



OFFICE OF THE PRINCIPAL
P. I. DEGREE COLLEGE, JUNAGARH
DIST- KALAHANDI

Adv. No: **583**/PIM(J)/KLD/2024

Date: **29.07.2024** //

TENDER CALL NOTICE

Tenders are invited for procurement of Bench-cum-Dual Desk, Experiment Table for Science Laboratory, Stool for laboratory, science laboratory equipment, CC TV installation and Sports items under Non-Civil head of OHEPEE. The firms having GST/PAN/TAN registration can send their tenders for supply of items. The tender documents will be opened according to schedule of RFP. The undersigned reserve the right to accept or reject any or all the tenders without assigning any reason thereof.

For details of the RFP visit- www.pidcjunagarh.co.in.

Sd/-
Principal
P.I.Degree College, Junagarh

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SECTION 1 : SCHEDULE OF RFP

Sl. No	Particulars	Details
01	Request for Proposal (RFP) No-	583/PIM(J)/KLD/2024
02	Date of Issue of RFP	29.07.2024
03	Name of the RFP Issuer(PRINCIPAL):	Principal, P.I. Degree College, Junagarh
04	Scope of Work	Supply of Compact Desk-cum-Bench (Dual Desk) / Experiment Table for Science Laboratory, Stool for laboratory, science laboratory equipment, CC TV installation and Sports items at the college premise.
05	Method of Selection	Least Cost Selection Method
06	Deadline for Submission of Pre-Proposal Query	06.08.2024
07	Pre-Proposal meeting	12.08.2024
08	Issue of Pre-Proposal Clarifications (if any)	17.08.2024
09	Last date for submission of proposals	03.09.2024
10	Date of Opening of Technical Proposals	04.09.2024
11	Date of Opening of Financial Proposals	05.09.2024
12	Earnest Money Deposit (EMD): Refundable for unsuccessful firms.	2% of the total supply order value as estimated by the college.
13	Performance Security (To be submitted by the L 1 firm only)	3% of the L 1 estimated value.
14	Address/venue for submission/ opening of such proposals.	Priyadarshini Indira Degree College, Junagarh At/Po- Junagarh PS- Junagarh Dist- Kalahandi, Odisha Pin-766014

Note:-

*In case of any change in the scheduled date due to COVID-19/ any unforeseen event the date may be shifted to the next possible working day or as decided by the Principal.

SECTION 2 : NOTICE OF INVITATION

The Principal of P.I. Degree College, Junagarh hereby invites proposals from reputed eligible firms located within State of Odisha to select supplier for Supply of Compact Desk-cum-Bench (Dual Desk) and Experiment Table for Science Laboratory, Stool for laboratory, science laboratory equipment, CC TV installation and Sports items at the college premise.

1. Firm will be selected under “Least Cost Selection” method as per criteria mentioned in the RfP document.
2. The proposal must be completed in all respect as specified in the RfP document and must be accompanied with the required financial instruments as specified in the RfP.
3. The EMD should be submitted in form of a Demand Draft in favour of (Name- **OHEPEE PRINCIPAL P.I. DEGREE COLLEGE JUNAGARH, Account No- 38651810854, IFSC Code- SBIN0002072 Branch Name- STATE BANK OF INDIA JUNAGARH ADB MAIN ROAD** drawn in any scheduled commercial bank, without which the proposal will be rejected.
4. Performance security is to be submitted after issuing of LOI to the L1 bidder.
5. The proposals will be opened in the presence of the designated/ authorized representatives of the interested firm on the scheduled date & time at the specified address as mentioned in the “Schedule of RfP”. Designated/ authorized representatives of the interested firm may attend the meeting with due authorization letter on behalf of their firm.
6. Interested firms may obtain the RfP document from the official website of the college (<https://www.pidcjunagarh.co.in>) and submit their proposal in a sealed document as per the instructions mentioned in this RfP document.
7. The interested firms must accept all technical / commercial terms & conditions mentioned in the RfP document.
8. The Principal, P.I.Degree College, Junagarh reserves the right to cancel the RfP at any point of point without prior notice.

SECTION 3 : SCOPE OF WORK

1. The Scope of Work must fulfill the requirements of the college like; supply of required number of items within 15 days of issued of the “Supply Order”.
2. The supplier must deliver & install the required items at college campus and no further time should be allowed for supply of the required goods without any valid reason and without the approval of the Principal.
3. Once required numbers of items are supplied by the supplier at college campus, the training and demonstration of the items supplied must be given by the supplier.
4. After installation, training and demonstration of the required items are finished; if any issue arises with the item then the Principal of the college should immediately report in writing to the supplier.
5. After all issues are resolved, the supplier will submit the invoice to the college & the college will initiate the payment process within 15 working days of installation of the required items/goods.

SECTION-4: INSTRUCTION TO INTERSTED FIRMS

1. PRE-QUALIFICATION CRITERIA

The participating firms must produce copies of all the required supportive documents / information as part of their proposal, failing which the same proposal shall be summarily rejected.

SI. No	Basic Requirement	Specific Requirement	Supporting Documents Required
1	Legal Entity	<p>Firm must be a Company as registered under the provisions of the Indian Companies Act</p> <p>Or</p> <p>A Partnership Firm registered under the Indian Partnership Act</p> <p>Or</p> <p>A Limited Liability Partnership registered under The Limited Liability Partnership Act</p> <p>Or</p> <ul style="list-style-type: none"> • A Sole Proprietorship Firms 	<ul style="list-style-type: none"> • Certificate of Incorporation/ Registration • Partnership deed • GST Registration • PAN
2	Experience	Interested firms altogether must have supplied goods as mentioned in the RfP at least once to any of the offices/colleges/universities.	Supply Order copies.
3	Turnover	During last three Financial years i.e. FY 2021-22, 2022-23, 2023-24 the average annual turnover of the interested firm should not be less than 10% of the cost estimated by the college.	<ul style="list-style-type: none"> • Audited balance sheet and "Profit & Loss account" along with all schedules certified by a practicing Chartered Accountant. • Acknowledgement of Income tax returns
4	EMD (EMD of unsuccessful firms will be returned immediately)	<p>The interested firm should submit EMD.</p> <p>EMD value should be fixed by the college @ 2% of the total supply order value estimated by the college.</p>	Demand Draft in favour of "Name- OHEPEE PRINCIPAL P.I. DEGREE COLLEGE JUNAGARH, Account No- 38651810854, IFSC Code- SBIN0002072 ".
5	EMD relaxation criteria.	Firms registered under MSME are exempted from submitting the EMD.	Bid Security declaration and MSME/Start Ups proof.
6	Performance Security	3% of the L1 value.	Demand Draft from a scheduled commercial Bank OR

			A Fixed Deposit OR A Bank Guarantee pledged in the name of "Name- OHEPEE PRINCIPAL P.I. DEGREE COLLEGE JUNAGARH, Account No-38651810854, IFSC Code-SBIN0002072. "
7	Blacklist	The Firm should not have been banned/ blacklisted/ debarred/ Suspended by the World Bank / Central Govt./ State Govt. / Central or State PSU Origination/Central or State Govt. Universities or Colleges.	Self-Declaration from the Firm as per the prescribed format mentioned at "FORM T4".

2. VALIDITY OF PROPOSAL

- The proposal submitted by the interested firms will remain valid for one year.
- The selected firms must supply and install required number of goods as per the approved rate and within 15 days of receipt of the "Supply Order" from the college.
- Deviation from this may lead to disengagement of the selected firm and firm secured L2 position may be invited to supply the goods as per the terms and conditions of the RfP.

