

गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ0ग0)
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.65/ E-TENDER /STORE/GGV/Min.Equip./2021,

DATE:10/01/2022

Tender notice

E-Tender for Purchase of Minor Equipments 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. 2,00,000/- addressed to the Assistant Registrar (store), Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur, C.G.-495009 should reach up to 4.00 PM on or before 31/01/2022 The technical Bid shall be opened on 01/02/2022 at 4.30 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 Equipments

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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.

SALIENT DATES

- | | |
|---|---|
| 1 Last Date of submission (Online) : | 31.01.2022 upto 4.00 PM |
| 2. Last Date of submission (Hard copy) :
Bid Fee Rs 1,500/-(Original)(scanned copy to be uploaded online also)
EMDRs. 2,00 ,000/-(Original) (scanned copy to be uploaded online also) | 31.01.2022 upto 4.00 PM |
| 3. Pre Bid Meeting :
(Venue: Conference Hall, Administration Building , GGV, Bilaspur) | 19.01.2022 at 12 Noon |
| 4. Opening of Technical Bid | 01.02.2022 at 4.30 PM |
| 5. Financial Bid*
(as per BoQ in e-tender submitted online only) | Date to be notified later after
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.2lakh (refundable as per terms & condition of the tender) should be in the form of DD/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 will be applicable in this regards.
- 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 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 2018-19) with a minimum average annual turnover of Rupees 40 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 Annexures 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.
- 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 (arstore@ggu.ac.in) 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 IV

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 Annexure IV.

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 upto 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 have 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 GhasidasVishwavidyalaya Campus, Bilaspur (CG). No additional cost in any manner shall be borne by the university for supply, installation, demonstration etc..
- 9.12 Number of vendors may be multiple for any one principle 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.
- 9.13 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 GhasidasVishwavidyalaya. In case it is found that the price charged by the firm are more, the same will be recovered from the subsequent/unpaid bill of the supplier.
- 9.14 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.
- 9.15 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.
- 9.16 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 vender 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.
- 9.17 University will create a shortlist of technically qualifying vendors and the financial tender of only these vendors will be opened online.
- 9.18 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.
- 9.19 The Cost of the equipment should be exclusive of GST but inclusive of all other statutory levies. Labour, installation charges, packing, transporting,forwarding, transit insurance, loading/unloading, commissioning, demonstration (at desired location), freight etc.
- 9.20 The university is exempted from payment of custom duty etc. on scientific and technical equipment/instruments by DSIR, Govt. of India. Necessary certificate will be issued on demand. Firm has to consider rebate on taxes against such certificate as per Gol norms.
- 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 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 Assistant Registrar (Stores), Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) for any clarification or information regarding the Tender. E-Mail: storesectionggv2021@gmail.com PhoneNo.07752-260381.
- 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. 2,00,000/- should be submitted in the form of Account Payee 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, lightning, 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 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 2,00,000/-		
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(asperannexureI -.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)
2018-19				
2019-20				
2020-21				

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:

Signatur of Bidder.....

Name.....

Designation.....

Firm's 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	DD of the EMD of Rs 2,00,000/- (non-refundable) has been kept in original in Envelope-I along with the DD of Tender cost/fee as above.Also the scanned copy of the above DD 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. Department : Law			
Sno	Item Name	Qty	Specification
1	Video Came with necessary accessories	1	Nikkon Mirror Less Camera [Z50 Body with Z DX 16-50 mm f/3.5-6.3 VR & Z DX 50-250 mm f/4.5-6.3
2	Judges Chair	3	High Neck Wooden Chair used for Court demo practical
2.Department : Economics			
1	Digital SLR Camera	1	Canon EOS 200D Mark II or equivalent
2	TV	1	Samsung 43 inch ,2021 Model or equivalent
3	Voice Recorder	1	Soni, ICD UX570F or equivalent
3.Department : Political Science			
1	डिजिटल ब्लॉग कैमरा	1	ZV 1 Vlog कैमरा 1 यूनिट ब्लूटूथ शूटिंग ग्रीप के साथ बंडल किया गया, 1 अतिरिक्त यूनिट रिचार्जबल बैटरी और 1 यूनिट SD कार्ड.
2	वेबकैम	4	वेबकैम, HD 720p/30fps, वाइडस्क्रीन HD वीडियो कॉलिंग, HD लाइट करेक्शन, नॉइज़ रिडक्शन माइक, लैपटॉप/म/टैबलेट के लिए
3	स्टीरियो हेडसेट	4	हेडसेट, लैपटॉप/म/टैबलेट के लिए
4	पोर्टेबल टेबल लैम्प LED	3	पोर्टेबल टेबल लैम्प -3 ग्रेड डिमिंग और रंग बदलने वाला (ठंडे दिन जैसे रोशनी /न्यूट्रल सफेद / सफेद)
5	स्टैंड	1	croma स्क्रीन के लिए
6	प्रीमियम ग्रीन बैकग्राउंड क्लॉथ	1	8Ft X 10 Ft घर और स्टूडियो बैकग्राउंड फोटो, वीडियो शूट के लिए (Lycra मटीरियल)
7	रिंग LED लाइट	2	Video रिकॉर्डिंग और Croma स्क्रीन के लिए
8	लाइट वेत वॉयस रिकॉर्डर,	4	बिल्ट-इन मेमोरी: 4GB तक बिल्ट-इन स्टोरेज, माइक्रो-SD (SDHC/SDXC) कार्ड के माध्यम से एक्सपैंडेबल
9	ओम्नीडायरेक्शनल लेवलियर कंडेंसर माइक्रोफ़ोन 20 ft ऑडियो केबल के साथ (काला), काला	1	Vice Recording for Video Lecture
10	फोर-वे एक्सटेंशन बोर्ड	3	External Electric स्विच बोर्ड
11	1.2 लीटर डबल वॉल केटल	1	केटल / 304 स्टेनलेस स्टील इनर बॉडी / कूल टच आउटर बॉडी / व्यापक मुंह/ 2 साल की वारंटी (काला, 1500 वाट)

4.Department : History			
1	DSLR Camera Body with Lens In Combo with one Extra battery and 64 GB SD	1	DSLR Camera,Lens: AF-P DX Nikkor 18 - 55 MM F/3.5-5.6G VR and 70-300 MM F/4.5-6.3G ED VR, 1 battery and 64 gb sd card
2	PROFESSIONAL COMPACT TRIPOD	1	E-IMAGE EK6I 0 PROFESSIONAL COMPACT TRIPOD KIT
3	Voice Recorder	1	Sony ICD-TX660 Light Weight Voice Recorder, with 12hours Battery Life, 16GB Built-in Memory -Black, Small
4	E-book reader device	2	E-book reader device (8 GB) — with a 6.8" display and adjustable warm light with Mount Stand
5	Historical Map of India, Chhattisgarh, world	3	(20 x 12.5 inch)
6	Globe	1	Educational Political Laminated Rotating World Globe with Metal arc and Base 12 inch
5.Department : Social work			
1	Banner Stand	5	Zion Enterprises 3X6 Feet Banner Stand Card Display Stand (4 inch wide)
2	Handy cam Camcorder	5	Sony HDRCX405 9.2 MP HD Handycam Camcorder with Carrying Case
6.Department : Management Studies			
1	Collar Mike	5	Boya BYM1 Omnidirectional Lavalier Condenser Microphone with 20ft Audio Cable (Black)
2	Head Phones	3	Boat Rockerz 510 Wireless Bluetooth On Ear Headphones with Mic (Raging Red)
3	Cordless Mike	2	Ahuja AWM-495V2 Dual Hand wireless Microphone
4	Speakers	2	Philips Audio MMS2625B 2.1 CH Bluetooth Multimedia Speakers (Black)
5	Table mike	5	Da.Beatz™ Table Meeting Microphone/Table Gooseneck Wired Microphone System - Table Mounted Corded Voice Condenser Mic with Pop Filter - XLR to 1/4" Sound Cord - for Karaoke, Conference

6	Extention	2	Havells 6A 4 way Extension Board 10V max rating 1440W Wire length 1.5 meters (White)
7	Camera	2	Canon EOS 1500D 24.1 Digital SLR Camera (Black) with EF S18-55 is II Lens
8	Tripod	2	DIGITEK® (DTR 550LW) (170 CM) 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)
9	Ear Phone	3	OnePlus Bullets Wireless Z Bass Edition (Bold Black)

7.Department : English

1	Camera: webcam	5	video capture resolution-720p, Connectivity technology-USB, Image capture speed- 30 fps, Maximum focal length- 1 mm, Screen size- 3 inches, Built in mic.
2	Camera stand	2	light weight, Maximum operating height- 5-6ft, 360° swivel function, compatible with video camera, camera.
3	Digital camera DSLR	1	self - timer, 35x optical zoom, full hd, wifi, video recording at 1080 p on 30 fps.
4	Collar mike	6	6mtr, compatible with smart phone
5	Emergency light	5	battery powered, foldable, LED, 240 volts
6	Room heater	4	heating coverage-250 square feet

