimensions: 60mm x 55mm x 10mm, Range: 0-5V, DC Ammeter Moving Coil, Display: Analog Pointer Type, Panel Dimensions: 60mm x 55mm x 10mm, Range: 0-100mA, Resistance 10K, Interconnection :4mm, Mains Supply :230V/50Hz	1
7	LOW RESISTANCE BY CAREY FOSTER'S BRIDGE	DC Supply: 1.5V/250 mA (Switch Controlled),DC Regulated Fixed Power Supply: 1.5V/250 mA Decade Resistance Box: 0.1Ω to 10 Ω-2nos (Fractional),Fixed Resistors :10 Ω ±1% -2nos Galvanometer Range:30-0-30 μA, Display: Analog (Moving Coil),Panel Size: Square 70 mm x 60 mm (Lx W),Carry Foster Bridge with jockey, Mains Supply:230V /50Hz AC	1
8	JFET CHARACTERISTICS	Regulated Power Supply,Range:3V/150mA & 15V/150mA,Resistor:10KΩ,100KΩ,1MΩ, Voltmeter Range:20V, Display: Analog ,Ammeter Range:20mA, Display: Analog ,FET: BFW10,Interconnection :4mm patch cord, Circuit & Symbol diagram printed on front panel, Mains Powe :230V/50Hz	1
9	Galvanometers figure of merit	DC Regulated Fixed Power Supply,Range:0-12V/150 mA,High Resistance Box 1000Ω Low Resistance Box 100Ω,Rheostat, One way key, Galvanometer ,Range:30-0-30 μA, Display: Analog (Moving Coil),Panel Size: Square 70 mm x 60 mm (Lx W),Connecting Wire	1
10	Sonometer with Ac mains	Wooden Sonometer 6" x 6",Two fitted with two steel wires about 0.3mm x 1m (dia x length). supplied complete with three bridges, one large, to span both wires and, Two small bridges for individual wires, Two steel wires 0.3 mm dia. x 1 meter long: slotted weights Hanger (6 X 500gm), Electromagnet with stand & Holder, Transformer	1
11	Stefan Constant	DC Power Supply, Range-12V/250mA, DC Voltmeter, Range: 0-12V, Display: Moving Coil Pointer Type,DC Ammeter, Range :0-250mA, Display: Moving Coil Pointer Type, DC Bulb :12V, Interconnection: 4mm banana patch cord, Mains Power :230V/50Hz	2
12	Newton's Ring Apparatus Compact Set	Dimension: 390 x 480 x 170mm approx. Micrometer: 0.01 mm least count, Eyepiece: Ramsden 10X,Objective: 3X,Weight: 12.6 kg approx. PLANO CONVEX LENS- Dia: 61.5mm, Glass,Focal length: 200mm, SPHEROMETER (DISC BRASS)- Types: 3 legs,Vertical scale: 6mmx6mm (WxT) Micrometer: Dia. 40mm, Brass,Lower disc: Dia. 60mm,Range: 10-0-10mm,Least count: 0.01mm	1
13	Surface Tension By Capillary Rise Method	Rising Table: Cast Aluminum 10cm dia with a stem of 12cm, Capillary Tube Clamp: 10cm long fitted with 9mm Rod is attached with Metal Frame, Capillary Tube: Made of glass with different internal diameter, Glass Beaker: 500ml	1
14	Spring Constant	Adjustable scale on a stand of 37.5cm, Helical Spring Diameter:25mm, Helical Spring Length: 10cm,Pointer, Heavy Metal Base Plate, Metal Rod, Weights 50x5 gm	1
15	Travelling Microscope	10 Vernier, Consists of cast iron base with machined V-shape vertical pillar, microscope tube consists of 10x eye piece and an achromatic objective of 50-75 mm working distance, embedded stainless steel horizontal scale is graduated up to 17 cm and vertical scale 15 cm, vertical and horizontal slide can be clamped at any position using clamping screw, fine motion is brought about by micrometer screw, horizontal and vertical Vernier of 0.1mm are provided along with two leveling screws, packed in plywood box.	1
16	Thermistor Characteristics Trainer		1
17	Sodium Lamp Transformer	55watt	1