3. PRE-PROPOSAL QUERIES / MEETING

- Firms may submit their queries (if any) for pre-proposal meeting in respect of the RfP, to the Principal, P.I.Degree College, Junagarh only through e-Mail at <**pimahavidyalaya@gmail.com**> within the stipulated date & time mentioned in the RfP document.
- Clarifications to the above will be hosted in the official website of College, after the pre-proposal meeting, as per the schedule mentioned in the RfP document.
- The pre-proposal query meeting may be conducted either in online or physical mode.

4. SUBMISSION OF PROPOSALS

- Interested firms are advised to study carefully all instructions, forms, terms & conditions and other important information mentioned in the RFP document.
- Each page should be signed with official seal of the authorized person.
- The proposal must be complete in all respect, properly indexed and hard bound.
- A sealed master envelope bearing the name, address, phone number and email id of firm along with the RfP name & number should contain to separate sealed envelope i.e.,

- 1) Technical Proposal

2) Financial Proposal

- The sealed “Technical Proposal” must contain the required supporting documents as per the sequence mentioned below:
 - ✓ EMD through Demand Draft.
 - a) However; Micro, Small & Medium Enterprises registered with MSME / NSIC with valid category wise certificate, duly issued by Government of India are exempted for submitting the EMD on the condition that they must have the valid & category wise valid registration certificate on the date of opening of tender.
 - b) EMD deposited by the unsuccessful firms will be returned immediately.
 - c) EMD deposited by the selected firm will be returned after submission of “Performance Security”.
 - ✓ FORM T 1: Technical Proposal Submission Form.
 - ✓ FORM T 2: Organization Details along with:
 - Copy of Certificate of Incorporation/ Registration
 - Copy of PAN
 - Copy of Goods and Services Tax Identification Number (GSTIN)
 - ✓ FORM T 3: Experience Details.
 - ✓ FORM T 4: Self declaration from the firm confirming not have been banned/ blacklisted/ debarred/suspended.
 - ✓ FORM T 5: Technical Specifications Compliance Sheet. FORM T 6: Financial Turnover Details along with:
 - Copies of audited balance sheet, Profit & Loss account and all *schedules certified by the Chartered Accountant.*
 - Copies of IT Return for the last three financial year i.e FY 2021-22, 2022-23 & 2023-24.
 - FORM F 1: Financial Proposal Submission Form.
- The sealed “Financial Proposal” must contain:
 - The prices and other information having a bearing on the price shall be written both in figures and words in the prescribed form.
 - No alternation / modification / overwriting / corrections in the format shall be accepted
- The sealed proposal must be delivered at the specified address as per the “Schedule of

RfP” through Speed Post / Registered Post / Courier only. The Principal shall not be responsible for postal delay or delay due to any unforeseen situation. Submission of proposal through any other mode will not be accepted.

5. OPENING OF PROPOSALS

- ✓ Sealed envelope containing the proposal will be opened by the Principal in presence of the firm/their representative at the location, date and time specified in the RfP document.
- ✓ Only one representative with proper authorization letter from the participating firm will be allowed to attend the tender opening meeting.

6. DISQUALIFICATION / REJECTION OF PROPOSAL

The proposal is liable to be disqualified in the following cases as listed below:

- Proposals not conforming to the eligibility criteria and not submitting the required documents as mentioned in the RfP".
- Submission of forged documents.
- Proposal submitted without EMD.
- Proposal not submitted in accordance with the procedure and formats as prescribed in the RFP.
- Proposal received in incomplete form.
- Proposal received after due date and time.
- Proposal which is not accompanied by all the required documents/ information.
- Firm trying to influence the proposal evaluation process by unlawful / corrupt / fraudulent means at any point of time during the bid process.
- Price quoting in any irrelevant papers, documents, presentation etc except Financial Proposal”.
- If in case of a firm or any person acting on its behalf indulges in fraudulent practices.
- Any other condition / situation which holds the paramount interest of the PRINCIPAL during the overall selection process.
- The Principal reserves the right to annul any/all of the proposals received, at any point of time with/without assigning any reason thereof.

7. EVALUATION OF PROPOSAL

A two stage process will be adopted as explained below for evaluation of the proposals:

A. Technical Evaluation

- Technical evaluation of the proposals will be done to determine whether the proposal complies with the prescribed eligibility conditions and the requisite documents / information / financial instruments have been properly furnished by the firm.
- Technical compliance as submitted along with the proposal will be done to

determine whether the Brand & model, proposed by the interested firm of all required minimum specifications as mentioned at “Form T 5” the RfP document.

B. *Financial Evaluation*

- The financial proposals of the technically qualified firms only shall be opened at this stage in the presence of the technically qualified firm/their authorized representative on the scheduled date and time as mentioned in the RfP document.
- “Least Cost Selection Method” will be followed.
- The firm, who submits the lowest financial price proposal shall be declared as the “L1” bidder and shall be communicated for further process leading to issue of “Supply Order”.

8. AWARD OF CONTRACT

- The L 1 bidder will be notified by the PRINCIPAL in writing by issuing a “Letter of Intent” and will be asked to acknowledge the “Letter of Intent (Lol)” and to submit the “Performance Security” within 15 days of issuance of the Lol”.
- The “Performance Security” is unconditional and irrevocable.
- Performance Security amount in mentioned at Para 1 of “Section 4” and the Performance Security must remain valid till warranty period of the goods.
- After receiving the acknowledgement of Lol along with the “Performance Security”, the PRINCIPAL will issue the “Supply Order to the selected firm”, for their requirement as specified in the RfP document.
- After issue of “Lol” or after receipt of the acknowledged “Lol”, if due to any reason(s) the L1 bidder withdraws its willingness to supply the required goods then the EMD/Performance Security deposited by the same firm will be forfeited by the PRINCIPAL and firm securing the L 2 position in the financial bid will be awarded with contract, after submission of the required Performance Security amount & EMD.
- Once the Supply Order is issued by the concerned firm must supply and install the required number of items within 15 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.

9. GENERAL TERMS & CONDITIONS

- Conflict Of Interest Exists In The Event Of:
 - Firms who have a business or family relation with the PRINCIPAL, directly or indirectly.
 - Practices prohibited under the anti-corruption policy of the Government of India and Government of Odisha. The interested firms are to be

careful so as not to give rise to a situation where there will be any conflict of interest with the PRINCIPAL as this would amount to their disqualification and breach of contract.

➤ Disclosure:

- Firm has an obligation to disclose any actual or potential conflict of interest. Failure to do so will lead to disqualification of the bidder or termination of its contract.
- Firm must disclose if they are or have been the subject of any proceedings (such as blacklisting) or other arrangements relating to bankruptcy, insolvency or the financial standing of the firm, including but not limited to appointment of any officer such as a receiver in relation to the firm's personal or business matters or an arrangement with creditors, or of any other similar proceedings.
- Firm must disclose if they have been convicted of, or are the subject of any proceedings relating to:
 - ✓ A criminal offence or other serious offence punishable under the law of the land, or where they have been found by any regulator or professional body to have committed professional misconduct.
 - ✓ Corruption including the offer or receipt of an inducement of any kind in relation to obtaining any contract.
 - ✓ Failure to fulfill any obligations in any jurisdiction relating to the payment of taxes or social security contributions.

➤ Anti Corruption Measure:

- Any effort by firm(s) to influence the PRINCIPAL in the evaluation and ranking of financial proposals, and recommendation for award of contract, will result in the rejection of the proposal.
- A recommendation for award of contract shall be rejected if it is determined that the recommended firm has directly, or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the contract in question. In such cases, the PRINCIPAL shall reject the proposal and disqualify it from participating in any related RfP process.

