

**Session-2023-24**  
**TENDER FORM**

Tender No & Date	DPIASE/2023-24/001 / 214 <del>/12/2024</del> Date: 19/2/24
Name of The Tenderer	Dibakar Patnaik Institute of Advanced Studies in Education
List of Items	See in <b>Annexure-II</b>
Date of publication of tender notification on official website and newspapers	Date: 19/2/24
Last date & Time for sale of tender form	Within 7 days from Publication
Date & Time for opening of Tender (Technical)	Next day of last date will be intimated soon
Place of opening of Tender	Office of the Principal , Dibakar Patnaik Institute of Advanced Studies in Education
Date and Time of the opening of Financial Bids	<b>Shall be intimated separately over email.</b>
Place of opening of Tender	Office of the Principal Dibakar Patnaik Institute of Advanced Studies in Education
Earnest Money in Rupees	@ 02% of the Total Quoted value.

  
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## 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 above 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( <b>Annexure-I</b> )		
3	Tender Fee		
4	Earnest Money Deposit (EMD)/ Bid Security		
5	Technical specification with <b>Compliance Statement (Annexure-II) Department Wise</b>		
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 (Odisha State)		
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 ( <b>Annexure-III) Department Wise</b>		
17	Self-declaration for not having been black listed ( <b>Annexure-IV</b> )		
18	Guarantee/Warranty ( <b>Annexure-V</b> )		
19	Letter of Willingness ( <b>Annexure-VI</b> )		
20	The tenderer should have minimum 03 nos. of similar work orders during last three years in any of the Government organization Work Experience ( <b>Annexure-VII</b> )		
21	Bank Details of The Bidder ( <b>Annexure-VIII</b> )		
22	Photocopies of the work order		
23	Installation report of similar items Only		
24	Original Tender form Duly Signed & Stamp on each Page & Numbering		

Place:

Signature and with seal of tenderer

Date:

21/4/24  


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# **NOTICE INVITING TENDER**

The **Principal, Dibakar Patnaik Institute of Advanced Studies in Education** 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, Dibakar Patnaik Institute of Advanced Studies in Education**

## **"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 Dibakar Patnaik Institute of Advanced Studies in Education.**"The **Letter of Willingness,**

## **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** as Turkey Project 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. 25 Lakh** or above in the last three financial (Audited balance sheet along with CA certificate is to be submitted).

  
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- 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 PRINCIPAL of the college 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. Supplier should have ISO/ NABL / Equivalent Quality Product Certification.
- F. 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.
- G. The bidder should compile as per **Annexure II**, duly filled in, signed and complete in all respects. No alteration / modification in the format shall be permitted.
- H. A self-declaration that the tenderer has not been blacklisted by any State Government/ / Central Govt. / PSU in India as per **Annexure IV**.
- I. Performance Statement- **Annexure-V**
- J. If any Technical conflict arises while evaluating the Technical Bid, **Principal Dibakar Patnaik Institute of Advanced Studies in Education** may ask for **Live Demonstration** of same product in front of the Purchase committee.

### **1. LIST OF ITEMS:**

Supply of Laboratory equipments to **Principal Dibakar Patnaik Institute of Advanced Studies in Education**. The items have been described in Annexure-I A bidder can submit financial bid for any

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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 Dibakar Patnaik Institute of Advanced Studies in Education at Berhampur**. 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 Dibakar Patnaik Institute of Advanced Studies in Education**, through **Speed Post/ Registered Post / By hand**.
- 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

  
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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 Dibakar Patnaik Institute of Advanced Studies in Education** 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 to do so, Principal may without prejudice to other Civil and Criminal remedies, cancel the contract and hold the signatory liable for all costs and damages.

## 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.

  
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## 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 ( <b>ONLY</b> )	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%

- 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 30 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.

  
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## 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 **Cuttack**

## 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 sand to deprive the purchaser from the benefit so free and open competition.
- C. In case of above forbidden practices adopted by any farm being detected, the purchaser shall have right to declare the farm in eligible and subsequently debar the farm 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.

  
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**ANNEXURE-I****BIDDER DETAILS**

<b>SI No</b>	<b>Particular</b>	<b>Details</b>
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	
13	Annexure VIII performance /Work Experience of organization	

Place:

Signature and with seal of tenderer

Date:

  
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**ANNEXURE-II****TECHNICAL COMPLIANCE SHEET**

To,  
The Principal  
**Dibakar Patnaik Institute of Advanced Studies in Education**  
Dibakar Patnaik I A S E, At/Po-Kanisi Hato, Dist-Ganjam, Odisha-761008

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  
**"Laboratory Equipments for department of \_\_\_\_\_"**  
" 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.

