

Guru Ghasidas Vishwavidyalaya, (A central University)

Koni, Bilaspur, 495009 (C.G.) India

Website: www.ggu.ac.in Phone: 07752-, 260381, 9433378801 FAX: 07752-260154, 260148



REF. NO.: 85/E-TENDER/MINOR EQUIP./STORE/GGV/2023, BILASPUR, DATE 21/01/2023

Tender notice

E-Tender for Purchase of Minor Equipment in various departments at GGV

Guru Ghasidas Vishwavidyalaya, invites "E-Tender" from the reputed firms to supply Minor equipments. Details & formats regarding the tender may be downloaded from the websites:- www.ggu.ac.in or www.eprocure.gov.in. The soft copies of the duly filled in tender format, scanned copy of signed tender and relevant documents, DD of tender cost and EMD shall be uploaded on the website www.eprocure.gov.in. However, sealed envelope containing tender cost Rs. 1,500/- (Non-refundable) and EMD (Rs. 25000/- up to financial bid up to 5 lacs; 50,000/- up to Financial bid up to 10 lacs; Rs. 75000/- up to Financial bid 10 lacs and above) addressed to the Store Section, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur, C.G.-495009 through registered post/speed post/Courier Service should reach up to 4.00 PM on or before 10.02.2023 up to 4:00 PM. The technical Bid shall be opened on 13.02.2023 at 4.00 PM.

The University is not responsible for any delay in receiving the documents in hard/soft copies. GGV reserves all the right to accept/reject any or all tender without assigning any reason in favour of university.

Registrar (Acting)

E-Tender **For Purchase of Minor Equipment**

Guru Ghasidas Vishwavidyalaya, invites "E-Tender" from the reputed firms to purchase minor equipment. Details & formats regarding the tender may be downloaded from the websites:- www.ggu.ac.in or www.eprocure.gov.in. The soft copies of the duly filled in tender format, scanned copy of signed tender and relevant documents, DD of tender cost and EMD shall be uploaded on the website www.eprocure.gov.in. However, sealed envelope containing DD of the tender cost Rs. 1,500/- (Non-refundable) and TDR/FDR of the EMD (Rs. 25000/- up to financial bid up to 5 lacs; 50,000/- up to Financial bid up to 10 lacs; Rs. 75000/- up to Financial bid 10 lacs and above) addressed to the Store Section, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur, C.G.-495009, should reach up to 4.00 PM on or before 10.02.2023 up to 4.00 PM. The technical bid shall be opened online 13.02.2023 up to 4.00 PM at 4.00 PM

The University is not responsible for any delay in receiving the documents in hard/soft copies. GGV reserves all the right to accept/reject any or all tender without assigning any reason in favor of university.

SALIENT DATES

- | | |
|--|---------------------------------|
| 1 Last Date of submission (Online) : | 10.02.2023 up to 4.00 PM |
| 1. Last Date of online bid submission: | 10.02.2023 up to 4.00 PM |
| 2. Last Date of submission (Hard copy): | 10.02.2023 up to 4.00 PM |
| Bid Fee Rs 1,500/-(Original) (scanned copy to be uploaded online also) | |
| EMD (Rs. 25000/- up to financial bid up to 5 lacs; 50,000/- up to Financial bid up to 10 lacs; Rs. 75,000/- up to Financial bid 10 lacs and above) Original) (scanned copy to be uploaded online also) | |
| 3. Pre Bid Meeting | 31.01.2023 at 2.00 PM |
| 4. Opening of Technical Bid | 13.02.2023 at 4.00 PM |
| 5. Financial Bid* | Date to be notified later after |
| (as per BoQ in e-tender submitted online only) | Technical bid Evaluation |

*The financial bid (as per BoQ in e-tender) of technically qualified bidders will be opened later for which the date will be notified through www.e-procure.gov.in and university web-portal ggu.ac.in. Bidders are advised to visit the above sites for updated information on regular basis.

1. Mode of Payment of Tender Cost and EMD:

Tender cost and EMD must be submitted in original before the scheduled last date through speed post/registered post/courier service to the Asst. Registrar (Store), Guru Ghasidas Vishwavidyalaya, Bilaspur 495009 (C.G). Also, the scanned copies are to be uploaded on-line in eprocure.gov.in.

1.1 Tender Cost

Tender cost of Rs 1500 (non-refundable) should be in the form of DD in favour of “Registrar, Guru Ghasidas Vishwavidyalaya”, payable at Bilaspur (C.G), from any nationalized bank.

1.2 Earnest money deposit (EMD)

An EMD of **Rs. 25000/- up to financial bid up to 5 lacs; 50,000/- up to Financial bid up to 10 lacs; Rs. 75000/- up to financial bid 10 lacs and above** (refundable as per terms & condition of the tender) should be in the form of TDR/FDR in favour of “Registrar, Guru Ghasidas Vishwavidyalaya”, payable at Bilaspur (C.G), from any nationalized bank.

The following shall be noted related to EMD:

- The EMD (without any interest) for all those bidders who are found not eligible shall be returned back to the bidder through registered post/speed post/Courier Service.
- The EMD without any interest shall be refunded / returned to remaining bidders only after signing of agreement / MoU with the successful bidder.
- No exemption from depositing the EMD shall be allowed to any participating bidder. However, GOI norms/rules/Standards/orders may be applicable.
- Validity of EMD shall be six (6) months from the last due date of submission of E-Tender.
- The earnest money deposit (EMD) shall not carry any interest.
- EMD shall be forfeited in the following cases:
 - If any information or document furnished by the bidder turns out to be misleading or untrue in any material respect; and if the successful bidder fails to execute the contract/ agreement within the stipulated time or any extension thereof provided by GGV.

2. Essential Eligibility Criteria for the bidder:

The bidder should fulfill the following Eligibility criteria for participating in this Tender:

(Regarding the eligibility criteria, the bidder has to submit the filled in format as per annexure I, Annexure I-A to I-E and Annexure III)

- 2.1 The bidding firm should have minimum 01 years of experience in dealing with Minor equipment in last Consecutive 03 years as mentioned in this tender. Purchase Order and Satisfaction/completion letter from the concerned Organization should be submitted (as applicable). Also, the firm should have no adverse complaint or blacklisted by any government/semi-govt./govt. financed dept./ PSU/corporation as buyer or (Annexure- I-A)
- 2.2 Audited balance sheet of last 03 financial years (since 2019-20) with a minimum average annual turnover of Rupees 20 Lakh, along with gross profit Statement without any loss. (Annexure "I-B" must be filled along with CA certified Audited balance sheet for last three FY).
- 2.3 Bidder should possess statutory requirement such as PAN, TAN, GST, Shop-Establishment Registration, Labour license etc. (as applicable), for their existing businesses setup. (Annexure- I-C)
- 2.4 If the bidder is not a manufacturer/Principal company, then the bidder must have a valid authorization certificate (latest & valid) issued from the principal company. (Annexure- I-D must be filled in)

Eligibility Criteria for Bidders Clause 2.0						
Clause no. 2.0	Annexure	CRITERIA SATISFIED BY THE BIDDER YES/NO	DOCUMENT / CERTIFICATE ATTACHED IN SUPPORT YES/NO	GIVE THE RELEVANT PAGE NO IN THE BID DOCUMENT SUBMITTED BY THE BIDDER		Remarks
				From	To	
2.1	I-A					
2.2	I-B					
2.3	I-C					
2.4	I-D					

3. DISQUALIFICATION:

The bid may be cancelled/partially accepted/rejected/not evaluated if any of the following is observed by the technical committee of GGV.

1. If any of the eligibility criteria (as per clause-2) is not fulfilled by the bidder
2. If the hard copies of the desired documents including Tender cost (original) and EMD(original) are not received to the store section of the university, within the stipulated time through speed/registered post or courier service only.
3. If the bid is conditional or incomplete.
4. If the desired relevant documents (Scanned copy of DD of Tender Cost, DD/FDR of EMD, and other certified documents) in support of the information furnished in this tender are not uploaded online.
5. If the tender document is altered or tampered in any manner
6. If duly signed copy of the desired Annexure I, I-A to I-E, undertaking (Annexure III), checklist and relevant certificates are not attached with the on-line technical bid.
7. If at any stage during and after evaluation of the technical bid and even after agreement and award of the work the bid/agreement of any such bidder will be rejected/not evaluated/cancelled, it is found that the information/documents furnished by the bidder is false/untrue/fabricated/tampered etc.
8. If the bidding firm has been blacklisted/debarred by any government/semi-government/PSU organizations or any legal proceedings regarding malpractice is ongoing against the bidding firm or the firm was found guilty for such malpractices earlier.
9. If the bidder attempts to influence any member of the committee of GGV during and after the tendering process.
10. If the bidder claims any other charges for the supply over and above the Quoted rate in the tender, except the prevailing taxes imposed by the Government.

4. RIGHTS OF THE UNIVERSITY:

The University reserves (without assigning any reason, whatsoever) the right to:

- Accept or reject any or all bids for this tender at any stage.
- Amend the selection process at any stage, if situation so warrants.

- Interpret any clause, modify/alter and amend the provisions of this tender or any other document issued at any stage of selection.
- Amend the scope of work.
- Debar the bidder, if during the process of selection or later at any stage, it is found or discovered that bidder has/ had provided incorrect/misleading information or material mis-representation or concealment of information sought by the GGV.
- Close the process/cancel the invitation/ tender notice at any stage.

5. Downloading of the E-Tender:

The bid document consisting of scope of work and the set of terms and conditions of the contract to be complied with and other necessary documents may be seen and downloaded from websites www.ggu.ac.in or www.eprocure.gov.in

6. Submission of the Bids:

Part-A

6.1 TECHNICAL BID: Following duly signed documents are to be submitted by the bidder:

6.1.1 Soft copies to be uploaded in the CPP Portal e-procure.gov.in:

- a. All relevant certificates, undertakings, documentary evidence in support of the information furnished by the bidder.
- b. Signed and scanned copies of Tender Cost and EMD.
- c. Signed copy of the tender document without any alteration.

6.1.2 Online (soft copy) Bid Submission

- a. The bid document consisting of scope of work and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from websites www.ggu.ac.in or www.eprocure.gov.in
- b. Bidder must be registered on the website www.eprocure.gov.in for uploading the soft copy of the bid.
- c. The interested tenderer(s) must read the terms and conditions of this Tender carefully. Firm should only submit the bid if eligible, and should possess all the documents required.
- d. The intending tenderer(s) must have valid digital signature to submit the bid.
- e. Bidder should upload documents in the format available on the website www.eprocure.gov.in.

- f. Bidder must upload the Tender documents on the e-Tendering website www.eprocure.gov.in. The scanned copy of demand draft for Bid Cost (Non-refundable) and demand draft of Earnest Money Deposit (EMD) in pdf format. All two files should be uploaded in one file named “Bid Cost_EMD_E-Tender Fee_Name of Bidder.pdf” within the period of bid submission.
- g. Bidders must upload their tender on the e-Tendering website www.eprocure.gov.in. The scanned copy of the bid documents Technical (in pdf format) and Financial Bids (as per format available on the website www.eprocure.gov.in) within the period of bid submission (**Bidder must provide the Technical and financial bid details strictly as per the serial no of Annexure IV. Kindly use separate sheet for each department**).
- h. First pdf file titled “Technical Bid _Name of Bidder must have all required documents related to Technical Bid.
- i. Second file (as per the format available on the website www.eprocure.gov.in) titled “Financial Bid Name of Bidder” must have the Financial Bid.
- j. The Technical bid file must contain the scanned copies of duly signed tender document/format, certified copies of documents related to Eligibility Criteria, all relevant information and documents of turnover, net profit (after tax), experience, ongoing work, documents relevant for evaluating the bidder technically, Corrigendum / Addendum / Other documents, if any, etc. as per the attached annexure (except annexure II). Only those technical bids whose Bid cost and EMD are found valid will be opened.
- k. The bidders are required to upload and submit page of (Audited) summarized Balance Sheet /summarized Profit & Loss Account for last 03 years.
- l. Bidder must ensure to quote rate in the Financial Bid as per Annexure-II. The rate shall be quoted up to 2 Decimals.
- m. If any cell is left blank and no rate is quoted by the tenderer, rate of such item shall be treated as “0” (ZERO).
- n. Information and Instructions for tenderers uploaded on websites shall form part of bid document.

- o. The bidders are advised to submit complete details with their bids. The Technical Bid Evaluation will be done on the basis of documents submitted/uploaded on e-tendering website(s) by the bidders with the bids. The information should be submitted in the prescribed Performa. Bids with Incomplete/Ambiguous information will be rejected.
- p. Online technical bid documents submitted by intending tenderers shall be opened only of those tenderers, whose Earnest Money Deposit, Cost of Bid Document and other documents placed in the envelope are found in order. GGV reserves all the rights to reject the bid, if three envelopes do contain relevant information with regard to the content of the envelope.
- q. Before the scheduled last date and time of submission of bid as notified, the tenderer can submit their revised bid any number of times indicating the relevant details on the concerned envelope.
- r. On opening date and time, the bidder may login to see the bid opening process.
- s. The tenderer may submit their queries (if any), through E-mail (storesectionggv2021@gmail.com) and in writing to the Registrar, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur, 495009 (C.G.) to seek clarifications regarding the tender submission etc. GGV will reply only those queries which are essentially required for submission of bids. GGV will not reply the queries which can be implied /found in the tender documents or which are not relevant or in contravention to tender documents.

6.1.3 Hard copy to be submitted in a sealed envelope to the “Assistant Registrar (Store), Guru Ghasidas Vishwavidyalaya, Koni Bilaspur (C.G.) 495009:

- a. Original copies of Tender Cost and EMD.

6.2. Financial bid:

Financial bid is to be submitted online only, to be uploaded on www.eprocure.gov.in the BoQ (format as per annexure II). The offered price of any item in Tender, is to be quoted (online only) by the bidder in the above BoQ. No additional charges for packing, forwarding, loading, unloading, transit insurance etc. except the government taxes shall be payable to the vendor.

7. Opening and Evaluation of the Bid:

The bids shall be opened on-line for only those bidders who successfully submit the desired Tender Cost, EMD in original in hard & soft copy in a sealed envelope on or before the scheduled last date & time to the store section of the University.

The bid is invited under two stages (three packets system); accordingly, the stage wise bids shall be opened on-line. On scheduled date the technical bids shall be downloaded and further evaluated as per the eligibility criteria (clause-2) etc. as per the condition of this Tender.

The financial bids of technically qualified bidders shall be opened on-line as per the date decided and uploaded in the e-procure.gov.in and ggu.ac.in sites.

8. Technical Specifications of Minor Equipment.

As per attached Annexure

9. GENERAL TERMS AND CONDITIONS OF TENDER :

- 9.1 Quoted Price of each item should remain firm during the supply duration.
- 9.2 The specifications and quantity are detailed in the clause 8 (Table).
- 9.3 University reserves the right to increase or decrease the quantity or delete some or all of items depending on the needs of the university. The Bidder has to supply the desired items as per purchase order with the same price as quoted in the bid.
- 9.4 The award of the contract may be decided on the basis of quoted rates, Quality of Product, experiences & past performance of the Bidder etc. as desired in this tender. The decision of the University in this regard shall be final and binding on the bidders.
- 9.5 The terms & conditions of this Tender shall remain valid till the expiry of the successful supply up to the warranty period.
- 9.6 Any change in statutory levies during the period of Tender shall be paid extra against documentary proof for such changes, if legally livable and should be intimated within 3 weeks from the receipt of supply order.
- 9.7 Bidder/Supplier will not supply the items under Tender, on a rate, lesser than our Tender prices to any other Govt. institution. If the same is found, then proportionate recoveries will be made

- from bidder/supplier authorized dealer.
- 9.8 The vendors/firms should be registered with GST Authorities.
- 9.9 Bidder must submit certificate of registration as manufacturer/ authorized supplier (as applicable) along with the bid.
- 9.10 Authorized dealer / distributor of a company has to submit a copy of their latest dealership/ distributorship certificate. The vendors shall be eligible for the supply only upto the validity of such certificate during the Tender period.
- 9.11 Price should be for delivery at Guru Ghasidas Vishwavidyalaya Campus, Bilaspur (CG). No additional cost in any manner shall be borne by the university for supply, installation, demonstration etc.
- 9.12 The bidders have to ensure the supply and delivery of the items quoted in the financial bid and for which order has been issued. In case of otherwise/non-supply of ordered items a penalty of 25% of order value will be imposed on the bidders. In addition to penalty, the vendors/firms may be blacklisted for certain time periods.**
- 9.13 Number of vendors may be multiple for any one principal company, subject to the fulfillment of other requirement as desired in this Tender. University has all the rights reserved to negotiate with other bidder if it finds suitable for proper and smooth supply.
- 9.14 Prices charged for the items supplied under Tender should under no event be higher than lowest prices at which the party sells the items of identical description to any other Govt. organization during the period of contract failing which the “FALL CLAUSE” will be applicable. A certificate to this effect may be provided by the firm that the lowest prices have been offered to Guru Ghasidas Vishwavidyalaya. In case it is found that the price changed by the firm are more, the same will be recovered from the subsequent/unpaid bill of the supplier.
- 9.15 If the bidder has experience of supplying the similar items as sought in this tender then the relevant work order/ experience certificate for such supplies issued from the Government academic / research institutions/Organization should be attached with the bid as their credential & documentary evidences.
- 9.16 University reserves the right to carry out a technical inspection and performance evaluation (benchmarking) of the offers made by shortlisted vendors. The shortlisted vendors may be asked to come and give out presentation / demonstration.

