गुरू घासीदासविश्वविद्यालय, बिलासपुर (छ०ग०) Guru GhasidasVishwavidyalaya,

(A central University)

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

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



Ref.: NO.: 40/ E-TENDER /STORE/GGV/Min.Equip./2019,

DATE: 21/08/2019

<u>Tender notice</u> 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 downloaded from the websites:he 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. 1,50,000/-addressed to the Assistant Registrar (store), Guru GhasidasVishwavidyalaya, Koni, Bilaspur, C.G.-495009 should reach up to 3.00 PM on or before 16/09/2019 The technical Bid shall be opened on 17/09/2019 at 3.30 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

Guru Ghasidas Vishwavidyalaya, invites "E-Tender" from the reputed firms to purchase 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 DD of the tender cost Rs. 1,500/- (Non refundable) and DD/FDR of the EMD Rs. 1,50,000/-, addressed to the Assistant Registrar (store), Guru GhasidasVishwavidyalaya, Koni, Bilaspur, C.G.-495009, should reach up to 3.00 PM on or before 16/09/2019 The technical bid shall be opened online 17/09/2019 at 3.30 PM

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SALIENT DATES

1 Last Date of submission (Online) :	16.09.2019 upto 3.00 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)	16.09.2019 upto 3.00 PM
3. Pre Bid Meeting : (Venue: Conference Hall, Administration Building , GGV, Bilaspur)	28.08.2019 at 12 Noon
4. Opening of Technical Bid5. Financial Bid* (as per BoQ in e-tender submitted online only)	17.09.2019 at 3.30 PM 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 <u>www.e-procure.gov.in</u> 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 GhasidasVishwavidyalaya, 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 GhasidasVishwavidyalaya", payable at Bilaspur (C.G), from any nationalized bank.

1.2 Earnest money deposit (EMD)

An EMD of Rs.1.5 lakh (refundable as per terms & condition of the tender) should be in the form of DD/FDR in favour of "Registrar, Guru GhasidasVishwavidyalaya", 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.
- 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 03 years of experience in dealing with Minor equipment 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 2016-17) with a minimum average annual turnover of Rupees 80 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)

	Eli	igibility Cri	iteria for Bi	dders Claus	se 2.0	
Clause no. 2.0	Annexure	SATISFIED CERTIFICATE	GIVE THE RELEVANT PAGE NO IN THE BID DOCUMENT SUBMITTED BY THE BIDDER		Remarks	
110. 2.0				From	То	
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
- 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 AnnexuresI, 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. <u>Downloading of the E-Tender</u>:

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 <u>TECHNICAL BID:</u>Followingduly 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.
- 1. 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 etendering 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 GhasidasVishwavidyalaya, 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 <u>Hard copy to be submitted in a sealed envelope to the "Assistant Registrar</u> (Store), Guru GhasidasVishwvisdyalaya, KoniBilaspuer(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 evaluatedas 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.

	Technical Specifications of Minor Equipments		
Item no	Minor Equipment	Specification	Quanti ty (May Vary)
1.	4mm Banana Plug with Set Screw Connection wire	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	300
2.	AM Transmitter/Receiver kit	LAB DSB/SSBAM transmitter and receiver Trainer are very versatile and completely self-contained laboratory instrument built in regulated power supply with short circuit protection. Microphone with built in amplifier and Loudspeaker with build in power amplifier is provided with this trainer This trainer consists of the following fundamental circuits. TransmitterAF oscillator,RF oscillator,90'C phase shift circuits, Balanced modulators, Summer, ReceiverProduct detector,Filter,Power amplifier Function: Sine. Frequency x1: 20Hz to 200Hz. X10: 200Hz to 2 KHz. Amplitude: 0-10V (P-P).2mm/4mm socket and connecting lead wires. Instruction manual etc.	01
3.	Amplitude Modulation and Demodulation kit	Message Signal: Sine wave Frequency 100 Hz to 2.8 KHz,: Amplitude 0 to 5VCarrier Signal: Sine wave Frequency 28 KHz to 108 KHz : Amplitude 0-5V Modulation: Balanced ModulatorAmplifier: Op Amp Based Demodulation: Diode Detector & LPFLow Pass Filter: 6th Order LPF Supply Voltage (Board): +12V, +5V / DC (in built)Supply current: 100 mA (Minimum)Input Voltage: 230 V/ 50 Hz ACInterface connectors: 4mm socket and connectors. Give check points in front f or checking msg. signal, carrier signal, modulate signal demodulated signal and after filter out put signal. Experimental manual, Etc.	02
4.	AnalogMicrometre	Analog micrometres to cover measuring range 0-25 mm, 25-50, and 50-75 mm, Resolution 0.01 mm	02
5.	AnalogOscilloscope 30 mhz	ScientificDual Channel, DC to 30 MHz, 1mV/div., Invert facility in Both Channels Time Base : 20 ns -0.2 s/ div., Variable Hold- Off Sweep Delay X10 Magnification XY Mode Triggering : DC-60 MHz, Active TV Sync Sep., Alternate triggering Component and Continuity Tester, 2 Level Calibrator,Overscan Indication	01
6.	Angle gauge	Insize 4806-20 falcon, The Cruz-All consists of an aluminium die-cut gauge, a 25" bead chain, and a button end, weight-0.15lbs	02
7.	Anthropometric Rod	Four rods attached at exclusive points to become a single rod to measure up to 200cm lengthwise. Two small rods facilitate to clamp the bone and measure breadth wise at the same time upto 25cm.Chromium plated	08

		brass rods with smooth finish, movement and clear markings.	
8.	Anvil	Weight = 40kg Horn Length= 15inch, Total Length = 25inch	04
9.	Arrowhead Forensics Master Fingerprint Kit	 2oz Black Powder, 4oz Black Magnetic Powder, 4oz Dual Use Magnetic Powder, 4oz Fluorescent Blue Magnetic Powder, 4oz Fluorescent Orange Magnetic Powder, 4oz Fluorescent Yellow Magnetic Powder, 4oz Fluorescent Pink Magnetic Powder, Roll 2" Frosted Lifting Tape Powder, Roll 2" Clear Lifting Tape, Mini Scalpel Cutter, Bottle Rough Lift, Fiber Brushes, Feather Brush, Zenith Magnetic Applicator, White Lifting Cards, Black Lifting Cards, UV Lamp 	02
10.	Automatic Plastic Moulding Machine	Type: Automatic, Material: HDPE, PE, PP, PS, Power: 14kw	01
11.	Balance Digital (0.01 gm)	Accuracy- 0.01g, Capacity- 200g, Pan Size- 100mm)	03
12.	Basketball (Official Size)	Size: Official Size	10
13.	Benchtop UV Transilluminators	Compact, eight-watt models with single UV wavelengths (302nm UV) and choice of filter sizes. Lightweight, portable.	01
14.	Bheem Mini Power Tillers, Engine Model: 600d	Type- Single cylinder, Bore x stroke-86X72mm, Displacement-418cc, Rated power-8 HP, 3000rpm, starting method-Rewind Starter, and electric start, Fuel Tank Capacity-5.5 L, Air Filter, Type-oil bath type, Rotovator- Center chain drive, Rotovator speed- 270 to 375Rpm	01
15.	Binocular Microscope	Main Body Highly rigid, vibration free single piece (base, column & arm) Aluminum alloy casting, with transmitted light, power supply & brightness control integrated in the base. New attractive design. ViewingHead 30° inclined Siedentopf head, interpupillary distance: 55-75mm, ±5 diopter adjustable, 360° rotatable Eyepiece Wide Field eyepiece WF 10x, FOV 18 mm Nosepiece Ball bearing loaded, quadruple nosepiece with precise, positive stops for centered alignment of objectives Objective Semi Plan Anti fungus Objective 4X, 10X, 40X (S) and 100X Oil (S) Stage Graduated Double layer Mechanical rectangular stage, size 140x 140 mm with cross travel 90mm (X) x 65mm (Y) on ball bearing with co-axial controls. FocusingMovement Coaxial coarse and fine focusing mechanism, with maximum height locable clip. Ergonomically designed for easy grip, Focusing range 30 mm. Condenser Centrable ABBE condenser NA 1.25 with aspheric lens. Iris diphargram and Swing-in and Swing out filter holder. Light Source Illmination System LED 3.5W 3V with intensity control Regulator, Universal Power supply 110V-240V, CE approved. Packing &Accessories Styrofoam Packing & Outer corrugated box User Manual, Vinyl Dust Cover, Cleaning cloth and 01 unit Fuses	22
16.	Body composition Monitor	Omron Karada Scan Body composition Monitor HBF-701	04
17.	Bread board trainer kit	Bread board in front panel give point for taking DC power supply(+ 12)- 0-(-12),0- 5 V dc and 0-30V variable dc power supply, digital meter for voltage current measurement, logic 4 LED indicators, 4 logic level input	4