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

**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:

  
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## ANNEXURE-III FINANCIAL BID SUBMISSION FORM

To,  
The Principal  
**Dibakar Patnaik Institute of Advanced Studies in Education**  
Dibakar Patnaik I A S E, At/Po-Kanisi Hato, Dist-Ganjam, Odisha-761008

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

SI No	Name of the items/ Equipment	Company/ Make	Qty	Unit rate in fig. (Rs.)	Total Rs.
1					
2					
3					
4					
5					
6					
7					
<b>Total</b>					
<b>GST</b>					
<b>Grand Total</b>					

(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:

  
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**ANNEXURE-IV**

**SELF DECLARATION CUM UNDERTAKING**

To,

The Principal

**Dibakar Patnaik Institute of Advanced Studies in Education**

Dibakar Patnaik I A S E, At/Po-Kanisi Hato, Dist-Ganjam, Odisha-761008

Dear Sir/Madam,

It is certified that my Farm/ Agency/ Company Name: \_\_\_\_\_ 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:

Signature and with seal of tenderer Date:

  
**Principal**  
D.P.I.A.S.E., Berhampur(Gjm.)  
PIN-761008

## ANNEXURE-V

# GUARANTEE / WARRANTY

To,  
The Principal  
**Dibakar Patnaik Institute of Advanced Studies in Education**  
Dibakar Patnaik I A S E, At/Po-Kanisi Hato, Dist-Ganjam, Odisha-761008

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 conform 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:

Signature and with seal of tenderer Date:

  
Principal  
D.P.I.A S.E., Berhampur(Gjm.)  
761008

**LETTER OF WILLINGNESS**

To,  
The Principal  
**Dibakar Patnaik Institute of Advanced Studies in Education**  
Dibakar Patnaik I A S E, At/Po-Kanisi Hato, Dist-Ganjam, Odisha-761008

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:


  
Principal  
D.P.I.A S.E., Barampur (Gjm.)  
PIN-761008

**ANNEXURE-VII****PAST WORK EXPERIENCES**

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

Place:

Signature and with seal of tenderer Date:

  
Principal  
O.P.L.A.S.E., Berhampur(G.O.)  
PIN-751008




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

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

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

Place:

Signature and with seal of tenderer Date:

  
Principal  
D.P.L.A. S.E., Berhampur(Gim.)  
PIN-784008

**Requisition of Items for Mathematics Lab**

**Session: 2023-24**



In pursuance to the office Notice No. 111 dated 25/01/2024 I am herewith submitting the list of following items to be purchased for Mathematics Laboratory for the session 2023-24.

Sl. No.	Name of the Item	Specification	Quantity
1.	Laptop Desk-Top	ASUS Vivobook S14 OLED Intel EVO-H Series Intel Core i7 12 <sup>th</sup> Gen, (16 GB/512 GB SSD/ Windows 11 Home, with MS Office)	1
2.	Printer	Brother HL- B2000D Monochrome Laser Printer	1

*P. e. Behara*  
*03/02/24*

*Mahesh*  
*03/02/24*

Mahesh Kumar Tripathy  
Asst. Prof. (TE), Mathematics  
DPIASE, Berhampur

1. Dr. Babusam Pami, Asst. Prof. *[Signature]*  
*19.02.2024*
2. Dr. Nibedita Kar, Asst. Prof. *[Signature]*  
*19/02/24*
3. Dr. Rama chandra Mishra, Asst. Prof. *[Signature]*  
*19/2/24*
4. Dr. Santosh Ku. Jena, Asst. Prof. *[Signature]*
5. Dr. Dillip Ku. Dalai, Asst. Prof. *[Signature]*  
*19.2.24*
6. S. Krishna Rao, S.O. *[Signature]*  
*19/2/24*
7. Puspa Ch. Behara, Steno

*[Signature]*  
*[Checkmark]*

Requisition of Items for Physics Lab

Session – 2023-24

1. Physics Lab Furniture

- a. Laboratory Open Rack – 7 nos.- wood material- 5 to 6 feet
- b. Physics Laboratory Table – Wood Material – 3 Nos.

2. CHARTS 10 nos from each, size – 125\*100 size (quality manner, water proof)

- a. Light- Reflection
- b. Light- Refraction
- c. Light- Diffraction
- d. Light- Dispersion
- e. Lenses- Images
- f. Mirror-Images
- g. Inter Conversion of Energy Forms
- h. Magnet & Magnetic Properties
- i. Dynamo
- j. Surface Tension & Capillarity
- k. Electromagnetic Induction
- l. Electrolysis
- m. Electromagnetism
- n. Ohms law- Electric Circuit
- o. Newtons Laws OF Motion
- p. Calorimetry
- q. Determination of Focal length in Lenses & Mirror
- r. Telescope
- s. EYE & its Defects
- t. Chromatic Aberrations & Their Remedies
- u. Simple Pendulum & Harmonic Oscillators
- v. Structure Of Atoms
- w. Heat Transfer
- x. Photo electric Effect
- y. Solar cell

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z. Solar System Chart

3. DEMONSTRATIONS WORKING MODELS 10 NOS. from Each Model (Quality Manner & Large size )

A. Solar System Students Planetarium

B. Model of Electric BELL

C. Model of TRANSFORMER

D. Model of Dynamo

E. Wave Motion Apparatus for Demo of Longitudinal and Transverse Waves.

F. HUMAN EYE MODELS

<sup>Desktop</sup>  
4. HP ~~laptop~~ 15s, AMD Ryzen 7 5700U, 15.6 inch - for Showing Different Types Of Virtual LAB & integrate ICT During Teaching Learning Process.

