

**TENDER DOCUMENT FOR PURCHASE / SUPPLY OF LABORATORY
INSTRUMENTS / EQUIPMENTS, COMPUTERS AND OTHER
MISCELLANEOUS ITEMS**



Bhilai Mahila Mahavidyalaya
Hospital Sector, Bhilai Nagar (C.G.) 490009
Affiliated to Hemchand Yadav University, Durg (CG)
NAAC Accredited with B Grade
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**OFFICE OF THE PRINCIPAL
BHILAI MAHILA MAHAVIDYALAYA, HOSPITAL SECTOR,
BHILAI NAGAR (C.G.)**

Tender Notice No. 879/BMM/RETENDER/2019-2020

Date- 16/01/2020

**Short tender notice for purchase / supply of Laboratory Instruments /
Equipments, Computers and other miscellaneous items**

SECOND CALL

Bhilai Mahila Mahavidyalaya Hospital Sector, Bhilai Nagar (C.G.) invites sealed tender from reputed manufacturer/authorized dealers/reputed suppliers for purchase and supply of Laboratory Instruments / Equipments, Computers and Other Miscellaneous Items

Approximate cost of tender: Rs. 60.00 lakhs.

Last date of submission of tender form is 27 January 2020 up to 5 pm. Date of opening of tender is 29 January 2020 At 12 noon. The time allowed for executing the supply shall be one month from the issue date of work order. Interested firms may submit their sealed tender to the office of The Principal, Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar (C.G.) in two bid-forms i.e. Technical bid and financial bid as per terms and conditions of tender document with a non-refundable Demand Draft of Rs.700/- as cost of tender form and a Demand Draft of Rs. 1,80,000/- as earnest money both in favour of **Principal, Bhilai Mahila Mahavidyalaya, payable at Bhilai** and should reach to the office up to 5.00 PM on Date 27 January 2020 by Registered/speed post only.

The tender document may be downloaded from our website www.bmmbhilai.com


16/1/2020

Principal

**Bhilai Mahila Mahavidyalaya
Hospital Sector, Bhilai Nagar (C.G.)**

Copy to:-

1. Director, Jansampark Chhattisgarh, Indravati Bhawan, Atal Nagar Naya Raipur, with request to publish this tender notice on 02 National level, 03 State level and 05 Local news papers.
2. Chairman, College Governing Body, Bhilai Mahila Mahavidyalaya, Bhilai Nagar
3. Convener, College Tender Committee with instruction to upload the notice on college website.
4. Notice Board.

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**OFFICE OF THE PRINCIPAL
BHILAI MAHILA MAHAVIDYALAYA, HOSPITAL SECTOR,
BHILAI NAGAR (C.G.)**

No. 879/BMM/RETENDER/2019-2020

Date. 16/01/2020

**Detailed tender notice for purchase / supply of laboratory instruments /
equipments, computers and other miscellaneous items**

SECOND CALL

Bhilai Mahila Mahavidyalaya Hospital Sector, Bhilai Nagar (C.G.) invites sealed tender from reputed manufacturer/authorized dealers/reputed suppliers for purchase and supply of Lab Instruments/Equipments, Computer, Electrical Equipments and miscellaneous items as per list enclosed in Annexure VI

S.No.	Activity	Date
1	Date of tender published on college website	17 JANUARY 2020
2	Bid document download/sale start date	17 JANUARY 2020
3	Bid submission start date	18 JANUARY 2020
4	Bid document download/sale end date	25 JANUARY 2020
5	Bid submission last date	27 JANUARY 2020
6	Technical bid opening date	29 JANUARY 2020
7	Financial bid opening date	Shall be informed to the technically qualified bidders
8	Approximate cost of tender	Rs.60.00 Lakhs
8	Cost of bid document	A non-refundable Demand Draft of Rs.700/- in favour of The Principal, Bhilai Mahila Mahavidyalaya, Bhilai payable at Bhilai
9	Earnest Money Deposit (3% of the cost of tender)	A Demand Draft of Rs. 180000/- in favour of The Principal, Bhilai Mahila Mahavidyalaya, Bhilai payable at Bhilai


16/1/2020

**Principal
Bhilai Mahila Mahavidyalaya
Hospital Sector, Bhilai Nagar (C.G.)**

1.0 TERMS AND CONDITIONS

- 1.1 Sealed tender should reach **Office of the Principal Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar (C.G.)** on or before **27 JANUARY 2020, up to 3:00 PM.**
- 1.2 Suppliers should send their tender through **Registered Post/Speed post only.** No other mode will be accepted.
- 1.3 The offers received through telex / tele fax / e-mail will not be accepted under any circumstances.
- 1.4 The college shall not be responsible for delay / loss or non-receipt of tenders by post.
- 1.5 No unsolicited correspondence shall be entertained after the submission of the tender. No enquiry shall be made by the bidders during the course of evaluation of the tender till a final decision is conveyed to the successful bidder. However, the purchase committee or its authorized representative can make any enquiry/seek clarification from the bidders. In such a situation, the agency shall extend full cooperation
- 1.6 The Tender Document along with detailed specifications of the Instruments/ Equipments can be obtained in person from the office of The Principal, Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar (Chhattisgarh) ,on submission of prescribed tender fee in the form of demand draft drawn in favour of The Principal, Bhilai Mahila Mahavidyalaya,Bhilai payable at Bhilai.
- 1.7 The bid document may also be downloaded from College Website: www.bmmbhilai.com. Bidders using downloaded tender forms from College website must submit cost of tender document Rs. 700/- (Rupees Seven Hundred) in the form of demand draft drawn in favour of The Principal, Bhilai Mahila Mahavidyalaya,Bhilai payable at Bhilai along with Technical Bid. The bid form downloaded through College website submitted without tender fees will not be accepted.
- 1.8 The earnest money @ 3% of the estimated cost of tender Rs. 1,80,000/- (Rupees one lakh eighty thousand) must be submitted by the bidder along with the tender in the form of an DD drawn in favour of The Principal, Bhilai Mahila Mahavidyalaya,Bhilai payable at Bhilai.
- 1.9 The tender without EMD, Less EMD and document fee will summarily be rejected. If the bidder having exemption of EMD, he should enclose the copy of the certificate and produce original for verification on the date of opening of the tender.
- 1.10 The amount of EMD will be refunded in case of unsuccessful bidder on submission of application with money receipt in original soon after the final decision. In case of successful tender, it will be refunded on production of original receipt after completion of validity period of the agreement to be executed between the bidder and the college without any interest.