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		points and switches for selection of logic 0 and 1. Etc.	
18.	Brush cutter 4 stroke	Gx35 Side brush cutter, engine type air-cooled 4-stroke ohc bore x stroke 39 mm x 30 mm displacement 35.8 cm3 net power output 1.3 hp (1.0 kw) @ 7,000 rpm net torque1.2 lb-ft (1.6 nm) @ 5,500 rpm, fuel tank capacity 630 ml, weight 3.3kgs	01
19.	Brush Cutter MBC/5020H	49.9 cc, Engine: 49.9 cc, Ignition system: t. C. I - solid state ignition, Max power (in hp): 2. 55, Start system: recoil starter, Fuel tank capacity: 1 lit.	01
20.	Brush Cutter, Hedge trimmer, saw (Combo Pack)	26CC 2 Cycle 4 in 1 Multi Tool with Grass Trimmer Attachment, Hedge Trimmer Attachment , Pole Saw Attachment and Brush Cutter Blade with Bonus Harness	01
21.	Cast Iron Surface plates	HHIP 4401-0011 Granite Surface Plate, Grade B, Ledge 0, 12" x 9" x 3"	02
22.	Centrifuge Micro Centimetre with Complete Set of Rotors	Max. RCF- 21,130 × g, Speed- $100 - 15,000$ rpm (50 rpm steps), Max. capacity- 24 × 1.5/2.0 mL, Rotors available- 4, Acceleration time- 15 s, Deceleration time, 16 s, Display- LCD, Timer- 30 s to 9:59 h, with continuous run function, Volume range- 48 mL, Power supply- 230 V, 50 - 60 Hz, Max. power consumption- 350 W, Dimensions (W × D × H)- 29 × 48 × 26 cm, Height (with open lid), Weight w/o accessories- refrigerated, Temperature control range- 10 °C to $+40$ °C	01
23.	Circuit simulation software	 Digital power solution Very affordable, intuitive and powerful circuit simulation environment This Simulation Software allows you to build analog and mixed- signal circuits quickly and easily on the screen Test your circuit in real time by placing probes around your circuit. You can define "Live Circuit" parameters Can vary them as your simulation proceeds. You can observe and monitor the response of your circuit in real time using various virtual instruments like live oscilloscopes. Also provide facility to convert from circuit in to PCB layout printable. Compatible with operating system windows 7 and 8 etc. 	06
24.	Clevenger with heating mental	 Flask capacity-2000ml, Flask capacity- 1000ml 1. Essential oil determination unit (Clevenger type) vertical tube combined with condenser, and measuring tube with stopcock. 2. Clevenger assembly for determination of volatile oil lighter than water. 3. Spare oil reparatory tube 4. Clevenger assembly for determination of volatile oil heavier than water. 	02
25.	Cold Centrifuge	Temp5*C to 10*C; RPM> 5000	02
26.	Compound Microscope with Light attachment	Stand : Single mold sturdy stand with anti rust materials. Extended base with hand rest fir enhanced satiability and comfort. Viewing Bodies : Binocular tube, 45° inclined, 360° rotatable, interpipullary distance 54-74 mm. Eyepieces : Wide field focusable paired eyepiece WF 10x/18mm, with foldable eye guard, Lockable, anti fungus coating.	20

		Nosepiece : Quadruple nosepiece (Ball bearing type) with rubber grip.Objective : LP series DIN Semi plan Achromatic Objective 4x, 10x,40x, plan (Spring loaded),00x (spring loaded, oil), antifungus coating.Mechanical Stage : Mechanical Stage with Co-axial drive, highlysmooth on ball slides, Stainless steel Holders for slide 75×50 mmmovement. Condenser : Sub-stage Abbe condenser NA 1.25 withaspheric lens. Iris diapharagm with blue Filter. Rack and pinionmovements on metal guides. Focusing : Co-axial coarse and finefocusing on ball drive system for movement.Illumination : LED illumination, with rechargeable Dry battery provide6-8 hours battery Backup in case of electricity failures.	
27.	CRO Probe	BNC to Test Probe, Bandwidth: DC-6MHz; DC-100MHz, Attenuation Ration: 1 : 10, Input Resistance: 1M : 10M, Input Capacitance: 1X: 85pF-120pF; 10X: 18.5pF-22.5pF, Compensation Range: 10pF-30pF, Rise Time: <3.5ns, Working Voltage: 1X: <200vDC+ACPeak; 10X: <600vDC+ACPeak, Cable length: 120cm	50
28.	Cryocan Container (50 liter)	1-50 ltr, Temperature -196 oC to +100 oC	06
29.	Cube moulds (100x100x100mm)	Cube Mould (100 mm) IS : 10086-1982, Cube Mould made of MS/CI having an internal size of 100mm with a tolerance of + 0.2 and planeness of + 0.03 mm. Cube Moulds should be ISI Marked.	18
30.	Cube moulds (150 x 150 x 150 mm)	Cube Mould (150 mm) With I.S.I Mark as per IS : 10086-1982, Cube Mould made of Mild steel having an internal size of 150mm with a tolerance of $+$ 0.2 and planeness of $+$ 0.03 mm. Cube Moulds should be ISI Marked.	12
31.	Cut Section Model of a Four Stroke Diesel engine	Complete with all salient parts sectioned for study of the various components and their function and to plot valve-timing diagram	01
32.	Cut Section Model of a Single Cylinder Four Stroke Petrol Engine	Complete with all salient parts sectioned for study of the various components and their function and to plot valve-timing diagram	01
33.	Cut Section Model of a Two Stroke Petrol Engine	Complete with all salient parts sectioned for study of the various components and their function	01
34.	Cut Section of Fuel Injection System	Construction details to study the working principle. Voltage: 220V/380V, Speed range: 50-400 rpm, Power: 11 kw	01
35.	Cylinders (100 mm dia. x 200 mm height)	As per IS : 516, IS : 10086-1982.Used to cast cylindrical cement concrete specimens for compressive strength tests.These moulds are made of MS/CI.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.	12
36.	Cylinders (150 mm dia. x 300 mm height)	 As per IS : 516, IS : 10086-1982. Used to cast cylindrical cement concrete specimens for compressive strength tests. These moulds are made of MS/CI. They can be easily split into two parts. 	06

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		• 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.	
27	DC AC convertor hit	Cylindrical Mould 150mm dia x 300mm high.	01
37. 38.	DC AC converter kit DC DC converter kit	Trainer Kit Trainer Kit	01
38.	DC DC converter kit	500 liter, 500 Amp, Double Door, Min tem -18, Lock And Key System	
39.	Deep Freezer	with necessary accessories	02
40.	Dermatoglyphic ink	Sax 1299777 True Flow Water Soluble Block Printing Ink	02
41.	Design a 4 X 1 Multiplexer using gates.	Multiplexer and Demultiplexer Trainer has been designed specifically for the study of 4-to-1 Line Multiplexer and 1-to-4 Line Demultiplexer. This Training Board familiarizes the students with the operation of both multiplexer and demultiplexer circuit. It explains the phenomena of Multiplexing of four input signals with two selection lines and one output. It explains Demultiplexing of one input signal with two selection lines and four outputs. The board is absolutely self-contained and requires no other apparatus. +5V SMPS Adaptor provided with the trainer for power supply. Easy illustration of Multiplexer and Demultiplexer. LEDs for visual indication of inputs and outputs status. SPDT switches for logic selection. Good quality, reliable sockets are provided at ?appropriate places on board for connections. Strongly supported by systematic operating instructions. Input: +5VDC Logic levels +5V : HIGH (Logic 1) 0V : LOW(Logic 0). User manual of trainer kit. etc.	01
42.	Design a Half and Full Subtractor.	 Built-in power supply DC +5 V @ 500 mA 3 Logic input switches with green LED display 3 Logic output red LED display Two and gates (7408), one OR gate (7432) Two not gates (7404) & Two EX-OR gates (7486) on panel Required numbers of patch cords and operating manual. 	02
43.	determine the Characteristics of LVDT.	 Self contained and easy to operate. Sensitive, Linear Stable and Accurate. Functional block indicated on broad mimic 31/2 digit LED display with polarity indicator. Onboard LVDT displacement measurement jig with micrometer. Amplitude measurement for Excitation Generator. High repeatability and reliability. Study of Input Output characteristics of LVDT Determination of linear range of operation of LVDT 	01
44.	Dial Caliper	Mahr Federal 4107900 Dial Calipers, 6" Range, 0.001" Graduations,	02
	Diai Campoi	Black Face Dial	02
45.	Dial Thickness Gauge	Height 5.08 centimetres, Item Weight 544.0 grams, Length 18.54 centimetres, Manufacturer Series Number 7301, Material Type Aluminium, Measurement System MetricModel Number 7301, Number of Items 1, Part Number 7301, Size Others , Style Name DialUPC 603908177821, Warranty Description 1 Year warranty ,Width	02