✓ one Printer HP

  
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19/2/24

Dipak Kumar Panda  
Asst. Prof. (T.E), Physics  
Date- 30.01.2024



*D.C. Babbar*  
*19/02/24*

## Requisition of Items For Biological Science Lab

Session – 2023-24

1. Laboratory Open Rack – 8 nos.- wood materials (5-6 ft.)
2. Freezer – 1 No. (Rockwell 805 Ltr. Convertible green deep freezer, Triple Door-GFR910UC)
3. <sup>Desk Top</sup> Laptop – ~~2~~ Nos. (HP laptop 15s, AMD Ryzen 75700U, 15.6 inch - for Showing Different Types Of Virtual LAB & integrate ICT During Teaching Learning Process) ~~one~~ <sup>Two</sup> HP Printers
4. Compound Microscope – 4 Nos.
5. Simple Microscope – 4 Nos.

Dr. Suranjita Muni & Sri Gouri Shankar Haripal

Asst. Prof. (T.E) in Zoology

Dr. Nibedita Kar & Dr. Baburam Pani

Asst. Prof. (T.E.) in Botany

*Baburam*  
*19.02.24*

*NK*  
*19.2.24*

*Prof*  
*19.2.24*

*NK*  
*19/02/24*

*SK*  
*17/2/24*

*SK*

*SK*

Hist

Sl. No	Specification of Items	Unit price
<b>MAP</b>		
1.	Raised Relief Map of World (Plastic 3d vinyl bumpy map)	
2.	Raised Relief Map of India (Plastic 3d vinyl bumpy map)	
3.	Raised Relief Map of Odisha (Plastic 3d vinyl bumpy map)	
4.	Raised Relief Map of World	
5.	Raised Relief Map of India	
6.	Raised Relief Map of Odisha	
7.	3D Raised Relief Post Card World	
8.	3D Raised Relief Post Card India	
9.	3D Raised Relief Post Card Odisha	
10.	Framed Map – Physical features of World	
11.	Framed Map – Physical features of India	
12.	Framed Map – Physical features of Odisha	
13.	Framed Map – World – Political	
14.	Framed Map – India – Political	
15.	Framed Map – Odisha – Political	
16.	Wall Map – World – Physical	
17.	Wall Map – India – Physical	
18.	Wall Map – Odisha – Physical	
19.	Wall Map – World – Political	
20.	Wall Map – India – Political	
21.	Wall Map – Odisha – Political	
22.	Wall Map – World – crops	
23.	Wall Map – India – crops	
24.	Wall Map – Odisha – crops	
25.	Wall Map – World – Minerals	
26.	Wall Map – India – Minerals	
27.	Wall Map – Odisha – Minerals	
28.	Wall Map – India – Rivers and Projects	

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29.	Wall Map – Odisha– Rivers and Projects	
30.	Wall Map – India – Climate	
31.	Wall Map – Odisha – Climate	
32.	Wall Map – India – Transportation –rail, road, air, sea	
33.	Wall Map – Odisha– Transportation –rail, road, air, sea	
34.	Wall Map – Asia – Political	
35.	Wall Map – Africa – Political	
36.	Wall Map – Europe – Political	
37.	Wall Map – South America – Political	
38.	Wall Map – North America – Political	
39.	Wall Map – Australia – Political	
40.	Wall Map – India–Forests	
41.	Wall Map – Odisha–Forests	
42.	Wall Map – Political Outline maps of different periods of India	
43.	Wall Map – Political Outline maps of different periods of Odisha	
44.	Wall map – Sea Routes of India	
45.	Wall map – Geographical Explorations	
46.	Wall Map – World Time Zones	
47.	Concerned District Map – Physical (Separately for each district)	
48.	Concerned District Map – Political (Separately for each district)	
	<b>ATLAS</b>	
49.	World Atlas	
50.	Historical Atlas	
	<b>GLOBES</b>	
51.	Globes	
	<b>MODELS(Plastic/Wooden Made)</b>	
52.	Solar System	
53.	Sun's Rotation and Revolution	
54.	Earth's Layers	
55.	Skeleton Globe	

