



**P S DEGREE COLLEGE, SULIAPADA
At. / Po. / VIA - SULIAPADA,
DIST- MAYURBHANJ , ODISHA , 757022**

**REQUEST FOR PROPOSAL TO SELECT SUPPLIERS FOR
SUPPLY / INSTALLATION OF NON-CIVIL ITEMS WITH WORLD
BANK ASSISTANCE UNDER OHEPEE AT THE COLLEGE
PREMISES**

RFP.No. [22189301/OHEPEE/- 2024-25/03/140/24-21.06.2024]

ISSUED BY:

Principal

**P S DEGREE COLLEGE, SULIAPADA
At. / Po. / VIA - SULIAPADA,
DIST- MAYURBHANJ , ODISHA , 757022**

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OFFICE OF THE PRINCIPAL
P S DEGREE COLLEGE, SULIAPADA
At. / Po. / VIA - SULIAPADA,
DIST- MAYURBHANJ , ODISHA , 757022
(NAAC ACCREDITED)

Ref No. 141/24

Date. 24.06.2024

NOTICE OF INVITATION FOR TENDER.

SUB :- Issue of request for Proposal to select suppliers for Supply & installation of Steel Chair, Modular LAB Table, Desktop Computers, UPS, Computer LAB Table, Inverter, LAN & Networking, Projector, Laboratory Equipment, Water Purifiers with Coolers at the College Premises.

RFP No. 22189301/OHEPEE/- 2024-25/03/140 / 24 - 21.06.2024

Principal, PS Degree College, Suliapada, At/ Po/ Via - Suliapada, Dist-Mayurbhanj, Odisha Pin-757022 hereby invites Tender as per above cited subject & RFP No. from reputed eligible firms located within State of Odisha for "Supply & Installation of the above mentioned Non-Civil Items to be purchased out of World Bank Fund under OHEPEE at the college premises for the Financial Year 2024-25.

The interested firms may download the RFP documents from the official website of the college, i.e www.psdegreecollege.in against non-refundable fees of Rs.-500/- towards cost of "Request for Proposal" in the shape of A/C payee Demand Draft in favour of principal, PS Degree College, Suliapada issued from any nationalized bank payable at Suliapada, prepared on or before the last date of receipt of the RFP document as mentioned in the **Section-I – Schedule of RFP** , and submit their proposals complete in all respect & supported by all relevant documents properly indexed and hard bound to the Principal, PS Degree College, Suliapada, At/ Po/ Via - Suliapada, Dist-Mayurbhanj, Odisha Pin-757022 as per the terms and conditions mentioned in the RFP document.

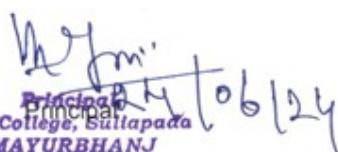
Mr. J. M. Sahoo
Principal
P.S. College, Suliapada
MAYURBHANJ

SECTION 1 : SCHEDULE OF RFP

Sl No.	Particulars	Details
1	Request for Proposal No	22189301/OHEPEE/- 2024-25 / 03 / 140 / 24 - 21.06.2024
2	Date of Issue of RFP	Dated.24.06.2024
3	Name of the RFP Issuer	Principal , PS Degree College, Suliapada
4	Cost of RFP Documents	Rs.500/- (Non-Refundable)
5	Scope of Work	Supply & installation of Steel Chair, Modular LAB Table, Desktop Computers, UPS, Computer LAB Table, Inverter, LAN & Networking, Projector, Laboratory Equipment, Water Purifiers with Cooler at the colleges Premises.
6	Method of Selection	Least Cost Selection Method (Priority will be given to quality of the goods.).
7	Last date for submission of proposals	Dated: 10.07.2024
8	Date of Opening of Technical Proposals	Dated: 12.07.2024
9	Date of Opening of Financial Proposals	Maximum within 3 working days from the date of opening of Technical Bids.
10	Earnest Money Deposit (EMD): (Refundable for unsuccessful firms)	2% of the total quoted price
11	Performance Security (To be submitted by the L 1 firm oniy)	3% of the L 1 estimated price (Un conditional and irrevocable).
12	Address/Venue for submission/ opening of such proposals	Principal, PS Degree College, Suliapada, At/ Po/ Via - Suliapada, Dist-Mayurbhanj, Odisha Pin-757022
13	Date of issue of supply order	Within 7days from the date of opening of Financial Proposals.
14	Last date of supply of goods by the selected firms	Within 15 days from the date of issue of supply order from the college.
15	Last date of making payment to the firm supply goods to the institution	Within 15 days from the date of supply of goods in good condition & installation of goods in the college premises and furnish of invoice.