➤ Force Majeure:

- "Force Majeure" means an event beyond the control of the selected firm and not involving the selected firm's fault or negligence and not foreseeable.
- Such events may include wars or revolutions, fires, floods, riots, civil commotion, earthquake, epidemics or other natural disasters and restriction imposed by the Government or other bodies, which are beyond the control of the selected firm, which prevents or delays the execution of the order by the selected firm.
- If a Force Majeure situation arises, the selected firm shall promptly

notify PRINCIPAL in writing of such condition, the cause thereof and the change that is necessitated due to that prevailing condition. Until and unless otherwise directed by the PRINCIPAL in writing, the selected firm shall continue to perform its obligations as per the RFP terms & conditions as far as possible and shall seek all reasonable alternative means for delivering performance not prevented by the Force Majeure event.

- The selected firm shall inform the PRINCIPAL in writing, the beginning and the end of the above causes of delay, within seven days of the occurrence and cessation of the Force Majeure condition. In the event of a delay lasting for more than one month, if arising out of causes of Force Majeure, PRINCIPAL reserves the right to cancel the contract without any obligation to compensate the selected firm in any manner for what so ever reason.
- The PRINCIPAL and the selected firm shall make every effort to resolve amicably, by direct negotiation, any disagreement or dispute arising between them under or arising from or in connection with the contract.

Governing Laws:

- Any unjustified and unacceptable delay in delivery shall render the selected firm liable for liquidated damages and thereafter the PRINCIPAL holds the option for cancellation of the contract for pending activities and completes the same through any other firm(s) who participated in the RfP process by awarding the same contract to L 2 bidder in the financial bid.
 - In such case of premature cancellation the contract the PRINCIPAL reserves the right to withhold the Performance Security.
 - The rights and obligations of the PRINCIPAL and the selected firm under this contract will be governed by the prevailing laws of Government of India and Government of Odisha only.
 - All legal disputes are subject to the jurisdiction of the Orissa High Court, Cuttack.

SECTION 5: FORM

FORM T 1: TECHNICAL PROPOSAL SUBMISSION FORM

To,

The Principal,
P.I. Degree College, Junagarh.
At/Po- Junagarh
PS- Junagarh
Dist- Kalahandi (Odisha)
Pin- 766014

Sub: Submission of Technical Proposal to select supplier for Supply of Compact Desk-cum-Bench (Dual Desk) / Experiment Table for Science Laboratory / Stool for laboratory / science laboratory equipment / CC TV installation / Sports items at the college.

REF: RfP No. _____ & date :

Dear Sir,

I, the undersigned, offer to participate in the selection process to select supplier for Supply of Compact Desk-cum-Bench (Dual Desk) / Experiment Table for Science Laboratory / Stool for laboratory / science laboratory equipment / CC TV installation / sports items at the college, in accordance with your RFP 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 RFP document. In case any provision of this RFP 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.

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM T 2: ORGANISATION'S DETAILS

Sl. No	Particular	Details
1	Name of the Firm	
2	Type of Firm (Proprietary/ Partnership/ Pvt. Ltd. / Public Ltd/ Sole Proprietorship)	
3	Date of Establishment and Experience in business (In number of years)	
4	Registered office Address & Complete postal address	
5	Local office in Odisha (along with address & contact details).	
6	Telephone & e-Mail id of authorized person	
7	G.S.T. Registration No.	
8	PAN No.	
9	Willing to carry out assignments as per the scope of work of the RFP (Yes/No)	
10	Willing to accept all the terms and conditions as specified in the RFP (Yes/No)	

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM T 3: EXPERIENCE DETAILS

SI. No.	Name of the University/ College Department/Office to whom materials supplied	Quantity of Materials Supplied	Date of Receipt Work Order with reference number	Date of supply of goods/items.	Remarks if any
1					
2					
3					
4					

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM T 4: SELF DECLARATION FOR NOT BLACK LISTED

To,

The Principal,
P.I.Degree College, Junagarh
At/Po- Junagarh
PS- Junagarh
Dist- Kalahandi (Odisha)
Pin- 766014.

Sub: Self declaration for not black listed.

Ref: RFP No.:

Sir,

I / We here by confirm that our firm has not been banned/ blacklisted/ debarred/suspended by the World Bank / Central Govt./ State Govt. / Central or State PSU Origination/Central or State Govt. Universities or Colleges.

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM T 5: Minimum Required Specifications Compliance Sheet

Interested firm(s) must confirm that, the make and model they are proposing to supply & install is satisfying the below mentioned minimum required technical specifications.

Deviations (if any) from the below mentioned minimum required technical specifications, must be clearly indicated by the interested firm(s).

A. For _____

SI. NO	Minimum Required Specifications	Compliance (Yes/No)	Deviations

B. For _____

SI. No	Minimum Required Specifications	Compliance (Yes/No)	Deviations
1			
2			
3			
4			
5			
6			
7			

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

FORM T 6: FINANCIAL TURNOVER DETAILS

Financial Turnover of the Organization during Last Three Financial Years
(Certified by a Practicing Chartered Accountant)

Sl. No	Financial Year	Turnover in INR
1	2021 - 2022	
2	2022-23	
3	2023-24	

Average Annual Turnover for the last three years (INR)	
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Name of the C A Firm:

Firm Registration No.:

Name of the Chartered

Accountant: Membership No.:

Signature with Seal:

Yours faithfully,

Authorized Signatory of the firm with Date
and Seal

FORM F 1: FINANCIAL PROPOSAL SUBMISSION FORM

To,

The Principal,
P.I.Degree College, Junagarh

Sub: Submission of Financial Proposal for "Supply of Compact Desk-cum-Bench (Dual Desk) / Experiment Table for Science Laboratory / Stool for laboratory / science laboratory equipment / CC TV installation / sports items at the college.

REF: RfP No- date :

Dear Madam/Sir,

I, the undersigned, here by submitting the Financial Proposal for "Supply of Compact Desk-cum-Bench (Dual Desk) / Experiment Table for Science Laboratory / Stool for laboratory / science laboratory equipment / CC TV installation / sports items at the college in accordance of RFP No_.

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	Number of items	Remarks
01			
02			

The Other Charges (*) may include:

1. All necessary accessories like; cables, wires, pipes ...etc, which are instrumental for installation.
2. The transportation/ material handling cost for delivering and installing the required numbers of materials at the college premises.

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

SECTION 6

(Standard Supply Order of the college)

To,

Name _____

Address _____

Sub:- Supply & Installation of “Compact Desk-cum-Bench (Dual Desk) and Experiment Table for Science Laboratory / Stool for laboratory / science laboratory equipment / CC TV installation / sports items.

Sir,

The following items may be supplied to our college & installed within 15 days with reference to RfP No.

Sl. NO	Name of the items	Number of items	Remarks
01			
02			

Yours Sincerely,

Principal,

P.I. Degree College, Junagarh

SECTION 7

(Certificate of willingness to be submitted by all firms)

To,

The Principal
P.I. Degree College, Junagarh

Sub:- Submission of Willingness certificate for supply of Compact Desk-cum-Bench (Dual Desk) / Experiment Table for Science Laboratory / Stool for laboratory / science laboratory equipment / CC TV installation / sports items at your college premise.

Sir,

I am to inform you that my firm (name of the firm with address) is ready to supply of Compact Desk-cum-Bench (Dual Desk) / Experiment Table for Science Laboratory / Stool for laboratory / science laboratory equipment / CC TV installation / sports items throughout the State of Odisha within 15 days of receipt of work order from the colleges selected under OHEPEE, if my firm is elected as L1, bidder during selection of tender.