56	Ancient coins(Indian History)	
57	Ancient weapons for war	
58	Different ornaments of ancient times	
	<b>CHARTS</b>	
59	Symbols used in Map	
60	Traffic signals and symbols	
61	Census-2011	
62	Important Temples in India	
63	Important Monuments in India	
64	Rivers in India	
65	Mountains in India	
66	Lakes & Reservoirs of India	
67	Important National park and Monuments in India	
68	Stone Tools used by Earliest Man	
69	Historical structures & Ancient Culture of India	
70	Solar System	
71	Internal Structure of Earth	
71	Layers of Atmosphere	
72	National Symbols	
73	National Leaders	
74	Presidents of India	
75	Prime Ministers of India	
76	Vice Presidents of India	
77	Indian's Freedom Fighters	
78	Odisha's Freedom Fighters	
79	Different important place for freedom struggle in Odisha & India( Like Iram, Khorda garh etc.....)	
80	Realms of Earth	
81	Pictures of Currency, Coins and Inscriptions of different times	
82	Our Universe	
83	Major Land Forms of India	
84	Historical Places of India	
85	Historical Places of Odisha	
86	Time-Line Chart of History	
87	Ancient important wars	
88	Preamble Chart (Odia & English)	
89	Fundamental Rights Chart	
90	Fundamental Duties Chart	
91	Constitution having Executive, Legislature & Judiciary Chart	
92	Different Statutory and Independent body of India like NITI Ayog etc	
93	Navaratna and its allied Industries Chart	
94	Different resources like physical ,economic and Human etc....	
95	Chronological order of events from ancient times with respective years	
	<b>VIDEO LESSONS</b>	
96	Geography, History – You tube/National Geographic/Discovery Channel	
97	DVD/CD of Indian culture and Heritage, archaeology	
98	DVD/CD of Indian constitution and Articles and Amendments	
99	DVD/CD of Indian Five year plan	
	<b>SAMPLES</b>	
100	Different minerals	

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101	Different soils	
102	Different Rocks	
103	Different corps	
104	Coins of Ancient times and different State's Currency	
	<b>READING MATERIALS</b>	
105	Copy of Indian Constitution	
106	Copy of R.T.I. Act, R.T.E Act	
107	Dictionary of Geography, Economics, History and Political	
108	Copy of 2011 census	

HP DELL One Desk Top & Printer (HP)


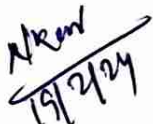


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Chemistry Department Items List		
1	<p>Thermal Strain point 1385K, Dielectric Strength -10KV/mm at 20DegreeC, Quartz Boat length -77mm, width-20mm, height-12mm, Hydrothermal (Threaded Type ) SS304 -Cap- 100ml. Hydrothermal Autoclave Reactor with Teflon Chamber</p> <p>of volume 100ml ml Premium quality . Maximum temperature: 220 degree Maximum Working Pressure: 3MPa with Research Laboratory Centrifuge - SS304 Grade Body, 5000RPM, Digital Dual Display, Max RCF -21000, Noise ≤40dB with including Heavy Duty Angle &amp; Swing Out Rotor with 50/30/15/10/2ml Capacity, Alumina Cricible -Cylindrical- OD 40mm, Height 52mm Volume 50CC and System also have facility for calcination of Material via High Temperature Calcination Furnace Digital PID Control- Max Temp-900 Conntinneous Temp-800, Size of Hot Zone- 4x4x8 mm(HXWXD), Temp Accuracy +/- 1degC, Dual wall insulation. Latest technology low energy consumption vacuum formed Fiber boards; Hot wall insulation will be 1260c HD grade. MS CRC fabricated dual body structure, with duly powder coated by CNC Cutting Design .Exhaust outlet port will be provided on top wall of the furnace for discharge of fumes and exhaust gases.</p> <p>Also suction blower will be provided on to side of the furnace, Honeywell make DC1010PT, Digital Temperature controller with 18 inbuild programmes and 8 segments in each programme 1 No. (3 Point calibration:500c, 800c,1000c NABL certificate will be provided)</p>	1Set

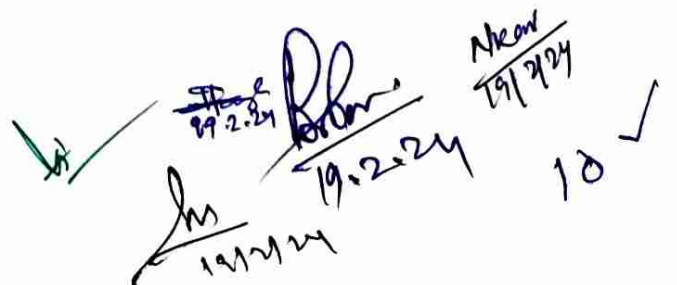
HP DELL one <sup>Desk Top</sup> ~~Printer~~ Printer (HP)

  
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## **DEPARTMENT OF EDUCATION**

List of Items Procurement for the financial year 2023-24

Sl no	Name of the Books	Author	Qty
1	Verbal Creative thinking,	Author-Baqer Mehali	1
2	Non-Verbal Creative thinking,		1
3	Depression Scale	Author-Shamim Kiran & Tiwari	1
4	Educational Interest Record & Profile	Author-D. N Srivastav & Bansal V.P	1
5	Family Relationship Scale	Author-Govind Tiwari	1
6	Adjustment Inventory	Author-H.S Asthana	1
7	Manual for Aggression Scale	Author-Ram Pal & Tasneem Naqvi	1
8	Non-Verbal Intelligence test		1
9	Mental Health Scale	Author-S. P Anand Singh A.K	1
10	Group Test of Intelligence	Author-G.C Ahuja	1
11	Interest Record	Author-Raghuraj Pal Singh	1
12	Test Of creativity	Author-Roma pal	1
13	Co-Operation & Competition Test		1
14	Emotional Competencies	Author-H.C Shrama & Bharadwaj	1
15	Sodhi's Attitude Scale		1
16	Computer Attitude Scale	Author-Khatoon & Sharma	1
17	Thematic Apperception test (Indian)		1
18	National Integration Attitude Scale (NIAS)	Author-Dr. Hassen Taj	1
19	Indian Map		1
20	Globe-Big Size	STANDARD	1