- 9.17 The items, so supplied will have to be of desired quality & grade. The same if not found in order then the supplied goods may be rejected on the expenses of the vendor and also appropriate penalty for wrong supply may be imposed on the vendor by the university. Items of inferior quality, are to be replaced by the vendor at their own cost within the stipulated period, failing which the purchase order of the firm will be cancelled. Delayed supply / non-compliance of complete order may also lead to appropriate penalty.
- 9.18 University will create a shortlist of technically qualifying vendors and the financial tender of only these vendors will be opened online.
- 9.19 University reserves the right to decide whether the items being quoted are as per the requirement of the university and are of standard/leading brands in the market. University reserves the right to decide which offer best suits the requirement of the university. Further, after opening financial tenders of the short-listed tenders, if there is a discrepancy between word and figure, the amount indicated in words will prevail.
- 9.20 The Cost of the equipment should be exclusive of GST but inclusive of all other statutory levies. Labor, installation charges, packing, transporting, forwarding, transit insurance, loading/unloading, commissioning, demonstration (at desired location), freight etc.
- 9.21 Payment shall be made only after satisfactory acceptance of the item. by the user department. No advance/part payment shall be made/entertained in any occasion. by the university.
- 9.22 The firm is bound to supply all the items if approved by the university and accordingly purchase order has been issued to the successful bidder. Failing which the EMD may be partially/fully forfeited by the university.
- 9.23 Financial bid is to be submitted online only, to be uploaded on www.eprocure.gov.in in the BoQ (format as per annexure II).
- 9.24 **Performance Guarantee (PG) /Security Deposit (SD):** PG/SD for an amount of 5% of the order value have to be furnished in the form of an Account payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from a Commercial bank in an acceptable format by the successful tenderer. Performance Guarantee is to be furnished along with the invoice after before or supply the supply and it should remain valid for a period of 60 days beyond the date of

- completion of all obligations by the vendor, including warranty (one year) obligation.
- 9.25 **Warranty:** Comprehensive on-site warranty (as applicable) shall be applicable to the supplied goods for a period of 12 months for all manufacturing defects from the date of satisfactory installation, commissioning and acceptance by the user department of GGV.
- 9.26 Bidder may contact Store section, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) for any clarification or information regarding the Tender. E-Mail: storesectionggv2021@gmail.com.
- 9.27 The delivery of goods will be taken at the risk and cost of the supplier from railway/ transport and university will not be held responsible for any such matter.
- 9.28 The supply of material will have to be completed within stipulated time given in the purchase order. The liquidated charges @0.5% per week shall be imposed if supply made after stipulated delivery period subject to maximum 10% of the total value of goods/ contract value.
- 9.29 In case supply of material requires more than stipulated time, the supplier must apply in writing and seek permission of extension, on valid ground, at least one week before the last date of expiry stipulated for supply. The University reserves all the rights to grant any extension in last date for the supply on valid grounds or may deny for granting any extension.
- 9.30 The supply order will depend upon the requirement and recommendation furnished by the user department/PI and availability of the fund with GGV. The quantity of items may or may not change.
- 9.31 The firm has to supply the required items as per unit price mentioned in the BoQ.
- 9.32 Supply should be made in full against the Purchase order and shortage will be procured from any other source on the risk and cost of the supplier. Partial supply may not be accepted by the university.
- 9.33 No. Payment will be made for unsatisfactory items supplied by the vendor.
- 9.34 The articles should be securely packed to avoid damages etc. in transit. Tampered and damaged items will not be acceptable.
- 9.35 Delivery: The delivery should be given at GGV, Bilaspur, C.G. No delivery, packing charges, load, unloading charges will be paid extra by the University.
- 9.36 Supply should be made from the latest batch of production with the maximum life period &

original packing.

9.37 The bills ought to be submitted in triplicate, in the name of the Registrar, GGV, Bilaspur. The bill/invoice (with valid GST No.) must possess the bank details (Account No. Bank Name, IFSC Code etc), and the university purchase Order No.

9.38 Earnest Money Deposit: EMD of Rs. 25000/- up to financial bid up to 5 lacs; 50,000/- up to Financial bid up to 10 lacs; Rs. 75000/- up to Financial bid 10 lacs and above should be submitted in the form of AccountPayee Demand Draft/Fixed Deposit Receipt of any of the Nationalized Banks drawn in favour of Registrar, GGV, Bilaspur (C.G) along with Tender.

9.39 Sale Tax/GST: The rate of sale Tax/ GST should be mentioned clearly.

9.40 Each page of the Tender document and annexure if any, should be signed by the tenderers failing which tender may not be considered.

9.41 **Offer validity period:** The offer validity of goods should hold a period of **180 days** from the date of opening of the financial bid. Any offer falling short of the validity period is liable for rejection with appropriate penalty including forfeiting of EMD/ SD

9.42 The dispute arising between Vendor and the GGV will be referred to Arbitrator as per government of India norms.

9.43 **Fall Clause:** The following Fall clause will form part of the contract–

- (i) The price charged for the services and stores supplied under the contract by the Bidder / firm shall in no event exceed the lowest prices at which the Bidder / firm sells the stores and services or offer to sell stores and services of identical description to any persons/Organization including the purchaser or any department of the Central government or any Department of state government or any statutory undertaking the central or state government as the case may be during the period till performance of all supply Orders placed during the currency of the rate contract is completed.
- (ii) If at any time, during the said period the Successful Bidder reduces the sale price, sells or offer to sell such stores and services to any person/organization including the University or any Dept. of Central Govt. or any Department of the State Government or any Statutory undertaking of the Central or state Government as the case may be at a price lower than the price chargeable under the contract, the Bidder/Firm shall

forthwith notify such reduction or sale or offer of sale to the University and the price payable under the contract for the stores of such reduction of sale or offer of the sale shall stand correspondingly reduced.

9.44 Force Majeure

- (i) Neither the Firm/Contractor nor the Client shall be considered as defaulting in the Performance of their obligations under this Agreement, as long as such performance is prevented or delayed, for reason, beyond the reasonable Control of the party claiming the existences of Force Majeure such as Acts of God, severe earthquake, cyclone (expect monsoon), floods, lighting, land slide, fire or explosions, plague or epidemics, strikes, lockouts (lasting more than 14 consecutive calendar days), sabotage, blockade, war riots, invasion, acts of foreign enemies, hostilities (whether war be declared or not), civil war, rebellion, insurrection or military usurped power or confiscation or trade embargoes or destruction of requisition by order of any Government or any Public Authority. The party claiming the existence of Force Majeure shall within ten days or within shortest possible period without delay, as the case may be, notify the other party about the occurrence of the Force Majeure event and provide the other details of arising ceasing of the impediment. At the end of the impediment, the party claiming the existence of Force Majeure shall provide necessary documental proof of cessation.
- (ii) As soon as the cause of Force Majeure has got removed, the party whose ability to perform its obligations has been affected shall notify the other of such cessation and of the actual delay incurred in such affected activity, including necessary evidence in support thereof. From the date of occurrence of a case of Force Majeure, obligations of the party affected shall be suspended during the continuance of Force Majeure Conditions and any liability so caused until the case itself and the inability so caused resulting there from have been removed, the agreed time of completion of the respective obligations under this contract shall stand extended by a period equal to the period of delay occasioned by such events.

(iii) Should one or both the parties be prevented from fulfilling the contractual obligations by state of Force Majeure lasting continuously for a period of six months, the parties shall consult each other regarding the future implementation of the Project.

9.45 **Resolution of disputes (Arbitration and laws):** In case of any dispute or difference arising out of or in connection with the Tender conditions/order and contract, the GGV and the tenderer will address the dispute/difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole arbitrator to be appointed by GGV. The arbitration shall be held in accordance with the provisions of the arbitration and conciliation act 1996 and the venue of arbitration shall be at Bilaspur (C.G.) only. The resolution of the arbitrator shall be final and binding on both the parties.

9.46 **Jurisdiction:** the courts at Bilaspur (C.G.) alone will have the jurisdiction to try any matter, dispute or reference between parties arising out of this Tender/contract (later). It is specifically agreed that no Court outside and other than Bilaspur (CG) court shall have jurisdiction in the matter.

**Annexure I
TECHNICAL INFORMATION**

(Tenderer may use separate sheet wherever required)

Sl. No	Details of the firm/bidder	Detail to be Furnished by the firm/bidder	Page number in the tender document
1	Name and address of the Bidder		
2	e-mail id, Mobile No. and land line No. of the bidding firm		
3	State clearly whether it is Sole proprietor or Partnership firm or a company or a Government Department or a Public Sector Organization (attach relevant document in support)		
5	Whether the firm is registered under company Act 1956? If yes, enclose certified copies as documentary evidence: In case firm is registered with other Govt. Deptt./Agency/CFIs., the same may be stated with documentary evidence.		
6	Bank Detail of the Bidder: Name of Bank: Full address of Bank: Account No.: IFSC of Bank:		
7	Details of the Tender Cost DD No.: Dated: Drawn on Bank: Amount: Rs 1500/-		
8	Details of the Earnest Money Deposit (EMD) DD. No.: Dated: Drawn on Bank: Amount: Rs 50,000/-		
9	Attach duly certified copy current price list issued by the manufacturer (hard & soft Copy)		
10	Price Justification Certificate: Bidders are required to provide a certificate in this regard that that the discount offered on the printed price is equal to or more than the discount offered to any other organization for the current price list (kindly submit the certificate (as per annexure I -.E))		
11	Copy of Income Tax Return for last 3 years (attach CA certified(copies)		
12	Attach the tender document and its annexure (duly signed and stamped by the bidder) Note: It is mandatory to sign each and every page of the documents including the tender format and are to attached /submitted along with the Technical bid.		
13	Quality Assurance certificate (to be submitted by the bidder that the quoted products are of acceptable Standards & Purity), Please specify the product quality.		
14	Any other information, if the bidder wishes to furnish in order to strengthen its candidature as supplier under rate contract.		
15	Undertaking as per annexure (as per Annexure-III)		

Annexure -I-A

BIDDERS EXPERIENCE

Year	Details of supply orders executed by the bidding firm to other organization (PO.No, Installation, Completion certificate issue date etc)	Name, Address &Type of organization	Page No of documents attached in this Bid

Annexure-I-B

Turn Over & Gross Profit Statement of the Bidding firm

Financial Year	Turn Over (Rs. in Lakh)	Turn Over in Average (Rs. Lakh)	Gross Profit (Rs. in Lakh)	Gross Profit in Average (Rs. in Lakh)
2019-20				
2020-21				
2021-22				

Note: CA Certified copy of the audited balance sheet for the information as furnished above must be attached with the technical bid.

Annexure- I-C

Statutory Information:

Sno	Description	Details to be furnished by the Bidder	Page No Bid	Attach all the certified copies of the documents in support
1	PAN card			
2	TAN card			
3	GST registration			
4	Shop/Establishment Registration			
5	LabourLicense (as applicable)			

Annexure-I-D

AUTHORIZATION Certificate Statement

(To be submitted only if the bidder is not a manufacturer for the item quoted in this Tender)

To,
The Registrar, GGV
Bilaspur (C.G) 495009

Subject: Authorization Certificate Statement
Reference: Authorization Certificate issued by the manufacturer vide no

Dear sir,

I hereby submit the certified copy of the authorization certificate issued by the principle manufacturing company as detailed under. the certificates are valid as desired in the Tender. I have gone through the clause no and other relevant condition of this Tender.

SN	ITEM	Name of the manufacturer	Address of the manufacturer	Certificate reference No issued by the principle manufacturer	Date of issue	valid upto

Yours faithfully,

[Signature with date, name and designation]
For and on behalf of
Messrs.....
[Name & address of the manufacturers]

Annexure I-E

CERTIFICATE OF PRICE JUSTIFICATION
[TO BE GIVEN ON LETTER HEAD]

Tender No.:

I/We. M/s.....certify that the discount offered on the item wise printed price list of the manufacturer, are the best discount and the I/we have not offered discount more than the offer given in this Tender, on the similar items, to other organization/Institution/University(Govt / Private/ Govt Funded/ PSU). in last one year period.

SIGNATURE AND STAMP OF THE BIDDER

Annexure II

FINANCIAL BID (BoQ)

- After opening of technical bid the capability and suitability of the bidders shall be evaluated on the basis of their technical bid. Financial Bid of the technically qualified bidder shall be opened later for which the date will notified through eproc.gov.in and ggu.ac.in .

Annexure III
DECLARATION

1. I, Son /Daughter of Shri
Proprietor/ Partner/ Director/ Authorized Signatory of the bidding firm M/s. -----
----- and I am competent to sign this declaration and execute this Tender document.
2. I have carefully read and understood all the terms and conditions of the Tender and I hereby convey my acceptance and compliance of the same.
3. The information/ documents furnished along with this Bid application are true and authentic to the best of my knowledge and belief.
4. I/ we am/ are well aware of the fact that furnishing of any false information/ fabricated document would lead to rejection of my bid at any stage besides liabilities towards prosecution under appropriate law, and my EMD may also be forfeited.
5. My/Our firm is neither blacklisted by any Government Department/PSUs/PSEs nor is any Criminal Case registered against the firm or its owner or partners or directors anywhere in India.
6. I/We have read and understood all the terms and conditions and are acceptable to the

firm. I/we will obey/comply/abide by all the terms and conditions of this Tender, if the contract is awarded to my firm.

7. Total number of pages (including signed copy of Tender documents) being submitted in this bid is ----

Dated:

Signature of Bidder.....

Name.....

Designation.....

Firm seal.....

- Note :**
1. The above declaration, duly signed and sealed by the authorized signatory of the firm/company, should be enclosed with the Tender document.
 2. Certificate as per above must be submitted only on non-judicial stamp paper of Rs.100/-.

CHECK – LIST

Details		Complied /attached Yes/No	Page Number	Compiled/Not-Compiled
Envelope I (online And Offline)				
1	DD of the Bid cost/fee of Rs 1500/- (non-refundable) has been kept in original in Envelope-I along with the DD of EMD as below.Also the scanned copy of the above DD has been uploaded in the e-procure site along with the e-tender documents.			
2	FDR/TDR of the EMD of Rs 2,00,000/- (non-refundable) has been kept in original in Envelope-I along with the FDR/TDR of Tender cost/fee as above. Also the scanned copy of the above FDR/TDR has been uploaded in the e-procure site along with the e-tender documents			
Envelope-II (online Only) (Attach the duly signed copies of the following along with relevant supporting documents as detailed in the tender)				
1	Weather bidder has read and signed each page of the tender documents and enclosed in original of the same along with the technical bid documents in Envelope-II. Weather bidder has read and signed each page of tender documents and uploaded the scanned copy of the same along with the technical bid documents.			
2	Annexure I (in desired format) is attached by the bidder.			
3	Annexure I-A (in desired format) is attached by the bidder.			
4	Annexure I-B (in desired format) is attached by the bidder.			
5	Annexure I-C (in desired format) is attached by the bidder.			
6	Annexure I-D (in desired format) is attached by the bidder.			
8	Annexure I-E (in desired format) is attached by the bidder.			
11	Annexure III (in desired format) is attached by the bidder.			
Envelope-III (online only)				
1	Annexure-II (in desired format)			

Dated:

Signature of Bidder.....
Name.....
Designation.....
Firm's seal.....