In the event of my firm's failure to supply and install the required items in the selected L1 cost, my EMD/Performance Security will be forfeited.

Yours faithfully,

Authorized Signatory of the firm with Date and Seal

ANNEXURE 1

(Proposal Submission Check List)

Sl. NO	Description	Submitted (Yes/No)
1	Earnest Money Deposit (EMD)	
2	Copy of Certificate of Incorporation / Registration	
3	Copy of Goods and Services Tax identification Number	
4	Copy of PAN	
5	CA audited copies of Profit & Loss Account and Balance Sheet along with all schedules	
6	Copies of IT Returns for the last three financial years	
7	Technical Proposal Submission Form	
8	Organization's Details	
9	Experience Details	
10	Self-Declaration for not having been blacklisted	
11	Technical Specifications Compliance Sheet	
12	Financial Turnover Details	
13	Financial Proposal Submission Form	
14	Certificate of willingness to be submitted by all firms	

STANDARD SPECIFICATION FOR EXPERIMENT TABLE & STOOLS

1	Lab Table for Physics lab	Size: 6' x 4' x 3' (LxBxH) with fitted cupboard and electrical socket	5 Nos
2	Lab Table for Chemistry lab.	Size: 7' x 4' x 3'(LxBxH) with fitted cupboard , basin and attached racks.	4 Nos
3	Lab Table for Botany, Zoology lab.	Size: 7' x 4' x 3' (LxBxH) with fitted drawer, cupboard , basin and attached racks.	10 Nos
5	Stool for Students lab.	33X33X44 cm cushioned stool	128 Nos

STANDARD SPECIFICATION FOR CC TV & MONITOR

1	CCTV for Academic Building	Monitor: 32"Camera: 2 MP Hard Disk: 8 TB, DVR: 32 port Accessories with connector	Monitor: 1 No. Camera: 20 Nos.
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STANDARD SPECIFICATION

For Compact Desk-cum-Bench

SL. NO.	STANDARD SPECIFICATION
1	Number of Desk-cum-Bench: 88 Pairs (4 seated)
2	The Compact Desk-cum-Bench (Dual Desk) shall be following size 72" X 35" X 30" (L X W X H)
3	Frame- Frame shall be manufactured from M.S. hollow square tube of size- 25 x 25 x 1.25 mm, material conforming to IS: No.4923.
4	Screw- Fully threaded parallel shank steel screw/ star screw of size M 10 x 38 mm
5	Board- ISI Marked Pre-laminated Medium Density Fibre (M.D.F.) Board having thickness 18 mm, Grade – 2, Type- 2 conforming to IS: No. 14587

**Procurement plan for non-civil activities of
SPORTS ITEM**

SL NO.	GOODS/SERVICES TO BE PROCURED	DETAILED SPECIFICATIONS	QUANTITY
1	Smarturm Davie 7 HP Peak Treadmill, 150 KG Auto Incline with Massager		1
2	SG Sunny Tonny Icon English willow Cricket Bat		41
3	Bullar 30 KG Steel Home Gym Set with 3 Ft.		3 Set
4	Lifeline Fitness multi Home Jym Multiple Muscle Workout Excercise Machine		1
5	Flexbike Lite		1
6	Yunex Duoraten Racket		8
7	Yunex Shuttle 12 Box		24
8	Yunex Badminton Net		1
9	Yunex Kit Bag		2
10	Football Shoes		15
11	Football		6
12	Volley Ball Net		1
13	Volley Ball		6
14	Cricket Ball		6
15	Volley Ball Pole		1Set
16	Badminton Pole		2 Set
17	Cricket Kit Bag		2
18	Football Jersy		15
19	Cricket T-Shirt		15
20	Gynfreak Pack of 1 Bombo Javeline for Men		4 Set
21	Athletic Javeline 600 gm.		6 Pice
22	Discus Throw Monex ABS Fiber Discuss Throw		6 Pice
23	Wooden Discuss throw/ frisbee 1 kg		6
24	Hammer Throw 5.45 Kg		2 Pice
25	High Jump Stand		2
26	Nelco Scholastic Iron Shot put - 6LBS		3
27	Toyshine Fitness		1
28	Hashtag Fitness		1
29	Gym Bench		1
30	Yunex Bedminton Racket Astrox ZZ		1

**Procurement plan for non-civil activities of
PHYSICS EQUIPMENT AND CHEMICALS DETAILS**

SL NO.	GOODS/SERVICES TO BE PROCURED	DETAILED SPECIFICATIONS	QUANTITY
1	To determine the coefficient of thermal conductivity of a bad conductor by Lee and Charlton's disc method	Lee disc stand with base plate, Two thermometers : 10 to 100°C , Rubber tube. Hollow metal box, MS chrome plated rod, Thread reel, MS painted base, Chrome plated brass disc, Disc made of ebonite and glass Electric Steam generator, Steam Chamber, Glass beaker 250ml	3
2	To determine the temperature co-efficient of resistance by Platinum resistance thermometer.	Platinum Resistance Thermometer, Steam Boiler with Heating Arrangement, DC Power Supply : 2V/100mA, Callender and Griffith bridge with Jockey, Galvanometer 30-0-30, 22 ohm, Thermometer -10°C to 150°C	3
3	To study the variation of thermo emf across two junctions of a thermocouple with temperature.	Copper-Iron Thermocouple & Potentiometer :10 wire, Water containing Beaker : 250ml 2Nos, Heating Arrangement(electric), DC Voltage : 2V & 4V/100mA, DC Voltmeter : 20V & 200mV (Switch Select), Ammeter : 0-200mA, Resistance : 1Ω-10000Ω & 1KΩ -10KΩ, Thermometer :10-100°C -2nos, Sensitive Galvanometer 30-0-30, Stand for Thermocouple with base plate	3
4	To design a Wien bridge oscillator for given frequency using an op -amp.	DC Supply: +5V, OPAMP:1, Resistor : 4.7KΩ,100KΩ, 6.8KΩ, 3.3KΩ, 680Ω, 10KΩ, Capacitor:0.01μF,0.047μF,0.2μF, Front panel built with high class insulated sheet, Circuit & Symbol diagram printed on front panel, Mains Power :230V/50Hz,Cathode Ray Oscilloscope	3
5	To design a phase shift oscillator of given specifications using BJT	DC Supply:+5V, BJT:CL100S, Resistor:4.7KΩ-3nos, 47KΩ, 10KΩ, 2.2KΩ ,680Ω, Capacitor:0.1μF-3nos,1μF,22μF, Interconnection:2mm patch cord, Front panel built with high class insulated sheet, Circuit & Symbol diagram printed on front panel, Mains Power :230V/50Hz Cathode Ray Oscilloscope	2
6	To design a Wien bridge oscillator for given frequency using an op -amp.	DC Supply: +5V, OPAMP:1, Resistor : 4.7KΩ ,100KΩ, 6.8KΩ, 3.3KΩ, 680Ω, 10KΩ, Capacitor:0.01μF,0.047μF,0.2μF, Front panel built with high class insulated sheet, Circuit & Symbol diagram printed on front panel, Mains Power :230V/50Hz, Cathode Ray Oscilloscope	2
7	Inverting & Non Inverting amplifier using Op-amp .	DC Supply: +12V & -12V Fixed, AC Signal:10KHz, AC Voltage:1V OPAMP-IC741, Resistor : 1/10KΩ-2nos,100KΩ-2nos,1MΩ,10MΩ Capacitor:0.01μF-2nos,100pF, Mains Power :230V/50Hz, Cathode Ray Oscilloscope, Signal Generator	2
8	To investigate the use of an op-amp as an Integrator	DC Supply: +12V & -12V Fixed, AC Signal:200KHz, AC Voltage:1V OPAMP-IC741, Resistor : 1KΩ,10KΩ-2nos,100KΩ-2nos,1MΩ,10MΩ Capacitor:0.01μF-2nos,100pF, Optional- Cathode Ray Oscilloscope -50 MHz, Optional-200KHz Signal Generator	2
9	Optional-1	70 MHZ Digital Colour CRO	2