8.Department : Education

1	Recording device & storage	2 set	एक टीवी क्षमता वाला
2	Models and charts of brain	2 set	सामान्य साइज़ की आकृति
3	Audiogram sheets	500	A4 साइज़
4	Science models	2 set	सामान्य साइज़ की आकृति
5	Geographical models, maps	2 set	सामान्य साइज़ की आकृति
6	Teacher made story cards	6 set	कक्षा दस तक के स्तर
7	Software based learning resources	2 set	कक्षा दस तक के स्तर
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 (256HZ,512HZ,1024HZ)	1 set	श्रवण एवम् अधिगम अक्षम बालको क लिए
11	Different types of ear moulds	6 set	श्रवण एवम् अधिगम अक्षम बालको क लिए
12	ITC, ITE hearing aids	2 set	श्रवण एवम् अधिगम अक्षम बालको क लिए
13	speech trainer	1 set	portable speech trainer, Noise -wide Band, narrow band, power output max 300 watt
14	material required for ear mould making	1 set	ear impression material silicone based, ohr abformmasse auf silikon basiss
15	Logical Thinking Test by Sujeet kumar and Shikha Tiwari	2 SETs English	
16	Mental Health Scale by S.P.Gupta and Sujeet Kumar	2 SETs English	
17	Faminism Reflection Inventory	2 SETs English	
18	Teaching effectiveness scale	2 SETs English	
19	Fall door type span of attention with manual and card	5 PC	
20	Stop Watch (Timer, electronic, Digital)	5 PC	
21	Development Screening Test	3 (1Hindi and 1 English)	
22	Vineland Social Maturity Scale	3 (1Hindi and 1 English)	
23	Seguin Form Board Test	2 (1Hindi and 1 English)	
24	Photo Articulation Test	2 (1Hindi and 1 English)	
25	Behavioural Checklist for Screening the Learning Disability	3 (1Hindi and 1 English)	

26	Diagnostic Test of Learning Disability (DTLD)	2(1Hindi and 1 English)	
27	Behavioural Checklist for Screening the LD (BCSLD)	2(1Hindi and 1 English)	
28	Diagnostic Test of Reading Disorders (DTRD)	2(1Hindi and 1 English)	
29	Autism Diagnostic Checklist (ADCL)	2(1Hindi and 1 English)	
30	Damble Battery of Learning Disability	2(1Hindi and 1 English)	
31	CTC Learning Disability Assessment Test	2(1Hindi and 1 English)	
32	Screening and Diagnostic Test of Dyslexia	2(1Hindi and 1 English)	
33	Gray Diagnostic Reading Test Second edition (GDRT-2)	2(1Hindi and 1 English)	
34	Test of Visual Perception Skill (Non-motor) 3 rd Edition	2(1Hindi and 1 English)	
35	Educational CD (Physiological test and apparatus)	1	
36	Educational CD (Child and growing up)	1	
37	Flash Card (Teaching Aid)	5 SET	
38	Emotional Intelligence inventory By S.K. Mangal and Shubdha Mangal (1Hind and 1 English)	2	
39	Spiritual Intelligence Scale By K.S. Mishra	(1Hindi and 1 English)	
40	Non Verbal Matching familiar figure test	2	
41	Problem Solving ability By D.N. Sansanwal and Aradhana Joshi	(1Hindi and 1 English)	
42	Carrier Preference record By Vivek Bhardwaj and Rajshree Bhadwaj	1 Set	
43	Level of expiration major	1 Set	
44	Attitude Scale towards teaching profession	2	

45	Verbal Learning disability check list By Vishal Sood	2(1Hindi and 1 English)	
46	Learning Style inventory by K.S. Mishra	2(1Hindi and 1 English)	
47	Educational Anxiety Scale by Sarita Dahia and RajneeDahia	2(1Hindi and 1 English)	
48	chatterjee's non language performance record	2(1Hindi and 1 English)	
49	sound testing chember/room/audiometric booth	1 set	
50	hearing aid analyzer	1 set	
51	digital speech trainer	1 set	
52	software of language assessment	1 set	
53	portable diagnostic audiometer	1 set	
54	vibro tactile aid	2 set	
55	One set of tuning forks (256HZ,512HZ,1024HZ)	2 set	
9.Department: Civil Engineering			
1	Cube moulds (100 x 100 x 100 mm)	27	<ul style="list-style-type: none"> • Cube Mould (100 mm) IS : 10086-1982 • Cube Mould made of Mild steel having an internal size of 100mm with a tolerance of + 0.2 and planeness of + 0.03 mm. • Cube Moulds should be ISI Marked.
2	Cylinders (100 mm dia. x 200 mm height)	18	<ul style="list-style-type: none"> • As per IS : 516, IS : 10086-1982. • Used to cast cylindrical cement concrete specimens for compressive strength tests. • These moulds are made of Mild steel. • They can be easily split into two parts. • The internal diameter is finished to + 0.2 mm tolerance and height within + 1 mm. • Supplied complete with a base plate machined flat within + 0.02 mm tolerance. • Cylindrical Mould 100mm dia x 200mm high.
3	Prism moulds (100 x 100 x 500 mm)	15	<ul style="list-style-type: none"> • As per IS : 516, IS : 10086-1982. • Used for making cement concrete prisms or bars of square cross- section for flexural strength tests. • Inside faces are machined flat to within +

			<p>0.02 mm tolerance and inside dimensions are accurate to + 0.2 mm.</p> <ul style="list-style-type: none"> • Made of Mild steel, supplied complete with base plate • 150 mm x 150 mm x 700 mm made of Mild steel.
4	Cylinders (150 mm dia. x 300 mm height)	9	<ul style="list-style-type: none"> • As per IS : 516, IS : 10086-1982. • Used to cast cylindrical cement concrete specimens for compressive strength tests. • These moulds are made of Mild steel. • They can be easily split into two parts. • The internal diameter is finished to + 0.2 mm tolerance and height within + 1 mm. • Supplied complete with a base plate machined flat within + 0.02 mm tolerance. • Cylindrical Mould 150mm dia x 300mm high.
5	Digital Display Magnetic Hot Plate Stirrer.	1	<ul style="list-style-type: none"> • Top plate shape – Round/Square • Digital display • Weight - 2.8-5.3kg • Power Input - 220V AC • Capacity - 20L • Speed range [Rpm] - 100-1500 • Size – 1' to 2' (diameter for round)/1.5' to 4' (Side for square) • Material - Stainless steel
7	Hot Air Furnance.	1	<ul style="list-style-type: none"> • Inner dimension: length = 6 feet width = 3 feet height = 3 feet • Temperature: minimum = 40o celsius maximum = 150o celsius • Digital display (mounted separately) • Type: walk in OVEN with: Ø shelf truck and shelves Ø flat bed truck Ø insulated floor with recessed truck tracks • Carrying capacity: 1000 to 1500 kilogram. • Blowers for uniformly distribution of temperature.

			<ul style="list-style-type: none"> • Power source: electric. • Purpose: for temperature curing of concrete (beam & column) in civil engineering laboratory.
8	IS Sieve	4	75 micron (WI-Brass Sieve)
9	Porous Stone	5	13mm thick & 100mm in diameter
10	Moisture Tins with lid	15	50mm in dia & aluminum made
11	Open Channel Flow meter	1	<ul style="list-style-type: none"> • Display: Back Lighted Graphic LCD 128x64 • Flow range: 0.28 ls - 1850 ls • Model: Open Channel Flow Meter • Power Supply: 24/115/230V CA 50-60Hz; +/-10% (depends to the mod.). • Analogue Output: 4-20mA galvanic separation • Technology: Digital,Using Flash Microprocessor • Working Temperature: -20 Deg C +60 Deg C • Contact Rating: 5A 250V (resistive) • Custom Parameters Memory: EEPROM • Electrical Connections: Screw-Connectors, Separate Access • Enclosure Material: ABS color RAL 7035 • Keyboard: 5 keys • Measure Input Signal: N.2 RS485 serial input for the PTU or SMART ultrasonic sensor family • Power Consumption: Max 15W • Relays Output: 3 or 5 (depends to the model)
10.Department: Computer Science & Engineering			
1	Arduino Uno Board R3	8	ATmega328 @ 16 MHz RAM size:2048 bytes P rogram memory size:31.5 Kbytes
2	Raspberry Pi 4	7	Model B
3	Arduino Nano, (ATMega328p)	7	(ATMega328p)
4	ESP 12E Chip	7	core ESP8266EX
5	NVIDIA Jetson TX1 (Board)	5	GPU 256-core NVIDIA Pascal™ GPU architecture with 256 NVIDIA CUDA cores