18	Sodium Bulb	55 watt	1
19	Conversion Galvano Meter into Voltmeter		1
20	Conversion Galvanometer into Ammeter		1
21	Analog Multimeter		3
22	Resistance Box	1-10000 Ω	4
23	Resistance Box	1-500 Ω	4
24	Pencil Jockey		10
25	Galvanometer	Galvanometer, Range:30-0-30 μ A, Display: Analog (Moving Coil), Panel Size: Square 70 mm x 60 mm (Lx W),	10
26	One Way Key		5
27	Two Way Key		5
28	Stop Watch Manual		5
29	Bench Top DC Voltmeter	0-10V	4
30	Bench Top AC Voltmeter	0-10V	4
31	Bench Top DC Milli Ammeter	0-500mA	5
32	DC Battery Eliminator	0-12V/1A	2
33	Glass Prism	15x15x15	30
34	Lycopodium Powder		500gm
35	Rheostat	28ohm/4.2A	4
36	AC Milli Ammeter	0-10mA	4
37	DCC Wire	Copper	1

AN Nayak
06/07/2024
Head

Department of Physics

B. S. S.
07/07/24

Principal

SVM AUTONOMOUS COLLEGE, JAGATSINGHPUR

PRINCIPAL
S.V.M. AUTONOMOUS COLLEGE
JAGATSINGHPUR

LIST OF LAB EQUIPMENTS/CHEMICAL/GLASSWARE
FOR DEPARTMENT OF CHEMISTRY

Brand: SHIMADZU/PERKIN ELMER/BRBIOCHEM/ SPANCOTEK/BIOLINK/THERMO

INSTRUMENTS			
Sl.No	Name of items	Technical Specification	QTY
1	Digital PH Meter	Type: Microprocessor Based, Display: 16 x 4 Alphanumeric, Range: 0 to 14 pH, 0 to 1000mV, Resolution: 0.01 pH, 0.1 mV, Accuracy: $\pm 4\%$, Temperature Compensation: Manual, Calibration: 3 Point, Dimension: 275 x 187 x 94 mm (Approx), Power: 220 V ± 10 v AC, Accessories: pH Electrode, Electrode Stand, 3 Buffers and Operating Manual	4
2	Digital Conductivity Meter With Cell	Type: Microprocessor Based, Function: Display TDS/ EC, Display: 16 x 2 Alphanumeric Range: TDS 0 to 1000 ppt Auto Ranging, EC 0 to 1000 ms Auto Ranging, Resolution: TDS 0.1 ppm, EC 0.1 μ mhos, Accuracy: 0.5% Range, Cell Constant: Adjustable Measuring Cell: Platinum DP Type, Temperature Compensation: Manual, Dimension: 275x187x94mm (approx), Power Supply: 230 V ± 10 V AC, 50 Hz, Accessories: Conductivity Cell, Cell Stand and Operating Manual	2
3	Digital Balance	Digital weighing machine (analytical) Precision Type- 0.01gm, Readability-1gm, Pan size-80mm,600gm Capacity, Pan size :120mm, Power: battery 6v + adapter 12v/1ah(include), Features: High-precision straining resistance sensor, Strong anti-overload function, Operating temperature: 10 to 60	1
4	Digital Balance	Digital weighing machine (analytical) Precision Type- 0.001gm, Readability-1gm, Pan size-80mm	1
5	Magnetic Stirrer with Hot Plate	Stirrer Speed 60-1500 RPM, Stirring Capacity 2L, Top Plate Dimension 180x180mm, Heating Rating -500w	2
6	Digital Photo Colorimeter	Wavelength Range: 405-700 nm, Filters: Built in 8 Digital Filters, Filters Wavelength: 405nm, 450nm, 480nm, 520nm, 540nm,578nm, 620nm, 700nm, Display Parameters: O.D. % T, Wavelength, Detector: Silicon Photo Diode, Accuracy: +0.01 O.D, Stability: +0.02 O.D./ Hour, Light Source: Highly Accurate LED Source, Volume: 1ml Minimum Dimension: 275 x 187 x94mm (approx), Power: 230 ± 10 V, 50 Hz, Accessories: Set of Test Tube- 5nos, Test Tube Holder:1Nos, Operating Manual	1