10	Optional-2	200Khz Function Generator	4
11	Measurement of Susceptibility of Paramagnetic Solution (Quinck`s Tube Method)	POWER SUPPLY: Voltage : 0-16V DC continuously variable & stabilized ,Voltage display : 3½ digit LED, Ripple : Less than 25mV,Overload : Current limiting protection, Current : 5 A continuously variable, 10% to full rating,Current display : 3½ digit LED, Working voltage : 230V AC, 50 Hz single phase,DIGITAL GAUSS METER: Range : 200 G & 2 kG,Resolution : 1G at 0 - 200G, Power : 220 V, 50 Hz AC, Hall probe : InAs, TRAVELING MICROSCOPE: Travel : Horizontal 170mm, Vertical 110mm,Least Count : 0.01mm,Working distance : 50mm, Eyepiece Ramsden : 8x, Reticle : 90°cross on glass .DIGITAL WEIGHING SCALE: Capacity : 700g., Display :Digital, Least count : 0.1g., Body : Plastic, ELECTROMAGNET: Coils: 400 Turns. Coil Current: 4.5Amp (Max.), Connection: 4mm safety socket.U Core: 150x130mm (LxH), 40x40mm cross section. ,I Core : Length=150mm, 40x40mm cross section., Core material: Ferromagnetic.	1
12	B-H curve apparatus	To trace Hysteresis curves on CRO using resistance, capacitance, and Inductance. Instrument comprises of AC power supply 3-15V AC, output selectable using band switch, Printed circuit diagram, Components connected behind the front panel, provision for connecting external inductance is given, input and output connections brought out at sockets. Optional- Dual Channel CRO .	2
13	To determine the hall Co - efficient of a Semiconductor (Compact Size)	Specifications: ELECTROMAGNET - Made of soft iron, specially design for Hall Effect experiments, mounted on a wooden base for stable performance, Pole pieces :- 50mm dia. tapered type Field :- 7.5kg at 10mm. air gap, Energizing Coils :- Two coils each with total resistance of 9 ohms (approx).DIGITAL POWER SUPPLY FOR ELECTROMAGNET - 0 - 6Amp, 60V digital display, It is a constant current power supply, with long time operation and continuously variable current. DIGITAL GAUSS METER: Range: 0-2 K Gauss & 0-20 K Gauss, Resolution: 1Gauss at 0-2 K Gauss Range, Accuracy: ± 0.5%, Display: 3 ½ Digit, 7 Segment LED, Power: 220V, 50Hz Special Feature: Indicates the direction of the Magnetic field. Gauss Probe CONSTANT CURRENT POWER SUPPLY:(i) Digital Mill voltmeter Range: 0-200mV/ 2000mV (100µV minimum) Accuracy : ±0.1% of reading ±1 digit (ii) Digital Mill Ammeter Range : 0-10mA/20mA Accuracy : ±0.1% of reading ±1 digit, (iii) Constant Current Power Supply Current : 0-20mA Resolution : 10µA Accuracy : ±0.2% of the reading ±1 digit, Load regulation : 0.03% for 0 to full load Line regulation : 0.05% for 10% variation	1
14	To show the tunnelling effect in tunnel diode (Digital Meter)	Inbuilt Fixed DC regulated power supply, DC Voltmeter : 0-600mV (digital), DC Ammeter : 0-50mA (digital),Tunnel Diode : IN 3717	2

15	verify the law of Malus for plane polarized light	To verify the law of Malus For plane Polarized light(Complete set) Technical Specification: OPTICAL BENCH-1 mtr POLARIZER / ANALYZER-Angle : Adjustable (0°-90°), Aperture : 21mm dia. Frame : 130mm dia., Rod : 10 mm dia.DETECTOR-Detector : Terminals : 4mm safety socket, Aperture : 1 mm , Rod : 10 mm diameter, Digital Multimeter	1
16	To analyse elliptically polarized Light by using a Babinet's compensator.	Babinet Compensator, Quarter wave plate, Polariser & Analyser Eye piece & White light lamp source	1
17	To verify the Stefan`s law of radiation and to determine Stefan's constant (Heat Radiation System)	DC Power Supply : 12V/250mA, DC Voltmeter : 0-12V, DC Ammeter :0-250mA, DC Bulb :12V, Components are mounted on board Front panel built with high class insulated sheet	3
18	To determine the Moment of Inertia of a Flywheel.	Flywheel consists of a steel disc 250 mm old x 30 mm wide. Which is integral with a shaft running in ball bearings.The periphery f the disc is an engraved mark which passes a pointer as the flywheel revolves. The bracket carrying the flywheel should be bolted to a vertical surface Sufficient free fall to drive the flywheel for up to 10 revolutions. Weights, Meter Scale 1meter&Digital Stop watch	4
19	To determine the Elastic Constants of a Wire by Searle's method. Stand System	SS rectangular bars each of length 30cm-2 nos, Vernier calliper, Material: Stainless steel, Jaw Depth: 16 mm, Range: 0-150 mm, Least Count: 0.01 mm, Screw gauge, Material : Stainless Steel, Range:0-25 mm, Stand For Searle's App	4
20	To determine Coefficient of Viscosity of water by Capillary Flow Method (Poiseuille's method)	Constant water level reservoir can be adjusted on MS chrome plated rod on tripod stand, Rubber tube of length 1mtr., Stopwatch, Thermometer, Pinch cock, Graduated cylinder 100ml, Manometer on wooden stand, Glass capillary tube of length 38cm on stand	4
21	Low Resistance by Carey Foster's Bridge	DC Supply : 1.5V/250mA (Switch Controlled), Decade Resistance Box : 0.1Ω to 10Ω-2nos (Fractional), Galvanometer: 30-0-30μA (Moving Coil), DC Regulated Fixed Power Supply : 1.5V/250mA, Fixed Resistors :10Ω±1% -2nos, Carry Foster Bridge with jockey	2
22	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)	4
23	self-inductance of a coil by Anderson's bridge with Null detector	On Board Decade Resistance : Range 1/ 1KΩ-3nos, : Range 10Ω to 10KΩ-3nos, Standard Capacitors : 0.1 μf & 0.2 μf, Standard Resistance : 1000Ω -2nos, Resistance : 0.1Ω to 1Ω (Decade Step), Unknown Inductance : 3nos, A.C supply of frequency : 1KHz DC Supply :3V (fixed) Null Detector : Digital for both AC & DC	2
24	To study the surface station by capillary rise methods	General Technical Standard as requard for UG Course	2

25	To determine the modulus of rigidity of a wire by Maxwell's needle	General Technical Standard as required for UG Course	2
26	To study the response curve of a series and parallel LCR circuit	General Technical Standard as required for UG Course	2
27	To compare the capacitances using DeSauty's bridge	General Technical Standard as required for UG Course	2
28	To determine the refractive index of the material of a prism using sodium source	General Technical Standard as required for UG Course	2
29	To determine the dispersive power and resolving power of a plane diffraction grating	General Technical Standard as required for UG Course	2
30	To determine the V-I characteristics of a Zener diode and its uses as a voltage regulator	General Technical Standard as required for UG Course	2
31	To determine the V-I characteristics and power curves of a solar cell and find maximum power point and efficiency	General Technical Standard as required for UG Course	2
32	To determine Planck's constant using LEDs of at least 4 colours	General Technical Standard as required for UG Course	2
33	To determine the wavelength of a LASER source using diffraction of a single slit	General Technical Standard as required for UG Course	2
34	To determine the wavelength of a LASER source using diffraction of a double slit	General Technical Standard as required for UG Course	2