		17.0100000000002 centimeters	
46.	Digimatic Indicator	Application: Industrial, Range (mm): 12.7mm	02
47.	DigimaticVernierCaliper	Aerospace, Range: 0-200 mm, Accuracy- ±0.02 mm, Material- Stainless steel, Least Count- 0.01 mm	03
48.	Digital Altimeter	Height and slope measurements are made simple with these six scales: Required Scales Baseline Distance Measuring Range 1 chain = 66' 66' - 27' to +144' 15 15 ft., yds., or m -6 to +26 ft., yds., or m 20 20 ft., yds., or m -8 to +34 ft., yds., or m 25 25 ft., yds., or m -10 to +43 ft., yds., or m 30 30 ft., yds., or m -12 to +52 ft., yds., or m percent any distance in ft., -40 to +150% of baseline yds., or m distance	02
49.	Digital Blood Pressure Machine	Measurement range: 280 mmHg(0-37.30kPa); Pulse:40-199 beats/min 2.Cuff pressure range: 0-299mmHg(0-39.86kPa); Accuracy: Pressure ±3mmHg(0.4kPa); Pulse ±5% of the reading 3.Memory: 2x120 groups (double users) 4. Average function: Last 3 groups average measuring value 5.Size:57"x4.33"x2.05"6.Cuff perimeter: 22-40 cm7.LCD display.	05
50.	Digital Caliper	Mahr Federal 4103010 16 ER Digital Caliper, Range In/mm, 0-6", 0.0005" Resolution, Round Depth Rod, No Output, Black/Red	02
51.	Digital CO2 monitor	Measurement range 0-1000 ppm in air with data logger/transfer facility and time interval settings	01
52.	Digital Display Magnetic Hot Plate Stirrer.	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	01
53.	Digital Micro Meter	Type of Product : Digital Outside Micrometer, Range (mm) : 0-25 mm, Resolution (mm) : 0.001mm, Range (Inch) : 0-1 Inch, Resolution (Inch) : 0.00005 Inc	04
54.	Digital multimeter	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 200.00μF with zero correction. *Frequencies from 10.00Hz 500.0kHz *Diode measurement and continuity testing * Transistor testing. Etc.	05
55.	Digital Oscilloscope 1	70 MHz	08
56.	Digital Oscilloscope 2	TSB100B 2 channel 70 MHZ	02
57.	Digital oscilloscope 3	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 ±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÷FFT Storage 10waveforms,10 steps FFT Window Hanning, Hamming, Blackman- harris, rectangular Sample points 1024points X-Y Bandwidth 25MHz	01

58. 59. 60.	Digital Vernier Calliper Digital Vernier Calliper (0-300 mm) Digital Weighing	 Phase diff ±3 degrees Display A/CA: mono/color,320×240 resolution , Power supply Worldwide 100-225 V/40VA Max, Interface USB port Accessories Probe×2, power cord, user's manual etc. Base Material MetalBattery IncludedRange 0-2000mm Brand Mitutoyo,Baker,Insize. 150 MM (6 Inch) Steel Precise LCD Digital CaliperVernierCaliper, Measuring Gauge- 0-300 mm, Resolution (mm) : 0.02 mm, DIN862, Micrometer-b2 Range 1mg to 250g. Autocalibrate and Tare 	02 02 08
61.	Balance Dishwasher	Energy Consumption- 2.40 Kilowatt Hours, Capacity- 12 Place Settings, Voltage- 220 Volts, Included Components- 1 Dishwasher, 1	02
62.	Dissecting Microscope	Inlet Outlet Pibe, 1 Electrical Wire with Plug and 1 Detergent Sample Halogen Lamp Voltage-6V; Halogen Lamp Power: 20 W; Aplantic 10x and Acromatic 20x EP on joint arm with glass plate. Mirror for light; Rack and Pinion for focusing Packing: Packed in box with dust protection cover and illustrated manual.	20
63.	Double distillation unit	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.	03
64.	Double face hammer	Lbs 5	10
65.	e/m by helical method	A complete lab set – up with CRT, etc.	01
66.	e/m by Thomson method	A complete lab set up with CRT, magnets and etc.	01
67.	Electrical Comparator	Electrical comparator is a fine measurement- comparison equipment used for checking length/ diameter of a component using a gauge block as a standard	02
68.	Electrical sieve shaker	8", 12" or 200 mm sieves	01
69.	Electronic Balance 3	Range: 10mg to 1kg, top pan type	01
70.	Electronic Balance 4	Range: 50g to 10kg, top pan type	02
71.	Eye Open Chanel Non Contact Radar Flow System	 General Size (HxWxL) 183 x 140 x 422 mm. Weight 3.85 kg (without cable, level sensor and mounting accessories). Materials Enclosure: Polyurethane (PU), stainless steel Cable: Polyurethane jacketed. Cable Lengths 10, 20, 30 or length as needed up to 300 m. Protection IP68. Certifications CE, ATEX (option). Temperature Range ✓ Operating: -20 to 50 °C ✓ Storage: -30 to 60 °C Power Required Input voltage: 4 to 26 VDC. Outputs 1 passive analog 4-20 mA (velocity only). Communication ✓ RS-485 (serial MODBUS ASCII open protocol) for use with PLCs ✓ RS-485 (proprietary protocol) for use with UNI- 	01

		TRANS [™] , IFQ MONITOR [™] or RTQ-Logger series Field	
		interchangeable: Automatic recognition between stationary	
		or portable units.	
		Flow Accuracy ±5% of reading (typical : assumes pipe is 0 to 000(full)	
		90% full)	
		• Flow Measurement Method	
		 Conversion from surface velocity to average velocity by 	
		analyzing surface velocity distribution using a self-learning	
		technology that doesn't require theoretical modules nor site	
		calibration.	
		Conversion of water level and pipe size to fluid area.	
		Multiplication of fluid area by average velocity to obtain	
		the flow rate.	
		Velocity Measurement	
		 Method: Non-Contact Radar Doppler Measurement. 	
		Range: $\pm 0,15$ m/s to ± 15 m/s.	
		Measurement: Bi-directional.	
		Accuracy: $\pm 0.5\%$ of reading $\pm zero$ stability.	
		\blacktriangleright Zero Stability: ±0,02 m/s.	
		Minimum Velocity: 0,15 m/s	
		Optional Combined Level Measurement (Ultrasonic)	
		Technology: Non-Contact Ultrasonic Pulsed Echo.	
		Measurement Range:	
		✓ 0,00 to 1,75 m (with RAV-0002/ULS-02).	
		✓ 0,00 to 5,75 m (with RAV-0006/ULS-06)	
		Accuracy:	
		\checkmark ±0,3% of reading (with RAV-0002/ULS-02)	
		\checkmark ±0,2% of reading (with RAV-0006/ULS-06)	
		✓ Includes non-linearity + hysteresis.	
		➢ Temp. Error: Max. 0,04 %/K.	
		Resolution: 1 mm	
		Optional Combined Level Measurement (Radar)	
		Method: Non-Contact Pulsed Radar	
		▶ Range: 0,01 to 15 m.	
		Accuracy: $\pm 2 \text{ mm of reading.}$	
		Resolution: 1 mm.	
		Optional Separate Level Measurement	
		Method: Any 4-20 mA loop powered sensor.	
		To study & verify Truth tables of 'RS', 'D' Type, 'T' Type & 'JK' flip	
		flops using NAND gates.	
	Flip- Flop Circuits using	Instrument comprises of DC Power Supply, 4 logic inputs, logic '1' &	
	elementary gates. (RS,	logic '0' selectable using switches, 1 Hz clock pulse, Two output	
72.	Clocked RS, D-type).all	indicators, Circuit diagram for 'RS' & 'JK' flip-flows Printed &	01
	flip flop	connections for inputs & outputs brought out on the sockets, 1 NOT gate	01
		for converting 'RS' flip-flop to 'D' type flip-flop. Connecting lead	
		wire,etc.	
		Interconnections All interconnections are made using 2/4mmmm banana	
73.	FM Transmitter/Receiver	Patch cords. Test points are provided to analyze signals at various	01
		points. All ICS are mounted on IC Sockets. Bare board Tested Glass	
		points. An ICS are mounted on IC Sockets. Date board rested Glass	