ANNEXURE-IV

1. BIO TECHNOLOGY			
<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
1	Magnetic stirrer with hot plate (with complete set of stirrers) 02	1	Body is made of CRC duly powder coated & top platform made of Stainless Steel. A heavy-duty motor imparts a higher initial torque for the smooth and vibration-free start at lower speeds as well as at higher speeds. Variable Speed controlled through a Speed Regulating knob Electrical/heat energy is controlled through an energy regulator To work on 220/230 Volts AC Supply
2	pH meter	1	One to three point pH calibration Automatic buffer recognition with two pH buffer sets pH slope and offset display One point mV calibration One point ATC temperature probe calibration Automatic or manual temperature compensation Ready icon to indicate measurement stability
3	Double distillation unit (Glass)	1	Built in heater enclosed in quartz coil. Leveling tube with overflow tube and bottom outlet tube. Biological activity- Pyrogen free, pH 6-7. Distillate, Temp- 65-75°C. Electrical Requirements : 230-250 volts
4	. Gel rocker 01	1	Power Supply 220-240 V AC , 50/60 Hz Material Metal Platform Size (Inch): 7x11 Inch Maximum Flask Capacity: 1000 ml Speed range (rpm): 80-180 RPM Shaking Orbit (mm): 10 mm Overall Dimensions (mm): 270 x 260 x 156 mm Model No: RS- 12R Countdown timer: 15 min
5	Cytospin rotor 01	1	<ul style="list-style-type: none"> • Should Process 12 specimens at one time • Allows for one-handed opening and closing with a redesigned lid-release mechanism • Enables viewing of the sealed head through the polycarbonate window during operation • Protects mechanical and electronic components from damage due to accidental fluid spills • Designed for easy disinfection

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6	Vortex	1	<p>Ype Vortex Mixer Height mm130Depth m160Dimensions (W x D x H) mm140 x 160 x 130Width mm140Weight kg2.2Type of auxiliary energy230 V, 50 HzMax. speed rpm2850Min. permitted ambient temperature °C4Max. permitted ambient temperature °C65Plug type UK Type of movementorbital Touch operation Yes Continuous operation Yes</p>
7	Visible spectrophotometer with a set of 5 quartz cuvette	1	<p>MULTIPLE RESULTS READOUT\ Can display wavelength, absorption and transmittance with 5 result AUTO SETTING WAVELENGTH Users set wavelength automatically through arrow keys to avoid operation errors STANDARD CURVE Can set up various standard curves according to customer's solutions and find the concentration of unknown solutions. DATA OUTPUT LMSP-V325 is equipped with USB port to connect with a PC to display spectrum scanning, kinetics and multi wavelength testing results on the screen. 2.5' LCD SCREEN Equipped with a 2.5 LCD screen to give a clear display of standard curves and groups of results</p>
8	-20 deep freezer	1	<p>Temperature range (in AC Room): Ambient to -20°C MOC Outer : CRC steel sheet duly powder coated MOC Inner : Chamber made of plastic moulded liner /stainless steel (SS-304) Insulation: High Density PUF insulation for tighter temperature controls Temperature Control : Microprocessor based Digital Temperature Indicator-cum-Controller Display : Digital LED Set value (SV) & Process value (PV)</p>
9	Autopipette (0.1µl – 1µl)	2	<p>Variable Volume Micropipettes feature built-in tip ejectors and autoclavable tip cones. Should work on a click-stop digital system, are easy to calibrate and maintain, and easy to disassemble for autoclaving. Calibration certificate must be provided with each pipette. Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes. Variable volume 0.1µl – 1µl</p>

10	Autopipette (1 µl – 10 µl)	2	Variable Volume Micropipettes feature built-in tip ejectors and autoclavable tip cones. Should work on a click-stop digital system, are easy to calibrate and maintain, and easy to disassemble for autoclaving. Calibration certificate must be provided with each pipette. Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes. Variable volume 1 µl – 10 µl
11	Autopipette (10 µl – 100 µl)	2	Variable Volume Micropipettes feature built-in tip ejectors and autoclavable tip cones. Should work on a click-stop digital system, are easy to calibrate and maintain, and easy to disassemble for autoclaving. Calibration certificate must be provided with each pipette. Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes. Variable volume 10 µl – 100 µl
12	Autopipette (100 µl – 1000 µl)	2	Variable Volume Micropipettes feature built-in tip ejectors and autoclavable tip cones. Should work on a click-stop digital system, are easy to calibrate and maintain, and easy to disassemble for autoclaving. Calibration certificate must be provided with each pipette. Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes. Variable volume 100 µl – 1000 µl
13	Laminar flow hood (2 seater)	1	Main filter: HEPA Filter made from water-resistant, fire retardant, imported microfine glass fiber media; conforms to EU - 14 Grade, with an efficiency rating better than 99.999% for 0.3 µ. These filters are designed to accommodate higher air flow volume. Pre-filter: Pre-filter is made from Non-Woven Synthetic with HDPE mesh and Al expanded mesh on air leaving side; conforms to EU – 4 / G-4 Grade, with the efficiency of down to 10 microns. These filters can be cleaned by compressed air & also washable. Illumination: Fluorescent Lamp 40W Sterilizing: UV Germicidal Tube. Front door: Made of Plexi Glass Utility: Gas/Air cock Supply Voltage & Frequency : AC 230V, 50/60 Hz
14	Autoclavable and reusable filtration unit 500 ml	1	Autoclavable and reusable filtration unit 500 ml
15	Plate rotor for centrifuge	2	Plate rotor for centrifuge

02. Chemical Engineering

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Sl. No	Item Name	QTY	Specifications
1	2	3	4
1	Emissivity Measurement Apparatus	1	150 diameter, 6 mm thick, brass/aluminum-2nos, heater capacity 250 W, Mica heater, 2 nos, Digital voltmeter, Digital Ammeter 0-10 A, Digital Temperature indicator 0-400 degree C, Dimmer stat 2A, K type Thermocouple
2	Composite Wall Apparatus	1	Slab 200 mm dia, MS 20mm, Hylam 15 mm and wood 10mm with tightening clamp attachment, ms box of 10 by 10 inch in size with glass wool insulation, heater 75 mm dia, mica0250 W
3	Unsteady State Heat Transfer Apparatus	1	test specimen- copper 30mm diameter, 30 mm long with a thermocouple at the center, cooling fan:8" instrument with oil: 20-40 W, digital temperature indicator, thermocouple teflon coated Cr-al k-type 3nos, dimmer stat 230 v, 2A, digital stop watch
4	Elutriator	1	three different column, power-500 W, material metal, motor, rotameter, collection tank, particle collection system. All the pipe connection
5	Interacting and Non- interacting System	1	material-metal, temperature range 40 C, pump, tanks with all the connectivity and valves, rotameter, level indicator, tabletop setup
6	Temperature Control Trainer	1	material-metal, temperature range 50 C, Digital temperature indicator, rotameter, equipment material copper, RTD sensor, thyristor-controlled heater, tabletop setup
7	Time Constant of Manometer	1	Material metal, temperature range 60 C, U-tube manometer pressurized by air, air pressure regulator
8	Leaf Filter	1	Circular leaves with perforated cloth supported in a shell, slurry tank, vacuum pump, level indicator, filtrate collection tank
9	Double Distilled Water Unit	1	(All glass double distillation unit, with built-in-heater, Horizontal Type, Borosil) Dist. Water output Cap : 2lt/hr, Biological Activity : Pyrogen Free, pH : 6.9-7 Conductivity s/cm : <1X10-6, Distillate Temp : 65-75OC, Cold Water Reservoir with pump for circulation of water : 45 X 45 X 45 cm
10	Electric Digital Meter	3	Current: 5 - 30 A, Voltage 240 V, Class 1 as per IS 13779, Frequency 50 Hz
11	Magnetic Stirrer with Heater (Hot Plate)	3	(Auto temperature control), Capacity 2.5 liter, Digital Temperature Display, Temperature range upto 500°C, Magnetic stirrer regulator

12	Heating Mental with Energy Regulator	3	Capacity 0.25 Liter, Temperature range upto 500OC
13	Biomass Pellet making Machine (Diameter 12-13 mm)	1	Material: Hardened SS Cavity: 13mm (1 pcs), 10 mm (1 pcs)
14	Forced draft tray dryer	1	The setup consists of an insulated double wall chamber, inside the chamber tray is attached directly to electronic weighing balance, which is fitted on the top outside the chamber. Material for drying is placed in the tray and regular loss of weight is monitored. Air from blower is passed through heating chamber and is used as drying agent. Arrangement is done to vary air flow rate. Voltage 220 V AC, Power-2.5 kw, Material-Mild steel, Drying chamber size - 20 cm*20cm*25cm, Weighing Balance- Digital 0-1000gm of ± 1 accuracy, Hot air circulation- Forced draft fan arrangement, control panel comprises of digital temperature indicator- 0-200 °C

3. EDUCATION

Sl. No	Item Name	QTY	Specifications
1	2	3	4
1.	Recording device & storage	2 set	एक टीवीक्षमता वाला
2.	Pictures, story books	2 set	कक्षा दसतक के स्तर
3.	Models and charts of brain	2 set	सामान्यसाइज की आकृति
4.	Audiogram sheets	500	A4 साइज
5.	Science models(physics)	2 set	सामान्यसाइज की आकृति
6.	Geographical models, maps	2 set	सामान्यसाइज की आकृति
7.	Software based learning resources	2 set	कहानी की , स्वर का , व्यंजन , कविता आदि की सी.डी./डीवी.डी
8.	linguistic profile test	2 set	श्रवण अक्षम बालको क लिए AYJNISHD Mumbai
9.	peabody pictures vocabulary test	2 set	श्रवण अक्षम बालको क लिए AYJNISHD Mumbai
10.	One set of tuning forks with rubber pad (256HZ, 512HZ, 1024HZ)	2 set	श्रवणएवम् अधिगम अक्षमबालको क लिए
11.	Different types of ear moulds	6 set	श्रवणएवम् अधिगम अक्षमबालको क लिए

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12.	ITC,ITE hearing aids	2 set	श्रवणएवम् अधिगम अक्षमबालको क लिए
13.	Speech trainer (SE 301)	2 set	left only ,Right only and (Left + Right both) Ear, portable speech trainer, Noise -wide Band,narrow band, power output max 300 watt, 2 micro Phone Input,
14.	Oto scope	2 set	impoted model
15.	OFFICE GLASS DOOR ALMIRAH	2	WITH 4 SHELVES
16.	OFFICE TABLE	2	WITH LOCKERS
17.	Software for Language assessment and traning	1 set	FOR HEARING IMPAIRMENT CHILDREN
18.	Software for Speech assessment and Speech (DR Speech Software)	1set	FOR HEARING IMPAIRMENT CHILDREN, assessment and practis
19.	Vibro Tactile aid	2 set	श्रवणअक्षम बालको क लिए AYJNISHD Mumbai
20.	Mirror	2 set	2X3 fit
21.	Stop Watch (Timer, electronic, Digital)	5 PC	
22.	Development Screening Test	3 (1Hindi and 1 English)	Psychology tool
23.	Seguin Form Board Test	2 (1Hindi and 1 English)	Psychology tool
24.	Photo Articulation Test	2 (1Hindi and 1 English)	श्रवण अक्षम बालको क लिए AYJNISHD Mumbai
25.	sound trited chamber for hearing testing With 0.5 tan AC (without Audiometer) (pre-fabricated audiometry chamber)	1 set	Providing and Fixing a dismental type Acoustic wooden panel of size 3.6" X 6' ft.ht. X 3" thick
26.	Draw a man test	4 (2Hindi and 2 English)	Psychology tool
27.	Microscope	2	Adjustable with Intensity Control Regulator. Eyepiece Wide Field Eyepiece Wf 10X/16mm Paired. Viewing Body Binocular Tube, 45 deg Inclined, 360 deg Rotatable with IPD 55-75 mm.

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28.	Magnifying Glass	4	Working Distance: 12 inch from Eye to Lens. Setup: Hand-Held. Detachable and attachable wood handle.
29.	Bunsen burner	4	Heavy Casted Cast Iron Base (Diameter :- 75mm) Tube Material :- Brass chrome plated (length :- 4.72" Diameter :- 12.5mm) Rotatable air regulator
30.	Thermometer	4	Beeper alarm alerts you when the body temperature reading crosses $\geq 37.8^{\circ}\text{C}$. It displays a temperature between 32.0°C - 42.9°C .
31.	Weighing machine	4	Weighing scale with dimensions of 250 mm (length) x 220 mm (breath) x 98 mm (height)
32.	Spring balance weighing scale	4	LED screen display with dimensions 75 mm x 21 mm and digit height of 20 mm of Super Bright Green colour Rechargeable battery with 4000 mA power for immediate use
33.	Dissection Kit	4	Scientific Precision 26 Pcs Advanced Dissection Kit - Premium Quality Stainless Steel Tools for Dissecting Frogs etc - Best for Biology/Anatomy/Botany and Veterinary Students or Teachers with Case
34.	PH test indicator litmus paper	4 unit	The 10 Books per pack (Each book contain 20 Papers). High accuracy pH test paper, pH range from 1-14 The pH 2-10.5 color chart with each book The test strip color changes must be matched with the pH scale color chart within about 15 seconds Can be used to measure pH of water, soap, lemon juice, vinegar, milk, liquid detergent, moisturized soil, saliva, urine, sweat Eco Friendly
35.	Micropipette set	2 set	Volume Range: 10ul Capacity: 10ul, 20ul, 30ul.4ul & 50ul Channel: Single
36.	Glass funnel	4	Material : Glass Size : 3 inch Weight : 400 g Dimension : 15.24 x 12.7 x 10.16 cm
37.	Watch glass	5 piece	Type of Product : Watch Glass Size : 75 mm Material : Boro 3.3 Glass

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38.	Hot plate	1 unit	Features * Laboratory Hot Plate Diameter 200mm Round Shape. * Laboratory Hot Plate Diameter 200mm Round Shape. * Chemical Resistance and Durable Construction
39.	Measuring cylinder	4 unit	glass material, 50 ml, 100 ml, 200ml and 500 ml capacity
40.	Centrifuge Machine	1 unit	Speed , 3800 rpm Number of Tubes , 8 Rotor Capacity , 8x15 ml Maximum RCF , 1450 g
41.	Burettes	2 Units	Generally used in Titration Process. No Need to Lubricate it as PTFE key is Used. Comes with Boroflow with PTFE key that is Highly Resistant to Chemical Attack.
42.	Evaporating Dish	4 unit	Capacity (mL): 90 Maximum outer diameter x height (mm): ϕ 80 x 45 Material: Borosilicate glass Autoclavable
43.	Dissecting Pan Price	4 unit	Material: Stainless Steel Shape: Rectangular Size/Dimension: 8 x 10, 10 x 12 Inch
44.	Petri Dish Cell	4 unit	Material Glass, Size 6 inch Color Transparent, Sterile Shape , Round
45.	Master Console full digital	1 unit	This is the master equipment with which the instructor can control the operation of the Language Lab system. Latest model of lab India's language lab gives simple teacher student interaction through most modern and advanced microprocessor based controls. Features: • Functioned in Microprocessor. • 83 K bytes/second. • 2/3 digit display for student station request indication.For Speaking and listening tool

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46.	wireless intercom system	1 unit	<p>Corded / Cordless Phone with Digital Answering Machine: An expandable phone system that is ideal for home office or small business the KX-TGF353 includes a corded telephone base station with digital answering system and 3 cordless handsets</p> <p>Never Miss Another Call or Message: Having 3 handsets means you can pick up calls more easily; if you miss a call, the Digital Answering System lets you retrieve messages from any handset; up to 17 minutes of record time</p> <p>Block Unwanted Callers: Permanently block up to 250 robocallers, telemarketers, and other unwanted numbers with the touch of a button</p> <p>Talking Caller ID: Customize Caller ID to display and announce your callers so you can know who is calling, even when youre across the room (may require additional phone service); 100-number phonebook for convenient callback</p> <p>Speakerphone Functions that Simplify Your Life: Use the handset and base unit on speakerphone for an intercom system or keep a handset in babys room to use as an audio monitor</p>
47.	Microphone	10 unit	<p>he Set Includes: (1) Condenser Microphone, (1)Adjustable Suspension Scissor Arm Stand, (1)Table Mounting Clamp, (1)Metal Shock Mount, (1)Pop Filter, (1)Ball-type Anti-wind Foam Cap, (1)3.5mm Male to XLR Female Cable. NOTE: Sound Card, 48V Phantom Power, 1/4" to XLR Cable & XLR to XLR Cable are needed to purchase additionally; If you want better sound effect, a sound card should be used; Please use a extra 48V phantom power adapter to connect it (phantom power adapter is not included)</p>
48.	Head Phone	10 unit	<p>Battery: Rockerz 370 offers a playback time of up to 12 hours.. Frequency Response 20Hz-20KHz,Sensitivity (dB) 79dB±3DB,Impedance 32Ω. Driver Type:Moving Coil Driver</p> <p>Bluetooth: It has Bluetooth v5.0 with a range of 10m and is compatible with Android & iOS</p> <p>ANC: NA. No. of Mic: 1. Other Inclusions: Micro USB Charging Cable, Warranty Card, User Manual</p> <p>Lightweight Ergonomic Design with Easy Controls</p> <p>Instant Voice Assistant. Drivers: 40mm Drivers with boAt Signature Sound. Cozy Padded Earcups.</p> <p>Rockerz 370 come equipped with latest Bluetooth v5.0 for instant wireless connectivity. The powerful 300mAh battery provides up to 8 Hours of audio bliss. 40mm</p>

			Dynamic Drivers supply immersive High Definition sound
49.	Multimedia Player and Recorder	2 unit	Key Features 4" Screen with 800 x 480 Resolution Built-in Stereo Speakers Plays Various Media Formats and Codecs A/V Output FM Radio/Recorder Voice Recorder and Line-in Recorder USB Port and Host

04. Forestry Department

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
1	2	3	4
2	Lab Refrigerator	1	Laboratory Refrigerators Forced-air cooling with internal fan for maximum temperature uniformity and stability Automatic defrosting maintains optimum cooling capacity Multiple alarm systems for safe and reliable operation Microprocessor controlled with LED Display CFC Free Countertop Noise: 32-45 dB(A) Uniformity: $\pm 3^{\circ}\text{C}$ Accuracy: $\pm 1^{\circ}\text{C}$ Temperature Range: 2 to 8°
3	Hot Air Oven	1	Hot Air Oven universal (Memmert type) Temperature range- $+50^{\circ}\text{C}$ to 250°C , Inner chamber-Stainless steel , Insulation-Glass Wool, Capacity (Litres) – 45 Ltr Capacity (Litres) – 45 Ltr, double-walled door, Outer body made of CRC Sheet duly powder coated Inner chamber and adjustable trays are made of Stainless Steel (SS-304 grade), Digital Led Display, Internal Dimension (WXDXH) (mm) 355x355x355 Capacity 45 ltrs, No. of Shelves 2 Temperature Range 50°C to 250°C temperature

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4	Surveying Compass And Tripod Stand	4	Surveying Compass And Tripod Stand Surveying Compass 4 “ Dia , with Cover , Aluminum Tripod Stand
5	Turbidity meter (water analysis)	1	Range 0-1000 NTU in Four Ranges, Bench top, Digital LED display, Stainless steel
6	Garmin handheld GPS DEVICE ETrex10	3	Garmin Etrex 10x GPS (Multi-Colored)
7	Electronic Balance	1	Capacity- 0-500 g, Readability - 1mg, Linearity - ± 2 mg
8	Soil Hydrometer	1	Range- 0.995 to 1.030 gms/cc, Smallest division- 0.0005, IS:2720 (Part-IV), IS:3104
9	Sieve Shaker (Table Top Laboratory Sieve Shaker)	1 Set	Dia 200 mm, capacity upto 6 Sieves with Lid and Pan, Measurement Range: 37 μ to 4 mm, Model-VSS-T, Brand-Vinsyst
10	pH-meter (Type-PH70040S)	1	With pH Electrode, ATC Probe, Meter with Integral Electrode Holder
11	Conductivity meter (Type-CON270043S)	1	With 4-Cell Conductivity Probe, RS232 cable
12	Borosil Glass Vacuum Desiccator	2	Desiccators, Vacuum, Stopcock With PTFE Spindle, And Porcelain Plate, Approx ID Ground Flange: 300mm, Product Code-3083045
13	Borosil Vacuum pump	1	Borosil BORO-017 60W Oil Free Vacuum Pump, 100VPN300017, Dimension-272x165x142 mm, Speed-1450 rpm
14	Soil Sampler probe	3	Soil Sampler Probe, Diameter- 100 mm Stainless Steel
15	Soil Corer	1 set	90 cm long corer (incl. crown), 80 mm outer tube diameter.