  
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14	Test Tube 15ml -100Nos of Packet
15	Burette 50ml with stand And Clamp
16	Water bath with 6 hole
17	Round bottom Flask-100ml
18	Buchner Funnel
19	50ml Graduated Cylinder
20	Cork Borrer
21	Pipette-5ml
22	Reagent bottle
23	Test tube holder
24	Funnel
25	Rubber cork

*19.2.2017*

# **DEPARTMENT OF MATHEMATICS**

List of Items Procurement for the financial year 2023-24

Brand: AELAB/SPANCO/ INDOSAW

SI No	Particulars	Qty
1	Geometry Box Large size	2
2	Abacus -10ROW	2
3	Place Value (Model)	2
4	3DModel-10Cm- Set of 10 (Rectangle Sphere, Cones, Traingle, Prism )	2
5	Pattern of Triangle	2
6	Circle Fraction (Non Magnetic)	2
7	Rectangular Fraction (Non Magnetic)	2
8	Tetrahedron Model	2
9	Octahedron Model	2
10	Area of Parallelogram (Model)	2
11	Hexahedron Model	2
12	Types of Angle (Model) Acute & Obtuse	2
13	Sphere section in 2 parts	2
14	Geometrical 3-D Models	2
a	Cuboids 15x15x30cm	2
b	Pyramid Triangular 15X30cm	2
c	Pyramid Circular	2
15	Menstruation Kit - Basic	2
16	Set theory by VENN DIAGRAM	2
17	Probability Kit	2
18	Relation and Function	2
19	Pythagoras Theorem	2

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# DEPARTMENT OF PSYCHOLOGY

List of Items Procurement for the financial year 2023-24  
Brand: AELAB/SPANCO/ INDOSAW

SI No	Name of the Items	Qty
1	Aesthesiometer (2 Point)	5
2	Weight Box (12/10 weights)	1
3	Mirror Drawing (electrical)	1
4	Metronome	1
6	Tachistoscope (Digital)	1
7	Tachistoscope (manual)- Fall door Type span of attention with manual cards.	1
9	Memory Drum (Electric)	1
10	Model of Human Brain, EYE,	1
11	Chart of Nervous System	1
13	Thematic Apperception Test(TAT) (Indian),	1
14	Word Association Test (WAT)	1

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High Temperature  
Calcinations Furnace

Digital PID Control- Max Temp-900 Continuous Temp-800, Size of Hot Zone-4x4x8 mm(HXWXD), Temp Accuracy +/- 1degC, Dual wall insulation. Latest technology low energy consumption vacuum formed Fiber boards; Hot wall insulation will be 1260c HD grade. MS CRC fabricated dual body structure, with duly powder coated by CNC Cutting Design .Exhaust outlet port will be provided on top wall of the furnace for discharge of fumes and exhaust gases. Also suction blower will be provided on to side of the furnace, Honeywell make DC1010PT, Digital Temperature controller with 18 inbuilt programmers and 8 segments in each programmed 1 No. (3 Point calibration:500c, 800c,1000c NABL certificate will be provided)