			<p>CPU Dual-Core NVIDIA Denver 2 64-Bit CPU Quad-Core ARM® Cortex®-A57 MPCore Memory 8GB 128-bit LPDDR4 Memory 1866 MHx - 59.7 GB/s Storage 32GB eMMC 5.1 Power 7.5W / 15W</p>
6	STM32 Cortex-M4 (ARM Board)	3	<p>Core: Cortex-M4 32-bit RISC. Feature a full set of single-cycle DSP instructions. Operating Frequency: 168MHz, 210 DMIPS/1.25 DMIPS/MHz. Operating Voltage: 1.8V-3.6V. Package: LQFP100 Storage Resources: 512kB Flash, 192+4kB SRAM. Resource: 3 x SPI,3 x USART, 2 x UART, 2 x I2S, 3 x I2C; 1 x FSMC,1 x SDIO,2 x CAN; 1 x USB 2.0. FS/HS Controller(with DMA); 1 x USB HS ULPI; (used for external USB HS PHY)1 x 10/100 Ethernet. MAC;1 x 8 to 12-bit parallel camera interface; 3 x AD(12 bit,1us),2 x DA(12 bit).</p>
7	Node MCU ESP8266	5	<p>Microcontroller: Tensilica 32-bit RISC CPU Xtensa LX106 Operating Voltage: 3.3V Input Voltage: 7-12V Digital I/O Pins (DIO): 16 Analog Input Pins (ADC): 1 UARTs: 1 SPIs: 1 I2Cs: 1 Flash Memory: 4 MB SRAM: 64 KB Clock Speed: 80 MHz USB-TTL based on CP2102 is included onboard, Enabling Plug n Play PCB Antenna</p>
8	NRF communication module (2.45 GH Long Rang)	10	<p>ong Range 2.4 GHz transceiver High sensitivity, down to -132 dBm +12.5 dBm, High efficiency PA Low energy consumption, On-chip DC-DC LoRa, FLRC, (G)FSK supported modulations</p>

			Programmable bit rate Excellent blocking immunity Ranging Engine, Time-of-flight function BLE PHY layer compatibility Low system cost Applications
9	SMPS 5V	10	25 W Model Name 5 Volt 5 Amp DC Power Supply SMPS (5V 5A)
10	pH sensor	4	Brand Name IHC Number of Items 1 Part Number Analog PH Sensor
11	RFID Tags	50	Type Passive RFID Application Type Tool Tracking, Asset Tracking Color White Material Paper Thickness 0.2-0.8mm
12	RFID Reader	15	Complete Read/Write module with the built-in transceiver antenna Auto checks for the presence of a tag Supports ISO14443A /MIFARE, MIFARE Classic 1k, MIFARE Classic 4k TTL RS232 Interface, baud rate19200bps Fast data transfer –Contact-less communication up to 106KHz Secure Encrypted contact-less communication Ideal for e-money, secure access and fast data collection applications Watchdog timer 1 LED indicator Unique serial number on each device
13	ECG sensor	10	Brand Name Robodo Included Components 1 x Ecg Module Item Weight 400 grams Manufacturer Series Number AD8232 Model Number AD8232 Number of Items 1 Part Number AD8232
14	High sensitive accelerometers	5	Brand Name Robocraze Ean 4200477654676

			Manufacturer Series Number RC-A-4047 Model Number RC-A-41189 Number of Items 3 Part Number RC-A-41189
15	Geomagnetic sensors	10	This auction is for MAG3110 Board 3-Axis, Digital Magnetometer with I2C interface The MAG3110 Board is a development tool for measuring magnetic fields. It features a high sensitive digital magnetometer MAG3110 onboard, which provides 3-Axis geomagnetic data via I2C interface. The MAG3110 Board can be used to get compass information. The MAG3110 Board features I2C pinheader on one side, and I2C connector on the opposite side. Hence, it's more flexible to connect the board to your development system
16	Solid state relays(4X1, 2X1)	10	Solid state relay, 2 A, random switching, input 3...12 V DC, output 24...280 V AC
17	PWM Switches	10	Solnoi Electronics Pulse Width Modulation PWM 12V-40V 10A DC Motor Speed Control Switch 13KHz Motor Control Electronic Hobby Kit
18	Digital Oscilloscope	1	Power : 100 - 240V AC, 45 - 440Hz Display : 7 Inches 64K Colour TFT LCD, 800 × 480 Product Colour : White and Grey Product Net Weight : 2.2kg Product Size (W×H×D) : 306mm × 147mm × 122mm Standard Accessories : Probex2 (1×,10× switchable), Power Cord , USB Cable, PC Software CD Optional Accessories : LAN Port
19	DJIMAVIC Drone	1	Brand DJI Model Name Mavic Colour Gray Material Plastic Media Type Micro SD
20	Camera (for Raspberry Pi)	5	Sony IMX477 sensor

21	Infrared Cameras	1	IRC-110 AMPROBE Infrared Camera
22	Bluetooth Earphone (LG HBS 760)	3	Brand BoAt Colour Neon Connector Type Wireless Model Name Rockerz Form Factor In Ear
23	GY-91 (Gyroscope, Accelerometer)	5	Model/Type GY-91 Operating Voltage Range 3.0V - 5.0V Pressure Range 300-1100hPa Interface Type Standard IIC / SPI Communications Protocol Sensor Chips MPU-9250 + BMP280
24	UBLOX NEO 6M (GPS module)	10	Brand U-Blox/equivalent Weight 12 Gm Model NEO-6M Receiver Type 50 Channels Supply Voltage (V) 2.7~ 6 VDC Sensitivity 147 DBm-161 DBm
25	Tiny Deal GY-271 HMC5883L Triple Axis Magnetometer Digital Compass Sensor EDC-262590	4	Model GY-271/equivalent Color Blue Material PCB + brass Specification Chipset HMC5883L Power supply 3~5V Communication mode IIC protocol Measuring range ±1.3-8 gauss Features Triple Axis Magnetometer Digital Compass Sensor Module Application Triple Axis Magnetometer Digital Compass Sensor Module Dimensions 15 x 14 x 4 mm / 0.59 x 0.55 x 0.16 inch Weight

			<p>1 g / 0.04 oz</p> <p>Product Specifications</p> <p>Package Contents</p> <p>1 x Digital Compass Sensor Module 2 x Pin Header</p>
26	Software defined Radio (NooElec NESDR) RTL SDR	2	<p>Model Number NESDR SMARt Bundle</p> <p>Batteries Required No</p> <p>Batteries Included No</p> <p>Material Type(s) Metal</p> <p>Product Dimensions 29 x 10 x 2 cm; 149 Grams</p> <p>Item model number NESDR SMARt Bundle</p> <p>Manufacturer NooElec</p> <p>Item Weight 149 g</p>
27	RJ-45 Connector	200	D Link Cat 5 RJ 45 Cable Connector
28	Twisted Pair Cable	305	Dlink Cat6 UTP 305-Meter Networking Cable Roll
29	Repeater	2	<p>NETGEAR AC750 WiFi Range Extender (EX3700-100NAS)</p> <ul style="list-style-type: none"> • Dual band WiFi up to 750 Mbps • Supports new 802.11ac & b/g/n WiFi devices • External antennas for better performance, Access Point mode creates a WiFi hotspot using a wired Ethernet connection
30	Switch	2	<p>TP-Link TL-SF1016D 32-Port 10/100Mbps Desktop/Rackmount Switch</p> <ul style="list-style-type: none"> • Supports IEEE 802.3x flow control for full duplex mode and backpressure for half duplex mode • 3.2 Gbps switching capacity, store and forward switching scheme and auto-MDI/MDIX eliminates the need for crossover cables • Supports MAC address auto-learning and auto-aging, auto-negotiation ports provide smart integration between 10Mbps, 100Mbps hardware, plug and play design

			simplifies installation and fanless design to make sure it works quietly.
31	Router	2	TP-Link TD-W8968 N300 Wireless ADSL2 <ul style="list-style-type: none"> • All-in-One Device: ADSL2+ Modem, NAT Router, Switch and Wireless N Access Point • 24GHz, IEEE802.11b/g/n, up to 300Mbps data transfer rates and and version is 4 • USB Port for Storage Sharing, Printer Sharing, 3G Modem Sharing, FTP Server and Media Server • Supports the latest Internet Protocol IPv6 to future-proof the network • Ethernet WAN (EWAN) offers another broadband connectivity option for connecting to Cable, VDSL or Fiber modems
32	Crimping Tools	2	
33	LAN Tester	2	
34	RJ-45 Boot	200	
35	WiFi Access Point	2	D-Link DIR-825 AC 1200 Wi-Fi Dual-Band Gigabit (Lan/WAN) Router
36	Wifi Adapter	5	D-Link DWA-131 Wireless N Nano USB Adapter
11.Department: ELECCTRONIC & COMMUNICATION ENGG.			
1	OPAMP TRAINING KIT	10	Operational Amplifier (OPAMP) Trainer Make:MINE,Model:MI-A11
2	FR-4 sheet	(100 x 75 mm) x 50 piece	10x15cm Epoxy Fiber FR4 Copper Clad Plate Laminate Circuit Board Double Side PCB (100 x 75 x 1.5mm) 10 * 7.5cm
3	Rogers Material RT5880,1E/1E 62MiL 18x24	1	Rogers 5780/5880 sheet for antenna fabrication with epsilon=2.2/2.33
4	SMA connector male	50	SMA Connector male - PCB Edge Mountable 1.6mm required an antenna connection
5	18x24SMA connector female	50	SMA Connector Female - PCB Edge Mountable 1.6mm required an antenna connection