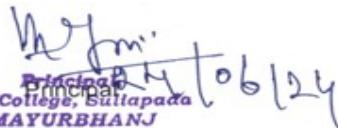
Note:

In case of any change in the scheduled date due to any unforeseen situation the date may be shifted to the next possible working day or as decided by the Principal.


 Principal
 P.S. College, Suliapada
 MAYURBHANJ

**STANDARD SPECIFICATIONS OF NON-CIVIL ITEMS TO BE PURCHASED OUT OF
WORLD BANK FUNDS UNDER OHEPEE 2024-25**

SI No	NAME OF THE ITEM	Standard Specification	Qty
1	Steel chair for class room & Computer Laboratories	Steel chair- 4legs	50nos
2	Modular Lab. Tables to accommodate 16 students in a group for PHY, BOT & ZOOL laboratory	Modular Laboratory table of size:-8'(L) x 4'(W) x 3'(H) both side Drawer and cupboard with Granite top complete fixing of the table	12nos
3	Chemistry Lab. Tables to accommodate 16 students in a group	Modular Laboratory table of size:-8'(L) x 4'(W) x 3'(H) both side Drawer and cupboard with Granite top with sink fitted with swan neck 3hole narrow mouth and Regent Rack with complete fixing of the table.	4nos
4	Desktop computer for Lab	HP make core-i5 12th generation 8GB RAM DDR4, 512SSD with 1TB HDD optional ,OS- Windows 11, USB combo Keyboard wireless , integrated graphics with W Lan + BT , 21" Led Monitor with 3yrs warranty on Site & 3 years antivirus.	32nos
5	Computer Lab long table with ply	Size - 4'Lx2'D x 2.5'H Front Acrylic/Glass Modesty of 1' Frame MS with epoxy Powder coated colour.Top 25mm PLPB with 2mmPVC edge banding	32nos
6	Inverter with 3/4 Batteries	3KW	2nos
7	LAN & Networking 32 computers	Supply and fixing CAT6 cable with lobox and capping cashing with required patch panel and managed switch 12U rack	1unit
8	Projector	100inches + 16:9 ratio + Projector mount	4nos
9	Science Lab Equipments	Science Lab Equipments as per CBCS Syllabus for PHY,CHEM,BOT & ZOOL departments	4nos
10	Water purifier with cooler	Water purifier cum cooler with minimum 80 litres storage & Cooling capacity with 3 output separately for normal and cold water with branded company with 3yrs warranty on Site	2nos
11	UPS for Computer Lab	5KVA	1no


 Principal
 P.S. College, Sullapada
 MAYURBHANJ

GENERAL TERMS & CONDITIONS TO BE FOLLOWED BY THE REPUTED ELIGIBLE FIRMS / AUTHORISED SUPPLIERS INTERESTED TO SUPPLY NON-CIVIL GOODS / ITEMS TO PS DEGREE COLLEGE, SULIAPADA , MAYURBHANJ

1) *Pre Qualification Criteria :*

- i) Interested firms may obtain the RFP documents from the official website i.e www.psdegreecollege.in of the PS Degree College, Suliapada and submit their proposal in sealed envelope as per the instructions mentioned in this RFP document.
- ii) Interested firms are advised to study carefully all instructions, forms, terms & conditions and other important information mentioned in the RFP document.
- iii) The participating firms must produce copies of all the required supporting documents / information as part of their proposal, failing which the same proposal shall be summarily rejected.
- iv) The firm should be registered under the provisions of the Indian companies Act / Indian Partnership Act / The limited liability Partnership Act / A sole proprietorship firms.

2) *General Terms Conditions :*

- i) The E.M.D amount of 2% of the total quoted price on the number/quantity /amount of goods/items as fixed/estimated by the college is to be submitted by the bidder along with the bid in shape of either A/C payee demand Draft or Fixed deposit receipt or Banker's Cheque or Bank guarantee in favour of the Principal, PS Degree College. Suliapada drawn in any of the nationalized bank.
- ii) EMD relaxation will be allowed to the firms registered under MSME. Valid registration certificate to that affect should be attached.
- iii) The E.M.D is to be returned to the unsuccessful bidders within 07 working days from the date of the issue of supply order to the successful bidder without any interest. The E.M.D of the successful bidders will be returned without any interest after deposit of performance security which is of 3% of the total supply order price of the goods / items as fixed/estimated by the college.
- iv) The firm interested to supply goods/items as mentioned in the RFP altogether must have supplied goods to any of the offices, college/universities. Supply order copies may be attached with bid.
- v) Performance security is to be submitted after issuing of LOI to the L1 bidder.
- vi) The interested firms must accept all technical/commercial terms and conditions mentioned in the RFP document.