		Epoxy SMOBC PCB is used. In-Built Power Supply of +5V/1.5A, v ±12V/250mAwith Power ON indication. Set of 2mm/4mm Patch cords for interconnections User's Manual with sample experiment Sine Wave Generator Provides Synchronized Sine waveform output, ranging from 300Hz to 3.4 Khz. Provision for Amplitude adjustments provided. 1, FM Modulator, Reactance Modulator. Varactor Modulator. I FM Demodulator, Detuned Resonant detector, Quadrature detector, Faster Seeley detector v Ratio detector PLL detector 1 On-board features Mixer/Amplifier provided to modulate noise before demodulation. Transmitter frequency of 455 KHz. Low pass filter with cut off frequency of 3.4 KHz Switch Faults are provided etc. Message Signal: Sine wave Frequency 100 Hz to 2.8 KHz : Amplitude 0 to 5V	
74.	Frequency Modulation And Demodulation kit	Carrier Signal: Sine wave Frequency 0-100 KHz ,: Amplitude 5V Modulation: XR 2206 BasedDemodulation: PLL Detector & LPF Low Pass Filter: 4th Order LPF Supply Voltage (Board): +12V, +5V / DC (in built) Supply current: 100 mA (Minimum)Input Voltage: 230 V/ 50 Hz AC Interface connectors: 2mm or 4mm socket and connectors, give check points in front f or checking msg signal ,carrier signal ,modulate signal demodulated signal and after filter out put signal. Experimental manual.	02
75.	Function generator 40 MHz	Function Generator, 40MHz	02
76.	Gauss Meter	Indosaw / Raman ScientificRange: 200 G & 2 kG Resolution: 1G at 0 - 200G Offset: By potentiometer to set ZERO Input Voltage: 220 V, ±5%, 50 Hz ACAxial Hall probe: InAs	01
77.	Gel Electrophoresis with Voltage supply unit	Gel Size: 8x7cm Spacers of 0.75 & 1.0mm thickness fused with glass plates, sample loading guides.Two gel running capacityRidged combs 10&15 well Optional preparative combs, Power Supply: 5-200 V, 200W maximum Type of output: constant voltage or current with automatic crossover Output terminals: 4 recessed sets in parallel, Timer: 0.999 minutes	07
78.	Glucometer (Digital)	Display: Digital TypeHospital Glucose Meter Operation Mode: AutomaticSample Volume: 1 ul Measurement Range: 1-50mol/LCategories: Compact Result Time: 5 secBattery Life: Upto 400 tests	05
79.	Grass shear	Wolf-Garten, High Quality Hedge Shear Wooden Handle Material- Metal and wood Total Blade Size: 11 inches / 28 cms, Total Length including the wooden handle: 20 Inches / 50 cms	10
80.	Haemocytometer	Laboratory Scale	30
81.	Half and Full Adder	 Built-in power supply DC +5 V @ 500 mA 3 Logic input switches with green LED display 3 Logic output red LED display Two and gates (7408), one OR gate (7432) Two not gates (7404) & Two EX-OR gates (7486) on panel Required numbers of patch cords and operating manual. 	02
82.	Hand-held perthometers	Hand-held perthometer for the measurement of various parameters of surface roughness such as Ra, Rmax, Rz etc. as per DIN, ISO standards.	01

		Resolution 10 nm; Range: 12.5 mm	
83.	Heamoglobinometer	Measuring range- 5-25 gm/dl,	20
84.	Height Measuring Instruments	iGaging Digital Electronic Height Gauge with Magnetic Base, 6 Inch	02
85.	High accuracy lab Scale	Accuracy 0.01g	04
86.	High Power 40x Magnifier Lens Lighted Magnifying Glass Hand Held Diameter: 21mm.	 Magnification: 20X Lens Size: 1.8cm in diameter Total Size: ~13(L) x 4.4(W) x 2.5(H)cm Weight: 86g 	10
87.	High temperature oven	Inner chamber: Stainless still 304 grade with mirror finishing buffing, Outer chamber: Mild steel thick grade with powder coating finish cladded with SS 304 grade inner plate, Temp Range: 40-2000C, Microprocessor control: Microprocessor based digital display PID temp. controller along with pt-100 sensor, Vacuum capability: 760 mm of Hg, Working size: 45x45x45 cm (HWD) Door mild steel thick plate door with powder coating finish, Door sealing: Silicon rubber gasket for Door sealing with S. S. wing screw & S. S. wing nuts for positive locking deviceGlass window at the front door for viewing object without disturbing the inner chamber, Nichrome 80/20 low wattage coil heaters distributing even heat in working areas, Heater On/Off MCB switch, PID temp. controller and analogue vacuum gauge, Indicating LED light, Switches, Fuseunit, Wiring by ISI wires, Power rating: 2.75 kW, Supply: Single phase, Trays: 3 no stainless steel 304 shelves	01
88.	Ное	Made of malleable steel, Item dimension- 53x7.5x7.43 inch, Item weight-2.77lbs, size-53 inch,	10
89.	Hot Air Furnance.	Inner dimension: length = 6 feet width = 3 feet, height = 3 feet ,Temperature:, minimum = 400 Celsius, maximum = 1500 Celsius, Digital display (mounted separately), Type: walk in oven with: shelf truck andshelves, flatbed truck, insulated floor with recessed truck tracks Carrying capacity: 1000 to 1500 kilogram., Blowers for uniformly distribution of temperature., Power source: electric, Purpose: for temperature curing of concrete (beam & column) in civil engineering laboratory.	01
90.	Humidifier	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	02
91.	Hydraulic press	Material: Steel Load capacity: 12 ton Overall height: 51" Weight: 95 lbs Working distance: 0-19.6"(54cm)	01
92.	Hydrogen lamp transformer	Transformer for Hydrogen lamp	04
93.	HydrolicCunductivity meter	Accuracy (Percent) -LCD Material -Plastic Conductivity -+1% Display -LCD	01
94.	Ice flaking machine	30kg Ice Flake (kg Per 24 Hrs.)	01
95.	IGNITION SYSTEM OF S. I. ENGINE	Complete with all salient parts construction details to study the working principle.	01
96.	Inch Circular saw	cutting depth- 90 degree, 85mm, power- 2100w, blade bore-25.0 mm, blade dia235mm,	01

109.	Metal Guage	25-50mm External Internal Measure Metal Radius Gauge Gage	02
108.	Melting point apparatus	Temp :10-350 Deg. C; Digital LED display	01
107.	MCP Electronic Digital Baby Infant Pet Bathroom Weighing Scale- 20 Kgs,	MCP Electronic Digital Baby Infant Pet Bathroom Weighing Scale- 20 Kgs,	04
106.	Magnetic stirrer with hot plate	Speed, max.: 2200 rpm; Display: Digital; Temperature control: electronic; Stirring capacity, max. (H20): 5l; Plate diameter (mm): ø 145	27
105.	Magnetic Stirrer with hot plate(Microprocessor based)	Temperature 200 degree, stirring speed 100 to 200 rpm Max Speed : 1200 rpmCapacity :ml, 2 liters500 Power :150 - 500 W	01
104.	Kirchoff's Law Trainer with Meter	 Power supply 9 V@ 500 mA Three variable resistors 0 to 10 K On panel circuit diagram On panel 10 V digital meter On panel digital mA current meter Required numbers of patch cords and operating manual 	02
103.	Jigsaw 400 Watt	500 W, Cutting depth in wood-70mm, saw stroke length, 1 Main Unit with 1 T111C Wood Blade, 1 Hex Key	01
102.	JFET characterstics kit	 Built-in Isolated Variable DC Power Supply : 0 to +30V DC 2Nos On-board Digital Panel Meters : DC Voltmeter, DC Ammeter On-board JFET On-board Resistors On-board Potentiometer Circuit diagram in front panel on kit .4mm schoket for connection ,lead wirs and manual Power Cords 230v, 50Hz etc. 	4
101.	I-V Characteristics of UJT.	 *Instrument comprises of Two DC IC Regulated Power Supplies 0- 15VDC/150mA & 0- 30VDC/150mA. *Three MR65 Square/Digital meters for voltage & current measurement. *One UJT 2N2646 mounted behind the panel. *Instrument Fitted in Highly Shockproof Box.4 mm concting lead wire schocketsintructon manual etc. 	01
100.	Instruments Carrying Rucksack Bag	Instruments Carrying Rucksack Bag	05
99.	IndoSurgicalsInfantomet er, Height Measuring Scale	IndoSurgicalsInfantometer, Height Measuring Scale	02
98.	Incubator	Stainless steel construction, Ergonomic Design, Hydraulic Testing Upto 2.5 times the working pressure, Working Temperature: 121deg. C. To 134 121deg. C., Working Pressure: 15 psi to 30 psi, Standard Models (Inner Dimensions) Diameter-250mm, Hieght-450mm, volume(litres)-22litres, Chart Recorder-chart size: 4" dia. Accuracy: 2% (FSD)	02
97.	Increment Borer	Golden Engineering Corporation, Item weight- pounds, size-16 inch, 3- Thread, Machined Brass End Caps & Extractor Caps, Plastic Coated Handles, 202" Core Diameter	02