6	High frequency PIN diode BAR663-02V	50	PIN diode BAR663-02V H6327, Infineon Technologies
7	Soldering machine kit	1	Soldering machine for antenna fabrication with 0.5mm/ 1mm tip
8	8051 microcontroller kit	5	8 bit microcontroller
9	Breadboard	10	Basic Breadboard Kit - MB102 Colored Breadboard + Breadboard Power Supply + 120 Jumper Wires Set
10	Digital Multimeter	10	MetraVavi 6030A Digital TRMS Multimeter 6000 Counts with Back-lit LCD & overload protection
11	Soldering Iron	5	amiciTools Soldering Iron with Adjustable Temperatures 60W (Without Bits)
12	CRO PROBE	5 Piece	amiciTools P6100 100MHz for Tektronix Oscilloscope Analyzer Probe Kit
13	Printed Circuit Board Zero PCB	50	Product: general purpose zero pcb
			Base material: FR2
			Hole pitch: standard 2.54mm
			Dimension: 4inch x 4inch
			Model number: KS-44
			Board thickness: 1.4mm
14	FET Characteristic	2	FET Characteristic kit
15	SCR Characteristic	2	SCR Characteristic kit
16	Diode & Triac Characteristic	2	Diode & Triac Characteristic kit
17	UJT Characteristic	2	UJT Characteristic kit
18	Zener Diode Characteristic	2	Zener Diode Characteristic kit
19	MOSFET Characteristics	2	MOSFET Characteristics kit
20	RC Transistor oscillator	2	AC Oscillator of desired frequency
21	Wien Bridge Transistor oscillator	2	AC Oscillator of desired frequency
22	Hartley oscillator	2	AC Oscillator of desired frequency
23	Colpitt Oscillator	2	AC Oscillator of desired frequency
24	Different types of power Amplifier	5	Class A, Class B Push pull, Complementary Symmetry Amplifiers
25	Adder & subtractor kit	2	Trainer kit Half/Full adder & Subtractor
26	Diode Trainer Kit	2	Diode Characteristics Trainer (Silicon/PN Junction Diode, Zener Diode, LED'S, Germanium Diode, Fast Switching Diode) Make: MINE, Model: MI-BA04
27	IOT trainer kit	1	Kit Contents: 1. Boards: -Raspberry Pi, Arduino nano, ESP 01, 2. SD card, 3. Sensors: PIR, HCSR04, DHT11, Membrane

			keypad 4.Actuators-LEDs,RGB LED,Relay,Buzzer,16x2 LCD, stepper motor and Servo motor 5. Bluetooth module 6. Joystick module, 7. Bread board- TIFF LABS
28	Micro Python Board	2	Board based on Raspberry Pi Pico Board-XELTRONIC
29	TI TMSLCK6748 DSP development kit (LCDK)	2	375- and 456-MHz C674x Fixed- and Floating-Point VLIW DSP
30	NI DAQ card NI 9381	2	8 AI/8 AO/4 DIO, 0 V to 5 V, 12 Bit, 20 kS/s Aggregate
31	Local area network training system should consist of Local area network hardware trainer, LAN protocol simulator and analyzer software	2	
32	LASER fiber optic trainer kit	1	LASER 660 nm, on board photo detector with power meter
33	Advance fiber optics lab trainer kit	1	can perform WDM and chromatic dispersion
34	ZigBee/Equivalent Trainer kit	1	Integrated 2.4 Ghz,IEEE 802.15.4-compliant transceiver,integrated chip antenna, 13 GPIOs,3GPIOs for analog inputs:on board temperature, LDR sensor and variable voltage source for ADC,10 GPIOs for digital Input/outputs: on board Buzzer, 3 sliding switches, 3 outputs LEDs, Relay, status and power LEDs, USB A-B interface facility with PC, User friendly GUI for accessing the Zigbee modules.--
12.Department: Industrial Production Engineering			
1	3D Printer Pratham 5.0	1	Brand: Make3d , Automatic, Material Polymide, USB connectivity, Touch Screen
13.Department: Information Technology			
1	High Performance Processor	1	AMD Ryzen™ Threadripper™ 3960X Processor 24 core
2	High TDP CPU Cooler	1	Deepcool GamerStorm Fryzen (For AMD TR4 socket)
3	TRX40 Mother Board	1	ASUS ROG Zenith II Extreme AMD TRX40 EATX Motherboard for 3rd Gen Ryzen Threadripper-Series Processor
4	ECC RAM	4	3200MhZ 16GB ECC RAM (total 16GB x4 = 64GB RAM)

5	GPU	1	nVidia GeForce RTX 3080 TI 12GB GPU
6	PCIe 4.0 Nvme SSD with heat sink	2	Kingston KC3000 / SAMSUNG 980 PRO 1TB M.2 NVME GEN4 INTERNAL SSD
14.Department: Chemical Engineering			
1	Distillation 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 : 45X45X45cm
2	Magnetic stirrer with heater (Hot Plate)	2	(Auto temperature control), Capacity 2.5 liter, Digital Temperature Display, Temperature range upto 500°C, Magnetic stirrer regulator 1500 RPM Digital RPM Display
3	Heating Mental with energy regulator	2	Capacity 0.25 Liter, Digital Temperature Display, Temperature range upto 500OC
4	Heating Mental with energy regulator	2	Capacity 0.5 Liter , Digital Temperature Display , Temperature range upto 500OC
5	Heating Mental with energy regulator	2	Capacity 1 Liter, Digital Temperature Display, Temperature range upto 500OC
6	Digital ThermoHygro Meter	1	Multi-Function Display is Preferable Temperature, Humidity & Time with Alarm ClockMemory of Min / Max measuring value, OC and OF Unit selectable, Temperature range: -500C to +700C (-580F to +1580F) Humidity Range: 10% RH to 99% RH, Resolution: Temp. 0.10C (0.10F), Humidity: 1% RH Accuracy: Temp ± 10C, Humidity: ± 5% RH, Desktop Placing or Wall Mounting.
7	High Pressure Hydrothermal Vessel with PTFE Liner and Hot plate with bottom stirrer	1	High Pressure hydrothermal vessel with PTFE Liner. Material of construction for the Vessel: - SS 316L Only. Operating Temperature: - 1800C . Operating Temperature without PTFE Liner with graphic gasket: -5000C. Max Operating Pressure: - 0-25 bar. Design pressure: - 30 bar. Max Volume: - 100mL. Sealing Gasket: - Fluorocarbon & PTFE Gaskets,. One Gas inlet & one Gas Outlet Needle Valve. One

			Thermowell. One 63mm Dial Pressure Gauge. One Safety Relive Valve. Ceramic Fiber Insulation Jacket Tubular Type
8	Muffle Furnace	1	Maximum temperature 1000 °C- 1200 °C, temperature controlled by digital temperature controller cum indicator, with uniform heat distribution, Size of the working chamber : 4 inch X 4 inch X 9 inch
9	Sieve Shaker	1	Sieve Shaker Motorised carries 7 sieves, 20 cm diameter, The sieve shaker is driven by 1/4 HP motor through reduction gearbox, Suitable for operation on 250V, 50 Hz, AC supply
10	Water bath Incubator Shaker	1	Capacity/Volume- 355 mm x300 mm x165 mm, Material of construction: SS 304, Holding Capacity : Twelve flask of hundred ml, Heating Load: Approx. 2.5kW, Voltage: 220-240 V, Shaking Speed : 40-180 strokes per minute, Temperature Range: (50C-950C), Temperature control with accuracy of ±10C, Cover : Pyramid Type
11	Portable Digital pH meter	1	Table-Top, Display-LCD, Range: 0-14 pH
12	Micropipette with tip	1	Volume- 10 mL
13	Micropipette with tip	1	Volume- 1 mL
14	Pellet making Machine Diameter (12-13 mm)	1	Material: Hardened SS Cavity: 13mm (1 pcs), 10 mm (1 pcs)
15	Bench Top Multimeter	1	Range: Conductivity- 0.00 to 3000 mS, TDS- 0 to 19999 mg/L, Salinity- 0.01 to 80.0 ppt NaCl equivalent, 0.1 to 42.0 ppt practical salinity, Temperature °C - 5 to 105
15.Department: Mechanical Engineering			
1	Pyranometer	1	<i>First Class type pyranometer according to ISO 9060:2018, measuring range of 0~2000W/m², electrical output of 4.20mADC, supplied with shade disk, cartridge filled with silica gel crystals, 2 spare sachets, spirit level, 4 pole flying connector with 10m cable and calibration report.</i> Model: Delta-Ohm LPPYRA02AC. HS Code: 903180.