1

## DEPARTMENT OF BOTANY

List of Items Procurement for the financial year 2023-24

Brand: METTLER /MERCK/ /THERMO/ AELAB/SPANCOTEK

### EQUIPMENTS

SI No	Name of the Equipments	Specification/Description	Qty
1	Colorimeter Digital Microprocessor based	8 filter mains operated with optical density, 16X2 digit LCD Display, Range-400 to 700nm, 1ml solution measurement.	1
2	Auto pH meter with Microcontroller LCD Based	pH range-0.00 to 14.00pH, Temperature-0 to 70°C, Display- LCD , 2 buffers calibration 7pH & Amp, 4pH & Amp, Accuracy-0.01pH ± 1%, Accessories-pH electrode, Clamp, Rod, Stand, 3 point calibration & interface, ; time, range 0.00 to 20.00.	1
3	Conductivity (Microprocessor based) with adjust Cell	TDS: 0-1000ppt Auto Ranging , EC-0-1000ms, Cell- Platinum DP type, 16X2 digit LCD display with facility for automatic temp. compensation & digital cell constant adjustment along with conductivity cell & temperature probe. (Table model)	1
4	Digital weighing Machine	Capacity-600g, Readability 0.001g(1mg), Pan Size-80mm, Display-LCD with backlight, Calibration -Automatic external, Tare range-Full, Operating Temperature-10°C to 40°C, Dimension(LxWxH)mm-415x405x295, Weight-5.7kg, Low battery indication, Auto Zero tracking, Over load protection , Operating Supply:230V/50Hz	1
5	Centrifuge HIGH SPEED Digital	Capacity- 4X15ml Tube/ 6x15ml tubes with fixed rotor, A Highly Stable, low noise, low vibration machine. Table top model with digital timer 0-59 minutes range and variable speed regulator, maximum RPM is 5000, cover is made of transparent acrylic and is light weight, operates on 220 Volt. 50 Hz	1
6	STUDENTS COMPOUND MICROSCOPE With Illumination System :	Built-in bright white LEDLIGHTING SYSTEM Base: U - Shaped Cast Iron Base 90° Inclination Body. Stage: 110 X 110 Mm With Stage Clips, .Illumination: A Plano- Concave Reflector, A Bright Field Condenser Is Fixed To The Stage, Optics : 10x & 15x Eyepieces And 10x & 40x, Maximum Magnification 600x. Objectives Are Achromatic. Focusing :Separate Knobs For Coarse And Fine Motion Are Provided On The Body, Revolving Nose Piece Carrier Is Fixed To The Stage	1
7	Laboratory oven Digital Facility	Size- 14X14X14 with 2 Shelves, 45 liter Capacity, PID facility, Suitable for temperature up to 250C. External body is made of MS grade with scratch proof and heat resistance paint, Internal structure including door and chamber are manufactured from either SS/Aluminum, 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,	1

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	(d) Impedance at resonance		
12	To Verify the Thevenin and Norton Theorems	DC Supply:12V/150mA (Variable), Resistor : 500Ω/1W (Variable), Resistor : 500Ω,200Ω & 1KΩ (Fixed), DC Voltmeter : 0-12V(Moving Coil), DC Ammeter : 0-20mA(Moving Coil)	1
13	Zener diode and its use as voltage regulator with 3 Meter	Variable DC supply:0-15V, Voltmeter :0-15V (Moving Coil)-2nos, Ammeter :0-1.5mA & 0-15mA (Moving Coil)Variable pot :500K -1no, Interconnection :4mm patch cord, Resistance:1kΩ-3nos Zener Diode : 6V,9V&12V	1
14	V-I & power curves of solar cells, and find maximum power point & efficiency.	DC Ammeter : 2000μA & 200mA, DC Voltmeter : 0-20V, Ammeter Display : 3 ½ Digit Voltmeter Display : 3 ½ Digit, Solar Cell : Restive Load : 100Ω,250Ω,500Ω & 1K,2K,5K.	1
15	Study the characteristics of a Bipolar Junction Transistor in CE configuration	DC Supply :0-1V/100mA (Variable):0-10V/100mA (Variable), DC Voltmeter:0-1V (Moving Coil), DC Voltmeter:0-10V (Moving Coil), DC Ammeter :0-250μA(Moving Coil), DC Ammeter:0-50mA(Moving Coil), Transistor : NPN & PNP	1
16	Digital Multimeter	TRMS 3 3/4 Digital Multimeter with Component measuring (a) Resistances, (b) AC and DC Voltages, (c) DC Current, (d) Capacitances, and (e) Checking electrical fuses.	1

## DEPARTMENT OF CHEMISTRY

List of Items Procurement for the financial year 2023-24

Brand: METTLER /MERCK/ /THERMO/ AELAB/SPANCOTEK/ REMI

<b>EQUIPMENTS</b>			
Sl No	Name of the Equipments	Specification/Description	Qty
1	Colorimeter Digital Microprocessor based	8 filter mains operated with optical density, 16X2 digit LCD Display, Range-400 to 700nm, 1ml solution measurement.	1
2	Auto pH meter with Microcontroller LCD Based	pH range-0.00 to 14.00pH, Temperature-0 to 70°C, Display- LCD , 2 buffers calibration 7pH & Amp, 4pH & Amp, Accuracy-0.01pH ± 1%, Accessories-pH electrode, Clamp, Rod, Stand, 3 point calibration & interface, unlimited memory storage with date & time, range 0.00 to 20.00. Operating Supply-230V/50Hz	1
3	Conductivity (Microprocessor based) with adjust Cell Tec Specifications:	TDS: 0-1000ppt Auto Ranging , EC-0-1000ms, Cell- Platinum DP type, 16X2 digit LCD display with facility for automatic temp. compensation & digital cell constant adjustment along with conductivity cell & temperature probe. (Table model)	1
4	Digital weighing Machine-0.1mg	Capacity-220gm, Readability 0.1mg(1mg), Pan Size-80mm, Display-LCD with backlight, Calibration -Automatic external, Tare range-Full, Operating Temperature-10°C to 40°C, Dimension (LxWxH) mm-415x405x295, Weight-5.7kg, Low battery indication, Auto Zero tracking, Over load protection , Operating Supply:230V/50Hz	1
5	Hydrothermal (Threaded Type )	SS304 -Cap- 100ml. Hydrothermal Autoclave Reactor with Teflon Chamber of volume 100ml ml Premium quality .Maximum temperature: 220 degree Maximum Working Pressure: 3MPa	1
6	Thermal Strain point	1385K, Dielectric Strength -10KV/mm at 20DegreeC, Quartz Boat length - 77mm, width-20mm, height-12mm	1
7	Alumina Crucible	Cylindrical- OD 40mm, Height 52mm Volume 50CC	1
8	Research Laboratory Centrifuge	SS304 Grade Body, 5000RPM, Digital Dual Display, Max RCF -21000, Noise ≤40dB with including Heavy Duty Angle & Swing Out Rotor with 50/30/15/10/2ml Capacity	1