- 1.11 The Earnest money will be forfeited when: -
- i. **Bidder withdraws or modifies the offer after opening of tender but before the acceptance of tender**
 - ii. **Bidder does not execute the agreement if any, prescribed within the specified time.**
 - iii. **In case, the instrument/equipment supplied is found defective and not attended by the supplier/bidder/authorized agent, the EMD will be forfeited.**
- 1.12 The bidder must enclose adequate documents to prove their authorization claim. If not enclosed this college reserve the rights to accept or reject tenders of these agencies. The decision of the college in this regard will be final and shall be binding on bidder.
- 1.13 Company/firm should have fulfilled prior experience, turnover and all other criteria as per tender document.
- 1.14 Start-ups and Small-scale unit will remain exempted from criteria of prior experience and turnover.
- 1.15 The College at its discretion may extend the last date of submission of tender and opening of tenders.
- 1.16 Late and delayed tenders will not be considered and shall be returned unopened to the Bidder.
- 1.17 If bidder gives wrong information, college reserves the right to reject such bid at any stage and forfeit the Earnest Money Deposit.
- 1.18 Incomplete bids, not in proper sealed covers are liable to be rejected.
- 1.19 Conditional tenders will be rejected without assigning any reason.
- 1.20 If technical bid contains any price information the offer will be summarily rejected.
- 1.21 Canvassing in any form is liable for rejection.
- 1.22 Unsigned tenders / bids, self unattested, correction and overwriting by bidders are also liable for rejection.
- 1.23 Bids submitted without supporting documents are liable to be rejected.
- 1.24 The validity period of the tenders shall be up to 31st DECEMBER 2020.
- 1.25 In financial bid the rate of each item should be inclusive of **all taxes, packing, forwarding, transit etc.** The rate both in words and figures without any corrections or over writing should be quoted for each individual item separately. **The rates must be valid up to 31st December 2020.(As per Annexure-III)**
- 1.26 **Quoting merely the lowest price does not confer any right to any bidder for award of supply order.** The Purchase Committee, reserves the right to select the equipment any bid

under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support & training, offer of additional / special features, compatibility with the existing System, etc.

- 1.27 On the acceptance of the rates as per the approved tender, the supply order will be placed by the Head of the office of college.
- 1.28 The college will reserve the full right to open / consider the financial bid if and only if the college is satisfied with information contents in technical bid.
- 1.29 **The college has the right to accept or reject any tender partly or fully without arising any reason thereof.**
- 1.30 The items have to be supplied in standard packing at the premises of Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar, Chhattisgarh
- 1.31 In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good condition such loss and shortage found at the checking / inspection of the supplied Instrument / Equipment. “No extra cost” on such account shall be admissible.
- 1.32 The amount of Earnest Money deposit will be returned without any interest to the bidder after 12 months from the date of supply order or the expiry of the warranty period whichever is later subject to the surrender of money receipt in original.
- 1.33 The specimen of “**Agreement Bond**” will be provided along with letter of acceptance to the bidder whose rates are accepted by the college.
- 1.34 Delivery has to be made **within one month** from the date of receipt of supply order.
- 1.35 **Each item should be strictly as per the specification.** In case of any deviation the college has the right to reject the item. The preferences will be given to the items bearing ISI / ISO quality control make for the laboratory instruments / equipment.
- 1.36 Installation, successful demonstration of equipment in the respective department is obligatory. Training should be provided by the supplying companies for a minimum period of two days from the date of installation with an expert team.
- 1.37 If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.
- 1.38 In case of poor response from the bidders, the items of poor response will be retendered if necessary.
- 1.39 Final payment of Instrument / Equipment will be made only after their installation and successful demonstration at the respective department of the college. However part payment of the supply (at the maximum up to 60%) may be made on request.
- 1.40 If the bidder fails to fully comply with supply order within the specified period his order will liable to be cancelled and a penalty @3% per week will be imposed on balance amount of supply.
- 1.41 In case of any dispute in respect of the bid, all legal matters shall be instituted within the jurisdiction of Durg (CG).

- 1.42 The tender Notice No. 879/BMM/RETENDER/2019-2020 Dated 16/01/2020 along with the item serial number (The item serial number is given in the specification sheet against each item) must invariably be quoted in the bid and for further correspondence in this regard.
- 1.43 All the Tenders should be addressed to: The Principal, Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar, Chhattisgarh.