110.	Micro Ammeter	0 to 100 uA	10
110.	Microcontroller 8051 trainer kit	0 to 100 uA 40pin-ZIF Socket 8 No's of Point LEDs (Logic Output) 8 No's of Slide Switch (Digital Input) 4x4 Matrix Keypad 2X16 Character LCD 4 No's of 7-Segment Display 2 No's of Analog Input (Potentiometer) Stepper Motor Interface 2 Nos. of SPDT Relay DS1307 RTC with Battery-Backup 2 No's of UART(RS232) Buzzer (Alarm), Interrupts Study, Reset Button SPI - Digital / Analog Output Serial EEPROM (I2C Devices) *128x64 Graphical LCD Digital Temperature Sensor(DS18S20) 40-Pin Expansion Connector ISP Programmer for NXP Dallas MCU Traffic Light Controller Modules RTOS Support Evaluate Real Time Applications Supports Embedded C, ASM ISP Programming SPI I2C Communications Facility to interface external devices Power Adaptor, RS232 Cable, User Guide HW/SW CD Contains : Code, Programmer ,IDE ,Datasheets, Complete Operating Instructions manual of experiment.	2
112.	Microcontroller based digital colorimeter	Peak wavelength 410, 470, 490, 520, 540, 580, 610 & 640 nm,	01
113.	Microprocessor 8085 trainer kit	 8085 Microprocessor, which operates at 6.144 MHz The board can operate using the 101/104 PC keyboard supplied along with the trainer kit and 2 Line by 16-character LCD display or from the PC. Microprocessor's Address, Data and Control bus pins are brought to the 50-pin FRC connector. PS-85 is equipped with powerful software monitor in 27C128 EPROM. The monitor supports Video terminals RS232C interface, 101keyboard and LCD display. The board has 32KB CMOS static RAM (type 62256), 8085 Microprocessor operating at 6.144 MHz 16KB powerful software monitors 27C128 EPROM. Three 16 bit programmable timers from 18253/8254. 48 Programmable I/O lines from two nos. of 8255. Serial interface using 18251. 50 Pin FRC connector for system bus expansion. 20 pin FRC connectors for user 1 interface from 8255. 9 Pin D type female connector for RS 232C interface and 9 Pin. Six numbers of selectable baud rates 1 from 150 to 9600. 101 PC type keyboard for entering user address/data and for commands. 	1

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		□ Built in line-by-line Assembler and □Disassembler. User-friendly software monitor for loading □ and executing programs with break point facility. Facility to connect to PCPrograming can be done both assembly and addressing mode. Operating manual with some programing example.etc.	
114.	Microprocessor 8086 trainer kit	8086 Microprocessor, which operates at 6.144 MHz using the crystal of18.432. The board can operate using the 101/104 PC keyboard supplied along with the trainer kit and 2 Line by 16-character LCD display or from the PC (using the Terminal Emulation Software).Microprocessor's Address, Data and Control bus pins are brought to the 50 pin FRC connector. PS -86A is equipped with powerful software monitor in two-27C256 EPROM.The monitor supports Video terminal RS232C interface, local 101keyboard and LCD display. The board has 64KB CMOS static RAM (type 62256). PS -6A works on \Box +9V DC. 8086 Microprocessor operating at \Box 18.432 MHz 16KB powerful software monitor two \Box 27C256 EPROM Three 16-bit programmable timers from \Box 8253 48 programmable I/O lines from two nos. of \Box 8255 Serial interface using \Box 8251 50 pin FRC connector for system bus \Box expansion 20 pin FRC connector for user interface from \Box 8255 9 pin D type connectors for RS 232 \Box interface Six different selectable baud rates from 150 to \Box 9600 101 PC type keyboard for entering user address/data and for \Box commands Built in line-by-line assemble \Box and disassemble User friendly software monitor for loading and executing programs with break point facility- Operating manual with some programing example.	1
115.	Microwave Oven 28 litre	Capacity 28 Litre, Power Features:230 V	04
116.	Mild steel muffle furnace	Max Temperature (Degree Celsius): 100-1200 Material Loading Capacity: 1500-3000 kgFrequency (Hz): 50-60 HzMaterial: Mild Steel	01
117.	Mini Submarine Electrophoresis Unit	5081/1, Casting Tray 7*7 cm	02
118.	Mini Tiller	Engine Model- 1E44F-6, Fuel tank capacity- 1200ml, Engine type- Air- cooled, 2 stroke, single cylinder, 52 cc	02
119.	Mitutoyo Gauge	Mitutoyo Gauge 7327 Analog Dial Caliper, Scale: Capacitance type, ABSOLUTE linear encoder, Accuracy: 0,03, Power supply: 1 battery SR-44, Range: 12.7 mm, Digital step: 0,01 mm, Measuring force:≤ 1,5 N	01
120.	Model of Carburetor With Cut Section	Construction details to study the working principle	01
121.	Moisture meter	Measuring Range: 3.5 to 40 %; Consistency : \pm 0.2 % to \pm 0.5 %; Power consumption: 0.03 watts approximately; Power requirement: Four pencil cells Measurement time: one sample per minute	01
122.	Mortar Pastle (5" diameter)	Color: Gray/ white,Crystal habit: Cryptocrystalline silica,Crystalsystem:Rhombohedral Microcrystalline, Cleavage: None, Fracture:Conchoidal with very sharp edges,Mohs scale hardness: 6.5-7, Lusture: Waxy,Diaphaneity:Translucent,Specific gravity:2.58-2.64 Inner Dia: minimum 5 inch	01

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123.	Muffle furnace	Temperature range up to 1500oC, working temperature 0-45oC.	02
		Primary Functions- Multimeter For Electrial For Professionals, Number	
124.	Multimeter	of Counts- 6000, Digital Multimeter, AC Voltage- 600V, DC Voltage-	20
		600V	
		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	
	On an Channel Flavy	• Working Temperature: -20 Deg C +60 Deg C	
125.	Open Channel Flow meter	Contact Rating: 5A 250V (resistive)	01
	meter	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)	
	Optoelectronic devices characterisation setup	Characteristic study of Light Dependent Resistor (LDR)	
		Characteristic study of Light Emitting Diode (LED)	
126.		Characteristic study of Photo Transistor	01
120.		Characteristic study of Photo Diode	01
		Characteristic study of Solar Cell	
		Characteristic study of Opto-Coupler	
127.	Osteometric Board	Osteometric table made of PVC	04
	0 11	Capacity liters-113.24, max tem. (° F) 527, chamber width (cm)45.72,	
100	Oven with	chamber height (cm)50.8, chamber depth(cm)45.72, rise time 30	02
128.	microprocessor	minutes to 275 °C, control type microprocessor, display3-digit	03
	controlled system	LED,Power(watt)1800, Description microprocessor-controlled gravity	
		oven; 3.75 cu ft/240 V. Message Signal 1: Frequency 500 Hz	
		: Amplitude 0 to 5V	
		Message Signal 2: Frequency 1 KHz	
		: Amplitude 0 to 5V	
		Message Signal 3: Frequency 2 KHz	
		: Amplitude 0 to 5V	
	PAM / PPM / PWM	Carrier Signal (Square): Frequency 8KHz, 16KHz, 32KHz, 64KHz	
129.	Modulation and	: Amplitude 5V	01
	Demodulation Trainer	Carrier Signal (Triangle): Frequency 8KHz, 16KHz, 32KHz, 64KHz	
	kit.	: Amplitude 2V	
		Modulator Type (PAM): 74 HC 4053 Based (Switching)	
		Modulator Type (PPM): IC 555 Based (Timer)	
		Modulator Type (PWM): LM 311 Based (Comparator)	
		Demodulator: 4th Order LPF	
		Amplifier: Op-Amp Based	1