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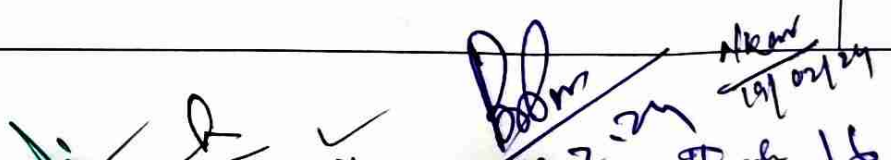


# DEPARTMENT OF PHYSICS

List of Items Procurement for the financial year 2023-24

Brand: INDOSAW/ SPANCOTEK/ HOLMARC/AELAB

Sl No	Name of the Equipments	Specification/Description	Qty
1	To determine g by Bar Pendulum.	Brass Bar : 100 x 3.75 x 0.5 cm <sup>3</sup> (Drilled with 19 holes at equal distances of 5 cm) Wall bracket : Meter scale : 100cm, Stop Watch, Count :1/100 Second ,,Time display :Hour, Minute ,Seconds	1
2	To determine g by Kater's Pendulum	Steel rod : 100 cm in length, 1.2 cm diameter, SS adjustable masses : 600g & 300g (each) Meter scale : length 1m, Stopwatch : Count :1/100 Second ,Time display :Hour, Minute ,Seconds, Removable sharp knife edges-2nos, Adjustable wooden light masses-2nos, Wall bracket-1no	1
3	Surface tension Capillary rise method with Digital Facility	RISING TABLE: Cast aluminum 10cm dia with a stem of 12cm, CAPILLARY TUBE CLAMP: 10cm long with glass, Different internal diameter, 9mm rod is attached with metal frame, Beaker, Digital Travelling microscope	1
4	To determine self inductance of a coil by Anderson's bridge with Digital Null detector	Variable resistance 0-100 ohms, Resistance dials 10x10,10x100 & 10x1000 ohms, Standard capacitor 0.1 μf and 0.2μf, Resistance 1000ohm P and Q, Unknown inductance L, Digital NULL Detector or Head phone	1
5	To determine wavelength of sodium light using Newton's Rings- Compact	COMPACT NEWTONS RING MICROSCOPE – ADVANCE-Eyepiece : Ramsden 10x , Objective : 3x, Scale length : 110 mm , Least count : 0.01 mm, NEWTON'S RINGS REFLECTOR, Housing : PVC, Finish : Matt black painted, Glass plate : Mounted at 45°, SPHEROMETER (DISC BRASS), Types : 3 legs, Vertical scale : 6mmx6mm (WxT), Micrometer : Dia. 40mm, Brass, Lower disc: Dia.60mm, Range : 10-0-10 mm , Least count : 0.01mm, PLANO CONVEX LENS, Dia. : 61.5 mm, Glass, Focal Length : 200mm, SODIUM LIGHT SOURCE WITH STAND FIXED IN SETUP	1
6	To determine the coefficient of thermal conductivity of Cu by Searle's Apparatus.	Searle's Apparatus, Constant water lever bath, Measuring Beaker 600ml, Stop Watch, Electric Steam generator, Thermometers, Pinch cock, Silicon tube, Instruction manual, Digital weighing balance Accuracy (0.01gm)	1
7	Mechanical equivalent of heat J by callender and barne's constant flow method	Calendar and Barn's continuous flow calorimeter, AC Ammeter : 0- 3A (Moving Coil) AC Voltmeter : 0-10V (Moving Coil), Thermometers : 10°C to 100°C -2nos, Measuring cylinder : 0 to 100mg, DC Supply : 2V to 12V/3A, Three Flow Water containg Beaker -1 no Rubber tubing : 8mm - 2Meter	1
8	Thermal Conductivity by LEE DISC method	Hollow metal box, MS chrome plated rod, Thread reel, MS painted base, Chrome plated brass disc, Disc made of ebonite and glass, Electrical Steam generator, Stem Chamber, Thermometer alcohol -10 to 150°C x 1°C, Digital Stopwatch-Count: 1/100 second, Time display: Hour, Minute, Seconds , Rubber tube silicon L=50cm, Rubber tube L=50cm, Hot plate dia 6", Glass Beaker 250ml	1
9	To compare capacitances using De'Sauty's bridge. with Digital Null detector	On Board Decade Resistance: Range :10 ,100 & 1KΩ.-2nos , Standard Capacitors : 0.1 μf & 0.2 μf, Unknown Capacitors :4nos, A.C supply of frequency : 10 KHz, Null Detector : Digital Components are mounted on board, Front panel built with high class insulated sheet Circuit & Symbol diagram printed on front panel, Interconnection : 4mm banana patch cord	1
10	To Study the Characteristics of a Series RC Circuit.	Built in DC Regulated Power Supply :0-12V (Variable), Voltmeter : 0-12V (Moving Coil), Galvanometer : 1-0-1 (Moving Coil), Resistances :10KΩ,15KΩ & 18KΩ, Capacitors : 1000 μf,2200 μf & 4700 μf, Toggle Switch : 2way	1
11	LCR circuit Series & parallel and determine its (a) Resonant frequency, (b) Quality factor (C)Band width	DC Voltmeter : 0-5V (Moving Coil),DC Ammeter : 0-25mA (Moving Coil) , Resistances :100Ω,150Ω & 220Ω, Capacitors : 0.1μf,0.2μf &0.3μf, Inductance : 50mH, Signal Generator -200Khz	1