2.0 INSTRUCTIONS TO BE FOLLOWED BY THE SUPPLIER / BIDDER

2.1 **Submission of the bids:** Bids should be submitted in Three Envelops duly sealed as mentioned below:-

2.2 Envelope -1 Technical Bid:

- i. Tender fee in the form of demand draft of Rs.700/-
- ii. EMD @ 3% of total estimated cost of bid Rs. 1,80,000/-(DD).
- iii. Application form (as per Annexure-I)
- iv. Technical bid form (as per Annexure-II)
- v. Financial bid form (as per Annexure-III)
- vi. Mandate form for electronic fund transfer/RTGS transfer (as per Annexure-IV)
- vii. Acceptance of term and conditions of Bid (as per Annexure-V)
- viii. GST registration certificate / return certificates for last two years
- ix. Experience Certificate in this field (Attach separate sheet)
- x. Income Tax returns for the last two years with PAN No. (Copies to be enclosed)
- xi. Audited statement of accounts (P & L account and balance sheet) for the last two years (Copies to be enclosed)
- xii. Annual Turnover (In this field) for last three years
- xiii. Certificate of Sole Manufacturer/authorized dealers of manufacturers/authorized supplier
- xiv. Original catalogs, pamphlets/picture of the appliances offered. Documents in support to reveal capacity to provide service after sale

Note:-if above information is not enclosed, the financial bid will not be opened. This Envelope should be marked as “Envelope 1 – “Technical Bid”. Name and address of the bidder should be clearly written on this envelope with Signature of Bidder & stamp of firm.

2.3 Envelope –2 Financial Bid:

The supplier should quote the rate inclusive of all expenses, charges, taxes, duties, transportation, packing and forwarding, insurance etc. The price of item both in words and figures without any correction or over writing should be quoted for each item in financial bid (as per Annexure III). Separate form should be used for each item offered.

Note: - This Envelope should be marked as “Envelope 2 – “Financial Bid”. Name and address of the bidder should be clearly written on this envelope with Signature of Bidder & stamp of firm.

2.4 Envelope –3 Bid:

The above two envelopes should be put in a large envelope which should be duly signed and sealed properly and should be addressed to: **“The Principal, Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar pin 490006 Chhattisgarh”**. This envelope must bear the following identifications:

- (i) **“DO NOT OPEN BEFORE THE DATE.....”**
- (ii) Bid for Purchase & Supply of Lab. Equipments/Computer lab furniture for the Financial Year 2019-20 in college premises.
- (iii) Bid Reference No.
- (iv) Name & Address of the Bidder

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TENDER APPLICATION FORM
FOR PURCHASE / SUPPLY OF LABORATORY INSTRUMENTS / EQUIPMENTS,
COMPUTERS AND OTHER MISCELLANEOUS ITEMS For
Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar (C.G.) 490009

No.....

Date.....

To,

Principal,

Bhilai Mahila Mahavidyalaya

Hospital Sector, Bhilai Nagar (CG)

With reference to your Tender Notice No
Dated We are hereby submitting our tender for the supply and installation of
Instruments/Equipments, Computers and other miscellaneous items accepting the terms &
conditions mentioned in the tender document.

1	Name & full address of the Bidder /Company with Telephone Nos. Mobile Nos. Fax Nos.	
2	Name and designation of the Firm/Supplier and his contact no.	
3	Name of Person to be contacted with Telephone Nos. Mobile Nos. Fax Nos.	
4	Email ID of the firm/Supplier	
5	PAN No.	
6	GST No.	
7	Tender document fees Rs. 700/- Demand Draft No. & date Issuing Bank Details	
8	EMD Rs 1,80,000/- DD No. , date and Issuing Bank Details	

DECLARATION

I/We herby certify that all the information and data furnished of our organization with regard to these specifications are true and complete to the best our knowledge. The undersigned certify that I/We have gone through the terms & conditions mentioned in the bidding document and undertake to comply them.

The rates quoted by me/us are valid and binding upon me for the entire validity period and it is certified that the rates quoted are minimum and rational as per existing market rate.

I/We give the rights to the competent authority of **Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar (C.G.) 490009** to forfeit the Earnest Money Deposit (EMD) by me/us if any delay occurs on my/agents part or fail to abide by the provision of the bidding document.

I/We hereby undertake to execute the work/supply order as per direction given in the tender document within stipulated period.

Date :

Place :

Signature of the Bidder

Name –

Designation –

Registration No. of Supplier/Bidder

(Official seal of the Bidder)

TECHNICAL BID FORM

FOR PURCHASE / SUPPLY OF LABORATORY INSTRUMENTS / EQUIPMENTS,
COMPUTERS AND OTHER MISCELLANEOUS ITEMS For

Bhilai Mahila Mahavidyalaya, Hospital Sector, Bhilai Nagar (C.G.) 490009

Note:-

- i. Please do not write the price of item.
- ii. The technical compliance bid must be in this sheet only for each item of bid. Otherwise it would be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered.
- iii. All the columns of this sheet should be filled in compulsorily by the bidder, merely asking the office to refer catalogue or brochure will not be entertained.
- iv. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of tender.

Name of Department of the College:-.....

Item S. No:-.....

Name & Model no. (if any) of the Item offered:-

S.No.	Technical Specification	Features Available in the item (mark tick)		Any deviation from the specification	Corresponding page no. and s.no. of data sheet / brochure/catalogue of specification
		Yes	No		

Signature of Bidder

FINANCIAL BID FORM

(Format for quoting the rates of the Instruments/Equipments)

Name of Department of the College:-.....

Item S. No:-.....