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		Supply Voltage (Board): +12V, +5V / DC	
		Supply current: 100 mA (Minimum)	
		Input Voltage: 230 V/ 50 Hz AC	
		Interface connectors: 2mm socket /4mm socket and connecting lead	
		wire. Complete Operating Instructions manual.	
130.	Pan Type Concrete Mixer.	 Mixer consists of a steel vessel of 40 litres, mounted on a frame. The vessel is rotated at 20-24 RPM with the help of electric motor and a pulling. The vessel can be tilted to any angle by a handle. This facilitates mixing and discharge. Blades are provided inside the vessel to mix the material thoroughly. The large handle strip facilitates manual rotation of the drum during power failure. The drum, handle and motor etc. are mounted on a steel frame. Mixer is provided with two large wheels for carting away. 	01
131.	PCB Machine	Motor- 1 Hp 1440 rpm, Dimension- 685 mm x 485mm x 910mm, Conveyour Speed- 0.5 m to 2 m/min, Maximum Grooving Width- 380 mm, Maximum Panel Thickness- 0.3 to 5 mm	01
132.	Peak Flow Meter Respiratory Exerciser	Volume Indicator, Drain Provided, Tube & Mouthpiece Provided, Body Material- Hard Plastic, Tube Material- Plastic	10
133.	Pellet making Die(12	Material: Hardened SS	01
	mm -01 13 mm -01)	Cavity: 13mm (1 pcs), 10 mm (1 pcs)	01
134.	pH meter	 Should have Working range from 0 to 14. Should have resolution 0.1/0.01 pH. Should have Temperature compensation zero to 100 degree C with ATC Should have RS.232C output and supply Data connector cable. Should have Automatic calibration facility. Should have data storage facility and record maximum and minimum value. Should have 3 stage calibration. Should have digital display with 0.001 pH unit readability Should supply Tri-combination pH/ATC electrode Should supply Electrode + Standard buffer solution (pH 4.0, 7.0, 10.01 x 50ml for each bottle) + standard electrode holder +Ac /DC Adaptor. Should be provided with an electrode holder/arm with smooth movement 	01
135.	Pitch Gauge	SIZE: 4-42 TPI 0.4 to 7 mm, Material type: stainless_steel	02
136.	Portable Laser Area Meter	Accuracy- ±1% for samples >10cm ² , Weight- 1.8Kg, Measuring Thickness- 15 mm max, Measuring Width-150 mm max, Measuring Length- 36 cm, scanner- 675 nm laser Diode, Resolution- 0.025mm ² , Memory Size- 8,000 measurements, Display- 16 characters × 2 lines LCD, Scanning Speed- 127 mm/second, Battery Capacity- 15 hours, Operating Temperature- 0 -50°C	01

137.	Portable laser Leaf area meter	Measuring thickness: 1.5 cm, width; 15 cm, Length; 36 Cm, Accuracy +- 1%., Scanning speed: 200mm/second	02
138.	Portable weather station	All in one for monitoring of Rainfall, Wind speed and direction, temperature, relative humidity, solar intensity	01
139.	Potentiometer-	mV Range : 0 - +1999. Resolution : 1 mV.	02
140.	Power sprayer	Engine type- 2 stroke, forced air cooled petrol engine, 25.6cc, Carburetor- Ruixing diaphragm type tuning carburettor Fuel Tank Capacity-500ml, Chemical Tank Capacity- 20lit. Pump Type- Positive displacement reciprocating pump (single piston double acting), Normal Working Pressure: 100-200PSI, Maximum Pressure- 400 PSI, Weight- 7.550kg.	10
141.	Prism moulds (100 x 100 x 750 mm)	 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 + 0.02 mm tolerance and inside dimensions are accurate to + 0.2 mm. Made of MS/CI, supplied complete with base plate 150 mm x 150 mm x 700 mm made of Mild steel. 	06
142.	Pro Hypsometer Laser Range Finder	pro, item weight-195g, product dimension 6.9x13x4.5, batteries-1CR2 batteries, lithium, voltage-3 volts, screen-2.70 inch	01
143.	Professional tool kit for wood carving	Electronic kit, Bosch 10 mm, model-GSB 550XL, power-550, speed-2800rpm	01
144.	Pulse Width Modulation	Three phase 50 Hz 440volt 0.5 HP motor. 3 phase induction motor of 0.5HP or 1HP is required to see the output	02
145.	Ranging Rod 3 m	 Ranging rod of 3m height (non-detachable) As per IS 2288-1963 Made of Mild steel tubes conforming to IS: 1239-1958. Hollow cast shoe or one made from a steel sheet shall be used. The ranging rods may also be marked with the IS1 Certification Mark. 	12
146.	RBC/WBC Plate	Materials: Ceramic Specifications: Tile with 12 holes Reusable after washing	05
147.	Rectangular Water Bath BTI-57	Minimum 6 holes, Size- 35 x 25 x 10 cm, Rating watts- 1000	04
148.	Rectifier Kit (Half Wave & Full Wave)	Trainer Kit, Inbuilt variable AC power supplies, Output Voltage : 9-0-9 VAC, On Board Analog Moving Coil Meters, Voltmeter : 0-20 VDC, Ammeter : 0-250Madc, Components provided, Diode : 4 Nos., Filter : 2 Nos., Load Resistances : 50 ohm to 500 ohm, Circuit diagram printed on Front Panel & all important test Points are brought out on front panel, Power requirement : 230 VAC 10%, 50Hz.	02
149.	Refrigerator	Double door, 250 liter , auto defrost, invertors compressor, 4 star	15
150.	RLC Circuit Trainer with supplies RLC 100	RLC 100 Trainer Kit, Power Supply (V)- 220/240 V, Automation Grade- Automatic, Type- Digital, Portable	01
151.	Rotor head	(24x1.5 ml capacity; 8x50 ml Capacity) for below specified refrigerated centrifuge; (Max. Speed:20000 rpm; Max. RCF:37570g; Max. ; Tube Size: 250 ml; Max. Capacity: 1200 ml Lowest Temp.:	01

		8°C; W x D x H: 660 x 765 x 945 mm)	
152.	SCR characterstics kit	Instrument comprises of Two DC IC Regulated Power Supplies 0- 5VDC/150mA & 0- 30VDC/150mA.Three MR65 Square/Digital meters for voltage & current measurement. Circuit diagram in front panel on kit .4mm schoket for connection ,lead wires and manualPower Cords 230v, 50Hz etc.	4
153.	Shaker Incubator 1	SS 304 / Outer CRC powder coated ; Temperature Range: Temp Range 5°C above ambient to $60^{\circ}C \pm 0.5^{\circ}C$ (Heating only) or $10^{\circ}C$ to $60^{\circ}C \pm 0.5^{\circ}C$ (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	01
154.	Shaker incubator 2	Double Walled construction, Inner chamber made of Stainless steel - 304 grade & Outer CRCA Steel-Powder coat finished, Temperature Controlled by Dual display Microprocessor based PID Temperature Controller & PT – 100 sensor with +/- 0.5° C Accuracy, Shaking amplitude: 25 mm, Operates on 230 Volts AC Single phase 50 Hz, Shaking speed can be controlled by means of Electronic speed controller cum Digital RPM Indicator between 20 RPM to 250 RPM. Temp range- 18-42oC Speed – upto 300rpm,	02
155.	shift register and study Serial and parallel shifting of data.	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.	01
156.	Sine Bar	Distance between the rolls: $150-250$ mm; Diameter of rolls: $25-30$ mm, Accuracy of length: ± 0.002 mm	02
157.	Single Cylinder Four Stroke Diesel Engine Test Rig with Dynamometer 1	To determine Brake Horse Power, to determine specific fuel consumption, to determine Brake Thermal Efficiency provided with Fuel measuring system, Air intake measuring system, Exhaust Gas Calorimeter, Cylinder- Single Cylinder, Direction Of Rotation- 1500, Fuel Type- Diesel, Engine: 5 HP at 1500 RPM coupled with loading device on a common base plate.	01
158.	Single Cylinder Four Stroke Petrol Engine Test Rig with Dynamometer 2	To determine Brake Horse Power, to determine specific fuel consumption, to determine Brake Thermal Efficiency provided with Fuel measuring system, Air intake measuring system, Exhaust Gas Calorimeter, Water supply: Continuous clean and soft water supply @1000 LPH, at the minimum head of 20 m. is needed. Provide tap with 1/2" BSP size connection, Exhaust line: Provide exhaust pipe 32 NB (1.25") size with suitable length, Electric supply: 230 +/- 10 VAC, Phase: 1, Frequency: 50 Hz, Dimension (Lx W x H)(mm): 3800 x 2500 x1700, Diesel oil: 10 liter, Lubricating oil: 5 liter, Drain: Provide drain pipe 1.5" BSP size with suitable length.	01
159.	Single Distillation Unit	Single stage, water Distillation, all glass, horizontal model with inbuilt safety cut-off, Automatic water Distillation unit((Cabinet Still) Water Softener, capacity- 5 ltr, Distillate Temperature- $60^\circ \pm 5^\circ$ c, Conductivity- 1.5-2.0, Cooling Water Feed- 30Liters/hr (approx)	01