16	Turbidity / Nephelo meters	1	MICROPROCESSOR TURBIDITY/NEPHELO METERS Ø Display : LED 4 Digits Display, Detector : Photocell/Photodiode, Range : 0 to 20, 200, 1000 NTU/JTU, Automatic Range Selection, Resolution : 1 NTU/JTU, Accuracy : $\pm 1\%FS \pm 1$ digit, Sample System : 30 mm clear Glass Test Tube, Power Supply : 12V/ 500mA External Adopter, Light Source : High Intensity L.E.D. Reflective Lamp of selective Wave Length (To avoid self heating of solution/ Instruments due to Tungsten Lamp causes drift & changes in kinetic properties during measurement), Testing under normal / cooled atmosphere
17	Sieve set	1	TEST SIEVES (FINE SERIES IN 0.6mm, BRASS
18	Magnetic Stirrers	1	MAGNETIC STIRRERS Ø Body is made of CRC sheet powder coated & top platform made of Stainless Steel. Ø A heavy duty PMDC motor imparts a higher initial torque for smooth and vibration free start at lower speeds as well as at higher speeds. Ø Variable Speed of upto 1200 RPM is controlled through a stepless speed controller. Ø Electrical/heat energy is controlled through a energy regulator or Digital Temperature Controller with in built timer & buzzer (option). To work on 220/230 Volts AC Supply. With Hot Plate (Energy Regulator)
19	Dissolved Oxygen Meter	1	DIGITAL DISSOLVED OXYGEN METER Ø Display Dissolved Oxygen : LCD Display 16 x 2 Line Alphanumeric Ø Range : 0 – 20 ppm. Ø Resolution : 0.1 ppm Ø Accuracy : $\pm 0.2\% \pm 1$ digit Ø Temperature Compensation : ATC Ø Temperature Indication : Continuous 0 to 100°C Ø Keyboard : Soft Touch Switches Ø Power Supply : 220 / 230 V + 10% 50 Hz A.C. Ø Complete with D.O. Probe, Temperature Probe, D.O. Membranes 30 Nos., and Manual.
20	Steam Oil Distillation Unit	1	For oil distilation with separating funnel and all accessories

05. MATHEMATICS

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
2		3	4

	Work station	1	ASUS ROG Strix GT35 Intel Core i7 10700KF 10th Gen Gaming Dekstop (32GB RAM/2TB HDD + 512GB NVMe SSD/Windows 10/8GB NVIDIA GeForce RTX 2080 Super/with RGB Keyboard & Mouse/Star Black), G35CZ-IN010T
	Monitor	1	BenQ Gw2780 27 Inch (68.58 cm) Led 1920 x 1080 Pixels Fhd Eye-Care, IPS Monitor, Ultra-Slim Bezel, 60 Hz, Brightness Intelligence, 2Wx2 Speakers, Hdmi, Vga, Display Port, Cable Management (Black)

06. PHARMACY

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
1	Sieve Shaker with sieve set	1	Automation Type: Semi - Automatic, Noise(dB): 50, Frequency: 60 Hertz, Motor Horsepower: 1 horse power, Voltage: 230 Volt, Complete Unit Warranty: 12 month
2	Laminar air flow	1	Size: 4x2x2, complete stainless steel, Hepafilter, Blower, UV Light, Cock for gas
3	Centrifuge	1	Brushless induction motor, Digital display for speed and Time, RPM: 6000
4	Incubator	1	Size: 350x350x350 mm, complete stainless steel, Microprocessor based PID controller
5	Heating mentle	6	Capacity 250ml, particularly useful for Heating inflammable liquids, temperature up to 350 degree c. The body of the mantle is spun one piece from non-rusting Aluminum.
6	Melting point Apparatus	2	Melting point observation up to 350 deg celcius, Controlled by a Energy Regulator, Illuminate the Capillaries & Focusable Magnifier Facilitates in Observations.
7	Electric water bath	1	Size: 300x250x100 mm; capacity: 8 L; temperature 95 deg celcius. 6 holes of 75mm dia.
8	Microwave oven	1	28 L Convection Microwave Oven; Defrost, Control panel lock, Interior light, Self-cleaning, Timer.
9	Filtration Assembly With Oil Free Vacuum Pump	1	Filtration assembly consisting of s.s filter holder with filter support for 47 mm dia and borosilcate glass filtration flask, capacity 1 ltr vacuum pipe, oil free vacuum pump
10	Magnetic stirrer with hot plate	1	Speed: upto 1200 rpm, heat wattage: 300 W, PTFE coated stirring paddle of 9 mm dia and 35 mm length
11	Electronic weighing machine	3	Capacity 1000g, with precision scale of 0.01 g

07. PHYSICS

Sl. No	Item Name	QTY	Specifications
1	0-16 volt power supply	2	No. 1109, 3 pin, shaft length 15 mm
2	0-1k pot potentiometer	10	Channels 2+Ext.Trigger Bandwidth 25MHz Rising time 13.8ns Time base 5ns to 50s/div Real time sample rate 500MSa/s ,Equivalent sample rate 50GSa/s Input impedance 1MW//13pF Input coupling DC, AC, GND Trigger Edge, video, pulse, delay Acquisition modes Auto, normal, single Trigger sources CH1, CH2, Ext, Ext/5, Ext(50W) Horizontal accuracy $\pm 0.01\%$ Vertical sensitivity 2 mV/div to 5V/div Vertical resolution 8bit Max. input voltage 400V(DC+AC peak),5Vrms@50W Auto measurements Vpp, Vamp, Vrms, Vmin, Vtop,Vbase,Vbase,Vavg,Freq,Period,Rise time Fall time,+width,-width,overshoot,preshoot,+duty,-duty,etc Math +-x \div FFT Storage 10waveforms,10 steps FFT Window Hanning, Hamming, Blackman-harris, rectangular Sample points 1024points X-Y Bandwidth 25MHz Phase diff ± 3 degrees Display A/CA: mono/color,320 \times 240 resolution , Power supply Worldwide 100-225 V/40VA Max, Interface USB port Accessories Probe $\times 2$, power cord, user's manual etc.
3	25mhz Digital oscilloscope	3	4mm Banana Plug with Set Screw Connection, 5 Amps, Can be used with up to 18 AWG wire , 1 feet wire connected both end with 4mm banana plug .with crass hole. / Solderless Banana Plug-Hex Design • Material: Banana Plug: nickel-plated brass body; Spring: nickel-plated phosphor bronze; Insulator: ABS • Length: 1.89" (48.1 mm) • *Std. Colors: -0 Black, -2 Red • Rating: up to 5 Amps
4	4mm Banana Plug with Set Screw Connection wire	50	Om Meters MO-65 Round Moving Coil Analog Panel Meter Ammeter range 0 to 15 mA
5	Analog Ammeter (0-15mA)	04	Om Meters MO-65 Round Moving Coil Analog Panel Meter range 0 to 15 V
6	Analog Voltmeter (0-15V)	02	Bread board in front panel give point for taking DC power supply(+ 12)-0-(-12),0- 5 V dc fixed and 0-30V variable dc power supply, digital meter for voltage and current measurement, logic 4 LED indicators, 4 logic level input points and switches for selection of logic 0 and 1. Connecting Schocket and wires User manual Etc.
7	Bread board trainer kit	2	circular aperture of 0.05 mm

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8	Circular aperture size 0.05 mm	5	circular aperture of 0.1 mm
9	Circular aperture size 0.1 mm	5	0-6 Amp
10	Constant current power supply	2	Oscilloscope Probe With Crocodile Clip Connector
11	CRO Probe	06	Grating of 15000 lines per inch
12	Diffraction grating 15000 line per inch	5	For find the viscosity of liquid
13	DIFFRRENT SIZE STEEL BALLS	100	capacitance - $\pm(2.5\% + 5\text{digit})$, Inductance - $\pm(2.0\% + 5\text{digit})$, Resistance - $\pm(0.8\% + 2\text{digit})$, Standard Accessories - Soft Carrying Case, Test Leads, Holster, Manual, Dimension - 185(H) x 93(W) x 35(D)mm
14	Digital LCR meter	2	Able to measurement Direct and alternating voltages from 100 μV ... 1000V, * Direct and alternating currents from 10 μA ... 10.00A, *Resistances from 100mOhm ... 40.00MOhm with zero correction * Capacitance from 1pF... 200.00 μF with zero correction., * Frequencies from 10.00Hz ... 500.0kHz, * Diode measurement and continuity testing, * Transistor testing. Etc.
15	Digital multimeter	8	0-2 Volt, 0-12 Volt
16	Dual power supply	2	Four probe arrangement for Ge. Crystal. <ul style="list-style-type: none"> • Sample: Ge Crystal Mounted. • Oven • Thermometer • Constant Current Power supply with digital accuracy +1%. 1. Four probe arrangement for Ge. Crystal 2 Sample : Ge Crystal Mounted 3 Oven up to 300°C 4 Thermometer 0-300°C 5 Constant Current Power supply Digital Accuracy +1% 6 Load Regulation : 0.03% for no load, Digital 200 mV and 20 mA. 7. Thermometer Temperature Range: 0-300 Degree Celsius 8. Material. Complete experiment manual etc.
17	Four probe Complte setup	1	Freemans Measures Fiber Plastika Measuring Tape, 15 M. tapes have high tensile strength, which can withstand over 2kg (4. 41lbs) of tension. tape is non-conductive, water resistant and easy to clean. Durable winding mechanism ensures long life, trouble free usage and is designed to give accurate measurement.
18	Freemans Measures Fiber Plastika Measuring Tape, 15 Metre	2	Outputs Square wave, sine wave, triangle wave, TTL pulse, positive and negative ramp, pulse and skewed sine wave, AM, and sweep functions. Frequency Ranges 0.1 Hz to 11 MHz, up/down range switchable in eight decade steps Dial Range 1 to 11 calibrated 0.1 to 1 uncalibrated Dial Accuracy $\pm 5\%$ of full scale from 0.1 Hz to 10 MHz 11 MHz setting not less than 11

			<p>MHz (ambient temperature 20° C to 30° C) Pulse and Ramp Frequency 1/10 of dial frequency Pulse and Ramp Aspect Ratio 95:5 Main Output Amplitude Two ranges: 0-20 Vp-p 200 mV to 20 Vp-p (open circuit) 100 mV to 10 Vp-p (50 ohm load) 0-0.2 Vp-p 20 mV to 2 Vp-p (open circuit) 10 mV to 1 Vp-p (50 ohm load) Main Output Impedance 50 ohm ±10%. DC Offset <-1 0 V to >+1 0 V (open circuit) <-5 V to >+5 V (into 50 ohm load) Amplitude Flatness(At 10 kHz, 50 ohm Load) Within ±0.5 dB, 0.1Hz to 110kHz Within ±1.5 dB, to 1.1 MHz, Within ±2.5 dB, to 11 MHz Sine Wave Distortion <1% from 10 Hz to 100 kHz -30 dB at all other frequencies (ambient temperature 20° C to 30° C) Triangle Wave Linearity 0.1 Hz to 100 Hz >or= 99%, 100 kHz to 1 MHz >or= 97% Measured from 10% to 90% of waveform Square Wave Transition Time <or= 25 ns rise/fall time at maximum output into a 50ohm load, Square Wave Aberrations <or=4% peak-to-peak at maximum output into a 50 ohm load Sync TTL Output Rise/Fall Time <25 ns into 50 ohm load VCF (FM) Input A ±10 V signal input shifts frequency >or= 1000:1 up or down with dial set at 0.1 or 11 respectively External Gate Input >or= +2 V gate signal required, not to exceed +15 V fixed 0 degree start phase, Internal Sweep Rate Continuously variable from 0.5 to 50 Hz, Internal Sweep Width Variable from 1:1 to 100:1</p>
19	Function generator	2	
20	Germanium crystal	2	For find the viscosity of liquid
21	GLYCERINE 5 Liter	1	<p>Hall Effect experiment consists of the following: (a) Hall Probe (Ge Crystal); Material: Ge single crystal n or p-type • Resistivity: 8-10 Ωcm. • Contacts: Spring type (solid silver) • Zero-field potential:<1mV (adjustable) • Hall Voltage: 35-60mV/10mA/KG (b) Hall Probe (InAs) Contacts: Soldered Rated Control Current: 4mA Zero Field Potential:<4mV</p>

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			<p>Linearity (0-20KG): $\pm 0.5\%$ or better Hall Voltage: 60-70mV/4mA/KG (i) Digital Microvoltmeter: Range: 0-200mV (Resolution 100μV) Accuracy: $\pm 0.1\%$ of reading ± 1 digit Impedance: 1Mohm Display: 3½ digit, 7segment LED (ii) Constant Current Generator: Current: 0-20mA (Resolution 10μA) Display: 3½ digit, 7segment LED Accuracy: 0.25%; ± 1 digit Load regulation: 0.03% for 0 to full load Line regulation: 0.05% for 10% variation Electromagnet, EMU-75 or EMU-50V Constant Current Power Supply, DPS-175 or DPS-50 Digital Gaussmeter, DGM-102</p>
22	Hall effect setup	1	Hot air oven (Dimensions: 605x605x910 mm, Temperature range: upto 250 C, Materials: Aluminium chamber, Capacity: 325 lt)
23	Hot air oven	1	Hydrogen Discharge Spectrum Tube With Power Supply Operates on: 220V, 50Hz Input Voltage: 220VAC, 50Hz Output Voltage (Without Spectrum Tube): 5000V Output Voltage (With Spectrum Tube): 1000V @ 10mA
24	Hydrogen Discharge Spectrum Tube With Power Supply - Setup	1	Instrument comprises of Two DC IC Regulated Power Supplies 0-15VDC/150mA & 0- 30VDC/150mA. Digital meters for voltage & current measurement. *One UJT 2N2646 mounted behind the panel. *Instrument Fitted in Highly Shockproof Box.4 mm connecting lead wire Schocket's instruction manual etc.
25	I-V Characteristics of UJT.	1	Laser grating 100 /200 /500 lines /mm
26	Laser grating 100+200+500 line/inch	5	supply 20 V, Resistance value 0 to 200 ohm with Digital voltmeter and Ammeter Maximum power transfer theorem consists of Inbuilt fixed DC regulated power supply of 12 V volts. Digital Voltmeter & ammeter are mounted on the front panel. Resistive network is used in the circuit. Provide Different internal and external resistance on the front panel 4mm socket and banana patch cards for connection instruction manual etc.