Name & Model no. (If any) of the Item offered:-

Sr. No	Details	Price per Unit
1.	Cost of instrument/equipment with essential accessories	
2.	GST payable	CGST
		SGST
		IGST
3.	Packing and forwarding charge up to station of dispatch	
4.	Transportation and insurance charges up to destination	
5.	Installation, commissioning and training charges if any	
6.	Any other charges, if any	
	Total Price inclusive all charges and tax (Sum of 1 to 6)	

Total Bid price Rs.

In words Rupees.....

Seal and signature of bidder

Note:-

- (a) Price should be quoted in prescribed format only as per above.
- (b) The cost of optional items shall be indicated separately.
- (c) Separate form should be used for each item offered.

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

No.

Date

To,

The Principal,
Bhilai Mahila Mahavidyalaya
Hospital Sector, Bhilai Nagar (CG)

Subject:- Authorization for release of payment / dues from Bhilai Mahila Mahavidyalaya, Bhilai Nagar (CG) through Electronic Fund Transfer / RTGS Transfer.

1. Particulars of the firm:

Name of the firm/company/supplier	
Address of the firm/company/supplier	
City	
Pin code	
Email ID	
Contact Nos.	
PAN	
TAN	

2. Particulars of bank account:

Bank account No.	
Type of account	Saving / Current / Cash Credit
Name of bank	
Name of branch / Branch code	
Place/City of branch	
Pin code	
MICR No. (9 digit number)	
IFS Code (11 digit alphanumeric code)	

Note: Attach a Xerox copy of the cheque.

DECLARATION

I /We hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I/We shall not hold responsible Principal, Bhilai Mahila Mahavidyalaya, Bhilai Nagar. I/We also under take to advice any change in the particulars of my/our account to facilitate of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place:

Date:

Signature & seal of Authorized Signatory

ACCEPTANCE OF TERMS & CONDITIONS OF TENDER

(Must be on Letter Head)

No.

Date

To,

Principal,

Bhilai Mahila Mahavidyalaya

Hospital Sector, Bhilai Nagar (CG)

Subject:- Acceptance of Terms & conditions of Tender.

Tender No.:**Dated**

Dear Sir/Madam,

1. I/We have downloaded/obtained the tender document(s) for the above- mentioned Tender enquiry no. from the Website/office.

2. I/We hereby certify that I/we have read entire terms & conditions of the tender documents including all documents like annexure, schedules etc.which form part of the tender document and I/we shall abide by the terms & conditions/clauses contained therein.

The corrigendum(s) issued from time to time by Bhilai Mahila Mahavidyalaya Hospital Sector, Bhilai Nagar (CG) also been taken into consideration, while submitting this acceptance letter.

3. I/We hereby unconditionally accept the tender conditions of above-mentioned tender document(s)/corrigendum(s) in totality/entirely.

4. In case any provisions of this tender are found violated, Bhilai Mahila Mahavidyalaya Hospital Sector, Bhilai Nagar (CG) shall be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely and we shall not have any claim/right against Bhilai Mahila Mahavidyalaya Hospital Sector, Bhilai Nagar (CG) in satisfaction of this condition.

5. I/We confirm that we or our Proprietor/Director/Partner have not been blacklisted or debarred or declared ineligible for corrupt/fraudulent practices either indefinitely or for a particular period of time by any Government or other agency. I/we further declare that no criminal case is registered or pending against the firm/company or its owner/partners/directors anywhere in India. Also, there are no contractual restrictions or legal disqualifications or other obligations which prohibit the applicant from entering into tender process.

(Signature of the bidder seal of firm)

LIST OF INSTRUMENTS/EQUIPMENTS TO BE SUPPLIED

S. No.	Name of Item	Specification of Item	Quantity
DEPARTMENT OF BIOTECHNOLOGY AND MICROBIOLOGY			
1	Double Beam UV- Vis Spectrophotometer	Model Elite Cat No. BI/CI/SDB/S-04 Wave Length- 190-1100 nm Optical System- Double Beam Power Requirement- 100-240 volt; 50-60 ±1hrtz Dimension 480nm*460nm*210nm	1
2	Chest/Horizontal Freezer	Model- #LCF 750L Capacity-750L, Temperature up to 26, MOC Outer Chamber Molded,	1
3	Trinocular Research Microscope	Model CH20i-TR	1
4	Digital Camera with Computer Attachment	Sony Camera, HP Computer	1
5	Gel Documentation (Endure Model)	Model- Endure Model, Cat No.- BE/CI/GIS/GDM-02, Camera CCD, Pixel Resolution- 1.3 megapixel, UV Transilluminator-Filter Area 200nm*200nm, Wave Length-312nm, Power Supply- 220volt	1
6	Cyclo/Vortex Mixer	Model- #CVM 308, Shaking Movement- Orbital, Speed range- 0.2500rpm, Permissible time- 30min	1
7	Emersion Type Gel Electrp Blotter Unit	Model – Cassette, Size- 13*13cm	1
8	Dual Transilluminator Viewing size 20*20cm	Viewing Size- 20*20cm	1
9	Gel Rocker (Speed 0-100, Oscillation/min)	Speed- 0-100 Oscillation/min, Timer- 99min.	1
10	Preset Micro Centrifuge (10000rpm)	Cat. No. FMC-260602, Rotation-10000rpm	1
11	Digital Top Loading Balance (Capacity 300gm)	Model –MSW-908, Capacity- 300gm, Least Count-0.001gm	1
DEPARTMENT OF BOTANY			
12	Refrigerator - Double Door	SAMSUNG / LG, 220 Litre Capacity, auto defrost	1
13	Tissue Cultures Cabinet - Stainless Steel + glass	Size 2 feet x 2 feet	1
14	Laminar air flow horizontal	MS (2x2x2) or SS complete (2x2x2)	1
15	Exhaust fan	1200 rpm	2
16	Bacteriological incubator -	MSW-231 Modal # IUT-28 Capacity - 28 litres	1
17	Tissue culture rack model #	TCR - 43 no. of shelves-4 lighting in shelves – 3 Size 27” x15”x15”	2
18	Tissue culturehood/ inoculation chamber Model	TCH- 170 dimension - 900 x 600mm, size 27” x15”x15”	1
19	a) Trinocular research microscope	Make-Olympus Model CH 201 with 100x oil immersion	1
	b) Digital camera with computer	Model CH 201 TR with image capture, Pentium	