**Procurement plan for non-civil activities of
(Priyadarshini Indira Mahavidyalaya, Junagarh, Kalahandi)
for FY: 2023-24 for newly constructed (+3 building) under OHEPEE**

CHEMISTRY EQUIPMENT AND CHEMICALS DETAILS

SL NO.	GOODS/SERVICES TO BE PROCURED	DETAILED SPECIFICATIONS	QUANTITY
1	Test tube	Small and medium	200
2	Beaker	500 ml	2
3	Beaker	1000ml	2
4	Beaker	250 ml	10
5	Test tube stand		30
6	Pipette	10 ml and 20 ml	20
7	Funnel		20
8	Measuring cylinder	50 ml 25 ml 100 ml	5 10 5
9	Dropper		10
10	Conical flask	250 ml 150 ml	20 20
11	Reagent bottles	100 ml 500 ml	10 10
12	Hand globes		2
13	Full hand apron		2
14	Half hand aprons		1
15	Watch glass		30
16	China basin		20
17	Volumetric flask	500 ml	10
18	Volumetric burette		30
19	Safety spectacles		2
20	Safety gas regulator		2
21	Burner		10
22	Tissue paper		20 pc
23	Burner stand	50 ml	10
24	Test tube brush		20
25	Glass rod		30
26	Gas blower pipe		20
27	spatula		30
28	Wire gauze		30
29	Wash bottles		30
30	Surgical hand globes		100
31`	Desigator		2
32	New technique kipp's apparatus		2
33	Specific gravity bottles		10
34	Rubber tubes		05meter
35	Round bottom flask	250 ml	5
36	Sintered glass crucible		5
37	Fusion tubes		5
38	Pyrex beaker		10
39	Aspirator bottles	5000 ml	2
40	Micro pipette		5
41	Buchner funnel		5
42	Pipette bulb		20
43	Safety face shield		2

44	Cryo globes		2
45	Rb flask	50 ml	1
46	Magnetic stirrer		1
47	Para film		1
48	Small bar magnet		2
49	Plastic measuring cylinder[10ml]		5
50	Burette		50
51	Stalagmometer		20

SL NO.	GOODS/SERVICES TO BE PROCURED	DETAILED SPECIFICATIONS	QUANTITY
52	Sodium carbonate		200gm
53	Hydrochloric acid		10lit
54	Sulphuric acid		10lit
55	Barium chloride		1kg
56	AR mohrs salt crystal		1kg
57	Distilled water		10lit
58	N-phenyl anthranilic acid		100gm
59	Potassium dichromate		1kg
60	Chromic acid		1kg
61	acetone		2lit
62	Detergent powder		2kg
63	Acetic acid		2lit
64	Oxalic acid crystal		2kg
65	Iodine solution		1lit
66	Bleaching powder		2kg
67	Copper chloride		1kg
68	Ethyl alcohol		2lit
69	ammonia		1lit
70	Aluminium sulphate		1kg
71	Aniline		1lit
72	Acetic anhydride		1kg
73	Zinc dust		1kg
74	Glacial acetic acid		1lit
75	Sodium acetate		1kg
76	Salicylic acid		1lit
77	Benzoyl chloride		1lit
78	phenol		1kg
79	Acetanilide		500mg
80	Bromine		1lit
81	Nitric acid		4lit
82	Nickel solution		1lit
83	Methyl red indicator		250ml
33	Dimethyl glyoxime		1kg
34	Cupric salt		1kg
35	Ammonium bisulphate soln		4 lit
36	Ammonia bisulphite soln		1 lit
37	Potassium ferrocyanide		1 lit
38	Aluminium salt		4 kg
39	Oxine reagent		1 kg
40	Potash aluminium soln		1 lit
41	Isopropyl alcohol		5 lit
42	alizarine		20 ml
43	Dry sodium		5 kg
44	Lead acetate soln		1 lit
45	Sodium nitro parusside soln		2 lit

46	Carbon sulphide		500 ml
47	Silver nitrate soln		1 lit
48	Blue litmus paper		10 pct
49	Red litmus paper		10pct
50	Potassium iodide		500gm
51	chloroform		1kg
52	Tollens reagent		100ml
53	Sodium metal		11gm
54	Lucas reagent		100ml
55	N-bromosuccinimide		1kg
56	Dinitro phenyl hydrazine		1 kg
57	Schiffs reagent		125ml
58	Alcoholic potash		1 kg
59	Dinitro chlorobenzene		1 kg
60	Sodium azide		100 gm
61	Bismuth nitrate soln		100gm
62	pyridine		500ml
63	Benzene sulphonyl chloride		1 kg
64	Starch powder		2 kg
65	B-naphthol		1 lit
66	benzene		2 lit
67	Sodium hypo chloride		1 lit
68	Phenol		2lit
69	Nickel chloride		1 kg
70	Fehlings solution		500ml
71	Water bath		1
72	Soda lime		6
73	Chlorine water		30 tablets
74	Carbon disulphide		1 kg
75	Rectified spirit		3 lit
76	Ethylene diamine tetra acetic acid		500gm
77	Buffer solution		500ml
78	Calcium nitrate tetra hydrate		900gm
79	Lithium hydroxide		100gm
80	Maleic acid		100gm
81	Tea leaves darjeeling		250gm
82	Thiamine hydrochloride		100gm
83	Acetyl chloride		1 kg
84	Sodium thiosulphate		250gm

SL NO.			
85	Digital viscometer		1
86	Thermometer		10
87	Digital weight machine		2
88	Digital potentiometer		1
89	Reflux condensers		20
90	Conductivity meter		1
91	Conductivity cell		1
92	Thermostat		2
93	Resistance box		2
94	Two volt battery		5
95	Induction coil		1
97	Wheatstone bridge		1
98	Standard cell		1
99	Calomel electrode		1
100	Platinum electrode		1

101	Stop watch		1
102	Quinhydrone electrode		1
103	Dispenser		1
104	Vacuum pump		1
105	Calorie meter		1
106	Spectrophotometer with titration cell		1
107	Digital PH meter		1
108	Digital colony counter		1
109	Analytic balance		1
110	Micro process melting point apparatus		1
111	Electric centrifugal machine		1
112	Hot air oven		1
113	Double distillation		1
114	Spectrophotometer		1
105	Micro centrifuge high speed		1