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27	Maximum Power Transfer Theorem kit	02	The various sensors which is used to measure the temperature are thermocouple, RTD, Thermistor etc. Due to the salient features of thermocouple, it is being widely used in industries. Based on the thermoelectric principle, it senses the temperature of the medium. The two-junction temperature difference is directly proportional to the generated emf, which is a measure of temperature. This unit helps to study the characteristics of thermocouple with and without compensation. Temperature compensation is performed by AD590 temperature sensor. From this compensation technique, anyone can calibrate the thermocouple for desired temperature measurement.
28	Measurement of temperature by Thermocouples and study of transducers like AD590	2	125 Watt, mercury lamp for laboratory purpose
29	Mercury lamp ,125 watt, (mbf-u) for wavelength experiment	2	<ul style="list-style-type: none"> * 30x magnification and rotatable cross line eye piece * Focusing of microscope is through Rack and Pinion * Longitudinal movement of 26 mm is done by rotating the drum provided which reads up to 0.001cm * Complete with optical glass and convex lens inside a metal case <li style="padding-left: 150px;">* sodium vapour lamp , manual etc * Packed in a sturdy wooden box along with all standard accessories
30	Newton Ring experiment apparatus setup	1	Power Meter Is a Compact and an Easy-To-Use Testing Instrument for Optical Fiber Networks, User self calibration function, Comfortable LCD display and optional backlight LCD display supports night operation, Power measurements in dBm or mw and insertion loss in dB. Low battery consumption, Six Calibrated Wavelengths - 850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm wavelengths are provided with wide measurement range from -50 - + 26 dBm;, Versatile Interface Design - The interface is applicably designed for SC, FC, ST connections and standard universal 2.5mm adaptors, making it more suitable for FTTH;

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31	Optical power meter	1	Aluminium Alloy Labappara Plank's Constant Apparatus for Laboratory Planck's constant apparatus is specially designed for determination of Planck's constant and work Function of Materials by Photoelectric Effect. Moreover it is useful to verify Inverse square law of radiation using a photoelectric cell. Planck's Constant Apparatus with build in power supply . And constant workable on 230 volts AC and photo electric cell mounted with separate terminals. With in provided a light source
32	PLANCK'S CONSTANT by using photocell experiment apparatus	1	material - alloy steel, Color: Yellow and Black, Material: Plastic and Sturdy Steel,Jaws and Cutting Edge are Induction Hardened & Tempered,Black phosphate finish anti-rust protected,Anti-rust Protected
33	Plier	2	·Dual variable power supply 0 to 15V @ 500 mA.One 3 ½ digit dual LED meter to read voltage.One 3 ½ digit dual LED meter to read current.Source resistor with three different junction (germanium and silicon diode for experiment) diodes.Model : XL-01PN JUNCTION CHARACTERISTICS TRAINERAn Glass Epoxy PCB is used with green masking. germanium and silicon diode for experiment Set of 4 mm multi patch cords with user manual .etc
34	P-N junction germanium and silicon diode characteristics kit	5	A compact fully solid state instrument produces an intense beam of light at a wavelength 635-670nm for red colour
35	Red Diode Laser with Power Supply	2	SCR Single Phase Half Wave Full Wave Bridge Controlled Rectifier, For Laboratory contains Inbuilt regulated power supply,4 SCR , 2 digital voltmeter, 1 digital mili emitter variable resistances, 4mm socket and banana patch cards for connection instruction manual etc.
36	SCR Single Phase Half Wave Full Wave Bridge Controlled Rectifier, For Laboratory	1	Item Dimensions LxWxH 13.8 x 5.5 x 2.8 Centimeters • Set of 5 Blades - 6.0x8mm, 3.5x0.5mm, Phillips 0, Square Poker, Phillips 1, 1 Extension Rod and handle with Neon Bulb • Made Out of High Grade Steel and Transparent Green Cellulose Acetate Handle • Handle is Made from High Grade C. A. Plastic is Non Flammable and Unaffected by Oil Petrol, Grease and Water

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37	Screw driver set	1	Sincom (sindhu electronics) To study & verify truth table of left, right & programmable shift register using IC7495. Instrument comprises of DC regulated power supply 5VDC/150mA, 4 SPDT switches provided for selecting logic '1' & logic '0', 1Hz moonshot clock pulse, four output indicators, Circuit diagram for IC7495 printed and two switches for serial input & Mode control. Set of connecting lead wire, manual, etc.
38	Shift register and study Serial and parallel shifting of data.	1	35 Watt sodium lamp for laboratory purpose
39	Sodium lamp 35 watt For wavelength of sodium light exp.	2	Power Supply: 110-130V AC / 220-240 V AC Power Consumption: 60W+80W Main fuse: 3.15A Function display: LCD Soldering Iron Voltage: 24V AC Power: 60 W heat up rating 130W Temperature: 160 deg C to 480 deg C Heating element: Ceramic heater DeSoldering Gun Voltage: 24V AC Vacuum Pressure: 600 mm HG Power: 80W Temperature: 160 deg C to 480 deg C, operating manual etc
40	Soldering /desoldering station	1	CROWN GLASS PRISM OF 30X30X30
41	Spectrometer crown glass prism 30*30*30 mm	5	FLINT GLASS PRISM 32X32X32
42	Spectrometer flint glass prism size 32*32*32 mm	5	Time 1/100th sec stopwatch Split/lap time Normal time Hours, Minutes, Seconds, Day, Date, Month. A must for all sport and technical application
43	STOP WATCH	30	On board circuit to verify Super Position theorem with built in DC voltage sources, or operable on power supply of 230 V AC, meters, patch cords and operating manual Power supply unit 9V DC, 5V DC, Plug in board Digital voltmeter -1 Digital Ammeter -2 Connecting leads red & black (each) 6 Variable resistance load module 1 . Resistance modules 10, 22, 50, 75, 100, 150, 220, 560 ohm
44	Super position Theorem kit (Network Theorem kit)	01	0-100C
45	THERMOMETER	10	Thermistor Characteristic Apparatus Instruments Comprises DC regulated power supply 0-10 V dc / 150mA, two digital meters for voltage & current measurement one glass thermistor is kept in oven. Connections of supplies, meters & thermistor brought out at 4mm sockets. also provided with oven with temperature control knob. Instruction user manual etc.

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46	Thermistor Characteristic Apparatus	1	Transistor Characteristics Apparatus with Regulated Power Supply Instruments Comprises of one DC regulated power supply 0-10V DC / 150mA & one 0-1 V DC / 150mA, four digital meters for voltage & current measurement one PNP transistor and one NPN transistor mounted behind the panel.4mm sockets and banana connecting lead wires instruction user manual etc.
47	Transistor characteristics apparatus	1	<ul style="list-style-type: none"> • Inbuilt Fixed DC regulated power supply • Output Voltage : +5VDC • On Board Digital Panel Meter • Digital panel meter for measuring • V1 : Voltage across Resistance R 3 • V2 : Voltage across Tunnel Diode • Potentiometer & Diode • Potentiometer : R1 (Current control) • Tunnel Diode : IN 3717 • High quality bekelite used as front panel of 270mm x 170mm & mounted on light weight shock proof plastic cabinet
48	Tunnel diode charteristics apparatus	2	Popular science apparatus / Variable Rectangular SlitAdjustment for Resolving power of Telescope.S.S adjustable slit with unilateral jaws movement through a micrometer head
49	Variable Rectangular SlitAdjustment for Resolving power of Telescope.S.S adjustable slit with unilateral jaws movement through a micrometer head	5	Variable powers supply 0 to 50 V @ 150 mA. One 3 ½ digit dual LED/digital meter to read voltage rang 0-200 volt dc .One 3 ½ digit dual LED/digital meter to read current range 0-200 mA dc. Source resistor, DIAC (DB3), CHARACTERISTICS TRAINER An Glass Epoxy PCB is used with green masking. Circuit diagram in front of apparatus, Set of 4 mm multi patch cords with user manual etc
50	V-I characteristics of DIAC apparatus	2	Diffractionmeter, Integartor & phase shifter, 50 Hz power unit, solinoid, sample, Pickup-coil, Y Amp, x Amp
51	B-H loop tracer	1	Complete in all respect, Basic Circuit, Permanent Magnet, 50Hz Sweep Unit, Oscilloscope
52	NMR Experiment	1	Maximum Temp 1200 degree C, Kanthal wire high temperature furnace with pid controller, dimension 200mm*200mm*300mm (LWH)
53	High Temperature Muffle furnace	1	Oil drop chamber, arrangements for parallel plate electrodes, CCD camera, power pack to supply continuously, variable voltage in the range 0 – 800 V , digital voltmeter, Time Meter, timing device to measure time
54	Millikans Oil Drop Experiment	1	

08. POLITICAL SCIENCE

Sl. No	Item Name	QTY	Specifications
1	PROJECTOR SCREEN (UHD-3D-4K)	1	8 Feet width x 6 Feet Height ultra HD Projector Screen
2	NIKON DIGITAL Z30 CAMERA WITH KIT	1	4K vedio recording 20.9MP DX- image quality
3	Sony - ICD-UX570F Digital Voice Recorder	1	Audio recorder
4	GeoKraft 12 Inch Educational Laminated Globe	1	Globe
5	AHUJA AWM 520VL Wireless Auxiliary Unidirectional Microphone	2	Mic
6	Map of India, Chhattisgarh, world (HISTORICAL & POLITICAL)	6	MAP
7	Wall/Ceiling Mount kit Projector Stand	1	Wall Projector Stand
8	SONY BRAVIA 125.7 CM (50 INCH.) ULTRA HD 4K SMART TV	1	SMART TV
9	1.5 litre kettle HAVELLS	3	Kettle
10	ZEBRONICS ZEB-BT9500RUCF (TOWER SPEAKER) - 100 WATTS RMS WITH 2 WIRELESS MICS	1	WIRELESS SPEAKER & MICS
11	HEADPHONES WITH MIC Logotech Model: H-151	2	HEADPHONES WITH MIC

09. MBA

Sl. No	Item Name	QTY	Specifications
1	Cordless Collar Mike	4	(AHUJA ABW-400UL UHF MICROPHONE)

2	Amplifier	4	Ahuja AMPLIFIER SSA250M, (PA Systems)
3	Speakers	04 Sets (4 Speaker s each)	Ahuja SCM 15T Speakers
4	Touchpad	4	
5	Cordless mic	4	AHUJA AWM-495V2 WIRELESS MICROPHONE SET OF 2 MICS
6	Sound mixer	1	Ahuja Mixer 9 channel AMX 912

10. Computer Science & Information Technology

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
1	High-Performance Processor	1	Processor
2	High TDP CPU Cooler	1	CPU Cooler
3	TRX40 Mother Board	1	Mother Board
4	ECC RAM	4	RAM
5	GPU	1	GPU

6	PCIe 4.0 NvMe SSD with heat sink	2	SSD
11. CHEMISTRY			
Sl. No	Item Name	QTY	Specifications
1	2	3	5
1	Water bath with thermostat 02 (10 Port)	2	RWB6 1500 W remi Make
2	Ice Maker	1	automatic controlled snowflake ice maker, 20 kg/24 h of ice making capacity and 10 kg of ice storage, Designed with stainless steel housing and sliding access door. Equipped with branded compressor and R290 as refrigerant, air cooling method to provide ice flakes through tap water.
3	Hot Air Oven	1	RDHO 80 Remi Make
4	Melting point Apparatus	2	Melting point observation up to 350 deg celcius, Controlled by a Energy Regulator, Illuminate the Capillaries & Focusable Magnifier Facilitates in Observations.
5	Heating Mantle	6	Capacity 250ml, particularly useful for Heating inflammable liquids, temperature up to 350 degree c. The body of the mantle is spun one piece from non-rusting Aluminum.
6	Ultrasonicator	2	Antech GT Sonic
7	UV-Vis Chamber	1	3 Nos , Short Wave -254nm-1no, Long Wave-365nm, Visible Light, tube size 12" Long
8	Electronic Weighing Balance	2	.001 to 200 gm
9	Graduated Measuring Cylinders	20	10 ml Borosile
10	pH Meter	4	EI Make model -111
11	Conductivity meter	4	Digital Conductivity Meter – alpha 06 EL Make
12	Digital Potentiometer	3	Digital Potentiometer 118 EI Make
13	Double Door frost free Refrigerator (253 liter)	2	Inverter Compressor, Dual Cooling, Frost Free Technology, capacity-253 liter, Power supply 230 volt
14	Water Bath Copper	50	Diameter 5" copper water bath
16	Backmann Thermometer	2	Accuracy 0.0010C lenth 40-50CM
17	F&D PA300 100 W Bluetooth Speaker	1	Power Output(RMS): 100 W, Power Source: AC Adapter, Battery life: 5 hrs Charging time: 8 hrs, Bluetooth Version: 5, Wireless range: 15 m, Wireless music streaming via Bluetooth
19	calorimeter	10	Copper Calorimeter In Wooden Box
20	Digital Photoelectric Colorimeter Type 112	2	Systronics %T & Abs. 1ml Sample volume Display : 3 Digit LED Light source : White LED Eight Optical filters on a turret to cover 400 – 700 nm

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21	Digital Photo Colorimeter	1	Brand Name hitech lab india Number of Items 1 Part Number HT-124
22	Bio Gene Magnetic Stirrer With Hot Plate and Magnetic bar	10	Biotechnologiesinc Maximum Heating Temperature up to 00°C. Highly Polished Stainless Steel Top Plate for Optimum Heat Transfer Housing: MS Powder
23	Double Distilled Water Unit	1	(All glass double distillation unit, with built-in-heater, Horizontal Type, Borosil) Dist. Water output Cap : 2lt/hr, Biological Activity : Pyrogen Free, pH : 6.9-7 Conductivity s/cm : <1X10-6, Distillate Temp : 65-75OC, Cold Water Reservoir with pump for circulation of water : 45 X 45 X 45 cm
24	NaCl Plates (2) for FTIR Liquid Cell for Shimadzu IR Affinity	1	Shimadzu Part Number:201-77160-10
25	7-mm Disc Holder With Rectangular Mount for Basic Solids Pack	1	
26	Filtration Assembly With Oil Free Vacuum Pump	1	Filtration assembly consisting of s.s filter holder with filter support for 47 mm dia and borosilcate glass filtration flask, capacity 1 ltr vacuum pipe, oil free vacuum pump
27	Cordless mic set	1	Ahuja AWM-495V2 Dual Hand Wireless Microphone
28	Mild Steel Laboratory Heating Mantle for Heaters	2	50 ML, 500watt
29	Vortex shaker	2	Variable Speed Controls, capacity Wide Range of Slides, Small Flasks, Bottles & Beakers With Countdown Timer, 0-250 rpm, 220 v
	Turbidity meter (water analysis)	2	Range 0-1000 NTU in Four Ranges, Bench top, Digital LED display, Stainless steel
30	CPU	1	HP 11th gen i5 16 GB Ram
31	Distillation unit Coil	2	horizontal coil for distillation 1500 W
32	Probe Sonicator 20khz 250W	1	Operating Voltage: 230 V,
33	Speaker (Sound system for auditorium)	1	Input Power: 50W or more; Output Power: 50W or more Max. (LF+HF) LF: 35W Max HF: >15W Max; Tone Control: Bass ±5dB at 100Hz, Treble ±5dB at 10kHz; S/N Ratio: 60dB; Digital Player: MP3 player with USB, SD, MMC card reader, Recording function and Bluetooth Input Channel: 2 x Mic 3mV/4.7kΩ, 1 x Aux 100mV/47kΩ, Music 100mV/47kΩ, 2 x Wireless MIC Protections: AC Fuse: 1 Amp. 250V (T 1A L) Speaker: 1x12" Speaker, 1xHF Driver;

			: AC : 220V-240V 50/60Hz, DC : 12V Car Battery (external), 12V 7Ah Rechargeable battery (built-in)
34	SMART TV	1	Sony Bravia or equivalent 139 cm (55 inches) 4K Ultra HD Smart LED Google TV
12. CIVIL ENGINEERING			
<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
1	Concrete Cube mould	30	ISI marked cast iron body Concrete cube mould of size 150 x 150 mm with base plate
2	Mortar Cube mould	15	Cast iron body mortar cube mould of size 70.6 x 70.6 mm
3	Digital weighing Machine	4	Upto 10kg
4	Theodolite Analog	2	1. Direct reading vernier transit theodolite with 10 sec accuracy 2. All models made of full brass/gun-metal body having pure silver circles 3. Shifting tribrach and optical
5	Open Cross staff with stand	12	Material: Mild Steel Feature: Rust Proof Usage: Used as a navigation instrument Type of Instruments: Tool Finishing: Color Coated
6	Nephelometer	3	Display Type: Digital Measure Range: 0-1000 ntu/jtu Usage/Application: Laboratory Accuracy: 0.1
7	pH meter	3	Type: Microcontroller Based, Manual or automatic with ATC probe Display: large, backlit graphic, LCD display, pH Range (pH): -2.00 to 16.00 Accuracy (pH): ±0.01 Corrosion Resistant Temperature Accuracy (Degree C) +- 0.1 Temperature Compensation Range (Degree C): 0 to 100 Resolution (pH) 0.01

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			Operating Humidity: RH in (%) : 80 Operating Temperature (Degree C) : 45
8	Air Quality Monitor (Professional)	1	1)Carbon Dioxide, PM2.5, PM10, Temperature and Humidity Tester 2) Indoor Outdoor Air Pollution Detector 3) w/Audio Alarm Easy Calibration 4)Multi-functional Air Quality Monitor device with Temtop professional-grade laser particle sensor, and carbon dioxide sensor based on NDIR. 5) capable to detect PM2.5, PM10, Particles, CO2, Temperature and Humidity 6) should have Audio alarm, colorful TFT display, ergonomic design, built-in rechargeable large capacity battery Easy understanding user interface-Fahrenheit or Celsius reading supported! 7) safe for Indoor & Outdoor measurement
9	BOD Incubator	1	i)Features available in BOD Incubator:: Toughened glass window,Air circulation fan,Removable tray,Temperature sensor,Door hinges,Door handle with lock & key,PID temperature controller,Analog ampere meter,Pilot lamp,Safety thermostat,On/Off MCB,Refrigeration system,Power cord,Caster wheels,Solid door,Heater,Temperature High/Low Safety alarm ii)Optional Features available in BOD Incubator: Chamber Capacity(in ltr):150-199 Overall length(in mm): 455 millimeter Overall Width(in mm) : 450 millimeter Overall Height(in mm) : 450 millimeter Thickness of sheet (in MM): 0.7 Wire Length(in mtr) 2.0Temperature Range: 5°C to 60°C Temperature Accuracy; ± 0.5°C Temperature Uniformity;± 1°C No. of shelves:2
10	Portable Ultrasonic Flow Meter	1	Capable of Discharge and Velocity measurement Application media: Any liquid Accuracy : ± 1% Linearity : 0.2% Repeatability : 0.2% Medium Temperature : -30 90 C Display : 4 × 16 English LCD display Data Connection : RS-232 Flow rate : 0~±10m/s Medium : Virtually all liquids Build-in Data Logger : 24 K Data can be logged