	attachment model - CH 20i - TR	TV computer with colour monitor	
20	laser printer scanner & copier (coloured) All in one printer	Make –Canon with all colours refills	1
21	Water distillation apparatus	Electric manesty type, wall mounting with ejection type electric heater (6 litre/ hour)	1
DEPARTMENT OF CHEMISTRY			
22	Capillary Electrophoresis	Typical sample volumes are 1 to 50 nanoliters, Precision ranges of 1 to 2 relative s. D. (%). Detection limits are approximately 1 mg/L to 1 microgram/L.	1
23	Conductivity bridge - 2 Nos	Range 0 to 20, 200 μ S* 0 to 2, 20 & 200 mS* Readability 0.05 % of Range Accuracy \pm 1% of Range Repeatability \pm 1% of Range	1
24	Conductometer	<p>Model 601 611</p> <p>Display 3.5 Digital LED</p> <p>Measurement Conductivity</p> <p>Ranges 0 to 200 uS/cm, 0 to 2 mS/cm, 0 to 20 mS/cm, 0 to 200 mS/cm & 0 to 1000 mS/cm</p> <p>Accuracy + 1%FS \pm 1 digit</p> <p>Temperature Compensation Auto: 0 to 0 to 50°C, 50°C Manual:</p>	
25	Calorimeter - 2Nos	<p>Measurement system Photo detector Silicon photo diode using XYZ filters Spectral response Approximates CIE 1931 2 degree colour matching functions Measurement parameters XYZ, Lab, Luv, LCH, ΔE (CIE1976, CIE1994, CIE2000, CMC) Optical system 20°, 45°, 60° lighting 0°, 20°, 45°, 60° measurement Measurement geometry 45° lighting, 0° SCE measurement (colour) 20° or 60° lighting, 20° or 60° measurement (gloss) Compliant with ISO, ASTM, DIN, and JIS International standards.</p> <p>As additional feature each gloss sensor can also measure colour LED Natural white LED, stabilized through internal optical feedback loop Measurement speed Colour or gloss measurement at 4000 points/s Size (HxWxD) 99 x 71.5 x 183.5 mm Weight 1400 gram Mounting 4 x M4 threat holes on top</p>	1
26	Cryostatic Apparatus	he Bomb body and lid are machined from corrosion, resisting Stainless steel tod its	1

		capacity is approx. 300ml. It is provided with high pressure valve and electrodes. The Calorimeter vessel, water jacket, stirrer FHP motor driven are provided as per IP standards.	
27	Electronic balance 2 Nos	Weighing range 0 ...100 g Readability 0,01 g Linearity \pm 0,02 g Repeteability 0,01 g Weighing pan stainless steel Weighing units g, Display backlit LCD display	1
28	Electrophoresis Apparatus	Make-Medox Boitech Dimension-19.5X11X5cm, tray 6X8.2cm & 9.5X8.2cm Platinum electrode Assembly, 8well ABS comb with 1.5mm thickness,	1
29	Flame photometer	Range : Na, K, & Li :1-100 ppm and Ca:15-100 ppm Sensitivity : Na, K, & Li :0.5 ppm and Ca:15 ppm Linearity : < 3% Reproducibility : 2% CV for 20 samples Detector : Photo Cell Ignition System : Manual Ignition Flame System : LPG	1
30	Fractional Crystallisation Apparatus	common laboratory glassware and apparatuses, typically including a Bunsen burner, a round- bottomed flask and a condenser, as well as the single-purpose fractionating column.	1
31	Fumigation Chamber	Mode 1 Inner chamber No. of Capacity in no. size trays liters Lbs- fc- 3 125 455x455x605 mm	1
32	Gas Chromatograph	Parameter Specifications FID (Flame Ionisation Detector) Pre-column Hayesep Q, 6ft x 1/8 ,Main-column Porapak Q,12ft x 1/8 Gas purifier Valco HP2 Carrier gas flow rate[ml/min] 30 temperature [°C] 70 temperature [°C] 180 Methanizer temperature [°C] 360] N2/O2 (60%:40%):220 H2 :33 Sample loop volume[ml] 2.2 injection-valves two 10-port-2-position H2 and zero air generator for FID Syringes 5ml (10 Nos.), 10ml(10 Nos.) Septums 100	1
33	Geiger Muller Counter	Q electronics, EAN-0608939448896 , Model Number- GMC-300E Plus, Part Number- GMC-300EPlus, UPC-723794242271	1
34	Guoy's Balance	Scientific Balance, KSB-07 (b) Sample in the form of a long rod: (c) Electromagnet, Model EMU-75T (d) Constant Current Power Supply, (e) Gaussmeter, The experiment is complete in all respect. Capacity : 200 gms Sensitivity : 1/10 mg. by vernier Beam : Hard Bronze/ Brass	1