- vii) Each page should be signed with official seal of the authorized person.
- viii) The Principal of PS Degree College, Suliapada reserves the right to cancel the RFP at any point of time without assigning any reason thereof.
- ix) All legal disputes are subject to the jurisdiction of the Orissa High Court, Cuttack.

3) *Submission of Proposal :*

The proposals complete in all respect should be submitted to the Principal, PS Degree College, Suliapada, At/ Po/ Via - Suliapada, Dist-Mayurbhanj, Odisha, Pin-757022 through Speed Post / Registered Post/ Courier Service only. The principal will not be held responsible for any postal delay or due to any unforeseen situation .Delivery in person or through any other mode will not be accepted.

4) *Documents & Certificates*

- i) Certificate of incorporation / registration / partnership deed / GST registration and PAN must be submitted to the effect.
- ii) The cost of RFP of Rs.500/- (Five hundred) only is to be submitted along with the proposal in shape of Bank Draft in favour of the Principal of PS Degree College. Suliapada payable in any nationalized Bank, The RFP document cost is non-refundable.
- iii) The firm should submit the Audit balance sheet and profit & loss account certificate by practicing chartered accountant along with Income Tax Return of last 03 financial year i. e- 2021-22, 2022-23, 2023-24.
- iv) A sealed master envelope bearing the name, address, phone number and ' email id of firm along with the RFP name & number should contain two separate sealed envelopes i.e:
 - a) Envelope for Technical Proposal
 - b) Envelope for Financial Proposal

The sealed Envelope for “**Technical Proposal** ” must contain the required supporting documents such as:

- a) The receipt / Demand Draft of Rs. 500/- in favour of the Principal, PS Degree College. Suliapada, towards the cost of the RFP (Non-refundable).
- b) The E.M.D amount of 2% of the total quoted price of the goods / items as fixed / estimated by the college in shape of A/C payee D.D / Fixed deposit receipt / banker's cheque or bank guarantee in favour of the principal, PS Degree College. Suliapada Xerox copy of the certificate of registration / incorporation.
- c) Copy of PAN
- d) Copy of Goods Services Tax Identification Number (GSTIN)
- e) Form- T-1 Technical Proposal submission form
- f) Form- T-2 Organisation details

- g) Form- T-3 Experience Details.
- h) Form T-4 Self declaration from the firm confirming not have been banned / black listed / debarred /suspended .
- i) Form T-5 Technical specification compliance sheet.
- j) Form T-6 Financial Turnover details along with:
- k) Copies of audited balance sheet, profit & loss account and all schedules certified by the Chartered Accountant for the last 3yrs. 2021-22, 2022-23, 2023-24.
- l) Copies of IT Returns for the last three financial years 2021-22, 2022-23, 2023-24.
- m) Xerox copy of E.P.M certificate .(For firms interested to supply furniture)

v) The interested firms are required to quote the item wise Rate, Brand, and Model of goods in T-5 & F-1 form.

The sealed Envelope for "**Financial Proposal**" must contain the required supporting documents such as:

- i) Form F-1 – Financial proposal submission form.
- a) The prices and other information having a bearing on the price shall be written both in figures and words in the prescribed form
- b) No alternation / modification / overwriting / corrections in the format shall be accepted.

5) *Opening of Proposals*

- i) Sealed envelopes containing the proposal will be opened by the principal in the presence of the designated/authorized representatives of the interested firms on the scheduled date and time at the specified address as mentioned in the schedule of RFP document.
- ii) Designated/ authorized representatives of the interested firm may attend the tender opening meeting with due authorization letter on behalf of their firms.

6) *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 consists of all required minimum specifications as mentioned at "FormT-5" of 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 (**Priority will be given to the quality of the goods**).
- The firm, who submits the lowest financial price proposal shall be declared as the "L-1" bidder and shall be communicated for further process leading to issue of "Supply Order".