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160.	Single Stage CE amplifier. Kit	In built dc power supply, circuit printed on front panel, socket provides for input and output signal on front panel, components are placed inside the trainer kit. 2mm/4mm socket and set of connecting lead wire. Sort circuit protection, Strongly supported by a comprehensive instruction manual complete with theory and operating details.etc.	02
161.	Skinfold Caliper	LANGE Skinfold caliper to assess degree of fatness measuring range: 0 - 60 mm	04
162.	Sledge Hammer	Lbs10, Finishing- Painted, Powder Coated, Item Weight - Size as per size, Material- Iron	02
163.	Slip gage or Johnsons gage block	M81 Grade 0 standard Slip gage or Johnsons gage block made of steel with calibration Certificate	02
164.	Soil digger hoe	Tabor Tools J56 Pick Mattock, Strong Light-Weight Fiberglass Handle, Product dimension-35x9.5x1.5inches, Item weight-5.86 pounds, shipping weight-6pounds	08
165.	Soil tensiometer	Measuring range-0-85 Kpa; Precision- 2.5 Kpa; Length of pottery pipe-7 cm; Diameter of pottery pipe-2 cm; Designed with pressure gauge, acrylic tube and ceramic probe; suction meter 0-100 centibar vacuum	01
166.	Soldring /desoldring station	Metro Q 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	01
167.	Soxhlet Apparatus	 Fiber glass hand knitted heating surface with nichrome heating elements. The housing has two retort rods and a cross bar.Built-in regulator which controls the heater. Heating elements should have an individual regulator.Pilot lamp to indicate working of the elements. To work on 230 volts AC only.Various capacities with 250ml, 500ml & 1ltr. capacity. 	01
168.	Spectrum Chemical Paper Chromatography Apparatus	Cabinet Size : 80x37.5x65Cms Approx. For 6 Filter Papers Of 75x75 Cm. Size Glass Boats For Cabinet 16.510.02	01
169.	Spot welding with auto timer.	Heavy Duty Spot Welding Machine Input Voltage : 10 KVA Model No : 10K-HT Phase : 1-2 Brass Rods Size : 1 1/4 Inch x 18 Inch	02
170.	Spot welding with cartotrimer	Welding Machine Rating @ 50 % Duty Cycle KVA 8, 10 Nominal Throat Clearance MM 220X220, Standard Throat Depth MM 300X300, Welding Range M.S Sheet Max 2X MM 1.5 2, Thickness Min. 2X MM 0.2 0.2 S.S, Sheet Max . 2X MM 1.2 2, primary Supply Voltage V 230/415 230/415, Phase - 1/2 1/2 Max. Electrode Strock MM 70X70 Max. Temp. 30C LIT/MIN 3, Size of Main Supply Cooper Cable MM2 10 to 12 Recommended Switch Rating AMPS 10 to 12 Delayed Action Fuse Rating AMPS 20 to 25 Size Available 8KV to 10KV.	01
171.	Spreading Caliper (Pointed End)	Spreading caliper with pointed ends measuring range: 0 –300 mm	10

172.	Spreading Caliper (Round End)	Spreading caliper with rounded ends measuring range: 0 –300 mm	10
173.	Spreading Calliper Made of Brass c/p range: 0- 300mm	Range- 0-300mm Resolution -0.02mm Measurement Accuracy= +/-0.04mm	02
174.	SS Water Distillation Apparatus	Capacity 3-4 L, Double Walled,Gap between outer & inner walls is filled with high efficiency mineral wool.WithKetttle element Electrically operated,Suitable to work on 220/230V.Capacity: 4 Lit Per Hour.	03
175.	Stereo Zoom microscope	Body:Plainfocussing stand, rugged, ergonomic design, touch point treated, acid resistant texture painted, rubber feet, Optical system: Greenough Optical System, Total Magnification: 3.5x to 160x (using different combinations of Eyepeice, zoom lens & aux. objectives), Standard zoom lens: 0.7X to 4.5X continously zoom with steps of 0.7x, 0.8X, 1X, 1.5X,2X, 3X, 4X & 4.5X, Zoom ratio: 1:6.4, Eyepices: Paired, WF 10X, FOV-20mm, high point, Multilayeredcoated,High Quality, good contrast, aberration free, aplantic, lockable, Head: Trinocular head, 45° inclined, rotatable 360°, IPD 48-75mm, intermediate parallel zoom, top port for attaching camera with 50:50 splitting, Focusing: Plain focussing, working distance 115mm, Illumination: 3W LED (transmitted and reflected), separate intensity controller & on/off switch,Video format: AVI, Photo format: JPEG or BMP or Tiff, PC interface: USB2.0,Bundle software: MicroCapture with measurement & calibration function	01
176.	Student microscope with 100 X and Mechanical stage	Nosepiece: triple, Head: 45 degree inclined monocular. Widefield Eyepiece: WF10X & WF25X. Achromatic Objectives: 4X, 10X, 40X (spring), Stage Dimensions: 4-3/8" x 4-3/4" (110x120mm). Condenser: NA=0.65 single lens Illumination: tungsten lamp, 110V/20W (220V version available), Microscope Dimensions: 7-1/2" x 5-1/8" x 15-0".	17
177.	Study of Dielectric Constant and Measure Curie Temperature of Ferroelectric Ceramics (by temperature & P-E loop method	Upto 150 C A complete set – up of experiment along with samples of reference	01
178.	Study of IC 555 as an astable and mono stable multivibrator	In built DC regulated Power Supply 12 V / 500mA, On board Clock Pulse. Circuit Printed on Bakelite sheet with IC 555 Pin Outs. Resistances -5, Capacitors-2, Variable Resistor -1 Output Led As Indicator, 2mm/4mm connecting socket and connecting lead wire . Able to perform astablemonostable and bistablemodemultivibrator, Instruction manual. etc.	01
179.	Study of the Phase Shift Oscillator kit	Construction and working of phase shift oscillator Determine frequency of an R - C phase shift oscillator Comparison of the phase of output across each element of phase shift	02

		network in the oscillator Circuit diagram of phase shift oscillator in front panel, in built dc power supply. User manual of trainer kit. Etc.	
180.	Surface tensiometer	Measurement Range: 7~40 N/cm, Display Range: 0~50N/cm, Resolution: 0.1, 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)	01
181.	Surface Roughness Tester	Roughness Parameters Ra, Rz, RY, Rq, Rt, Rp, Rmax, Rv, R3z, RS, RSk, Rmr Primary profile Assessed profiles Roughness profile ® Rmr curve (material ration Mr. Profile recording magnification Vv: 200x - 20000x Vh: 20x, 50x, 200x Measuring system: Metric Imperial Display, resolution 0.001 μ m / 0.04 μ inch Display LCD 128 x 64 dot - matrix, with Back light	01
182.	Surface Tensiometer	Measurement Range: 7~40 N/cm, Display Range: 0~50N/cm, Resolution: 0.1 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)	01
183.	Swage Block	Square shape, 12x12 inch, C.I.material	04
184.	Table top centrifuge	Micro Centrifuge with Complete Set of Rotors (10x2ml, 24x1.5ml, 8x5ml & PCR Strip Tube); Approx 12000 rpm	05
185.	Thermal Anemometer	Digital Thermal Anemometer Meter Tester Air Wind Speed Temperature Volume Anemometer Measurement items: Wind speed / Air temperature / Air flow ft / min Wind speed: $0 \sim 30m/s$ Air temperature: $0 \sim 45 \text{Å}^{\circ}$ C, $32 \sim 113 \text{Å}^{\circ}$ F (accuracy: $\text{Å}\pm 2 \text{Å}^{\circ}$ C) Air flow: $0 \sim 999900m \text{Å}^{3}$ / min Wind speed & flow measurement error: $\text{Å}\pm 3\%$ $\text{Å}\pm 0.1 \text{dgt}$ Wind speed unit selection: m / s, km / h, ft / min, knots, mph Resolution: $0.001m$ / s, 0.1Å° C Backlight display Low voltage display Data hold Max / Min wind speed measuring Manual / Automatic shutdown USB interface Power supply: $4 * 1.5V$ AAA batteries (not included) Features: 1 x Digital Anemometer	02
186.	Thermal Cycler PCR	Sample capacity of 96x0.2ml tubes, 0.2ml tube strips or 1x96-well plate with peltier heating and cooling, have true linear gradient capacity, Dynamic ramping. Temperature differential range 1-25 degree, intuitive touch screen interface, capable of running reaction volumes from 1- 100ul, average ramp rate of 2.5deg C, temperature range of 10-100 degC, gradient range of 40-100 degC.	01
187.	Thermo Fischer Scientific OsteometricBoard	Designed for Linear scale (60cm in 1mm increments) with screen printed directly onto base of measuring surface for reliable, high- precision results. Constructed of lightweight styrene for durability Dimensions: $27.5 \times 5.1 \times 4.3$ in. (70 x 13 x 11cm)	02
188.	Thread Measurement	Mitutoyo 126-125 Screw Thread Micrometer, Interchangeable Anvil- Spindle Tip, Ratchet Stop, 0-25mm Range, 0.01mm Graduation, +/- 0.004mm Accuracy	01
189.	Three-wire thread measuring system	Bench micrometer with 3-wire thread measuring system: Model 313- 101: ranging pitch from 0.25-4mm meets all ANSI and ISO spec	02