		Arrestment : Circular, falling away type Air Damping : Very quick and positive, beam coming to rest in 2-3 sec	
35	Hot Air Oven	Temperature Range 5°C above ambient to 250°C maximum, Insulation- Mineral Wool, Doors- Solid doors w/ silicone rubber gasket & lock, Shelves-2 – 3 Stainless steel shelves (Removable),	1
36	LCD/ DLP Projector -2 Nos	Display Type: DLP, Light Output: 2700 Lumens, Warranty: 2 Year(s), Features: DLP 3D Ready Function, Audio: Mono, Life of Lamp - Full Usage: 5000 Hours, Life of Lamp - Eco Usage: 6000 Hours.	1
37	Nephelo Meter - 2Nos	<i>Standard Model: TSP, Deluxe Model: TSP, PM 2.5, PM 4, or PM 10 Selective</i> Sample Method: Pump sample draw Range: 0.1 – 10,000 µg/m ³ Sample Options: 1 minute, Continuous, or 15 min STEL, Resolution: 1 µg/m ³ , Operating: 32°F to 122°F (0°C to 50°C), Logging: 4000 Record memory Dimensions: 3.75W x 6.75H x 2.0D inches 9.5W x 17.2H x 5.1D cm	1
38	Digital pH meter - 2 Nos	Instrument Deluxe pH Type Meter MODEL # 151-R Display 3 1/2 Digit LED Range 0 -14.00 pH 0 ± Resolution 1999 mv 0.01 pH, 1mV Accuracy + 0.01 pH, + 1mV	1
39	Digital Photoelectric Colori Meter - 2 Nos	Product Id: 1126442 Display type - LED Type of Filter - Optical glass Number of filters - 3(420nm,540nm,660nm) Light source - 6V,0.3A Logarithmically calibrated potentiometer to read directly optical density on dial - Available	1
40	Platinum Crucible	Birmingham metals, BC14 H 41 mm bottom W 30.0 mm capacity 50 mL top W 49.0 mm weight 39.0 g+/- 5%	1
41	Polarimeter	0.0003 accuracy for low rotation samples of ±1° Arc Ethernet port for network connection Save measurements direct to your network/server 3 USB ports	1

		Connect to Windows® based printer via USB 21CFR Part 11 Compliant TempTrol™ Electronic Heating and Cooling Six Standard Wavelengths	
42	Polarographic Apparatus	Accuracy± 0.1 %,- 0.5, readability 1mV, Potential± 2048, range 1-1000 Ma, FS, Drop time- 0.5, 1.0 sec.	1
43	Potentiometer (digital)	RESPONSE TIME 100 ms typical ACCURACY ±0.1% of span LINEARITY ±0.05% of span COMMON MODE REJECTION 120 dB, DC to 60 Hz OPERATING TEMPERATURE -13°F to 176°F/-25°C to 80°C9	1
DEPARTMENT OF COMPUTER SCIENCE			
44	Display Interactive Board	Make: HITACHI FX79 4/3 With finger Touch	1
45	Wireless Presenter	Make: Logitech R400 2.4 GHz Wireless Presenter Receiver Pointer case Remote Control	1
46	Color Printer	Make: Cannon Image class MF4750 Color Printer with Ink Tank	1
47	Multimedia Projector	Make: EPSON EB 1880 (V11H451040DA) Portable Projector XGA (1024*768) resolution, 4000 ANSI Lumens Weight- 3.3kg.	1
48	Computer System	Make: LENOVO Think centre Desktop 2GB DDR3 /500GB / 18.5" TFT Screen/ DVD R/W/ MM Keyboard/ Laser Mouse	26
49	UPS	Make: APC 600VA With Battery Backup	20
DEPARTMENT OF HOME SCIENCE			
50	Leclerc Dorothy table loom	15*3/4"*24"(4,8&12 shaft)	1
51	Dry Cleaning Machine	Fully automatic control, capacity 10-15 kg., Voltage 110-425 volt, Heating electric steam.	1
52	Collar mike	Battery 1 A to 9 volt, wireless microphone, AWM 520 VL, table top receiver with telescopic antenna	1
53	Electrical water Bath	Double Walled, 6 Holes and 10holes), (Biological Museum and Tempstar)	1
54	Yarn Count Machine	151` g., readability 0.001 g. Base size 120 mm., unit tex, den, Nm,g,mg. Poer 220-110 volt.	1
55	Computerized sewing and Embroidery Machine	Brother SE 400	1
56	Thick laminated charts fixed to a rugged board with provision for wall hanging	Best quality laminated board	1
57	Digital burst	1NxTm (Digital Bursting Strength Tester) Capacity 35kg /sq.cm.	1
58	Mannequins (Male, Female & child)	Premium quality, best plastic make	1