7	Digital Potentiometer (with 2 Electrodes)	RANGE:-414 to +414 mv, Readability: 0.1, Accuracy: ± 0.1 , Display : Parameter mv Calibration: Single Point, Resolution: 0.1 mv, Display: 16x2 LCD, Power: 220 Volt AC ± 10 Volt, Dimension: 275x187x94 mm (Approx.), Accessories: Standard Solutions 4,7 and 9.2 pH Buffers, Glass and Reference Electrode, Electrode Stand and Instruction Manual	2
8	Hot Air Oven (Digital (14X14X14)	With SS-304 Digital PID, Controller, Suitable for temperature up to 250C. External body is made of S.S 304 grade with scratch proof and heat resistance paint, Internal structure including door and chamber are manufactured from either SS/Aluminium, The double walled chamber is filled with high grade insulation to prevent heat loss, heating element is roped in beds and placed at bottom and two sides, Temperature is controlled with a capillary type thermostat and ready by a thermometer, supported on heavy rubber feet to prevent with indicator, temperature control and on/off switch	1
9	Copper Calorimeter		6
10	Thermometer	Range 0-100°C Graduated	10
11	Spectrophotometer (Visible)	Wavelength Range: 325-1000 NM, Light Source Lamp: Tungsten Halogen Lamp 20W/12V, Wavelength Accuracy: ± 2 Nm, Wavelength Reproducibility: 1 Nm, Band Width: 2 Nm, Photometric Accuracy: $\pm 0.5\%$ (T), Photometric Reproducibility: 0.2% (T), Stray Light: 0.2% (T), Noise: 0.2% (T), Size: (L*W*H) Main Unit: 370*320*190 Mm, Power Requirement: 220V/110V $\pm 10\%$ 50/60 Hz, Interface: RS 232 Serial & Parallel Interface	1

Brand: BOROSIL/RIVERA/BOROSILICATE

GLASSWARE

SI No	Name of items	Technical Specification	QTY
1	Burette	50ml	20
2	Pipette	5ml	2
3	Pipette	10ml	24
4	Pipette	25ml	2
5	Conical Flask	100ml	24
6	Conical Flask	150ml	2
7	Conical Flask	250ml	5
8	Beaker	100ml	24
9	Beaker	250ml	6
10	Capillary Tube	Packet	8
11	Test Tube	Packet	20
12	Filter Paper	Packet	40
13	Wire Gauge	Piece	24
14	PH Paper	2-14, Packet	4
15	Tripod Stand Circular	Piece	24
15	Buchner Funnel	Piece	6
17	Blow Pipe	Piece	24
18	Test Tube Cork	Piece	100
19	Litmus Paper	Packet	4
20	Reagent Bottle with Stopper	Piece, 500ml	40
21	Volumetric Flask	100ml	12
22	Porcelain Basin	Piece	24
23	Tongs	Piece	24
24	Chromatography Paper Strips	Packet	100
25	Electronics Balance Digital	Piece	2
26	Test Tube Cleaning Brush	Piece	30
27	Mortar and Pestle	4" Inch	4
28	Watch Glass	3" Inch	24
29	Filter Paper	Packet	40
30	Sintored Glass Crucible	G3 30ml	5
31	Sintored Glass Crucible	G4 30ml	5
32	Desiccator	8"	1
33	Measuring Cylinder	500ml	10
34	Measuring Cylinder	10ml	10
35	Filter Flask	500ml	5
36	Test Tube Holder		20
37	Burette Stand with clamp	Steel Base Fiber Body with funnel & beaker Holder	10
38	Fusion Tube		20