2	Wheather Station	1	<p>Digital wireless professional back-lit LCD display automatic weather station with data-logger & software, measures air temperature, humidity, barometer pressure, wind speed & direction, rainfall rate & totalized measurements, solar radiation, weather reports can be generated on daily, weekly, monthly & yearly modes, powered by DC power adapter for display console & outdoor unit, display console & computer are connected through USB data cable. Model: IADAVIS-6152 + 6510USB + 6450. HS Code: 901580.</p>
3	Data Logger System	1	<p>Digital universal 16 channel USB paperless color recorder / data logger system, data's can be retrieved through USB port by pen drive, reports viewed in form of text & graph formats using WINDOWS based software, with internal memory of 48MB, external pen drive memory of 8GB, supplied with USB pen drive, manual, software etc, enclosed in ABS enclosure, powered by 230VAC. Model: IAMPR500S-16. HS Code: 9031</p>
4	Moisture Analyzer	1	<p>Digital Halogen moisture analyzer, accuracy of 0.1%, heating range of 50~160°C increments of 1°C, heating profiles of fast, standard, ramp, step, display results in % of moisture, % of solids, % of regain, time, temperature, drying curve statistics, RS232 port, USB interface facility, powered by 230VAC Model: AXIS BTS-110. HS Code: 9031.</p>
5	Humidity Meter	1	<p>Handheld digital dual display humidity, temperature, dew point temp. & wet bulb temp.meter, measure humidity range:0~100%RH & temperature range:-20 to 60°C, power by 9VDC battery. Model: IAEQ321S. HS Code: 9025</p>
6	Hot Wire Anemometer	1	<p>Handhelds hot-wire type anemometer, air velocity measurement range of 0.01~25.00m/s, resolution of 0.01m/s,</p>

			<i>temperature measurement range - 20°C~60°C, data hold facility, flexible handle & measure air flow inducts, with telescopic extension probe powered by batteries & DC power adapter. Model: IATM-4001. HS Code: 9031.</i>
7	Infrared Thermometer	1	<i>Digital handheld infrared thermometer, range -50 ~ 550°C, C/F unit selectable, powered by 9VDC battery. Model: IAMT4. HS Code: 9025.</i>
16.Department : Botany			
1	Water and soil analysis kit	1	<i>Water & Soil Analysis Kit, Salinity Range 0 - 20,0 - 200Ppm 0 - 2,0 - 20,0 - 50Ppt,Tds Range 0 - 20,0 - 200 Ppm 0 - 2,0 - 20,0 - 200 Ppt,Conductivity Range 0-20, 0-200 Us, 0-2, 0-20, 0-200 Ms,Do Range 0- 20 Ppm,Mv Range (Mv) 0 To ± 1999.9 Mv,Temperature Range 0 - 100°C Is Part</i>
2	Digital pH Meater	1	<i>pH Range 0.00 to 14.00 pH pH Resolution + 0.01pH pH Accuracy + 0.01pH mV Range 0 to + 1999mV mV Accuracy +1mV Temperature Range 0 to 100o C Temperature Accuracy +1o C Calibration Points 2 points pH Buffer Options NIST (pH 4.00 / 6.86 / 9.18) or USA (pH4.01 / 7.00 / 10.00) Temperature Compensation 0 to 100o C, Manual or Automatic Power supply DC 9V, using AC Adaptor 220 VAC, 50 Hz Dimensions LxWxH (mm) 210 x 205 x 65 Weight 1.75 kg</i>
3	minus 20 Refrigerator	1	<i>Side By Side Refrigerator with Twin Inverter Technology that ensures the fan motor and the compressor both runs at DC current and causes less 4fluctuations, Capacity: 565 litres. Compressor: The refrigerator comes with Twin inverter Compressor that makes it cost and energy efficient</i>
4	Orbital Shaker	1	<i>Max Speed - 50-500 RPM, Rotation - Orbital, Linear, Dimensions - 350X408X105, Motor type - BLDC, Run Time - 0-99 hrs, and 0-60 min</i>

5	Weighing Machine	1	range - 0.001gm to 100gm. Accuracy 100%.
6	Clevenger	2	Flask capacity-2000ml, Flask capacity-1000ml
7	Shaker Incubator	1	SS 304 / Outer CRC powder coated ; Temperature Range: Temp Range 5°C above ambient to 60°C ± 0.5°C (Heating only) or 10°C to 60°C ±0.5°C (Cooling Heating) 500 ml X 25 flasks, Digital Timer with Audio Visual Alarm, Chamber illumination with fluorescent tubes, 0-24 hrs. Cyclic timer for illumination control
8	Double distillation unit	1	Distillation rate: 2.5-L per hour, Electrode Material- Carbon, Material- Stainless Steel, Automation Type- Automatic, Power Source- Electric, Voltage- 220 V, Frequency; 50 Hz, humidity- 75-95.
9	Surface Tensiometer	1	Measurement Range: 7~40 N/cm, Display Range: 0~50N/cm, Resolution: 0.1
10			Accuracy: +/-0.5 N/cm, Operating Environment: Temperature:0 ~ 40 C,, Humidity:10 ~ 90%RH, Power Supply: 4x 1.5 V AAA Size (UM-4) Battery, Declension: 175x 95 x 40mm, Weight: 490 g (Not Including Batteries)
11	Digital CO ₂ monitor	1	Measurement range 0-1000 ppm in air with data logger/transfer facility and time interval settings
12	Water shaker	1	Purification Capacity in an hour (in liters):15, storage Capacity (in liters):12 ,Installation Type: Wall Mount, UV lamp wattage (in Watts)-11, UV lamp life span in hours-25000, Height (in cm)-39,
13	Humidifier	1	Deerma Dem, maocan, Water Tank Capacity (l):1.1-2.5L, Dehumidification, Volume:<1.1L/h, Voltage (V):220V, Capacity (pints / 24h):20L/DayPower (W):<500W, Dimensions (L x W x H (Inches):290x180x490mm
14	Moisture meter	1	Measuring Range: 3.5 to 40 %; Consistency : ± 0.2 % to ± 0.5 %;
15	Battery for PAM	1	Battery of Pam

16	Benchtop UV Transilluminators	1	Compact, eight-watt models with single UV wavelengths (302nm UV) and choice of filter sizes. Lightweight, portable.
17.Department: Zoology			
1	UV Visible double Spectrophotometer	1	Model Name/Number: UV-VIS SSUV705 ABS
2	Weighing Balance For Laboratory	1	Model name: RADWAG , Weighing Capacity: 220Gm, Digital
3	PH Meter	1	Model Name/Number: Labman LMPH12, Ph Range:-2.000 To 20.000
4	Ice Cube Making Machine	1	Brand: Byahut Scientico, Frequency:50/60hz, Voltage:220-240, Capacity: 20L
5	Borosilicate Glass Double Distillation Assembly	1	Brand:Unity Glass Industry, Capacity:500-1000ML
6	UV transillumination	1	UV transilluminator 312 nm (20BM X 20 CM)
18.Department: Pharmacy			
1	Filtration assembly	1	Borosil/5350029
2	Vacuum pump Oil Free	1	Borosil/Boro-017
3	Magnetic hot plate stirrer	1	Borosil/HLS200
4	Heating mantle 250	1	Borosil/GMC 250
5	Heating mantle 500	1	Borosil/GMC 500
6	Heating mantle 010	1	Borosil/GMC 010
7	Magnetic stirrer	1	Borosil/MCS001
8	Hot plate	3	Tarson
9	Hot plate	2	temperature control upto 200°C, diameter 12 inch, material-mild steel; Tarson
10	Soxhlet apparatus (complete set)	250 mL-02	Borosil/Equivalent
		500 mL-02	Borosil/Equivalent
		1000 mL-02	Borosil/Equivalent
11	Heating mantles	6	Glassco/Equivalent
12	Magnetic Stirrer	3	LED display with speed regulator
13	Micro Pippete	1000 µL-03, 100 µL-02	1000 mL and 10-100 µL; P'fact
14	Water Bath	6	6 holes, digital temperature controller with display; Tarson