59	Fiber Chart T.M.	Full Color Fiber Wall Chart) 30"*50"	1																						
60	Spectrophotometer	<table border="1"> <tr> <td>Wavelength range</td> <td>190 nm - 1,100 nm</td> </tr> <tr> <td>Photometric accuracy (K2Cr2O7)</td> <td>±0.01A</td> </tr> <tr> <td>Wavelength accuracy</td> <td>±0.8nm</td> </tr> <tr> <td>Resolution (Toluene in hexane)</td> <td>>1.9</td> </tr> <tr> <td>Stray light (KCl, 198nm)</td> <td>>2</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>Max. Number of Methods</td> <td>100</td> </tr> <tr> <td>User Identification</td> <td>yes</td> </tr> <tr> <td>Display</td> <td>7 inch QVGA Color TFT touch sensitive screen</td> </tr> <tr> <td>Displayed Resolution</td> <td>800x400</td> </tr> <tr> <td>Dimensions (DxHxW)</td> <td>10.04 in x 8.98 in x 8.19 in (255 mm x 228 mm x 208 mm)</td> </tr> </table>	Wavelength range	190 nm - 1,100 nm	Photometric accuracy (K2Cr2O7)	±0.01A	Wavelength accuracy	±0.8nm	Resolution (Toluene in hexane)	>1.9	Stray light (KCl, 198nm)	>2			Max. Number of Methods	100	User Identification	yes	Display	7 inch QVGA Color TFT touch sensitive screen	Displayed Resolution	800x400	Dimensions (DxHxW)	10.04 in x 8.98 in x 8.19 in (255 mm x 228 mm x 208 mm)	1
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61	Electronic Balance	Weighing range 0 ...100 g Readability 0,01 g Linearity ± 0,02 g Repeatability 0,01 g Weighing pan stainless steel Weighing units g, Display backlit LCD display	1																						
62	Hot Plate Round	MSW 423,20cm. Double Plate	1																						
63	Kitchen Utensil	(Steel Dinner set-2, Tupperware storage containers capacity- 2kg (6 pieces) and borosil bowls with lids – (set of 3)	1																						
64	Hemoglobinometer	User friendly features minimises training time, Step by step instructions on screen,Backlit touch screen, Hemoglobin and hematocrit results from one sample available after 25–60 seconds (depending on the concentration), Venous, arterial or capillary blood,Sample volume only 8 or 10 µl depending on cuvette type	1																						
65	Dry Grinder (Electrical)	12.7mm grinding, dimension, 150X20 mm, Power 250 W, Load speed 2950 rpm.	1																						
66	Washing Machine Fully Automatic	I.F.B. make, Fully-automatic front-loading washing machine.Capacity 6 kg: Suitable for bachelors and couples, 800 RPM: Higher the spin speed, faster the drying time	1																						

67	Anthropometry Set	Anthropometric Rods are made of Brass. These are used for vertical and horizontal measurement of long bones at the same time consisting of a set of four long and two small rods. Four rods are attached at exclusive points to become a single rod to measure up to 200cm lengthwise. Two small rods facilitate to clamp the bone and measure width wise at the same time up to 25cm.	1
68	Wet Grinder (Electrical)	Capacity 3 L, SPEED 960 rpm. power 180 w	1
69	Dinner Set	La opala, set of 46 pcs	1
70	Thermos Flask	(stainless steel) Milton/eagle, capacity 500 ml, 1000ml	1
71	Gas Burners with 4 Burners along with Gas Cylinders	Type: Manual Gas Stove Burner Type: High Powered Number Of Burners: 4 WITH 4 CYLENDER	1
72	White Board	For classroom, 8 feet/ 4 feet	1
73	Body Composition Monitor	(omeron HBF 375)	1
74	Body Composition Analysis	(EQ-EB-iF-912B)	1
75	Body Fat Analyzer	(Omeron)	1
76	Foreble's gifts	(1-9 set) spielgaban enumul	1
77	Bio Impedence Analysis Machine	Accuracy $\pm 0.08\%$, voltage min. revolution 1 mV, test signal is 10mV-2Vrms , DC 10Hz-30MHz, test signal current level 200 μ A- 20mArms	1
78	Desktop- All- in one Lenovo AIO-510S with Printer & Scanner	HP / Lenovo	1
79	High Temperature High Pressure Beaker Dying Machine	Nos.of beaker 12-40,heating medium-water/glycerine, Temp- up to 140 ⁰ C weight 80 - 135kg,	1
DEPARTMENT OF PHYSICS			
80	ESR	Frequency 8.75-9.65 GHz Sensitivity- 7x10 ⁹ spin/ 0-1Mt, Resolution 2,35 (micron) Temp. + 200 ⁰ C liquid N ₂ temp	1
81	Telescope	CE 31145- DS, Dimension 71.1x30.5x20.3 cm	1
82	Constant Deviation Spectrograph	ID: 52, Maker's Name: Adam Hilger, London Dimensions: 42 × 68 × 60 cm	1
83	Hall Effect Exp.	Current: 0-20 mA DC Resolution: 10 micro ampere Power: 220V \pm 10%, 50 Hz AC Display: 3½ digit LED Weight: 3 Kg approx	1
84	Young's modulus by Interference fringe method	Part Number- 8076 Number of Items-1 Brand- JLab UNSPSC Code- 41110000	1
85	Michelson Interferometer	Base dimension: 290x212x168mm (LxWxH) Distance (M2 & BS): 100mm	1