CHEMICALS

Brand: NICE/MERCK/HIMEDIA/SIGMA/SRL/QUALIGENS

Sl No	Name of Chemicals	Pack Size	QTY
1	Acetic Acid	500ml	8
2	Acetone	500ml	6
3	Alcohol	500ml	10
4	Ammonium Chloride	1000gm	4
5	Aniline	500gm	6
6	Ammonium Hydroxide	2.5 L	4
7	Barium Chloride	500gm	4
8	Belzal Chloride	500ml	1
9	Benzoic Acid	500gm	4
10	Buffer	4 PH	4
11	Buffer	7 PH	4
12	Buffer	9 PH	4
13	Calcium Chloride	500gm	6
14	Calcium Carbonate	500gm	6
15	Carbon Tetrachloride	500ml	4
16	Cobalt Nitrate	100gm	1
17	Copper Sulphate	500gm	6
18	Cupric Carbonate	500gm	2
19	EDTA	100gm	1
20	Iodine	100gm	1
21	Methyl Acetate	500ml	2
22	Phenol	500ml	3
23	Potassium Sulphate	500gm	5
24	Potassium Chloride	500gm	6
25	Potassium Nitrate	500gm	2
26	Potassium Iodide	250gm	4
27	Potassium Iodate	100gm	2
28	Sodium Hydroxide	500gm	4
29	Sodium Nitrate	500gm	2
30	Sodium Thiosulphate	500gm	4
31	Stannous Chloride	100gm	2
32	Starch	500gm	2
33	Sulphuric Acid	2.5L	6
34	Zinc Sulphate	500gm	2
35	Zinc Sulphide	500gm	2
36	Hydrochloric Acid	2.5L	8
37	Nitric Acid	2.5L	4
38	Propyl Amine	250ml	2
39	Lead Acetate	250ml	2
40	Whatman Filter Paper 40	Packet	1
41	Activated Animal Charcoal	Packet	1
42	2,4-Dinitrophenyl Hydrazine	250gm	1
43	Acetanilide	500ml	2

44	G-4 Crucible	Piece	10
45	Fusion Tube	Piece	6
46	Potassium Permanganate	500gm	4
47	Methyl Alcohol	500ml	6
48	Formaldehyde	500ml	4
49	Acetic Anhydride	500ml	2
50	Strontium Nitrate	500gm	1
51	Salicylic Acid	500ml	2
52	P-Nitrophenol	250gm	1
53	M- Nitrophenol	250gm	1
54	O-Nitrophenol	250gm	1
55	Alpha Naphthol	250gm	1
56	Beta Naphthol	250gm	1
57	Hydroxyl Amine Hydrochloride	500ml	1
58	Chloroform	500ml	1
59	Nickel Sulphate	100gm	1
60	Nitrobenzene	500ml	1
61	Ethyl Alcohol	500ml	2
62	Sodium Carbonate	500gm	2
63	Sodium Bicarbonate	500gm	2
64	Silver Nitrate	25gm	2
65	Magneson Reagent	250ml	5
66	Oxalic Acid	500gm	4
67	Nessler's Reagent	250ml	6
68	Methyl Orange Indicate	100gm	2
69	Phenolphthalein Indicator	100gm	2
70	Ferrous Ammonium Sulphate	500gm	4
71	Glucose-D	500gm	2
72	Schiff's Reagent	250ml	2
73	Aluminum Sulphate	500gm	6
74	Ammonium Sulphate	500gm	4
75	Ferrous Sulphate	500gm	6
76	Mercury Chloride	250gm	2
77	Sodium Chloride	500gm	4
78	Aluminum Chloride	500gm	3
79	Calcon Indicator	5gm	2
80	EBT Indicator	5gm	2
81	Nickel Chloride	500gm	2
82	Ethyl Alcohol	500ml	10
83	Methyl Alcohol	500ml	5
84	Sodium Metal	500gm	1
85	Cobalt III Chloride	500gm	2