15	UV Cabinet	1	UV Exposed area:, 300 x 300 nm, UV Tubes, Short wave 254nm, long wavelength 366 nm, white light UV window; Anchrom
16	Hamilton syringe	1	hamilton syringe type for HPTLC, 100 µL, flat needle type; Anchrom
17	Muffle furnace	1	temperature=100-1000°C or better, volume = 10 liters or better, LED display
18	Crude drug grinder	1	For size reduction of plant material
19	Double Distillation assembly	1	Double distillation/Borosil
20	Western Blotting	1	Citizen /Weighing capacity1kg
21	Cyclomixer	1	Remi/Borosil
19.Department: Forestry			
1	DOUBLE DOOR REFRIGERATOR	1	Product id: 5116877-22593625190 Country Of Origin: India Conformity to Indian Standard IS:15750(2006) for Frost Free Storage Volume(NET CAPACITY) (Litres) 300 Type of Door Double Insulation Puff Method of Defrosting Frost Free BEE Star Rating as on date(Central Ministries/ Departments while procuring shall ensure that the items carry 4 star or higher Star Rating of BEE) 2 Coil Material Copper (Cu) Type of Finish Metallic Colour Silver
2	PORTABLE COLORIMETER WITH ALL ACCESSORIES	1	Make : M/s. Lamotte Company, USA Model: Smart 3 Colorimeter,
3	DOUBLE DISTILLING APPARATUS	1	Frequency: 50Hz,Voltage: 220V, Feature: Durable, Capacity: 1-5 Liter, Direction Of Flow: Horizontal, Material: Glass
4	HAND HELD GPS	1	Product id: 5116877-24855820081, Country Of Origin: United States of America, Pre-loaded Handheld Software:yes, Paperless Geocaching:yes, RAM (GB):1 gigabyte, Micro SD Card Slot:yes, Display Size (Diagonal) (Inches)
5	WOODEN SPHERICAL CROWN DENSIMETER	1	Material: Wooden, Country of Origin: Made in India, Size: 3x3 Inch, Type: Forestry Suppliers Spherical Crown Densimeter, Shape: Square, Color: Brown.

6	PHOTODIODE SODIUM, POTASSIUM FLAME PHOTOMETER,	1	Product id: 5116877-72828884220, Country Of Origin: India, FEATURES Reproducibility (+/-, in %): 1 Operating Humidity & RH& (%) Operating temperature range: 10 to 35 degree or Better, RH: 0 to 85% @ 35% or Better Accessories: Each unit of Flame photometer shall be supplied with offered filters and Sample Beaker (05 Nos). CONFIGURATION Display at least 3 lines LCD Flame photometer is capable to analyse elements in sample:Sodium,Potassium,Calcium,Lithium Filters: Each unit of Flame Photometer to be supplied with filters for Sodium and Potassium, in addition the offered unit to be supplied with filters for: Sodium, Potassium Accuracy (+/-, in %):2 Flame photometer shall be supplied with built in oil free air compressor with Built-in Air Filter with pressure regulator & gauge to deliver stable and moisture / oil free air supply: Yes Whether the Flame photometer unit is offered with digital interface along with software required for sharing sample data in digital form with computer: No Aspiration rate (ml/min):3 Sensitivity (Sodium/ Potassium/Lithium : 1ppm and for Calcium: 15 ppm): Yes Detector Photodiode Ignition System Auto ignition Flame Photometer has memory sufficient to store and recall at least 800 samples: Yes Power Requirement: 230 V +/- 10, 50 Hz AC single phase supply Printer Port (RS 232/USB) available: No.
7	MICROSCOPE	5	Brand Name: Generic, Number of Items: 1, Part Number: NSI-BM. High Quality Product, Medical Microscope for Hospital, Clinic, Laboratory, Eye Piece – 10x or 15 x , Optical – 10x or 45X 100X.
8	LASER RANGEFINDER HYPSONETER	1	Brand : Nikon, Are Batteries Included :Yes, Colour: Yellow, Battery Description: Lithium, Water Resistance Level

20.Department: Biotechnology			
1	Autoclave Vertical	2	Standard Sizes -300 mm x 500 mm, Working Pressure- 15 to 20 psi, Temp. - 121°C to 125°C, Low water indicator
2	pH Meter	3	pH Range -2.00 to 14.00 pH, pH resolution 0.01, Temp range 0 to 105°C , Display LCD
3	Hot air Oven	2	Temperature range-Ambient +5°C to 250°C (Optional300°C), Inner chamber-Stainless steel , Insulation-Glass Wool, Capacity (Litres) – 45 Ltr
4	Incubator	1	Double walled construction with complete inner chamber made of highly polished stainless steel, Temperature Range- Ambient + 5 to 65 °C, Inner Chamber Dimension (SS) WxDxH (mm),
5	Vortex Mixture	2	Usefull for stirring centrifugal yubes, test tube or small flask, mixing action is controlled by varying the angle and pressure of the tube against the cup , fitted with speed control arrangement, fitted with a neoprene rubber cup mounted
21.Department of Rural technology			
1	Trinocular Microscope with fluroscence and camera attachment -	1	Trinocular Microscope with fluroscence and camera attachment -standard complete microscope set with Siedentopf Binocular head, integrated 6V 20W halogen light illuminator, Anti-Fungal coated; PlanAchromatic Objectives 4x,10x,40x (spring) & 100x (oil, spring), paired wide field eyepieces 10x (F.N.20), manufactured under license from Olympus Corporation, Japan. Features : UIS2 Infinity Plan Optics for excellent image flatness, Siedentopf binocular head for IPD adjustment, Anti-fungus treatment for tropical durability, Highpoint paired eyepieces (F.N.20). MAGNUS Epi-LED Dual Filter - Blue & Green - REFLECTED DUAL LED FLUORESCENCE LIGHT ATTACHMENT (WITH FRONT SELECTION OF FILTER CUBE & SWITCHING LED SWITCH) WITH 480nm

			BLUE & 535nm GREEN EXCITATION FOR IMMUNOFLUORESCENCE TESTS Standard set consists of : High efficiency 480nm & 535nm LED illuminators, filter slider with Blue filter cube consisting of excitation band pass filter 480nm & long pass emission filter 510n and Green filter cube consisting of excitation band pass filter 535nm & long pass emission filter 575nm complete with Camera attachment with adaptor for above microscope
2	Orbital shaking incubator -	1	Capacity 16x500ml, temp. range 5 to 60C with lighting arrangment to hold 16 flasks 250ml
3	Analytical balance	1	Capacity 220gm, Accuracy 0.001gm, Pan size 100mm
4	Budding and grafting knife	30	Steel, Brand Name-Fallcon
5	Secateur	20	Super Pruning Secateur (Steel), Brand Name-Fallcon
22.Department: Forensic Science			
1	Visible Spectrophotometer	1	Single beam, Grating 1200 lines/mm, Wavelength Range-325-1000nm, Bandwidth-4nm, Photometric Accuracy-±0.5%T, Photometric Range--0.3-3A,0-200%T, -0.3-3A, Detector-Silicon Photodiode, Light source-Tungsten Lamp, Power supply-AC 220V/50Hz, Display-LCD, software with glass cuvette (4), ELICO/LABMAN make
2	Soxlate	1	6 heater, 50-500 flask volume, voltage-220-240 V, Frequency-50Hz, stainless steel material, with all accessories
3	Magnetic stirrer with Hot plate	1	Magnetic stirrer 5 litres capacity with hot plate & Digital Speed Indicator- REMI make
4	Micropipettes (variable)	5×2	0.1-2.0 µl, 02-20 µl, 05-50 µl, 10-100 µl, 100-1000 µl (Thermo/Himedia)
5	Hood (Laminor air Flow)	1	EU6 – Prefilter (95% down to 5 micron)EU14 - HEPA Filter – Supply (99.999% down to 0.3 micron), Statically & Dynamically balanced Motor-blower with suspension a, level Doors with double walled flush glass view panels SS Handles