		Beam splitter: 50 x 38 x 7mm (LxWxT) Compensating plate: 50 x 38 x 7mm (LxWxT)													
86	Magnetic stirrer	With two capsule magnet													
87	pH Meter	Instrument Type Deluxe pH Meter MODEL # 151-R Display 3 1/2 Digit LED Range 0 -14.00 pH 0 ± Resolution 1999 mv 0.01 pH, 1mV Accuracy + 0.01 pH, + 1mV Temp. Auto + Manual Compensation 0to100°C	1												
88	Fourier Transform Infrared Spectrograph	Excellent signal-to-noise ratio: 55,000:1 (FT/IR-6800) • High resolution 0.07 cm ⁻¹ (standard for FT/IR-6800) • Rapid scan (standard for the FT/IR-6800) • Micro and nano second step-scan options with amplitude and phase modulation • Extended wavenumber range (25,000 - 10 cm ⁻¹) • Expandable for FTIR microscopy • FT-Raman option • Full-vacuum option • Nanosecond time-resolved spectroscopy (nsTRS) • Photo-acoustic spectroscopy (PAS) •	1												
89	Photoluminescence Set Up	Modular construction for maximum flexibility and upgradability Industry leading sensitivity specification >30,000:1 (SQRT Method) Unrivalled spectral coverage from the deep UV to the MIR, 185 nm up to 5,500 nm Unmatched monochromator performance with "plug and play" triple-grating turrets, integrated filter wheel, 325 mm focal length.	1												
90	UV-vis spectrophotometer	Spectrophotometer UV7 <table border="1"> <tr> <td>Wavelength range</td> <td>190 nm - 1,100 nm</td> </tr> <tr> <td>Photometric accuracy (K2Cr2O7)</td> <td>±0.01A</td> </tr> <tr> <td>Wavelength accuracy</td> <td>±0.8nm</td> </tr> <tr> <td>Resolution (Toluene in hexane)</td> <td>>1.9</td> </tr> <tr> <td>Stray light (KCl, 198nm)</td> <td>>2</td> </tr> <tr> <td>Options</td> <td>Printer; Cuvettes; Barcode Reader; Fingerprint Reader; CuvetteChanger; FillPalMini; CertiRef; LabX</td> </tr> </table>	Wavelength range	190 nm - 1,100 nm	Photometric accuracy (K2Cr2O7)	±0.01A	Wavelength accuracy	±0.8nm	Resolution (Toluene in hexane)	>1.9	Stray light (KCl, 198nm)	>2	Options	Printer; Cuvettes; Barcode Reader; Fingerprint Reader; CuvetteChanger; FillPalMini; CertiRef; LabX	1
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91	Thermo luminescence digital Reader	Three-element BARC CaSO ₄ (Dy) PTFE disc dosimeter badge with personnel ID. Light Measurement System : Photo-Multiplier tube (EMI 9125B-bialkali) Light measuring system (LMS). Dark current : Dark current is 1 Sv (CaSO ₄) equivalent with software-based sampling & subtraction. Heater Element : Nichrome heater assembly. Heating Method : Hot gas (N ₂) heating Nitrogen flow rate measurement : Digital flow rate meter Heating Cycle : The temperature is raised to 285°C in 8 sec and clamped at 285°C Dose Range : 50 Sv-5Sv (Gamma) and 100 Sv-5Sv (Beta) Dose Threshold	1																			
92	Centrifuge	Models R- 12C BL R-12M Max. Speed-rpm 16000Max. RCF'g'6600Max. Capacity-ml- 40 Digital timer range Min 0-15 W x D x HMm380 x 460 x 305																				
93	Giger Muler counter	Q electronics, EAN-0608939448896 , Model Number- GMC-300E Plus, Part Number- GMC-300EPlus, UPC-723794242271	1																			
94	Ultra Sonic Interferometer for Liquid	High Frequency Generator Measuring Cell Single And Multi-Frequency Max. Displacement Of The Reflector : 20 Mm Required	1																			

		Quantity Of Liquid: 10 C.C. Least Count Of Micrometer: 0.01mm/0.001 Mm Shielded Cable Impedance : 50 O	
DEPARTMENT OF ZOOLOGY			
95	Deep freezer-	700 System with temp. Control/display, temp.-5000 selcius to 800, capacity 350 liter, cryobox capacity 2"	1
96	Phase Contrast Microscope -	Brand Weswox Eyepiece Keowa H6X and Hkw 10X(Paired) & One Centering Telescope Eyepiece Illumination Built in Base Illumination with 6 V-20 W Hallogen Lamp & Intensity Controlled Power Supply Nosepiece Quadruple Ball Bearing Nosepiece with lid. Objectives Achromatic Objectives 4X/na 0.10Ph. 10 X/na 0.25 Ph. 40X/na 0.65(SI) Ph & 100X/na. 25(SI. Oil 1 mm) Ph.	1
97	Carbon dioxide incubator –	170 Ltr direct heat stackable CO2 Incubator temperature control from 4° C above ambient to 50° C, with control accuracy $\pm 0.1^{\circ}\text{C}$ with high Temp. Decontamination at 120., CO2 control range from 0.2 to 20% with control accuracy and uniformity of $\pm 0.1\%$, Infra-red (IR) CO2 sensor.	1
98	Micropipette-Labpro-	Basco make 0-10 μl	5
99	Alarm clock	Ajanta	1
100	Pressure Cooker-	Prestige, 5 liter capacity with separators	1
101	Microwave Oven -	Stainless steel, Double walled, size 12"X12"	1
102	Soil Thermometer-	Hicks make	1
103	PH meter -	Instrument Type- Delnxe pH Meter MODEL# 151-R Display 3 1/2 Digit LED Range 0-14.00 pH 0= 1999mv 0.01pH. Resolution 1mV.	2
104	Thermometer-	Hicks	2
105	Electronic Balance –	Weighing range 0...100g Readbility 0.01g Linearity $\pm 0.02\text{g}$ Repeteability 0.01g Weighing pan stainless steel Weighing units g Display back lit LCD DISPLAY.	1
106	Mixer grinder-	Maharaja make with 3 Jars	1
107	Student Microscope-	MCA, Biocraft, one ocular and two eye pieces,	1

		10X, 40X and 100X amplification.	
108	Induction Stove-	Prestige with black plate and 1500°C	1
109	Objective Lens-	Olympus make	2
110	Eye Piece-	Olympus make	2

Note- Quantity mentioned above is subject to variation according to actual requirement of the college.