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			Power Supply : 3 AAA built-in Ni-MH batteries 1.2V Adapter : 90V-260V AC adapter Power Consumption : 1. 5W Case Material : ABS Dimension : 200*93*32MM (Convertor)
11	Level Transmitter with Data Logger	1	The non-vented (absolute) instruments monitor and record changes in water level, pressure, and temperature. Application: Coastal wetland and estuary research, Crest stage gaging, Drilling and well development, Flood and storm surge monitoring and Landfill monitoring Resolution 0.01 Deg C or better Accuracy +/-0.3 Deg C Units of Measure Fahrenheit,Celsius Fastest Logging Rate 1 per second Log Types Linear,Fast Linear,and Event Measurement Current 14 mA typical Battery Type 3.6V lithium Weight 0.37 lb. (170 g) Length 5.68 in. (14.43 cm) Diameter 1.03 in. (2.62 cm)
12	Digital Depth Micrometer	2	Accuracy: 0.01 mm, Range 0-500 mm
13	Pycnometer bottle	10	1000ml, Glasss Boro 3.3, Metal -Brass & glass, As Per IS 2386(P-III)
14	Sand Replacement apparatus (set)- Field Density Method	6	Calibrating container, Sand pouring cylinder, Metal with hole, IS2720(PartXXIX)
15	Density Bottle	6	100 ml , IS 2720 Part-I
16	Measuring Cylinder	6	100 ml ,Borosilicate Glass graduated cylinder
17	Measuring Cylinder	6	1000ml, Borosilicate glass graduated cylinder
18	Core Cutter Moulds (Only)	4	Stainless steel,127.3 mm long &100mm internal diameter,Steel dolly 25 mm high
19	Standard Proctor Test Moulds (Only)	4	Stainless steel,internal dia 101.6 ± 0.4 mm ,944.0 ± 14 g vol, 6.8 kg with collar 2.54 cm and base plate
20	Asphalt Mixing/Mixture	1	VerticalCapacity - 20 lt Temperature range - Room temp to 200+/-0.5 C Timer - 0-999 sec Speed of blade - Revolution 42-48 rpm Rotation 70-75 rpm VerticalHeating Power - 3 kW Testing environment - 10 to 40 C &< 80 % RH Power - 415V, 50Hz, 10A, 3ph

21	Heating Metal	2	Size- 50ml, 500ml, 1000ml-20ltr, standard Phase-Single , Speed- 0-1400 rpm, Display-Digital, Heater Type- Thermal Fluid Heater, Power Rating- 150W-6000W, Maximum Temp. Capacity- 400 C
22	Mould for Marshall stability (100mm dia.)	4	Mild Steel

13. ECE

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
<i>1</i>	<i>2</i>	<i>3</i>	
1	Communication Lab Trainer Kits	1	Universal Communication Board DSB/SSB AM Transmitter & DSB/SSB AM Receiver FM Modulation and Demodulation Module Fiber optic module PAM/PWM/PPM/TDM Module TDM Pulse code modulation and Demodulation Module Line Coding & Decoding module ASK/PSK/FSK/QPSK Mod & Demod Module Delta modulation & Demodulation module FDM Modulation/Demodulation Module
2	FPGA Kit	1	Basys 3FPGA Kit DEO-Nono FPGA EVAL Board
3	Analog Electronics Kit	1	To test single stage CS amplifier using FET To test single stage amplifier using BJT Feedback Amplifier CE/CB/CC Amplifier H parameters Kit
4	Anderson's Bridge Trainer	1	Anderson's Bridge Trainer
5	Maxwell Bridge Trainer	1	Maxwell Bridge Trainer
6	OWEN'S BRIDGE	1	OWEN'S BRIDGE
7	Hay's Bridge Trainer	1	Hay's Bridge Trainer
8	Wein Bridge Trainer	1	Wein Bridge Trainer
9	Desauty Bridge Trainer	1	Desauty Bridge Trainer
10	Schering Bridge Trainer	1	Schering Bridge Trainer
11	WEIN'S FREQUENCY BRIDGE	1	WEIN'S FREQUENCY BRIDGE

12	SMA connectors	10	SMA connectors for Microwave PCB Mount/ Male/Female (double layer) design circuits up to 30GHz. 1. straight (Female) 2. L shaped (Female)
13	Rogers RT/duroid® 5870 /5880	1	Rogers RT/duroid® 5870 /5880 High Frequency Laminates with substrate thickness 0.787mm with permittivity =2.2
14	Precision 7820 Tower Workstation	1	Intel® Xeon® Silver 4208 (11 MB cache, 8 cores, 16 threads, 2.10 GHz to 3.20 GHz Turbo, 85 W) Windows 11 Pro for Workstations (6 cores plus), English, French, Spanish
15	Local Area network training system	1	Local Area network training system
16	Wi-Fi data communication Trainer Kit	1	Wi-Fi data communication Trainer Kit

14. WORKSHOP (IT)

Sl. No	Item Name	QTY	Specifications
1	Gas Welding Setup	1	Full Oxygen Cylinder - High Seamless full cylinder, water capacity :40/47 litres, Gas capacity 6/7cm ³ ,fitted with valve as per IS:3224 and protection cap.
		1	Full Acetylene Cylinder - Water capacity 40/41 litres, Gas capacity : 6/623cm ³ fitted with valve as per IS: 3224 and protection cap.
		1	Oxygen Regulators - Two stage acetylene regulator conforming IS: 6901-1981, Max. pressure 2kg/cm ³
		1	Acetylene Regulators - Two stage acetylene regulator conforming IS: 6901-1981, Max. pressure 1kg/cm ³
		1	High pressure blow pipe cum cutting and weldingTorch. 6Tip sizes , upto 10 mm Thickness.
		10 Meter	Rubber Hoses - Dia. 8mm ISI, Length 10m.
		6	Hoses clips
		1	Cylinder Trolley with rubber tyre oxy- acetylene cylinder.
		2	Cylinder key
		50	Safety Goggles and Helmate
		50	Leather hand gloves
		2	Spark lighters
50	Leather Apron		

2	Spot Welding Machine with Timer	1	Type of Product - Spot Welding Machine. Input Voltage - 10 KVA, Model No. 10K-SWT, Phase - Single/Double, Bross Rod Size - 1 1/4 Inchx18 inch
3	Heavy duty for carpentry	10	Jaw opening - 8 Inch/13 Inch, Jaw width - 150-225mm
4	Fitting Table with vice	8	height - 2feet 10inch (34 inch), length - 7 feet, width- 4 feet, thickness of legs (paya) - 6x6 inch, material - wooden (sal tree)

15. MECHANICAL ENGINEERING

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
1	Mild Steel Electronically controlled Magnetic Stirrers	2	Make: ALCON, Product available on GEM site. Magnetic stirrer with temperature control and 2000 ml stirring capacity
2	Vacuum Oven	1	Make: LABLINE, Product available on GEM site. Maximum temperature is 200 celcius with 20 L capacity
3	Ultrasonic probe Sonicator	1	Make: LABMAN, Product available on GEM site, Power 650 W with real time display of Processing time ,Pulse on/off time ,Temperature ,Energy input/output
4	Computerized Pin and Disc Wear Testing Machine	1	WEAR TESTING MACHINE (PIN ON DISC TYPE) Product available on GEM site, Normal load range - Up to 200N , Frictional force range - Up to 200N with a resolution of 1N with tare facility,Disc speed - 100 to 2000 rpm

16. LIBRARY SCIENCE

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
2	Printer Scanner with Photocopy	2	HP Laserjet Pro M128fn All-in-One Monochrome Printer
3	Epson Smart Projector	2	Epson EB-E01 XGA Projector Brightness: 3300lm with HDMI Port
4	UPS power Supply	10	ZEBRONICS Zeb-U725 600VA UPS for Desktop/PC/Computers (not for Routers) with Automatic Voltage Regulation, Black
5	TP Link 24 port (Switch Ethernet Connection	2	TP-Link 8 Port Gigabit Switch Easy Smart Managed Plug & Play Desktop/Wall-Mount Sturdy Metal w/Shielded Ports Support QoS, Vlan, IGMP and LAG (TL-SG108E)

6	Routers (Wi-Fi)	3	TP-link N300 WiFi Wireless Router TL-WR845N 300Mbps Wi-Fi Speed Three 5dBi high gain Antennas IPv6 Compatible AP/RE/WISP Mode Parental Control Guest Network
7	Smart Monitor	3	Samsung 32-inch(80cm) Odyssey G7 Gaming, 240 Hz, 1ms, 2K, Curved Monitor, HAS, WQHD, QLED, HDR600, G-Sync Compatible, 2560 x 1440 Pixels (LC32G75TQSWXXL, Black)
8	Wireless Mouse & keyboard	2	HP USB Wireless Spill Resistance Keyboard and Mouse Combo with 10m Working Range 2.4G Wireless Technology / 3 Years Warranty (4SC12PA), Black
9	Book dryer	2	IKONIC BLAZE BLACK HAIR DRYER - 1800 WATTS
10	Wall watch	2	Ajanta Quartz Digital Red LED Rectangle Wall Clock OLC - 105 (39.6 cm x 29.6 cm x 3.5 cm)
11	Computer System	2	Electrobot Gaming Tower PC AMD Radeon Graphics Windows AMD Ryzen 5 5600G/ 16GB 8x2 DDR4 Ram/ B550 Chipset Motherboard/ 1TB HDD/ 250GB SSD/ 600 Watt PSU (Black)

17. FORENSIC SCIENCE

Sl. No	Item Name	QTY	Specifications
1	UV-Visible Double Beam Spectrophotometer	1	Cell Holder- sample and refrence cuvette holder (10mm each), Band Width- 1nm, double beam(12 lines/mm grating), wavelength range-190nm-1100nm, scanning speed-Fast, medium and low, wavelength accuracy- ±0.3nm, Photometric accuracy- ±0.3%, Photometric Range--0.3-3A,0-200%T, 0-9999C, Lamps-D2 lamp and Tungsten halogen lamp (W lamp), Detector - Silicon Photodiode, Power supply-AC 220V/50Hz, Display-LCD, UV analysis software with quartz cuvette-10mm (4)
2	Bright Field Compound Trinocular Microscope with camera and Accessories	1	Optical System: CCIS Color Corrected Plan Infinity Optical System, Eyepiece: Wide field high eye point Eyepieces 10x/20, with diopter adjustment, on Both Eye Pieces IPD55-75mm, Prism incorporated, Nose piece: Reversed Quadruple revolving nose piece, Objective: Anti Fungus CCIS Infinity Plan Achromatic objective CCIS Infinity Plan Achromatic ObjectivesPL4x/0.10W.D.15, 5CCIS InfinityPlan Achromatic Objectives PL 10x/0.25W.D. 7, CCIS Infinity Plan Achromatic Objectives PL 40x S/0.65 W.D. 0.71. CCIS Infinity Plan Achromatic Objectives PL 100x S Oil/1.25 W.D.0.14., Frame: Ergonomic

			<p>High Rigidity Frame, Observation Tube: Wide field Trinocular tube Viewing Angle 30deg, 360 deg. rotation with Interpupillary distance 55-75mm, Stage: Both side Reckless stage 140 x 135mm hard coated surface and slide holder which enables consistent sample movement in x-y direction across a 76x50mm range, Course and find Focusing: Brass gears Z-Axis movement 25 mm stroke Fine focuses with 2µm minimum increment, Coarse focus with torque adjustment., Condenser: Focusable Abbe condenser N.A.1.25 with iris Diaphragm., Illumination: Built-in 3W LED Illumination with intensity Control with bulb life span of 60,000 hours.</p> <p>Accessories: Immersion oil (5ml), power cord, Allen Hexagonal key, vinyl dust cover. Power Supply: Universal Power Supply 100W-240V., Mount Adopter: 0.5X C-mount camera adapter for 1/2.8" chip sensors. Dedicated Scientific 5 Megapixel Digital camera. Attachable digital microscopy camera 5MP Live Display Mode through USB : 2592x1944, 2048x1536,1920x1080 pixels Max fps : 2592x1944 @ 30fps,2048x1536 @ 30fps, 1920x1080 @ 30fps ,Sensor : 1/2.8" CMOS Pixel size : 2x2µm , Focusable Macro Lens, Motic 4-dot calibration slide ,30mm and 38mm centerable eyepiece adapters Macro Viewing Tube , Connect for Win and OSX (Download only), Images processing for PC and MAC , Advance Image Analysis software, Compatible computer should be supplied for smooth running of camera software</p>
3	Tissue Homogenizer and emulsifier	1	<p>Medium duty high speed Emulsifier with 1/8 Motor, Digital Speed Indicator & transformer speed regulator, Stirling Shaft-length-275mm, width-8mm, Impeller-Tflon Pestle, Motor- AC/DC-1/8 HP, Speed-300-8000 RPM, Stirring capacity- upto 100 ml, Digital Speed indicator, Homogenizing cup with rod- 5 ml -10ml Capacity, 50-100ml capacity</p>
4	Complete Fingerprint Taking Kit with with Workstation	1	<p>Kit including Printing Slab, Fingerprint ink and roller, Fingerprint Ridge builder etc.</p>
5	Latent Fingerprint Developer kit	1	<p>Kit including Regular fingerprint powder, magnetic powder, fluroscent powder with ostricsh/camel featured brush/magnetic brush and magnifier with illumination etc.</p>
6	Crime scene Cordoning/Protection kit	1	<p>Crime scene Protecting Plastiic Barrier, Crime scene protection Barricating tape, marking flags, with mannequin</p>

7	Forensic Manniquins	3	Adult Male, Adult female, and child
8	Forensic Anthropology kit	1	Kit Including pelvis (M, F), Human Skull(M, F), Femur(M,F) bones and Real Human Skeleton
9	LCD Digital USB Microscope	1	HD screen, circuit Board repair ,12mp video camera Microscopr, adjustable light, 1-1200X Magnification
10	Rotary Vacuum Film Evaporator (Digital Temp with Vertical Condenser & capacity up to 1 ltr)	1	Rotation Speed : 20 – 280 RPM, DISPLAY: Temp, Temperature: Ambient to 180°C (± 2°C), Bath Capacity: 4 Ltr., Power: 220/230 V AC, 50Hz, Dimension (MM): 815 X 408 X 890 (L x B x H), Micro Processor based Controls, Programable Temperature Controls, Condenser Double Coil with S-35 Ball Joint, Flask (1 liters) with S-35 Cup joints, Boiling Flask 800 ml with 24/29 Socket condense
11	Hot plate for metal digestion	4	Size- 18"X24", Heating Area- 18"X24", Shape- Square or rectangular Power supply-250 V-50Hz, Material Grade- Steel, DIGITAL AND THERMOSTAT , working temprature - upto 400 °C
12	Environmental Tester PM-2.5-10 Detector	3	Electrical - Gas Type:Formaldehyde - With LCD Screen , The range of PM2.5 detection:0-999.9µg/m³The resolution of PM2.5:0.1µg/m³The resolution of PM10 detection:0-999.9µg/m³.The resolution of PM10:0.1µg/m³The minimum of particle diameter:0.3µm - Display:Dot matrix LCDBattery Type:3.6V NI-MH battery,Transducer: Electrochemical sensor Working Temperature Range: 5-45°C Barometric Pressure: 1 BP Input: AC 100-240V/50/60HZ0.15A Rated Output Voltage: 9V Rated Output Current: 2.0A, Formaldehyde: 0-7.5mg/m3 Resolution: 0.01mg/m3 5% PM2.5: 0-999.9µg/m3 Resolution: 0.1µg/m3
13	Double Door frost free Refrigerator (253 liter)	1	Inverter Compressor, Dual Cooling, Frost Free Technology, capacity-253 liter, Power supply 230 volt
18. ZOOLOGY			
Sl. No	Item Name	QTY	Specifications
1	2	3	4
1	Multichannel pipettes (2 Sets)	1	<ul style="list-style-type: none"> • 8 channel 50-300 µl • Test volume 10 µl, accuracy 99.3% • Test volume 5 µl, accuracy 99% Test volume 1 µl, accuracy 98.5 %

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2	Vacuum Pump	1	<ul style="list-style-type: none"> • Power 220V50Hz • Max power 60W • Max current 0.32A • Max pressure -600 mm Hg <p>Motor rotation 1450RPM</p>
3	Vertical gel electrophoresis	1	<ul style="list-style-type: none"> • Material Acrylic • Unit Dimension (LxBxH) 16x20x15 cm • Max Sample capacity 14 • Glass plates 2 sets • Platinum electrode 1 pair <p>Connecting cord 1 each</p>
4	Water bath	2 sets	<ul style="list-style-type: none"> • Temp range 10-100 degree C • Accuracy 0.1 degree C <p>Stainless steel inner chamber</p>
5	<u>ELISA READER, Filter Based Plate Reader</u>	1	<p><u>ELISA READER, Filter Based Plate Reader:</u></p> <ul style="list-style-type: none"> • Filter based ELISA reader with halogen lamp as light source and single channel optics / single detector with silicon photo detectors for reliable results. • Halogen Lamp should have minimum usage option, i.e. it's should get 'on' while reading and should be 'off' mode even the instrument is on standby mode. • Should be compatible to wavelength range from 340 to 850nm, which must for various ELISA applications. • Should have easy access 8 position filter wheel. • Instrument should be supplied with 3 standard filters of 405nm, 450nm and 620nm. • Should have automatic calibration and self diagnostics of any possible error in optical alignment before each program reading. • Should able to read 96 well format microwell plate in 6 seconds. • The instrument should run in stand-alone mode OR with computer & software controlled. • Internal software (standalone mode) should have all the basic application related to ELISA like quality control, qualitative classification, standard graph etc. • Computer software should be supplied with unlimited user licenses and should have reading as well as data analysis option including standard curve fit, qualitative classifications, quality control etc.