Susila Kumar Behera
6-7-24
Head
Department of Chemistry

B.000
6/7/24
Principal
SVM AUTONOMOUS COLLEGE, JAGATSINGHPUR
PRINCIPAL
S.V.M. AUTONOMOUS COLLEGE
JAGATSINGHPUR

LIST OF LAB EQUIPMENTS/CHEMICAL/GLASSWARE

FOR DEPARTMENT OF BOTANY

**Brand: SHIMADZU/PERKIN ELMER/BRBIOCHEM/
SPANCOTEK/BIOLINK/THERMO/OLYMPUS**

INSTRUMENTS

Sl.No	Name of items	Technical Specification	QTY
1	Compound Microscope	Viewing Body : Monocular tube,Stand : Straight with body inclinable trough 90°. Eyepiece : Huygenian eyepiece 10x & 15x, Nosepiece : Triple revolving Nosepiece Objective : SA series achromatic objective 10x/NA 0.25 & 40x/ NA 0.65(SL) Stage : Stage plate size 12 x 120 mm with stage clips, Focusing :Separate coarse and fine focus controls coarse movement by rack & pinion and fine movement by screw lever mechanism Condenser : Sub-stage fixed Iris diaphragm, condenser NA 1.25 Illumination System : Plano concave reflector mirror mounted at the base, Package Contents : Thermocole box and cleaning cloth	5
2	Digital Balance	Digital weighing machine (analytical) Precision Type- 0.01gm, Readability-1gm, Pan size-80mm,600gm Capacity, Pan size :120mm, Power: battery 6v + adapter 12v/1ah(include), Features: High-precision straining resistance sensor, Strong anti-overload function, Operating temperature: 10 to 60	2
3	Dissecting microscope	Base: Heavy round base with precisely designed body. Focussing: Sensitive focussing, done by rack and pinion arrangement. Revolving arm provided for moving magnifying lens over full stage area. Stage: 85 mm x 75 mm with glass area. Illumination: A Plano- concave lens fitted in fork for light reflection.Optics: 10x & 20X Eyepieces	2
4	Digital PH Meter	Type: Microprocessor Based, Display: 16 x 4 Alphanumeric, Range: 0 to 14 pH, 0 to 1000mV, Resolution: 0.01 pH, 0.1 mV, Accuracy: ± 4%, Temperature Compensation: Manual, Calibration: 3 Point, Dimension: 275 x 187 x 94 mm (Approx), Power: 220 V ± 10 v AC, Accessories: pH Electrode, Electrode Stand, 3 Buffers and Operating Manual	2
5	Advanced Microprocessor UV-VIS Software Single Beam Spectrophotometer With Scanning	Optical System: Single Beam, Grating, Wavelength Range: 190 Nm-1000 Nm Bandwidth: 2 NM, Wavelength Accuracy: ±1 NM, Wavelength Repeatability: 0.5 Nm Wavelength Setting: Auto, Photometric Accuracy: ±0.5% T,Photometric Repeatability: 0.3% T,Photometric Range: -0.3-3a,0-200%T,Stray Light: <0.3% T,Stability: ±0.002 A/H @500 Nm,Display: 128*64. Lcd,Detector: Silicon Photo diode,Standard Cell Holder: 4-Position 10-100 Mm Cell Charge,Light Source: Tungsten & Deuterium Lamp Output: USB Port & Parlel Port (Printer),Power Requirement: Ac 85-250 V Dimension: 420x280x180mm	1
6	Dissolved Oxygen Meter	Type: Microprocessor Based, Function: Dissolved Oxygen/ Temperature Simultaneously Display, Range: DO 0 to 20 ppm, Temperature 0 to 70° C Resolution: DO 0.01 ppm, Temperature 0.1° C, Accuracy: ±0.1 ppm Display: 16x2 Alphanumeric, Measuring Cell: Amperometric Gold/ Silver Electrode Temperature Compensation: Automatic, Memory: Storage of 100 Samples Dimension: 275x187x94 mm (Approx), Power Supply: 230/10V AC, 50Hz Accessories: DO Cell, Cell Stand, Temperature, Probe and Operating Manual	1
7	Digital Autoclave	Tripled wall , 40 Ltr. Capacity, PID based Digitally Controlled	1
8	Bench top Centrifuge High Speed	Digital Intuitive simple interface for quick and convenient setting with LCD display (critical) lid lock safety-lid open automatically on run completion.one touch short spin operation & RPM/RCF conversion (critical).Small foot print saves valuable bench space,s uitable for use in hoods or cold rooms ,Rotor capacity should be 12x 5ml /2ml tubes and seperate rotor of 2PCR strips (critical), Maximum RPM/RCF should be 15000 RPM , Timmer setting should be 1 to 99 mins and infinite, should come with reduction adapter for 0.2 /0.5ml tubes	1
9	Centrifuge (Mini) machine	Micro- High speed upto 10000 RPM non Digital , Step size 1000	1
10	Soil thermometer		1
11	Magnifying glass		2
12	Test tube holder		5
13	Test tube stand		10
14	Spirit lamp		5
15	Cork borer		4
15-A	Lab oven		1
15-B	Induction Cooker		1