DEPARTMENT OF BOTANY

LIST OF EQUIPMENTS

SL.NO	Equipments	Quantity
1	Double Distillation unit Dist. Water Output cap. 1.5 lit/hrs., Electrical requirements 230-250 volts, single phase 3 kw, Quartz heater, Cooling water consumption 1.5 lit/min., Biological Activity Pyrogen Free, Heater type Quartz	1
2	Microwave oven	1
3	Digital weight balance with accuracy	1
4	Midi Gel Electrophoresis vertical and horizontal with powerpack and spares	1
5	Rain gauge self recording with dial type balance	1
6	UV vis spectrophotometer 340-960 microcontroller	1
7	Lux meter	1
8	Compound Microscope with photographic attachment	1
9	Power pack for electrophoresis	1
10	Blood testing kit	1
11	Digital P ^H meter	1
12	Spinix magnetic stirrer 1L	1
13	Haemocytometer	1
14	Incubator with shaker	1
15	Soxhlet apparatus with heating mantle	1
16	Laboratory Binocular Microscope Led Light Specification: Binocular Microscope 5x, 10x, 40/45x (SL) & 100x (SL) OIL WF 10x (PAIR) & Huy. 5x (PAIR) Binocular Microscope Except it is provided with 45° inclined Binocular Head with inter papillary adjustment (2" to 3") and diopter adjustment on one side. Binocular Microscope Head is rotatable through 360°. Includes PAIR of Huygenian Eye Pieces 5x and Wide Field Eye Pieces 10x along with Eye Guards.	10
17	portable soil and water analysis kit	1
18	Prismatic binocular	1
19	Canon camera EOS M15 MARK, Mirrorless camera EF-M15-45mm is STM Lens 4K and vertical movies, live youtube streaming, auto video transcoding, 3.5mm external microphone in put, full hd movie at 60p, self timer, Type C and mini HDMI, video recording at 1080, smart phone sensor	1
20	Tissue culture rack	1
21	Slide cabinet	1
22	Laboratory rack	2
23	Deep freezer small , 1.5ml	1
24	Simple microscope	10

LIST OF GLASSWARES AND PLASTICWARES:

Sl. No.	Equipments	Capacity	Quantity
	Absorbent Cotton		5 pack
	Accupipette	0.5-2 μ ml	1
	Accupipette	2-20 μ l	1
	Accupipette	20-200 μ l	1
	Accupipette	100-1000 μ l	1
	Accupipette	1000-5000 μ l	1
	Accupipette	1000-10,000 μ l	1
	Aluminium Foil		10 pack
	Beaker	250 ml,500 ml	10 piece each
	Beaker	1000 ml	5 piece
	Blotting Paper		15 pack
	Bottles (Wash, Squeeze Type, Fitted With Stoppers)	500ml	2 piece
	Bunsen Burner		2
	Burettes (Straight Bore Stop Cock)		5
	Burettes Stand		2
	Cavity Blocks For Permanent Slide Preparations		50 piece
	Centrifuge Tube Stand		2
	Cheese Cloth		3
	Chromatographic Jar With Lid		4
	Chromatographic Paper		10 packet
	Conical Flask With Screw Cap	125, 250, 500 ml	5 piece each
	Cork Borer		5
	Cover Slips		10 packet
	Culture Media Tubes	10,30, 50 ml	100 piece
	Culture Petridishes	80*17mm	30 piece
	Culture Petridishes	100*17 mm	30 piece
	Culture Petridishes	150*20 mm	30 piece
	Dropping Bottle	60ml	12
	Dust Bin		2
	Eppendorf Tube		1 packet
	Face Shield For Uv Protection		2
	Fixapipette	1ml	1
	Forceps (Large & Small)		4each
	Funnel (10,15cm)		2 each
	Glass Pipette Stand Vertical		2
	Ice Bucket	4.5lts	1
	Ice Tray	4lts	1
	L- Shaped Spreader		1 packet
	Lenspaper		1 packet
	Measuring Beaker With Handle	500ml	2
	Measuring Beaker With Handle	250ml	2
	Measuring Cylinders (100ml, 250ml)		5 each
	Medium Blue Nitrile Gloves		3 packet
	Medium Purple Nitrile Glove		3 packet

Micro Centrifuge Tube	2ml	1 pack
Micro Centrifuge Tube(1.5/2 MI)		1packet each
Micro Pipette Stand		2
Micrometer (Ocular And Stage)		2
Microscope Slide Plain	3 packet	3 packet
Microtip Box	0.2-10µl	1
Microtip Box	2-200µl	1
Microtip Box	200-1000µl	1
Microtips (Packet)	0.2-10µl	1
Microtips (Packet)	2-200µl	1
Microtips (Packet)	200-1000µl	1
Microtips (Packet)	5ml	1
Microtips (Packet)	10ml	1
Needle		1 packet
Oak Ridge Centrifuge Tube(15ml, 25ml, 50ml)		
Parafilm	2"x250'	1
Plastic Tray Utility		6
Centrifuge Tube	15ml	1 pack
Centrifuge Tube	50ml	1 pack
Pasteur Pipette	3ml	1 pack
Rack For Microtube	1.5ml	1pcs.
Reagent Bottle Wide Mouth	100 ml, 250ml,500ml	5 piece
Scalpel With Blade (Tissue Culture Knife)		2
Screw Cap Centrifuge Tube Round, Bottom	10ml	1 packet
Screw Cap Centrifuge Tube Round, Bottom	30ml	1 packet
Screw Cap Centrifuge Tube Round, Bottom	50ml	1 packet
Squashing Needle		5 piece
Staining Rack For Permanent Slide Preparations		2piece
Test Tube Holder		15 piece
Test Tube Stand	25mm	5pcs
Test Tube With Rim	15,27,38,55,70 ml	25 piece each
Test Tube Without Rim	15,20,25,55,70 ml	25 piece each
Tissue Culture Bottle With Plastic Cap		5
Tissue Paper		30 rolls
Universal Combi Rack		1pcs.
Wash Bottle	250ml	3
Wash Bottle	500ml	3
Watch Glass	100,120, 150mm	10 piece
Whatman Filter Paper		3 packet

LIST OF CHEMICALS (BOTANY)

Sl no.	Items	quantity
	10x TE	1
	2-Mercaptoethanol	1
	Acetic acid	500ml
	Alcohol (absolute)	500ml
	Alcohol (normal)	500ml
	Ammonia Solution	500ml
	Boric Acid	100gm
	Bovine Serum Albumin	25gm
	Calcium Carbonate	1kg

	Cellulase	1kg
	Chlorine solution	5ltr
	Chloroform	500ml
	Copper sulphate	200gm
	Crystal violet stain	25gm
	Disodium phosphate	500gm
	EDTA	1kg
	CTAB powder	1kg
	Ethanol	1ltr
	ethidium bromide	1gm
	Formaldehyde	500ml
	Guaiacol liquid	1kg
	Hydrochloric acid	500ml
	Iodine	100gm
	Isoamyl Alcohol	500ml
	Mannitol	500ml
	Methanol	1ltr
	Monosodium phosphate	200gm
	Murashige and Skoog medium	5kg
	Ninhydrin spray reagent	10gm
	Nitric Acid	500
	Pectinase	500gm
	PEG	1ltr
	Petroleum Ether 40-60	1ltr
	pH tablets -4,7,9	1packet each
	Potassium Hydroxide	50gm
	PolyVinylPyrrolidone	500gm
	Sodium Acetate	500gm
	agarose	25gm
	Sodium carbonate	500gm
	Sodium pot. Tartrate	500mg
	Sodium Sulphate	500mg
	Sorbital	500gm
	Standard DNA	
	tris boric acid	500ml
	Sucrose	500gm
	Tris Base	100gm
	Tris HCL	100gm
	Tris-CI (IM)pH-8.0	100ml
	Xylene	500ml
	DPX	500ml
	Folin's Ciocalteu's reagent	100ml
	Anthrone's reagent	25gm
	RNase A	20gm
	Ethanol (molecular grade)	100ml
	agar agar	500gm
	antiserum for blood grouping	1 Box
	standard aminoacid	1 kg
	methionine	100gm

	leucine	25gm
	paranitrophenol solution	500gm
	stanadrd glucose	100ml
	diethyl ether	1ltr
	phenol red indicator	125ml
	urea standard	500gm
	LB medium	100gm
	methylene blue	125ml
	gram's iodine	125ml
	peptone	500gm
	nutrient broth	500gm
	dibasic sodium phosphate	500gm
	DNS reagent	250gm
	DPA Reagent	100gm
	Molish's reagent	125ml
	DNA isolation and purification kit	1kit
	Readymade tissue culture media	1