			<ul style="list-style-type: none"> • System should be able to run in stand-alone mode using 4.5 inch color display and keypad. • The instrument should have a memory of 99 inbuilt protocols in stand-alone mode and 100 result memory . • The instrument should have 2 USB ports, one for the easy data transfer and another to connect printer directly to the unit. • System should have USB port for external printer connectivity option for the data printout. • Instrument should be either CE mark or Europe regulations, authorized certificate from notified body should be submitted. <p><u>Data Analysis Software:</u></p> <ul style="list-style-type: none"> • Software should have option for area selection. i.e different protocols at different area of the same plate. • Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer). • Single software program should allow any number of measurement steps within the program. • Data should be able to export in formats such as excel, pdf , xml, or note . • Suitable computer system with license windows and desk jet printer should be quoted separately. • 2 KVA online UPS with 30 mins back should be quoted separately. • Warranty of One year against any manufacturing defects.
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19. Department of Botany

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
1	Student Microscope	20	Horse shoe base, fixed eye piece tube, rack and pinion motion, square stage 110x100mm triplerevolving nosepiece, 10x and 45x, eye piece 10x,4x objective 10x eyepiece 15x
2	Dissecting Microscope	20	Heavy round base, Conclave mirror, optics - 10x, 20x eye piece

3	Ice Creeker	1	automatic controlled snowflake ice maker, 20 kg/24 h of ice making capacity and 10 kg of ice storage, Designed with stainless steel housing and sliding access door. Equipped with branded compressor and R290 as refrigerant, air cooling method to provide ice flakes through tap water.
4	Table top Cooling Centrifuge	1	Speed Range: up to 17,500 rpm, Maximum RCF: 30,130 x g, Capacity: up to 24 - 1.5/2 ml Tubes, Refrigerated: YES
5	Essantial oil distilation unit	1	1000ml Essential Oil Distillation Apparatus with Graham Condenser + Hot Stove + Essential Oil Separator Lab Glass Distillation Kit Steam Water Distiller Purifier (1000ml)
6	Mixer and Grinder	1	1000watt, 3 jar 1500 or more RPM
7	High Resolution Digital Endoscope microscope	1	magination power 100 to 200x, resolution 5Megapixil or more illuminated,
8	Rotary vacuum Evaporator	1	Evaporating Flask: 500, 1000, 2000ml,Rotation Speed: 10-280rpm, Temperature Range: Room temp+5°C ~95°C, Evaporating Speed: 23.5ml/min (Water)Evaporating Speed: 23.5ml/min (Water)

20. Rural Technology and Social Development, GGV, Bilaspur

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
1	2	3	5
2	2 in 1 Grafting Tools Pruner Kit	4	Stainless steel shear blades, high-strength ABS plastic with SK5 double-edged cutting blades, 3 Razor sharp grafting blades (Ω / U / V Shaped Cuts) for precise and clean cutting, Pruning blade 1/8" Thick.
3	Hand Weeder/Multi Star Culti-Weeder with Handle	6	Hardened and Tempered Contoured Blade, MS Powder coated body, Hardened and Tempered Spring Steel Blade, Flexible handle stay for forward and backward operation.
4	pH Meter	1	pH range -2.00 to 19.999 Resolution 0.1/ 0.01/ 0.001, pH Relative Accuracy +/- 0.002, pH Slope 3 points 80% to 120%, 5 points 90% to 105% , Sensor Combination pH electrode Calibration Auto-calibration, Resolution +/- 0.1 mV Relative accuracy +/- 0.2 mV , Temperature Temperature range 0 to 100°C , Relative accuracy =+/-0.2 °C.
5	Microwave Oven	1	Capacity- 20L, 1 Year on product and 4 years on Magnetron (From the date of Purchase), Glass Tray, Rotating Ring, Owner Manual+Recipe Manualy, Quartz Heater with I-Wave Technology and Anti Bacterial cavity, 700 Watt Power Levels 5, Outer Material, Glass and Stainless Steel, Turntable Diameter

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			245 mm, Inner Material Stainless Steel, Depth 32 cm, Height 25.2 cm Width 45.5 cm, Colour Black
6	ELISA reader	1	<p>OPTICAL SYSTEM Optics 8 Channel, Light Source LED, Filter Wheel 6 positions (2 optional) Wavelength Range 400 - 670 nm, Filters 405, 450, 492 and 630nm; Measurements From 0.0 to 3.5A, Bandwidth 8nm</p> <p>ABSORBANCE Dynamic range 0 to 3.5 OD, Resolution 0.001 OD Monochromatic Reading time 96 wells 10 seconds Bichromatic readings Reading time 20 seconds OD Accuracy <1% at 2.5 OD OD Linearity <1% at 2.5 OD OD Repeatability <1% at 2.5</p> <p>INTERFACE Screen Graphic LCD 240x128 pixels Keyboard Tactile Soft – Touch Printer Built-in 57mm thermal printer External Printer</p> <p>MEMORY Storage USB Pen Drive, 100 user-programmable Tests</p> <p>MICROPLATE TYPES 96-well Reader Control Software and Data Analysis for raw data ABS OD, Cutoff and Multi standard up to 10 calibrators Voltage 100-220 V AC 50 - 60 Hz, Temperature 10° to 40° C.</p>
7	Centrifuge	1	Microprocessor based digital centrifuge machine, 8000 RPM with programmable speed controller. Bench top, Digital timer, 8 tubeX15ml with roter head
8	Drill machine (Professional)	1	Drill capacity in steel, concrete, wood, Dimension 262x69x180 mm, constant power in reverse and forward rotation, Power 220-230 V, Chuck Tightening with Key
9	Solar Dryer	1	Semi automatic, Dryer capacit 10 kg, Temp 65-75 °C, Solar box type dryer 4feet by 5feet, 2 solar fan, 2 ms net tray with clear nalli sheet, Paper sheet reflector, Maximum temperature 60 to 65%
10	Wheel Barrow for garden	2	Material: Steel, Dimensions: 36x18x18 Inch, Wheel Size: 10x2, No. Of Wheels: 2
11	Microtome	1	material stainlesssteel, Thikness: 1-50 micron, Knife length standard: 120mm, Object feed & operation; manual, Max Speciman size: 32mm (Section), blade holder

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13	Digital hot plate	1	Laboratory Hot Plate Rectangular completes stainless steel body and top plate with Digital PID Temperature control, Size 12" x 18".
14	Double distillation unit (Table top, 4l/h output)	1	Table top horizontal model, Material borosilicate, automatic, double distillation output 4liter per hour, Unit come mounted on powder coated metal stand , Quartz glass based heater tube, Presence of low water cut off device for operations safety, Comes complete with glass parts, Electric supply support of 220/230v ac, 50/ 60hz
15	Water bath	1	Thermostatic Serological Water Bath, 6 Rack, stainless steel, Temp range up to 100° C
16	Vortex sheker	1	Variable Speed Controls, capacity Wide Range of Slides, Small Flasks, Bottles & Beakers With Countdown Timer, 0-250 rpm, 220 v
17	Magnetic stirer	1	Magnetic Stirrer With Hot Plate and rotor, with magnetic stir bar, Teflon coated, 220v
18	Colony counter (digital)	1	Microprocessor Colony Counter, Display: 3 Digit, 7-Seg. LED Counts, 6 soft touch membrane keys, Count correction facility available to cancel the unwanted count, Storage: 100 Result-Count storage, (even if the instrument is switched off), Average: Average mode facility available, Dish Size: 110 mm Magnification: x 1.7 Surface Magnification, Power: 230 V ± 10% AC, 50 Hz, Dimensions (L x B x H): 225x250x280 mm, Accessories: Marking Pen, Magnifying Lens, Lens Holder, Operation Manual and Dust Cover
19	Harvesto Digital Soil Testing Kit	1	Tests 14 parameters of soil, Recommends crop-specific fertiliser dose, Mobile connectivity via Bluetooth, Computer connectivity via USB, In-built thermal printer, Test of Organic Carbon (OC), Available Nitrogen (N), Available Phosphorus (P), Available Potassium (K), Available Zinc (Zn), Available Sulphur (S), Available Boron (B), Available Copper (Cu), Available Iron (Fe), Available Manganese (Mn), Electrical Conductivity (EC), pH, Lime requirement test for Acidic Soil, Gypsum requirement test for alkaline soil
20	Micropipetes	5	Adjustable Micropipette (1-10µl, 5-50µl, 10-100µl, 20-200µl, 100-1000µl), Universal Tipcone – compatible with most internationally accepted tips, Fully autoclavable at 20° C, 15psi. for 10 – 15 mins, Multi color
21	Water analyser	1	The advantages of the pH/EC/TDS/Salinity Meter (PETS) 372:Measurement of pH, mV, EC (Electrolyte Conductivity), TDS and Salinity are possible, pH, EC ,

			TDS or Salinity (Any of one at a time) parameters displayed along with temperature of sample
21. PHYSICAL EDUCATION			
Sl. No	Item Name	QTY	Specifications
1	2	3	4
1	Sit and Reach Flexibility tester	2	Brand- Anand Agencies, Made in India , Type- Metal Box
2	Electronic Grip Dynamometer	3	Brand- Anand Agencies, Made in India , Type- Metal Box
3	Two Hand Coordination test Pencil tracing	1	Brand- Anand Agencies, Made in India , Type- Metal Box
4	Peterson Rational Learning Test	1	Brand- Anand Agencies, Made in India
5	Hand and Foot RT appratus Electronic Microprocessor based	1	Brand- Anand Agencies, Made in India
6	Tachistoscope Electronic	1	Brand - Adarsh International, Ambala
7	Whole body Reaction Timer	1	Brand- Anand Agencies, Made in India
8	Bushnell Speed Gun	2	Brand- Bushnell
9	Sony RX10 MK4 Camera	1	Brand- Sony RX10 MK4 Camera is HSV and captures 1000 FPS
10	1 Tripod	1	Brand - Sony (2 meters height with leveller)
11	Digital Pocket Stopwatch	7	Brand - RS PRO (Black Digital Pocket Stopwatch 9 h 59 min 59.99 s)
12	Hercules Fitness EL 10 Cross Trainer	1	Brand - Hercules Fitness (EL 10 Elliptical Trainer, Silver Gray 2015)
13	Weights	16	Brand - Grand slam Fitness (Black rubberized hex dumbbells) 1 kg - 4 pair(8 dumbbells) 2 kg - 4 pairs (8 dumbbells)
14	Dumbbells stag/ weight rack	1	plastic material
15	Medicine balls	5	Brand - Cougar (High Grip Rubber Moulded Medicine Ball Without Handle), (2 KG, Orange)
16	Medicine balls	5	Brand -Cougar (High Grip Rubber Moulded Medicine Ball Without Handle), (5 KG, Black)
17	Kettle bells	5	JIMWALT The Indian Made Premium Half Coated Vinyl cast Iron Kettlebells - 2Kg
18	Kettle bells	5	JIMWALT The Indian Made Premium Half Coated Vinyl cast Iron Kettlebells - 4 Kg

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19	Depth Perception apparatus	1	The box with 3 needles provides enough room for studying the depth perception with electric bulb
20	Mirror Drawing Apparatus	1	Size 15"x12"x3/4" folding type. Plywood surface with hard plastic base to assure smooth movement of the stylus upon which the metallic pattern is fixed. For the electrical operation, over all body is of plywood. (a) Electrically operated (b) Electrically With 6 Digits error counter (c) Electrically operated with cover (d) Electronics with digital timer & Counter.
21	Digital Metronome	2	Electronic Metronome
22	International Stepping Test	4	Material- Metal, with different heights for stepping
23	Sports Competitive anxiety test Questionnaire	1	By Marten (1990)
24	Eysenck Personality Inventory	1	By H.J. Eysenck and Sybil B.G. Eysenck
25	Emotional Intelligence Test Questionnaire	1	Dr. Rakesh Pandey (in Hindi/English)
26	Sportsman Spirit Questionnaire	1	L.N.Dubey (1988)
27	Self Confidence Inventory	1	By Pandey (1983)
28	Aggression Questionnaire	1	By Dr. G.C. Pati (in Hindi/English)
29	Jodhpur multiple personality inventory	1	Personality Questionnaire part 1, part 2, part 3
30	The need for achievement motivational scale	1	Prof. Aradhana Singh
31	Self Evaluation Scale	1	Prof. R R Tripathi

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32	Visual Space Perception Apparatus	1	Consists of well polished wooden box (size : 30"x12"x19"). Having two fixed up lights and a third movable one with slides in the box perpendicular to the plane formed by the two fixed uprights. A fixed scale on top of the box enables one to find errors. The inside of the box is illuminated by means of two lamps. Viewing slit is provided on the smaller end.
33	Mental Fatigue Test	1	By N.K. Jain. Both in Hindi/English
34	Educational Psychology Achievement Test (EPAT-I)	1	By Dr. Kalpalata Pandey & Dr. Meena Srivastava.
35	Multi Variable Personality Questionnaire	1	By Prof. A.P. Singh & Dr. Pestonjee (1980, Hindi)
36	Family Involvement Inventory	1	By Prof. A.P. Singh & Dr. Pramila Tiwari. (2012)
37	Life Satisfaction Scale	1	By Prof. A.P. Singh & Dr. Pramila Tiwari. (2003)
38	Hindi PEN Inventory	1	By Dr. D.K. Menon and Dr. S.K. Verma
39	Eye Hand Co-ordination Test	1	By Drever & Collins Model
40	Mental Toughness Questionnaire	1	By Tiwari (2007)

22. DEPARTMENT OF INFORMATION TECHNOLOGY

<i>Sl. No</i>	<i>Item Name</i>	<i>QTY</i>	<i>Specifications</i>
1	2	3	4
1	31.5 Inch WQHD Monitor With Display Port	1	Acer EB321HQU 31.5 inch WQHD with Display Port (or Similar QHD or WQHD Monitor with Display port)
2	2KVA UPS with External Battery (4) Pack	1	Schneider 2 KVA Single Phase online UPS with External Battery Pack
3	Windows 11 Pro	1	Microsoft Windows 11 pro Operating System (Genuine License)
3	Drone Camera with Propeller Guard	1	DJI Phantom 4 Advanced Drone camera 20MP 1 inch CMOS sensor with enhanced battery life and Propeller Guard.

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4	IOTIF kit with Accessories	4	Robocraze IOTIF Kit with Accessories 4GB RAM 32GB SD Card
5	IoT Starter Kit	5	Bolt IoT Starter Kit with wifi
6	Robotics and Arduino Training with Hardware Kit	2	Bolt Robotics and Arduino Training with Hardware Kit and Accessories
7	Smart Home and Garden Kit	2	Bolt Smart Home and Garden Kit with wifi
8	WINGZ Multiprotocol Gateway	1	CDAC WINGZ Multiprotocol Gateway
9	Raspberry Pi 4 Model B	5	Raspberry Pi 4 Model B 8GB with Power supply, HDMI Cable, Armor Case with Heat Sink, 32GB SD, Camera Module V2 or NOIR Camera, Sense hat, PoE+ Hat
10	Raspberry Pi Compute Module	2	Raspberry Pi Compute Module - CM4104016- 4GB Ram- 16GB EMMC-Wire Less with Compute Module 4 IO Board and Compute Module 4 Antenna Kit
11	Raspberry Pi Zero 2W	5	Raspberry Pi Zero 2W with 12.5W Official Raspberry Pi Micro USB Power Supply and Pi Zero Case
12	Precision Soldering toolkit	1	Corslet Precision Soldering toolkit with adjustable temprature, and desoldering Pump
13	Kaiweets Voltage tester	1	Kaiweets Voltage tester and breakpoint finder
14	Digital AC Clamp Meter Multimeter	1	Sigma Instruments Mastech Digital AC Clamp Meter Multimeter M266F
15	Electromagnetic Radiation Tester EMF Meter	1	Electromagnetic Radiation Tester EMF Meter Portable Electric Magnetic Field Dosimeter Detector
16	Arduino Uno R3	5	Arduino Uno R3
17	IoT Sensors for Raspberi Pi and Arduino	10	PIR Motion Sensor Module HC-SR501
		10	4 IN NTC Thermistor Temperature Snsensor Module
		10	DHT-11 Temperature and humidity Snsor Module Board (high quality)
		10	XH-M452 Temperature and humidity Controller module
		10	BMP180 Barometric Pressure Sensor Module
		10	Detection Module Soil Moisture Sensor
		10	Capacitive Soil Moisture Sensor V2.0
		10	IR Sensor Module
		10	Soil Moisture Sensor Module
		10	MPU6050 - Tripal Axis Gyro Accelerometer Module
		10	Speed measure sensor Groove Coupler Module for Arduinio
		10	sound detection Sensor Module
10	TCRT5000- Reflective Infrarade Optical Sensor		

		10	MQ6- LPG Propane Gas Sensor Module
		10	MQ2 Flammable gas and smoke sensor Module
		10	MQ135 - Air Quality Gas Sensor Module
		10	Gas Sensors (MQ5 Natural gas sensor Module, MQ7 Carbon monoxide Gas Sensor, MQ3 Alcohol Gas Sensor Module, MQ9 Carbon monoxide methane and LPG gas sensor Module, MQ8Hydrogen H2 Gas Sensor module,)
		10	Water Level Depth Detection Sensor Module
		10	water level sensor Float Switch -P43
		1	OV56475MP 1080P IR-Cut Camera module
		10	OV7670 Camera Module
		18	3D Printer

23. HISTORY

Sl. No	Item Name	QTY	Specifications
1	Handycam Camcorder	1	Vedio recording
2	Digital camera	1	Wide range Photography Nikon or equivalent
3	Digital Voice Recorder	2	Audio recorder Sony - ICD-UX570F or euivalent
4	Kindle Oasis (10th Gen) - Now with adjustable warm light, 7" Display, 32 GB, WiFi + Free 4G (Graphite)	2	Digital book redear
5	SMART TV	1	Sony Bravia or equivalent 139 cm (55 inches) 4K Ultra HD Smart LED Google TV
6	Voice Speaker Set, Voice Microphone Amplifier for Teachers	4	Voice Microphone Amplifie
7	Camera Flashlight	1	Nikon or cannon or sony Speedlight SB – 700 or equivalent
8	HEADPHONES WITH MIC	4	Logitech H340 Stereo Wired Over Ear Headphones With Mic With Noise-Cancelling or equivalent