GALSS WARE
Brand: BOROSIL/RIVERA/BOROSILICATE

SI No	Name of the Items	QTY
1	T/A Apparatus	5
2	Ganong's Potometer	8
3	Farmer's Potometer	8
4	Wilmott's bubbler	8
5	Dropping bottle	12
6	Watch glass	100
7	Petridis	100
8	Glass slide	10Pkts
9	Coverslips	15Pkts
10	Test tube	100
11	Measuring cylinder (250 ml)	5
12	Pipette	5

MODELS

SI No	Name of the Items	QTY
1	TMV	1
2	Bacteriophage	1
3	Lytic cycle	1
4	Lysogenic cycle	1

CHEMICALS

Brand: NICE/MERCK/HIMEDIA/SIGMA/SRL/QUALIGENS

SI No	Name of the Items	QTY
1	Safranin (500 ml)	4 bottles
2	Haematoxylin (500 ml)	2 bottles
3	Absolute alcohol (500 ml)	10 bottles
4	Glycerine (500 ml)	2 bottles
5	Acetone (500 ml)	2 bottles
6	Iodine solution (500 ml)	2 bottles
7	Formaldehyde (500 ml)	1 bottle
8	Crystal violet solution (250 ml)	2 bottles
9	Cotton blue (250 ml)	2 bottles
10	Acetocarmine (250 ml)	2 bottles
11	Millons reagent (250 ml)	2 bottles
12	Fast green solution (250 ml)	2 bottles
13	Agar agar (500 gm)	1Pkt
14	Peptone (500 gm)	1Pkt
15	Sudan IV	2 bottles
16	Canadabalsam	1 bottle
17	Beef extract	1 pkt
18	Sodium bicarbonate (250 gm)	2 pkt
19	Sucrose (500 mg.)	5 pkts
20	pH paper (narrow range and broad range)	2 from each