MULTICOLOURED CHARTS

Sl no.	Item	Quantity
1	Nucleus, chromosome, DNA, RNA, Mitochondria, chloroplast, ribosome, monohybrid cross, glycolysis, krebs cycle, dicot root, monocot leaf, dicot leaf, monocot root, dicot stem, monocot stem, types of leaves, Malvaceae, Poaceae (Graminae), Lamiaceae (Labiatae), Brassicaceae (Cruciferae), Fabaceae (Leguminaceae), chlamydomonas, life cycle of fungi, agaricus, mitosis, meiosis, life cycle of moss, life cycle of fern,	1 Each

MATT CANVAS LAMINATED ON MDF BOARD WITH BIOGRAPHY

Sl no.	Item	Quantity
	<ul style="list-style-type: none"> ➤ Charles Robert Darwin ➤ G.J. Mendel ➤ Lamark ➤ Luis Pasteur ➤ A.V. Leewenhoek ➤ Dr. Birbal Sahani ➤ Sir J.C. Bose ➤ Dr. H.G. Khorana ➤ Watson And Crick ➤ Sir Alexander Flemming ➤ Aristotle ➤ Theophrastus 	1 each

P.I Degree college junagarh
Equipment list.2020 Department of Zoology

Sl.No.	Item Description	Qty	Company	Code/model
1	Ph meter	3	chemiline	CI180
2	Compoundmicroscope binocular	5	unileb	
3	Simple microscope	5	unilnb	G48
4	Centrifuse	1		
5	Haemocytometer	5	marinefield	
6	haemoglobinometer	5	marinefield	
7	Chromatography kit(liquid chromatography)	2	rivina	
8	Digital calorimeter	1		
9	Electrophoresis kit	3		
10	Hot air Ovan	2		
11	Autoclave	1		
12	Prismatic zoom binoculars	3		
13	Slide cabinet (500 slide capacity)	1		
14	Soil thermometer	5		
15	Digital Spectrophotometer(micro controler based)	1		
16	Stethoscope standard	10		
17	Blood pressure aappratus	10		
18	Lens cleaning solution	20		
19	Lens cleaning kit	5		
20	Lens cleaning paper 100 sheet	20		
21	DNA extraction teaching kit(bacteria)	2		
22	RT PCR teaching kit (human blood)	1		
23	Bloating teaching kit (Western,southern)	1		
24	PCR teaching kit	1		
25	Immuno electrophoresis teaching kit	1		
26	Gel electrophoresis kit	1		
27	Gel electrophoresis teaching kit	1		
28	Plankton net	10		
29	Digital thermometer	5		

30	RT PCR teaching kit (bacteria)	1		
31	Blood grouping kit	20		

Chemicals

1	Fehling solution	500ml		
2	Bendict reagent	500ml		
3	Glacial acectic acid	500ml		
4	Xylene solution	125ml		
5	Alcohol	500ml		
6	Hematoxylene	125ml		
7	Cedar wood oil	150ml		
8	Orange sudan	125ml		
9	Osmic acid	500ml		
10	Distil water	2lit		
11	Glycerine	500ml		
12	Alom	5		
13	Iodine	250ml		
14	Leishman stain	250ml		
15	Formalin	1lit		
16	Ethyl alcohol	250ml		
17	Nitric acid	250ml		
18	Eusine	150ml		
19	Crystal violet	150ml		
20	Safranine	250ml		
21	Calcium chloride	500gm		
22	NaoH solution	500gm		
23	Manganoussulphate mono hydrate	250gm		
24	Eriochrome black T indicator	125gm		
25	KoH	250gm		
26	Kol	250gm		
27	Sodium thiosulphate	250gm		
28	Starch	1		
29	Tartaric acid	250ml		
30	Osmium tetroxide	250ml		
31	Haymes diluting acid	250ml		

Specimen

1	Balanoglossus	2		
2	Herdmania	3		
3	Amphioxus	2		
4	Myxin	2		
5	Petromyzon	2		
6	Scoliodon	2		

7	Torpedo	2		
8	Pistis	2		
9	Polypteros	2		
10	Ethiofish	2		
11	Rana	2		
12	Chemelion	2		
13	Draco	2		
14	Naja	2		
15	Viper	2		
16	Ascidia	2		
17	Human skleton	2		

BONE

1	Limb	2		
2	Girdle	2		
3	Vertebre	2		
5	Human skeleton model	01		

PERMANENT SLIDE

1	Scale of fish	2		
2	Whole mount amphioxus	2		
3	t.s of oral hood	2		
4	Pharyngeal wal	2		
5	Scoliodon scale	2		
6	Blood smear of human	2		
7	Squamous epithelium	2		
8	Ciliated epithelium	2		
9	Ts through stomach	2		
10	Ts through duodenum	2		
11	Ts through testis	2		
12	Ts through ovary	2		
13	W M of tadepole larva	2		
14	Structure of ovum	2		
15	WM chick embryo,16h,21h ,24h incub	2		
16	Ls chick embryo,17,18,24h incub	2		
17	W m chick embryo,33h,43h,72h 96hincub	2		
18	t.s of blastula	2		
19	Whole mount of euglena	2		
20	Whole mount of amoeba	2		
21	Whole mount of paramecium	2		
22	Binary fission in paramecium	2		
23	Conjugation in paramecium	2		

24	T. S of sycon	02		
25	L. S of sycon	02		
26	T. S through pharynx of earthworm	02		
27	T. S through gizzard of earthworm	02		
28	T s through typhlosolar intestine of earthworm .	2		
29	Stages of meiosis	02		
30	Squamous epithelium	2		
31	Straited muscle fibre	2		
32	Nerve cells	2		
33	Permanent slide of testis	2		
34	Permanent slide of ovary	2		
35	Adrenal gland	02		
36	Thyroid gland	02		
37	Parathyroid gland	02		
38	Cycloid scale	2		
39	Palcoid scale	2		
40	Ctenoid scale	2		
41	Oesophagus of mammal	2		
42	Stomach	2		
43	Dudenum	2		
44	Illeum	2		
44	Rectum	2		
46	Trachea	2		
47	Lungs	2		
48	Kidney	2		
49	Cleavage stage	2		
50	Blastula	2		
51	Glastrula	2		
52	Morula	02		
53	Neurula	02		
54	Tail bud stage	02		
55	Tadepole external gill stage	02		
56	Tadepole internal gill stage	02		
57	Tadepole internal gill stage	02		
58	Section of placenta	02		
59	Epididymis	02		
60	Ovary	02		
61	Fallopian tube	02		
62	Uterus	02		
63	Cervix	02		

64	Vagina	02		
65	Lymph node	02		
66	Thymus	02		
67	Spleen	02		
68	Ts of gastrula	2		

CHART

1	Embryology	1		
2	Classification of reptiles ,bird,piscis,mammals	1		
3	Canal system of syscon	1		
4	Ascaris lifecycle	1		
5	Taenea lifecycle	1		
6	Plasmodium lifecycle	1		
7	Tissue system of human	1		
8	Circulatory system of human	1		
9	Cardiac system	1		
10	Kidney	1		
11	Blood chart	1		
12	Blood group	1		
13	Glycolysis	1		
14	Krebs cycle	1		
15	Metabolism of carbohydrate	1		
16	Translation	1		
17	Regulation of gene expression	1		
18	Electron transport chain	1		
19	Humam muscle chart	1		