24. ENGLISH

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Sl. No	Item Name	QTY	Specifications
1	Webcam	05	Widescreen HD Video Calling, HD Light Correction, Noise-Reducing Mic, for Skype, FaceTime, Hangouts, WebEx, PC/Mac/Laptop/MacBook/Tablet- (Black, HD720p/30fps)
2	Camera Stand	02	Tripod For DSLR, Camera Operating Height: 5.57 Feet Maximum Load Capacity up to 4.5kg Portable Lightweight Aluminum Tripod with 360 Degree Ball Head Carry Bag Included (Black) (DTR 550LW)
3	Digital Camera	02	24.1MP Digital SLR Camera + EF-S18-55mm f4is STM Lens
4	Collar Microphone	06	Auxiliary Omnidirectional Lavalier Condenser Microphone with 20ft Audio Cable
5	Video Camera	03	9.2MP HD Handycam Camcorder with Free Carrying Case

25. LAW

Sl. No	Item Name	QTY	Specifications
1	Handycam Camcorder	1	Video recording
2	Voice Recorder	1	Sony ICD-TX660 or equivalent, Light Weight Voice Recorder, with 12 hours battery life, 16GB Built-In memory-Black. Small
3	Kindle Oasis (10th Gen) - Now with adjustable warm light, 7" Display, 32 GB, WiFi + Free 4G (Graphite)	2	Digital book reader
4	SMART TV	1	Sony Bravia 139 cm (55 inches) 4K Ultra HD Smart LED Google TV or equivalent
5	Voice Speaker Set, Voice Microphone Amplifier for Teachers	4	Voice Microphone Amplified
6	Camera Flashlight	1	Nikon Speedlight SB – 700 or equivalent
7	HEADPHONES WITH MIC	4	Logitech H340 Stereo Wired Over Ear Headphones With Mic With Noise-Cancelling or equivalent
8	Notice Board (Colored)	1	Alkosign ASGPB 90120 Blue Sliding Glass Cover Pin Boards 900mm X 1200mm or equivalent

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9	Podium	2	SamDecors Engineered Wood Stage Podium Lectern Presentation Stand for Conference, Meetings, Events (only Podium, no External mic Included) (Two-Tone, Black-White)
10	Globe	1	Sudan Laminated Gold & Black Globe
11	Hammer of Justice	3	Crafted Court Hammer Gavel Handmade Wooden Auction Jian Hammer C5H2 Judge V4B3
12	Statue of Lady Justice	1	Artvarko Big Brass 2.5 Feet Andha Kanoon Statue Blind Folded Justice Lady Murti Sculpture Blindfolded Bronze Finish Figurine Antique Handicraft Insaf Ka Taraju Showpiece Murti Home Decor
13	Collar Mic	4	MMAK M-08 Wireless Lavalier Microphone Collar Mic for YouTube, Video Recording, Vlogging, Compatible with Lightning & Type C Android, Plug and Play (No Bluetooth Needed) or equivalent
14	Sound Bar	1	Philips Audio Mms8085B/94 2.1 Channel 80W Usb Multimedia Speaker System With Convertible Sound bar And Multi-Connectivity Option (Black)
15	Tripod	1	DIGITEK Platinum (DPTR 890 VD) (178 cm) Aluminum Light Weight Tripod with Fluid Video Head for DSLR & Video Cameras, Maximum Operating Height: 5.83Feet, Maximum Load : 7 kgs (Black)
26. HINDI			
1	PROJECTOR SCREEN (UHD-3D-4K)	1	8 Feet width x 6 Feet Height ultra-HD Projector Screen
2	Digital Camera	1	24.1MPDigitalSLRCamera+EF-S18-55mmf4isSTMLens, Sony or Canon or Nikkon or equivalent
3	Voice Recorder	1	Sony ICD-TX660 or equivalent, Light Weight Voice Recorder, with 12 hours battery life, 16GB Built-In memory-Black. Small
4	Mic	2	Wireless Auxiliary Unidirectional Microphone

5	Wall/Ceiling Mount kit Projector Stand	1	Wall Projector Stand
6	SMART TV	1	Sony Bravia 139 cm (55 inches) 4K Ultra HD Smart LED Google TV or equivalent
7	WIRELESS SPEAKER & MICS	1	TOWER SPEAKER - 100 WATTS RMS WITH 2 WIRELESS MICS or equivalent
8	HEADPHONES WITH MIC	2	HEADPHONES WITH MIC Logotech Model: H-151 or equivalent
9	Touchpad	4	XPPen Deco Fun Small eWriter Tablet (7.46 Inch, Space Blue

27. Economics

1	Digital Camera	1	24.1MPDigitalSLRCamera+EF-S18-55mmf4isSTM Lens, Sony or Canon or Nikkon or equivalent
2	SMART TV	1	Sony Bravia 139 cm (55 inches) 4K Ultra HD Smart LED Google TV or equivalent
3	Voice Recorder	1	Sony ICD-TX660 or equivalent, Light Weight Voice Recorder, with 12 hours battery life, 16GB Built-In memory-Black. Small

28. Anthropology

1	Anthropometer Rod (Brass)	4	Material: Brass Rods; Brand: AARSON; Operation Mode: ; Rod Length: Upto 200 cm; Coating: Chromium Plated
2	Weighing Machine	4	Color: Black; Capacity:150 kg; Accuracy: 500 g; Display type: Analog
3	Lange Skinfold Caliper	4	LANGE Skinfold caliper to assess degree of fatness measuring range: 0 – 60 mm
4	Sliding Caliper (Blunt End)	4	Sliding caliper (Martin type) length: 0 – 200 mm; depth: 0 – 50 mm
5	Spreading Caliper (Round End)	4	Spreading caliper with rounded ends measuring range: 0 – 300 mm
6	Digital Blood Pressure Machine	4	Measurement range: 280 mmHg(0-37.30kPa); Pulse:40-199 beats/min 2.Cuff pressure range: 0-299mmHg(0-39.86kPa);
7	Glucometer (Digital)	4	Display: Digital Type Hospital Glucose Meter Operation Mode: Automatic Sample Volume: 1 ul Measurement Range: 1-50mol/L

			Categories: Compact Result Time: 5 sec Battery Life: Upto 400 tests
8	Instruments Carrying Rucksack Bag	4	Large Anthropometric Instrument Kit bag; Weight: 6.94 lbs. / 3.15 kg
9	Omron Karada Scan Body composition Monitor HBF-701	4	Omron Karada Scan Body composition Monitor HBF-701
10	IndoSurgicals Infantometer, Height Measuring Scale	4	IndoSurgicals Infantometer, Height Measuring Scale
11	MCP Electronic Digital Baby Infant Pet Bathroom Weighing Scale- 20 Kgs	4	MCP Electronic Digital Baby Infant Pet Bathroom Weighing Scale- 20 Kgs,
12	GS6.5C+ BODY BUILDING WEIGHT TEST ANALYZER VER:1.0N	1	Suppliers: Product Gs6.5C+ Gym Body Element BMI Analyzer Body Building Equipment Weight Test System Body BMI Analyzer
13	Digital Camera	1	24.1MPDigitalSLRCamera+EF-S18-55mmf4isSTMLens, Sony or Canon or Nikkon or equivalent

29. Social Work

1	Digital Camera	2	24.1MPDigitalSLRCamera+EF-S18-55mmf4isSTMLens, Sony or Canon or Nikkon or equivalent
2	Professional Compact Tripod for DSLR	2	E-image EK610 5.5ft Professional Tripod Stand Kit with Fluid Head for DSLR & Video Camera
3	Voice Recorder	1	Sony ICD-TX660 or equivalent, Light Weight Voice Recorder, with 12 hours battery life, 16GB Built-In memory-Black. Small

30. Industrial and Production Engineering

1	Computerized profile projector	01	<p>Product Description:</p> <ul style="list-style-type: none"> • Profile Lamp : One 250 W, 24 V or above • Surface Lamp : Two 250 W, 24 V • Work Stage Table Top Area : 350 X 280 or above • Resolution : 0. 001 Mm or above • Measuring System : Built In Glass Scale • Accuracy : 0. 05 Percent On A Profile,0. 074 Percent Of Surface or above • Magnifications Standard Optional: 10x, 22x, 50x, 3 Station Turret for Safety / Ease of Use • Measuring Range XY Axis : 201 X 150 Mm • Mass: 130 Kg Approx • Power Supply: AC 1 Phase, 230, 240, 250V. 50 Hz, 800W • Specification:
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			<ul style="list-style-type: none"> • Screen Diameter: Fine grain ground glass screen with cross lines, vertical lens axis • Electronic Protractor: Switchable degree/decimal, 1 minute / 0.01-degree display range: ± 60 degree. Abs / inc, zero setting • XY Digital Readout Functions: Zero setting, inch /mm, abs/inc, circle measurement, X/Y axis quick displacement controllers for variable background / foreground lighting • Optional Accessories: Inclined centres, V block, Holder with clamp, Pedestal stand geometric data processor quadra check QC 221. • Illumination System: All bulbs independently fan cooled. High intensity, twin beam direct surface illumination with intensity controllers for variable background/foreground lighting
2	Surface Roughness Tester -Surfcom Touch 50, Linear	01	Profile resolution- 0.001 microns Range- 0.1 -50 MM

31. Department of Journalism and Mass Communication

1	DSLR Camera	1	Canon1500D/850D - Full HD 24 MP, Video, Auto expo bracketing or equivalent
2	Mirror-less Camera	1	NikonZ50,16-50mm+50-250mm- Advanced features for both Photo/ Video 4K Video, touchscreen, 20.9 MP, Creative Control or equivalent
3	Video Camera	1	CanonXA50/Sony NX- 4 K, Touchscreen, 50 x Zoom, 2 slots of SD, fit in bujat or equivalent
4	Tripod	2	Manfrotto
5	Reflector	1	
6	Flash Unit	1	Canon/Nikon 1500D/850D or equivalent
7	XLR cable+mic	1	
8	Adobe Photoshop 7.0 software	1	Adobe Photoshop 7.0 software latest version
9	Adobe In-Design 2022 window PC software	1	Adobe In-Design latest version

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10	Tape Recorder	2	Sony / Philips company
11	Caller Mike/ Lapel Mike	4	Any standard company
12	Boom Mike	1	Any standard company
13	Croma Stand Set	1	Any standard company
14	Croma	1	Any standard company
15	Three Points Lighting set-up	1	Any standard company

32. Commerce

1	Calculators [Casio JW-200SC-WE Premium & Stylish Calculator (White)]	18	Casio JW-200SC-WE Premium & Stylish Calculator (White)
2	Projector for Lab [Samsung The Freestyle 100" Smart and Compact Portable LED Projector with in-Built OTT Apps (SP-LSP3BLAXXL, HDR10, Wi-Fi, 360 Sound, 180 Degree Projection Angle, Auto Focus & Auto Key Stone, White)]	1	Samsung The Freestyle 100" Smart and Compact Portable LED Projector with in-Built OTT Apps (SP-LSP3BLAXXL, HDR10, Wi-Fi, 360 Sound, 180 Degree Projection Angle, Auto Focus & Auto Key Stone, White)

33. Computer Science and Engineering

1.	ArduB3:B28ino Uno Module with USB cable	30	Arduino Uno
2.	Raspberry Pi 3 Model B 1GB RAM Quad Core 1.2GHz CPU Starter Kit	25	Raspberry Pi 3 Model B 1GB RAM Quad Core 1.2GHz CPU Starter Kit
3.	Node MCU ESP8266	30	Node MCU Microcontroller ESP8266 with integrated Wi-fi Module
4.	Memory Micro SD Card	30	Micro SD Card (16GB Class 10)
5.	Relays Array	5	Relays Array (2 into 1)
6.	Bread Board	40	Bread Board (Five layer)
7.	LCD for Arduino	20	LCD (16 x 2)
8.	DC power Adopter + Cables	5	DC power Adopter + Cables (2Amp.)

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9.	GSM/GPRS Shield Module for Arduino	4	GSM/GPRS Shield Module for Arduino
10.	RF Transmitter + Receiver Module	5	RF Transmitter + Receiver Module for Arduino
11.	DHT Sensor	30	Digital Humidity Temperature Sensor with three pin
12.	LDR light sensor module	10	LDR light sensor
13.	RFID Module Reader/Writer with Card and Tag	5	RFID Module Reader/Writer with Card and Tag for Arduino
14.	Ultrasonic Sensor	30	Ultrasonic Sensor for Arduino
15.	37-In-1 Sensor Module Kit for Arduino & Node MCU	10	37-In-1 Sensor Module Kit for Arduino & Node MCU
16.	Bluetooth Sensor module	10	Bluetooth Sensor module
17.	Micro USB Cables for Node MCU	30	Micro USB Cables for Node MCU
18.	Jumper Wire Male to Female	100	Jumper Wire Male to Female
19.	Jumper Wire Male to Male	100	Jumper Wire Male to Male
20.	Additive Manufacturing (3D Object Printer) portable	1	Build Volume: 150 X 150 X 150 MM, Layer Resolution: 0.1-0.4MM Max. Print Bed Temperature: 100 C (212 F), Filament Compatibility: PLA
21.	PLA filament cartridge (Different Colors)	10	PLA filament cartridge Compatible with 3D Printer with Colors: White, Black, Red, blue, Green.
22.	Smart LED TV	1	Smart LED TV 55' inches or above
23.	LOGIC GATE TRAINER	5	E & E Make: Type: EE-65, Complete with built-in IC Regulated Power supply (+5V), on board logic level generators nos. 4, logic level indicators nos. 4, on board gates: OR gate 1 no., AND gate 1 no., Ex-OR gate 1 no., NOR gate 1 no., NAND gate 1 no., Ex-NOR gate 1 no., NOT gate 3 nos., circuit/symbols printed nicely on the front panel of the black epoxy PCB with 2 mm connecting terminals, patch cords and instruction manual. Suitable to verify the truth table of Logic Gates: OR, AND, NOT, NAND, NOR, Ex-OR & Ex-NOR
24.	VERIFICATION OF DEMORGANS THEOREM	5	E & E Make: Type: EE-86, Complete with built-in IC Regulated Power supply (+5V), on board logic level

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			generators nos. 4, logic level indicators nos. 4, on board gates: OR gate 2 nos., AND gate 2 nos., NOT gate 6 nos., circuit/symbols printed nicely on the front panel of the black epoxy PCB with 2 mm connecting terminals, patch cords and instruction manual. Suitable to verify Demorgan's Theorems
25.	ADDER & SUBTRACTOR	5	E & E Make, Type: EE-81 Complete with built-in IC Regulated Power supply (+5V), on board logic level generators nos. 3, logic level indicators nos. 3, 2 nos. AND Gate, 2 nos. NOT Gate 3 nos EX-OR Gate circuit/symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction manual. Suitable to study an Adder & Subtractor
26.	ENCODER & DECODER	5	E & E Make: Type: EE-85 Complete with built-in IC regulated power supply +5 V, logic level generators nos. 9, logic level indicators nos. 9, circuit/ symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction manual To study a Decimal to BCD Encoder using IC74147 To study a Binary to Octal Decoder using IC74138
27.	MULTIPLEXER & DEMULTIPLEXER	5	E & E Make: Type: EE-76 Complete with built-in IC regulated power supply +5 V logic level generators nos. 3, logic level indicators nos. 3, NAND Gate 3 Nos circuit/symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction manual To study multiplexer & demultiplexer
28.	R-S, J-K, D, T AND MASTER/ SLAVE FLIP FLOP TRAINER	5	E & E Make: Type: EE-73A, Complete with built-in IC regulated power supply, on board logic level generators 4 nos. & logic level indicators 4 nos., clock generator 1 no., on board logic gates (3-input NAND Gates nos. 2, 2-input NAND Gates no. 6, NOT Gate 1 no.) to make different flip-flops with connecting terminals, circuit/symbols printed nicely on the front panel of the black epoxy PCB with 2 mm connection terminals, patch cords and instruction manual. Suitable to Study R-S, J-K, D, T & Master Slave Flip Flops using NAND Gates
29.	4 BIT RIPPLE COUNTER	5	E & E Make: Type: EE-74 Complete with built-in IC regulated power supply +5 V, clock generator 1 no, logic level indicators nos. 4, reset switch circuit/symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction

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			manual To study the operation of 4-Bit Ripple counter using IC 7476 (JK f-f)
30.	4 BIT BINARY ADDER	5	E & E Make: Type: EE-152, Complete with built-in IC regulated power supply +5 V, on board logic level generators 8 nos for data input, logic level indicators 4 no for data output and 1 for carry output, circuit/ symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction manual. To study 4 bit binary full adder
31.	CODE CONVERTER DECIMAL TO BINARY CONVERTER	5	E & E Make: Type: EE-99A, Complete with built-in IC regulated power supply +5 V on board logic level generators 9 nos for data input, logic level indicators 4 no for binary data, symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction manual. To study and verify truth table of decimal to binary converter using IC74147
32.	DECIMAL TO OCTAL CONVERTER	5	E & E Make: Type: EE-99A, Complete with built-in IC regulated power supply +5 V on board logic level generators 9 nos, logic level indicators 9 no, symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction manual. To study and verify truth table of decimal to octal converter using IC74138 and 74147
33.	DECIMAL TO HEXADECIMAL CONVERTER	5	E & E Make: Type: EE-99A, Complete with built-in IC regulated power supply +5 V on board logic level generators 9 nos for decimal data input, logic level indicators 16 nos for Hexadecimal data output, symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction manual. To study and verify truth table of decimal to octal converter using IC74147 and 74147
34.	PROGRAMMABLE SHIFT REGISTER	5	E & E Make: Type: EE-75 Complete with built-in IC regulated power supply +5 V on board logic level generators 6 nos, logic level indicators 4 nos Clock pulse generator 1 no symbols printed nicely on the front panel of the kit with 2 mm connecting terminals, patch cords and instruction manual. To study the operation of Programmable Shift Register using IC7495