21	Filter paper	5 pkts
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PERMANENT SLIDE

SI No	Name of the Items	QTY
1	Stages of mitosis and meiosis	2 sets each
2	Types of ovule (L.S.)	2 sets
3	Bacteria (binary fission, conjugation) W.M.	2 each
4	Volvox with daughter colony (W.M.)	2
5	Coleochaete thallus, (W.M.)	2
6	Oedogonium vegetative thallus (W.M.)	2
7	Vaucheria thallus, reproductive structures (W.M.)	2 each
8	Fucus vegetative structure (W.M.)	2
9	Nostoc colony (W. M.)	2
10	Yeast (vegetative structure, budding) W.M.	2 each
11	Agaricus (T. S. of Gill)	2
12	Saprolegnia thallus, reproductive structures (W.M.)	2 each
13	Sexual reproductive structure of Albugo	2
14	Host leaf with sporangia of Albugo (T.S.)	2
15	Asexual reproductive structure of Phytophthora	2
16	Somatic mycelium of Rhizopus (W.M.)	2

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Principal

SVM AUTONOMOUS COLLEGE, JAGATSINGHPUR

PRINCIPAL

**S.V.M. AUTONOMOUS COLLEGE
JAGATSINGHPUR**

LIST OF LAB EQUIPMENTS/CHEMICAL/GLASSWARE

FOR DEPARTMENT OF ZOOLOGY

Brand: Brand: SHIMADZU/PERKIN ELMER/BRBIOCHEM/ SPANCOTEK/BIOLINK/THERMO

INSTRUMENTS

Sl.No	Name of items	Technical Specification	QTY
1	Advanced Microprocessor UV-VIS Software Single Beam Spectrophotometer With Scanning	Optical System: Single Beam, Grating, Wavelength Range: 190 Nm-1000 Nm Bandwidth: 2 NM, Wavelength Accuracy: ± 1 NM, Wavelength Repeatability: 0.5 Nm Wavelength Setting: Auto, Photometric Accuracy: $\pm 0.5\%$ T, Photometric Repeatability: 0.3% T, Photometric Range: -0.3-3a,0-200%T, Stray Light: <0.3% T, Stability: ± 0.002 A/H @500 Nm, Display: 128*64. Lcd, Detector: Silicon Photo diode, Standard Cell Holder: 4-Position 10-100 Mm Cell Charge, Light Source: Tungsten & Deuterium Lamp Output: USB Port & Parlel Port (Printer), Power Requirement: Ac 85-250 V Dimension: 420x280x180mm	1
2	Student Microscope	Viewing Body : Monocular tube, Stand : Straight with body inclinable trough 90@. Eyepiece : Huygenian eyepiece 10x & 15x, Nosepiece : Triple revolving Nosepiece Objective : SA series achromatic objective 10x/NA 0.25 & 40x/ NA 0.65(SL) Stage : Stage plate size 12 x 120 mm with stage clips, Focusing : Separate coarse and fine focus controls coarse movement by rack & pinion and fine movement by screw lever mechanism Condenser : Sub-stage fixed Iris diaphragm, condenser NA 1.25 Illumination System : Plano concave reflector mirror mounted at the base, Package Contents : Thermocole box and cleaning cloth	8
3	Bench top Centrifuge High Speed	Digital Intuitive simple interface for quick and convenient setting with LCD display (critical) lid lock safety-lid open automatically on run completion.one touch short spin operation & RPM/RCF conversion (critical).Small foot print saves valuable bench space,s uitable for use in hoods or cold rooms ,Rotor capacity should be 12x 5ml /2ml tubes and seperate rotor of 2PCR strips (critical), Maximum RPM/RCF should be 15000 RPM , Timmer setting should be 1 to 99 mins and infinite, should come with reduction adapter for 0.2 /0.5ml tubes	1
4	Digital PH Meter	Type: Microprocessor Based, Display: 16 x 4 Alphanumeric, Range: 0 to 14 pH, 0 to 1000mV, Resolution: 0.01 pH, 0.1 mV, Accuracy: $\pm 4\%$, Temperature Compensation: Manual, Calibration: 3 Point, Dimension: 275 x 187 x 94 mm (Approx), Power: 220 V ± 10 v AC, Accessories: pH Electrode, Electrode Stand, 3 Buffers and Operating Manual	1
5	Paper Chromatography unit	PAPER CHROMATOGRAPHY, Whatman filter paper, Capillary tube, pH Tablets- Acidic(4 pH), pH Tablets- basic(9.2 or 9pH), pH Tablets- Neutral(7 pH)	3
6	Haemocytometer	Haemocytometer (Imported)	5
7	Vertical Electrophoresis unit	Vertical Gel appaaratus ,Dimenssion (WxLxH)12,16,18 cm for running 1-4 mini gels (8.3x8:2cm),Total buffer volume 1L,Short plate (10.1x7.3cm),spacer plate(10.1x8.2cm),with power pack(output 10-300V,4-400mA,75W	1
8	UV Transilluminator	UV Transilluminator wavelength- 365nm, Viewing Area-24x14, uv tube-4x8watt.	1
9	Digital Balance	Digital weighing machine (analytical) Precision Type- 0.01gm, Readability-1gm, Pan size-80mm,600gm Capacity, Pan size :120mm, Power: battery 6v + adapter 12v/1ah(include), Features: High-precision straining resistance sensor, Strong anti-overload function, Operating temperature: 10 to 60	1