			& SS hinges Internal covings Electro-magnetic Interlocking Indicator, Differential Pressure Gauge : 1 No. On / Off Switch for Motor DOP Test Port, Air cleanliness : ISO Class 5 (ISO 14644-1:1999 (E)), Air Velocities : 0.45 ± 0.05 mps, Air Flow : Horizontal, POWER SUPPLY : 230V AC 1- 50HZ, U. V. Light with Hour MeterAir, material- stainless steel, Vertical type, make-Vent
6	Horizontal electrophoresis with accessories	1	Dimension (L*W*H) 20.6*11.6*6 cm base unit with detachable platinum electrode, comb-12 and 20 well polished color adjustable thickness-1.5 mm (2 each), Gel size - 5*12.5 (2 no.), 10*12.5 three slots (1 no.) 3 well comb, buffer volume-400 ml, power cord, sefty lid, gel casting assebly with acrylic gel tray (Medox/Genei)
7	Vertical electrophoresis with accessories	1	Buffer tank, Mini Dual vertical gel casting assembly with platinum electrode, glass plate- 10*10cm (4), gel size-8*7 cm, 7 well acrylic combs, spacers (10), safty lid with power cords (4)Medox/Genei
8	Power Pack	1	Input 220 V A.C., 50-60 Hz, output-0-300 V, 0-300 amp, fuse- 2.5amp, digital display of volt and current , timer-0-999 min Medox/Genei
9	Plateform Rocker	1	Maximum RPM : 60, Speed controller : Analogue, Timer : Digital, Time range : 1-99mins/Cont., Platform Size : 25 x 25 cm, Dimension : 25 x 25 x 17.5 cms, Input Voltage : 230V, 50Hz, A.C. supply
10	Water double Disstilation unit	1	Main body-mild steel powder coated, Glass- Borosilicate, Heater load-1Kw each, Heater material-ceramic with spiral element, heater tube-quartz, distillation output-2.5-3 liter/hours
11	Human skeleton (full body)	1	Original or artificial whatever available
12	Heating Plate	4	ceramic material, temp range up to-350-400 C, electric power source
13	CYCLO MIXER	1	Vortex Mixer with brushless motor & suitable for Interchangeable mixing Heads-REMI make

14	Shaker	1	ROTARY SHAKER with digital indicator and timer, max. speed 50-400 rpm, with platform size 12" X 12", 5*500 ml flask capacity with clamps- REMI make
15	UV chamber	5	Chamber with UV light
16	UV tarch	3	UV bulb (Technomaxx)
17	Alternate light source	1	LED Light Output: VIOLET UV, BLUE Amber, WHITE, Royal blue, cyan, Green,Red, IR, white light (Technomaxx make)
18	Image analyzer	1	image analyzer with UVA/UVC, white, IR, Blue, magnetic imaging, all round 5 million pixel sensors (SZZCX forensic make)
19	Microcentrifuge	1	MICRO CENTRIFUGE max. speed 16000 RPM, with brushless induction motor, frequency drive, LED display of speed and time, imbalance detector, dynamic brake, safety lid lock lock and rotor identification, Angle rotor suitable for 24 micro tubes of 2ml with suitable inserts
20	Autoclave	1	chamber volume-100 liter, vertical, double wall, manual/ semiautomatic opration, temprature range-100C, presure controller, 220 V-AC
21	Heating block	1	1.5 ml well for 24 tubes
22	Bench top coolar (ice coolar)	1	1.5 ml well for 12 tubes
23	Deep freeze -20C	1	320 L double door, 230V, 50Hz frequency, Material - metal

23.Department: Chemistry

1	Water bath with thermostat 02 (10 Port)	2	Remi
2	Ice Maker	1	Remi
3	Oven	1	Remi
4	Melting point measuring Device	2	Remi
5	Heating Mantle	3	Remi
6	Ultrasonicator	2	Remi
7	UV-Vis Chamber	1	Remi
8	Holding Stand	10	Remi
9	Holding Clamp	20	Remi
10	Plastic Siphon Pipe	2	Remi
11	Weighing Balance	1	Remi

12	Graduated Measuring Cylinders	5	Remi
13	Petri Dish	25	Remi
14	pH Meter	4	Remi
15	Conductivity meter	4	Remi
16	Backmann Thermometer	4	Remi
17	calorimeter	4	Remi
18	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
19	Digital Photo Colorimeter	1	Brand Name hitech lab india Number of Items 1 Part Number HT-124
20	Bio Gene Magnetic Stirrer With Hot Plate.	10	Biotechnologiesinc.. Maximum Heating Temperature up to 200°C. Highly Polished Stainless Steel Top Plate for Optimum Heat Transfer Housing: MS Powder
21	All Quartz Double Distillation Unit, Demountable Boiler Panel series, Vertical Model, 3365 1.5 L	1	Borosil Fluid Output 1.5 l/hr Notes 3365 Vertical All Quartz Double Distillation Unit Item Code 3366541
24.Department: Physics			
1	Specific Rotation of Sugar Solution using Polarimeter	1	Complete Set-up;As per the latest specification Compact quartz Polarimeter :Polarimeter tube (small) Polarimeter tube (big)Funnel ,Beaker, Pipette Sodium vapour lamp light Measuring range of optical rotation : +/- 180Division Value: 1°Least count: 0.05°Magnifying factor of the magnifying glass : 4 times Monochromaticlight source : 5893A°Power line voltage: 220V,50Hz Working current: 1.3ADischarging power: 20WStabilization time: 5 minutes . Make :1. OSAW INDUSTRIAL PRODUCTS PVT. LTD.P.O. Box No. 42, Osaw Complex

			<p>Jagadhri Road, Ambala Cantt-133001 Haryana (INDIA) Phone: +91-171-2699347, 2699267 Fax: +91-171-2699102, 2699222</p> <p>2. Super Scientific Industries Cross Road-2, 1192, Bengali Mohalla, Ambala Cantt, Near Haryana bekery Ambala -133001, Haryana, India Phone: 08048931436</p> <p>3. Scientech Technologies Pvt. Ltd. 94, Electronic Complex, Pardesipura, Indore - 452 010, India</p>
2	Measurement of susceptibility of paramagnetic solution (Quinck's Tube Method)	1	<p>Complete Set-up As per the latest specification ,Quick's tube fitted on stand, Electromagnet ,Power Supply for Electromagnet U Tube with Stand, Digital Gauss Meter Electronic Balance, Funnel ,Connecting leads Digital Gauss Meter - Range: 200 G & 2 kG Resolution: 1G at 0-200G Offset: By potentiometer to set zero Input Voltage: 220 V, ±5%, 50 Hz AC Axial Hall probe: In As Traveling Microscope Horizontal 170mm, Vertical 110mm Least Count: 0.01mm Working distance: 50mm Eyepiece Ramsden : 8x Reticle: 90° cross on glass. Power Supply: Voltage: 0-16 Volt DC continuously variable & stabilized Ripple: Less than 25mV Overload protection: Current limiting Current: 5 Amp. continuously variable from 10% to full rating Display: Two separate displays(3 digit LED) are provided to monitor the output voltage and load current continuously Working voltage: 230V AC, 50 Hz single phase Digital Weighing Scale - Capacity: 700g. Display: Digital ,Least count: 0.1g. Body: Plastic Electromagnet: Coils: 400 turns. Coil Current: 4.5Amp (Max.) Connection: 4mm safety socket Core: 150x130mm (LxH), 40x40mm cross section. I Core: Length=150mm, 40x40mm cross section. Core material: Ferromagnetic. 1. OSAW INDUSTRIAL</p>

			PRODUCTS PVT. LTD.P.O. Box No. 42, Osaw Complex Jagadhri Road, Ambala Cantt-133001Haryana (INDIA) Phone: +91- 171-2699347, 2699267Fax: +91-171- 2699102, 2699222
3	Hydraulic Press with pallet holder	01	
4	Chemical Balance	01	
5	Mortar Pastel 5" size	01	
6	GEIGER COUNTING SYSTEM	02	20x2 LCD dot-matrix display for counts, elapsed time and HV Variable HV (0-1500V), 1mA
7.	ESSENTIAL ACCESSORIES FOR G.M. SYSTEM: a. 1" wide end window GM detector b. Sliding Bench with detector holder and source holder for GM125 Detector	02 01	
8.	Zeeman Effect	01	Experiment Complete in all respect including 16" LED Flat Panel monitor and CCD Camera Experiential Set-up for Zeeman Experiment The set-up consists of the following: 1. High Resolution Fabry Perot Etalon, FP- 01 2. Mercury Discharge Tube, MT-01 (Low Pressure Mercury Discharge Tube) 3. Power Supply for MT-01, ZPS-02 (High Voltage Power Supply for Discharge Tube) 4. Narrow Band Interference Filter, IF-01 Central Wave Length: 546nm Tmax: 74% HBW: 8nm 5. Polarizer with lens, PL-01