7) Award of Contract

- a. 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 (LoI) and to submit the "Performance Security" within 15 days of issuance of the LoI".
- b. The "Performance Security is unconditional and irrevocable.
- c. Performance Security amount mentioned at Section 1 Schedule of RFP and the Performance Security must remain valid till warranty period of the goods.
- d. After receiving the acknowledgement of LoI 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.
- e. After issue of "LoI" or after receipt of the acknowledged "LoI", 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.
- f. Once the Supply Order is issued by the college, 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.

8) Disqualification / Rejection of Proposals

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

- a. Proposals not conforming to the eligibility criteria and not submitting the required documents as mentioned in the RFP".
- b. Submission of forged documents.
- c. Proposal submitted without EMD & cost of RFP.
- d. Proposal not submitted in accordance with the procedure and formats as prescribed in the RFP.
- e. Proposal received in incomplete form.
- f. Proposal received after due date and time.
- g. Firm trying to influence the proposal evaluation process by unlawful / corrupt/fraudulent means at any point of time during the bid process.
- h. Price quoting in any irrelevant papers, documents, presentation etc except "Financial Proposal".

- i. If a firm is debarred /banned/blacklisted/suspended by the world bank / central Govt./ State Govt./ Central or State PSU organization / Central / State Govt. University or Colleges

9) Mode of Payment

- i) After receipt and installation of the required items/goods in good conditions from the supplier and completion of the training/demonstration by the supplier in the college campus, the supplier will submit the invoice/bill along with MR to the college & the college will initiate the payment process within 15 working days.
- ii) No advance payment will be made in any circumstances.
- iii) The payment will be made through NEFT/RTGS only to the account details of the supplier furnished in the bill.

***NB:** Contact persons *In case of any quarries / clarification on the RFP document*

- 1) Co-ordinator ,IDP (9337458336)

W.B.M.
Principal
P.S. College, Sullapada
MAYURBHANJ
10/06/24

SECTION 5 : FORM

FORM T1: TECHNICAL PROPOSAL SUBMISSION FORM

To,

The Principal,
PS Degree College, Suliapada,
At/Po/Via-Suliapada
Dist-Mayurbhanj, Odisha, Pin-757022.

Sub: Submission of Technical Proposal to select supplier for" _____" at the college.

REF: RfP No. **22189301/OHEPEE/- 2024-25/03/140 / 24 - 21.06.2024**

Dear Sir,

I the undersigned offer to participate in the selection process to select supplier for "supply / installation of..... (Name of Items /Goods) "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 authored 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 T3: EXPERIENCE DETAILS

SI No.	Name of the University / College / Department / Office to whom materials supplied	Quantity of Material Supplied	Date of Receipt Work order with reference number	Date of supply of goods /items	Remarks if any

Yours faithfully,

Authorized Signatory of the firm with
Date and Seal

FORM T4: SELF DECLARATION FOR NOT BLACK LISTED

To,

The Principal,
PS Degree College, Suliapada,
At/Po/Via-Suliapada
Dist-Mayurbhanj, Odisha, Pin-757022.

Sub: Self declaration for not black listed.

REF: RFP No. 22189301 / OHEPEE/- 2024-25/ 03 / 140 / 24 - 21.06.2024

Dear 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 T5: MINIMUM REQUIRED SPECIFICATIONS COMPLIANCE SHEET

A) Name of the Goods/Items.....

SI No.	Minimum Required Specification	Compliance (Yes/No)	Deviation

B) Name of the Goods/Items.....

SI No.	Minimum Required Specification	Compliance (Yes/No)	Deviation

C) Name of the Goods/Items.....

SI No.	Minimum Required Specification	Compliance (Yes/No)	Deviation

D) Name of the Goods/Items.....

SI No.	Minimum Required Specification	Compliance (Yes/No)	Deviation

Yours faithfully,

Authorized Signatory of the firm with
Date and Seal

FORM T6: FINANCIAL TURNOVER DETAILS

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

SI No	Financial Year	Turnover in INR
1	2021-22	
2	2022-23	
3	2023-24	
Average Annual Turnover for the last three years (INR)		

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,
 PS Degree College, Suliapada,
 At/Po/Via-Suliapada
 Dist-Mayurbhanj, Odisha, Pin-757022.