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190.	Tig Welding	Class: Insulation Class: B, Dimension: 470 X 200 X 312 mm., 50/60 Hz, 13.6 A, 8.3 KVA	01
191.	TLC kit with vaccum pump	Spreader (Applicator) made of electroplated brass; Perspex base size 114 x 23 cm. to support 5 glass plates of size 20 x 20 or 10 of 20 x 10 cm. and two plates of 20 x 5 cm; Drying plate rack anodized alluminium for ten 20 x 20cm. plates; Spotting Template Perspex; Developing tank with lid; Five Glass plates 20 x 20cm. and two end plates 20 x 5 cm. or Ten 20 x 10 cm. and two 20 x 5 cm. plates; Micro pipette corning glass; Scriber; Glass Sprayer with rubber bellow; Instruction Manual; Draining rack for holding washed plates in angular position; Plate rack made of stainless steel to hold vertically two plates of 20 x 20 cm. in developing tank; Drying plate rack made of anodized alluminium for plates of 20 x 20 cm.; T.L.C. Plate storage Teakwood Cabinet- Size: 38 x 23 x 20 cm.; Dessicator Cabinet- Mae of hick alluminium sheet with stout glass door with rubber gasket; A tray for silica gel desiccant and two perforated shelves; Inner Dimension Height x Width x Depth Size 30 x 50 x 35cm.; Vaccum pump	01
192.	Toolmaker's microscope	TM 505: Eyepiece magnification 15x and objective magnification 2x, monocular with 30 degree depression angle, Max. Specimen height 115 mm, maximum workpiece load 5 kg.	01
193.	UV chamber for TLC	UV Exposed area:, 300 x 300 nm, UV Tubes, Short wave 254nm, Long Wave 365nm, White Light; UV Window: UV Protective shield; UV Area: Rubber mat with strips; Input Voltage:230v +/-10% AC 50Hz	01
194.	Vacuum pump	Max. vacuum : Ultimate 106mbar	05
195.	Vertical Autoclave	Chamber Volume (Litre):50 Litre; Insulation Wall Double Wall; Automation Grade: Semi Automatic; Shape: Vertical; Temperature Range:121 to 125; Pressure Range (psi) upto 15 psi; Equipped with pressure gauge, steam release valve and safety valves; Pressure controlled using spring valves; Equipped with joint less silicon rubber gasket;Operated on 230 Volts A.C.; S.S. basket; Foot Lifting Arrangement; Calibration certificate for Pressure Gauge; Operation Manual & Other standard accessories	04
196.	Vertical Autoclaves	The unit is fitted with very efficient radial locking system made of stainless steel bars (ss-304), steel, To operate on 220/230 Volts, 50Hz AC supply. Working Chamber: Height 450mm, Diameter 250mm, Volume (ltr) 22. Working Temperature : 121° C Hydrotest Pressure : 2.5 kgf/cm sq.g (35 psi), Temperature Chart Recorder- Pen Accuracy: ± 2% full scale, Average Response Time: 11 min. to move 63% of scale, Chart Size: 4" Diameter Dimensions: 7" x 5.5" x 2.5" (18cm x 14cm x 6.5cm) Weight: 480g	02
197.	Vertical Laminar Air Flow	Working Size: 2x2x2 Feet Size of Filters : 24x24x6 Inch No. of Filters : 1.0 Power : 1/5 HP Voltage : 220/230 Volts,	02
198.	VGT Power Weeder	Power-2hp, 52cc, Engine-2 stroke petrol, mileage-45minutesin 1 litre petrol	01
199.	Vice (heavy duty)	Material : Steel body, Required Size – 10" Code : U 301 R Base : Fixed, Body made of ductile iron	10

200.	Volleyball (Official Size)	Mikasa MV210 Premium Synthetic	05
201.	Vortex shaker	Cyclo Mixer with interchangeable rotor head	07
202.	V-Tech Soil Tensiometer	Model: TEN-60 Length: 60 cm, Length: 15-120 cm (custom made for each individual customer), 0-10 Kpa: Represent humidity, high humidity for most crop, 10-30 Kpa: Represent moist, be adaptable to the growth of crops, 30-50 Kpa: Represent dry, need water for some hydrophilic plant, 50 Kpa: Represent very dry, need water for most crops	01
203.	Water bath	Voltage 200-240, Power(w)800, N.W. 3.5 kg, temperature range RT+5-100	06
204.	Water bath shaker	Power Supply- 220/230 V, Temperature Range Ambient +5 deg C to 95 deg C, Shaking Platform Size- 275*275*150 mm, Shaking Water Bath Size- 375*300*225 mm, MOC Inner- Stainless Steel	02
205.	Water shaker	Purification Capacity in an hour (in liters):15, torage 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, Water Recovery (in %)-60.	01
206.	Weighing Machine 2	Weighing Machine (100 gram to 150 kg)	05
207.	Weighing Machine 1	(KGS-500 With Thermal Printer) Power Supply(V) 220v, Material, Cast Iron	02
208.	Welding Table	Length: 4 feet, Height : 2.5 feet, Width: 3 feet, Material mild steel	05
209.	Wood planner	power- 710w, chip thickness-2.6mm, speed-16500rpm	02
210.	Working Model of Lubricating System	Construction details to study the working principle. Tank Capacity: Variable, Voltage: 12V, 24V, Production Capacity: multiple, Maximum Pressure- variable	01
211.	Working Model with Cut Section of a 4 Cylinder 4 Stroke Diesel Engine Motor Driven	Complete with all salient parts sectioned for study of the various components and their function, Voltage- 20 V, Frequency; 60 Hz, Motor Power: 2 HP, Power: 2.5 kW	01
212.	Zoom Stereo Microscope	 With two wide field WF 10x eyepieces and achromatic coated objective lenses, the OM2344 offers 7x-45x zoom magnification. Accessories Rubber eyecups, 2 spare bulbs, reversible black/white stage plate, frosted glass stage plate, vinyl dust cover, manual 	03

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 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 changed by the firm are more, the same will be recovered from the subsequent/unpaid bill of the supplier.
- 9.14 If the bidder hasexperience 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 finferior 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 qualifyingvendors 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 obligationsby 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 GhasidasVishwavidyalaya, Bilaspur (C.G.) for any clarification or information regarding the Tender.E-

Signature and Seal Of Bidder

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Mail:arstore@ggu.ac.inPhoneNo.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 foe 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. 1,50,000/- 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, 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 t 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 1,50,000/-		
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(asperannexureIE)		
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) <u>Note:</u> 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)		

<u>Annexure –I-A</u>

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 Noofdocumentsattachedinth isBid

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)
2016-17				
2017-18				
2018-19				

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			
3	(as applicable)			

Annexure-I-D

AUTHORIZATIONCertificate 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: AuthorizationCertificate 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	Name of the manufacturer	Address of the manufacturer	Certificate reference No issued by the principle manufacturer	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

AnnexureII

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'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/-.

Signature and Seal Of Bidder

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	Details	Complied /attached Yes/No	Page Number	Compiled/N ot-Compiled
Envel	ope 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 1,50,000/- (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			
(Attach	pe-II (online Only) the duly signed copies of the following along with relevant ting 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.			
Envelo	pe-III (online only)			
1	Annexure-II (in desired format)			

CHECK – LIST

Dated:

Signature of Bidder
Name
Designation
Firm's seal

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