			<p>6. Optical Bench: OB-01 7. CCD Camera: CAM-700 (High Resolution CCD Camera) 8. Telescope with Focussing Lens: FL-01 9. Monitor 17 : TV-17 10. Electromagnet, EMU-50T (Specifications as per datasheet) 11. Constant Current Power Supply, DPS-50</p>
9.	<p>MICROPROCESSOR 8085 TRAINER KIT Model no.: student-85pc</p>	01	<p>Based on 8085 CPU operating at 6.144 MHz crystal frequency. 8K bytes of EPROM loaded with powerful monitor program. 8/32K bytes of RAM available to the user Battery backup provided for RAM area. Total on board memory expansion upto 64K bytes. Memory mapping definable by the user. 16-bit programmable TIMER/COUNTER using 8253. 24 programmable I/O lines provided through 8255. RS-232C interface through SID/SOD Lines with Auto baud rate. 16x1 LCD display with backlite. Facility for Downloading/Uploading files from/to PC Facility of writing program in assembly language In-Built Power Supply User's Manual.</p>
10.	<p>microcontroller 8051 TRAINER KIT Model no.: vmc-31/51lcdp</p>	1	<p>Based on 8051/89C52 microcontroller On board 32K RAM. Battery backup for RAM area 64 K bytes of EPROM with powerful monitor program 48 I/O lines using 2 Nos. of 8255 3 channel programmable timer/counter using 8253</p>

			<p>Two external interrupts INTO & INT1 from CPU 20 x 2 LCD (Liquid Crystal Display) is provided for display IBM PC compatible keyboard for entering the program, editing and executing the programs. In-built Power Supply Detailed User's Manual.</p>
11.	bread board TRAINER KIT Model no.: dl-dtkp	1	<p>8 TTL compatible logic level inputs. Logic HIGH and logic LOW are displayed by dual color LED. Four crystal generated clock output of 1MHz, 100Hz, 10Hz, and 1Hz. Facility for single pulse generation by a push button switch. Logic probe to check logic LOW, logic HIGH and pulse. Four seven segment displays with BCD inputs. Facility of segment control on two displays. Bread board area with facility of more than 1200 TIE points. In-built Power Supply User's Manual, Cables & Connectors.</p>
12.	EDUX1052A Infinii Vision 1000XSeries Oscilloscope, 2 Ch,50MHz Keysight Make	01	
13.	Design a 4 X 1 Multiplexer using gates. Model no.: dl-mdt	01	<p>To study operation of Multiplexer & De-Multiplexer Logic I/P switches Logic Status Indicator Set of Patch chords In-built Power Supply User's Manual</p>
14.	Amplitude Modulation and Demodulation kit Model no.: ct-am	01	<p>HARDWARE SPECIFICATION: Carrier Generator 100 KHz Modulating signal Generator at 1 KHz Amplitude Modulator Amplitude Demodulator</p>

			Inbuilt Power Supply Enclosed in an ABS plastic cabinet with cover Set of 2mm Patch Chords & Manual.
15.	Frequency Modulation And Demodulation kit Model no.: ct-fm	01	HARDWARE SPECIFICATION: Carrier Generator 75 KHz Modulating signal Generator 10 KHz Frequency Modulator Frequency Demodulator Inbuilt Power Supply Enclosed in an ABS plastic cabinet with cover Set of 2mm Patch Chords & Manual
16.	Designing of a First Order Low-pass-high pass filter using op-amp. Model no.: al-aft	01	Circuit diagram printed on PCB. 220 V, Built in IC regulated power supply Enclosed in an attractive ABS plastic cabinet with cover. Detailed instruction manual
17.	To determine the Characteristics of resistance transducer - Strain Gauge Model no.: tt-sgt	01	Parameter Measured: Strain in terms of Kilograms on a cantilever beam. Measurement System: a] Weights b] Transducer with electronic instrumentation. Transducer: Temperature compensated strain gauge. Type: Cu-Ni foil with polyamide carrier base. Gauge Resistance: 350 Ohms (Nominal). Gauge Length: 6mm. Gauge Width: 2.4 mm. Gauge Base: 12.5 mm x 4.3 mm. Gauge Factor: 2:1 (approx.) Transducer: Strain gauges mounted on a stainless-steel Measurement cantilever beam. Configuration: Bridge with two arms as strain gauges (Wheatstones Bridge principle). Range: 1.00 Kilograms. Actual Strain: By various weights to be placed in a pan fixed with the beam. Excitation Source: DC Regulated source.

18.	Study of Thermoluminescence of F-centres in Alkali Halide Crystals	01	<p>The set-up consists of following units: Experimental set-up for creating the Thermoluminescence, (Oven with power supply, digital thermometer, samples, black box etc.) (b) For Measuring of Luminescence Intensity</p> <ol style="list-style-type: none"> 1. Photomultiplier Tube-931A/ R11558 2. PMT Housing with biasing circuit 3. EHT Power Supply, Model EHT-11N 4. Digital Nanoammeter, Model DNM-121 <p>Complete in all respect, except XRF/ XRD facility SES instruments PVT. Roorkee</p>
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25.Department: CSIT

1	Arduino UNO Board	30	
2	NodeMCU ESP8266	20	Can be use (only one in single kit) ESP8266 or ESP32
3	ESP32S Wireless WiFi+Bluetooth Module	10	
4	Raspberry Pi 4 Model-B with 2 GB RAM	10	
5	LED 5mm	100	
6	Push Button	60	
7	IR Sensor Module	60	
8	DC Geared Motor	60	
9	L298N Motor Driver	30	
10	US-100 Ultrasonic Sensor Distance Measuring Module	30	
11	HC05 Bluetooth Module	30	
12	SG90 Micro Servo Motor	30	
13	16x2 LCD Display with I2C module	30	
14	Potentiometer	30	
15	Chassis Set	30	
16	Bread Board	30	
17	Caster Wheel	30	

18	Flex Sensor 2.2 inches	30	
19	Soil Moisture Sensor	30	
20	DHT11 Digital Temperature & Humidity Sensor	30	
21	M222 HC-SR501 PIR Motion Sensor	30	
22	MQ-2 GAS Sensor	30	
23	3D Printer	1	
24	3D Printer Filament	10	
25	Drone Kit	10	
26	Drone Battery 3500mAh	10	
26.Department: Physical Education			
1	Skeletal system model	1	Anatomical Model 85cm Skeleton with Nerves and Blood Vessels
2	Human Digestive system model	1	Anatomical Human Digestive System Model SKU: MEN315
3	Nervous system model	1	Anatomical Nervous System Model SKU: C30
4	Anatomical Motor End Plate Model	1	Anatomical Motor End Plate Model SKU: C40-4
5	Human anatomical charts, all joints, all movements (all charts)	1	All charts
6	Pulse oxymeter	1	Omron CMS50N Contec Pulse Oxymeter
7	Posture Analysis & Deformities chart	2	Posture chart
8	Skinfold Caliper Body Assessment Software	1	Harpenden skinfold caliper body assessment software
9	Sit & Reach Flexibility Test	1	Body flexibility tester
10	SPORTS NUTRITION (L) Chart	1	SKU: DPE041L
11	SHORT TERM EFFECTS EXERCISE (L)	1	SKU: DPE046L
12	Apple Watch to measure Resting Pulse Rate	3	Apple watch TO measure resting pulse rate
13	Peak flow meter	2	Peak Flow Meter
14	Goniometer	1	Goniometer Leighton Type
15	Reaction Time apparatus.	2	R T Apparatus
16	Electrometer Tachistoscope	1	Tachistoscope Gravity
17	Chest depth calipers	1	SS Digital Vernier Calipers, Range:Max 150 mm

18	Easy One Air portable & PC Spirometer	2	Portable DLCO, MBW, Lung Volumes, LCI and Spirometry
19	Skinfold Caliper	1	Harpenden Skinfold Caliper, Baty International RH15 9LR England CE 0120
20	Speed Radar gun	1	Bushnell Digital Tachometer SR-20 Speed Radar Gun
21	Stadiometer	4	Standard Steel Folding Height Measuring Stand, Model: Ch01
22	Anthropometric Kit	01 set	Harpenden Anthropometer Kit
			Texon corporation, Mumbai
27.Department: Anthropology			
1	Anthropometer Rod (Brass)	5	Anthropometry Rod (Brass)
2	Sliding Caliper (Blunt End)	5	Sliding Caliper (Blunt End)
3	Spreading Caliper (Round End)	5	Spreading Caliper (Round End)
4	Weighing Machine	5	Weighing Machine
5	Digital Blood Pressure Machine	5	Digital Blood Pressure Machine
6	Glucometer (Digital)	5	Glucometer (Digital)
7	Lange Skinfold Caliper	5	Lange Skinfold Caliper
8	Instruments Carrying Rucksack Bag	5	Instruments Carrying Rucksack Bag
9	Omron Karada Scan Body composition Monitor HBF-701	5	Omron Karada Scan Body composition Monitor HBF-701
10	IndoSurgicals Infantometer, Height Measuring Scale	5	IndoSurgicals Infantometer, Height Measuring Scale
11	MCP Electronic Digital Baby Infant Pet Bathroom Weighing Scale- 20 Kgs,	5	MCP Electronic Digital Baby Infant Pet Bathroom Weighing Scale- 20 Kgs,
12	Mandibulometer	2	Mandibulometer (improved execution black type) made of brass Wt. 1.5kg