Sub: Submission of Financial Proposal to select supplier for "Supply & installation of _____" at the college

REF: RfP No. **22189301/OHEPEE/- 2024-25/03/140 / 24 - 21.06.2024**

Dear Madam/Sir,

I, the undersigned, here by submitting the Financial Proposal to select supplier for "Supply & Installation of _____" at the college in accordance of RfP No. **22189301/OHEPEE/- 2024-25/03/140 / 24 - 21.06.2024**

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 Goods / Items	Brand/Company	Rate per unit/ pcs	Remarks
1				
2				
3				

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 7: (CERTIFICATE OF WILLINGNESS TO BE SUBMITTED BY ALL FIRMS)

To,

The Principal,
PS Degree College, Suliapada,
At/Po/Via-Suliapada
Dist-Mayurbhanj, Odisha, Pin-757022

Sub: Submission of Willingness certificate for supply & Installation of
..... at your college premise.

Sir,

I am to inform you that my firm (name of the firm with address) is ready to supply and install
....., 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 firms' failure to supply and install the required items in the selected L1 cost, my HMD/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	Original RFP document	
2	Receipt / Draft towards cost of RFP document	
3	Earnest Money Deposit (EMD)	
4	Copy of Certificate of Incorporation / Registration	
5	Copy of Goods and Services Tax Identification Number	
6	Copy of PAN	
7	CA audited copies of Profit & Loss Account and Balance Sheet along with all schedules	
8	Copies of IT Returns for the last three financial years	
9	Technical Proposal Submission Form	
10	Organization's Details	
11	Experience Details	
12	Self Declaration for not having been blacklisted	
13	Technical Specifications Compliance Sheet	
14	Financial Turnover Details	
15	Financial Proposal Submission Form	
16	Certificate of willingness to be submitted by all firms	

Yours faithfully,

Authorized Signatory of the firm with
Date and Seal

PANCHAYAT SAMITI DEGREE COLLEGE, SULIAPADA, MAYURBHANJ
Department wise List of Laboratory Equipments

Department:- CHEMISTRY		
Sl No	Name of Equipments	Qty.
1	Ostwald's viscometer	
2	Tensiometer(Surfacetension measurements)	
3	Digital pH-meter with accessories	
4	Digital Conductivity meter with accessories	
5	Potentiometer with accessories	
6	Colorimeter	
7	Colorimeter with accessories (precision thermometer)	
8	Visible spectrophotometer (single beam)	
9	Magnetic stirrer (with / without hot plate)	
10	Heating mantle	
11	Melting point apparatus	
12	Vacuumpump for filtration	
13	Single distillation units (All glass) 2 lit/hr capacity	
14	Single pan digital balance with precision 0.01 gm and 0.001gm	
15	Water bath (Electrical)	
16	Fume hood	
17	Kipp's apparatus (PP)	
18	Fire extinguishers	
19	Aspirator for chromatographic developer	
20	Air oven (upto300°C)	
21	Microwave oven(kitchen quality)	

Department:- BOTANY		
Sl No	Name of Equipments	Qnty.
1	Laminar airflow chamber	
2	Hot air Oven	
3	Centrifuge machine	
4	pH meter	
5	Binoculair Microscope	
6	Simple Mocroscope	
7	Compound microscope	
8	Plant breeding kit for Hybridization	
9	Ganong Potometer	
10	Ganong respirometer	
11	Melting point apparatus	
12	Figure	
13	Projector	

Department:- ZOOLOGY		
Sl No	Name of Equipments	Qnty.
1	Spectrophotometer (Systonic) (Single beam)	
2	Horizontal laminate air flow (single seated)	
3	Micro Centrifuge (Spinwin)	
4	Hot air Oven (small)	
5	Anticlave (30lit) (Aswald small company)	
6	Vottex mixture (Remi company)	
7	Microscope	
8	Digital balance weight	
9	Hotplate with magnatic stome	

Department:- PHYSICS		
Sl No	Name of Equipments	Qty.
1	Instrument of plane diffraction grating	
2	Instrument of Variation of Magnetic field alongwith the axis of a circulator coil carrying current	
3	Rigidity of modulus of wire by maxwell needle / Torsion Pendulum	
4	Instrument of moment of inertia of flywheel	
5	Instrument of verify law of malus for polarised light	
6	Instrument of the determine the Boltzmann constant using V-I characteristic of PN Junction diode	
7	Instrument of the measure of Bandgap of a given semi conductor by Four-probe method	
8	Instrument of measure of magnetic susceptibility of solid	
9	Measurement of Susceptibility of paramagnetic Solution (Quincks tube method)	
10	Verify and design AND,OR,NOT and XOR gates using NAND gates	
11	Instrument of determine planks constant using LED at least 4 different colour	
12	Instrument of to determine e/m by (a) Magnetic foussing (b) Barmagnet	
13	Instrument of to determine wave length of solium light using Newton's ring	