PERMANENT SLIDE

SI No	Name of the Items	QTY
1	Squamous Epithelium	2
2	Striated Muscle Fiber	2
3	Nerve Cell	2
4	Pancreas Gland	2
5	Adrenal Gland	2
6	Parathyroid Gland	2
7	T.S Of Stomach Of Rabbit	2
8	T.S Of Kidney Of Rabbit	2
9	T.S Of Spinal cord Of Rabbit	2

10	Slide For Various Stages Of Mitosis	2
11	Slide For Various Stages Of Meiosis	2
12	Ctenophore Slide	2
13	Section Of Amphioxus Through Pharyngeal	2
14	Section Of Amphioxus Through Intestinal	2
15	Section Of Amphioxus Through Caudal Region	2
16	Sections Of Balanoglossus Through Branchiogenital Region	2
17	Permanent Slide Showing the Presence Of Barr Body in Human Female Blood Cell/Cheek Cell	2

SPECIMEN

SI No	Name of the Items	QTY
1	Branchiostoma	1
2	Sphyrna	1
3	Myxine	1
4	Anguilla	1
5	Salamander	1
6	Alytes	1
7	Trionyx	1
8	Uromastyx	1
9	Banded Krait	1
10	Sorex	1
11	Loris	1
12	Erinaceous	1
13	Sepia	1
14	Metridium	1
15	Nereis	1
16	Sabella	1
17	Hirudinaria	1

MODELS

SI No	Name of the Items	QTY
1	Different Bird Models Of Six Common Birds From Different Orders	Each 1
2	Mammalian Skull Of One Herbivore	1
3	Mammalian Skull Of One Carnivore	1
4	Disarticulated Skeleton Of Frog	1
5	Disarticulated Skeleton Of Varanus	1
6	Disarticulated Skeleton Of Fowl and	1
7	Disarticulated Skeleton Of Rabbit	1

CHEMICALS


Brand: NICE/MERCK/HIMEDIA/SIGMA/SRL/QUALIGENS

SI No	Name of the Items	QTY
1	Kit For Qualitative Test Of Carbohydrate	1
2	Kit For Qualitative Test Of Protein	1
3	Kit For Qualitative Test Of Fat	1

GLASSWARE
Brand: BOROSIL/RIVERA/BOROSILICATE

SI No	Name of items	QTY
1	Burette 10ml	5
2	Pipette 1ml	5
3	Pipette 10ml	5
4	Pipette 5ml	5
5	Conical Flask 20ml	5
6	Beaker 100ml	5
7	Test Tube 15ml	1 box
8	PH Paper	4
9	Volumetric Flask-100/50/10ml	5
10	Chromatography Paper Strips	100
11	Mortar and Pestle	2
12	Measuring Cylinder 10/50/100/500	10


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