  
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# DEPARTMENT OF ZOOLOGY

List of Items Procurement for the financial year 2023-24

Brand: METTLER /MERCK/ /THERMO/ AELAB/SPANCOTEK

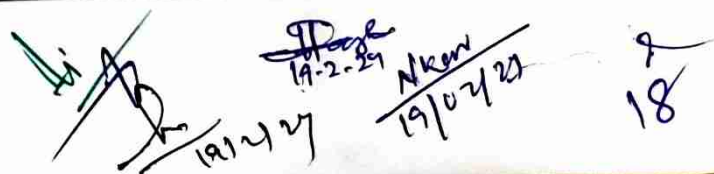
## **EQUIPMENTS**

SI No	Name of the Equipments	Specification/Description	Qty
1	Colorimeter Digital Microprocessor based	8 filter mains operated with optical density, 16X2 digit LCD Display, Range-400 to 700nm, 1ml solution measurement.	1
2	Auto pH meter with Microcontroller LCD Based	pH range-0.00 to 14.00pH, Temperature-0 to 70°C, Display- LCD , 2 buffers calibration 7pH & Amp, 4pH & Amp, Accuracy-0.01pH ± 1%, Accessories-pH electrode, Clamp, Rod, Stand, 3 point calibration & interface, unlimited memory storage with date & time, range 0.00 to 20.00. Operating Supply- 230V/50Hz	1
3	Conductivity (Microprocessor based) with adjust Cell	TDS: 0-1000ppt Auto Ranging , EC-0-1000ms, Cell- Platinum DP type, 16X2 digit LCD display with facility for automatic temp. compensation & digital cell constant adjustment along with conductivity cell & temperature probe. (Table model)	1
4	Digital weighing Machine	Capacity-600g, Readability 0.001g(1mg), Pan Size-80mm, Display-LCD with backlight, Calibration -Automatic external, Tare range-Full, Operating Temperature-10°C to 40°C, Dimension(LxWxH)mm-415x405x295, Weight-5.7kg, Low battery indication, Auto Zero tracking, Over load protection , Operating Supply:230V/50Hz	1
5	Centrifuge HIGH SPEED-Digital	Capacity- 4X15ml Tube/ 6x15ml tubes with fixed rotor, A Highly Stable, low noise, low vibration machine. Table top model with digital timer 0-59 minutes range and variable speed regulator, maximum RPM is 5000, cover is made of transparent acrylic and is light weight, operates on 220 Volt. 50 Hz	1
6	STUDENTS COMPOUND MICROSCOPE With Illumination System	Built-in bright white LEDLIGHTING SYSTEM Base: U - Shaped Cast Iron Base 90° Inclinable Body. Stage: 110 X 110 Mm With Stage Clips, .Illumination: A Plano- Concave Reflector, A Bright Field Condenser Is Fixed To The Stage, Optics : 10x & 15x Eyepieces And 10x & 40x, Maximum Magnification 600x. Objectives Are Achromatic. Focusing : Separate Knobs For Coarse And Fine Motion Are Provided On The Body, Revolving Nose Piece Carrier Is Fixed To The Stage	1

## **GLASS APPARATUS**

Brand: BOROSIL/RIVERA/BSG

SI No	Name of the Equipments	Specification/Description	Qty
1	REAGENT BOTTLE		6
2	PETRIDISH		6
3	WATCH GLASS		2
4	PLAIN SLIDE (Box), cover slip, test tube stand		1
5	Petri dish		2
6	DISSECTION BOX		6
7	Conical flask 250ml		6
8	Conical flask 500ml		6
9	Measuring flask 100ml		6
10	Measuring flask 500ml		6
11	Beaker-100ml		6
12	Beaker-200ml		6
13	Beaker-500ml		6


  
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