



## For News Paper

	<b>Sant Gadge Baba Amravati University</b> <b>E-Tender Notice</b>	Date: 13/02/2019
No. SGBAU/2/Store/422 /18 -19		
E-Tenders are invited (online only) from authorized dealers / Manufacturer for following eTenders.		
Tender No.	Tender Name	
04/2019	For Supply Of Laboratory & Office Equipment's.	
09/2019	For Supply Of Computer & Its Peripherals With Networking Accessories	
Details of E-Tender are available on <a href="http://www.mahatenders.gov.in">www.mahatenders.gov.in</a> . Right to reject any tender (part or full), without assigning any reason, is reserved by the University.		
		Registrar

## For Website

	<b>SantGadge Baba Amravati University</b> <b>E-Tender Notice</b>	Date:13/02/2019			
No. SGBAU/2/Store/422/18 -19					
E-Tenders are invited from Manufacturer / Authorized dealers for supply of following eTenders					
Tender Sr. No.	Name of Tender	Cost of Tender Form (With GST)	Tender Deposit (EMD)	Last Date of Submission upto 01.00 PM	Date of Opening at 01.00 PM
1	2	3	4	5	6
04/2019	FOR SUPPLY OF LABORATORY & OFFICE EQUIPMENTS	2360/-	25000/-	06/03/2019	07/3/2019
09/2019	FOR SUPPLY OF COMPUTER & ITS PERIPHARALS WITH NETWORKING ACCESSORIES	2360/-	25000/-	06/03/2019	07/03/2019
Tender will be preferably open on above mentioned dates at E-Tender cell, Engineering section, Sant Gadge Baba Amravati University. Details of E-Tender are available on <a href="http://www.mahatenders.gov.in">www.mahatenders.gov.in</a> & on our University website <a href="http://www.sgbau.ac.in">www.sgbau.ac.in</a> . Right to reject any tender (part or full), without assigning any reason, is reserved by the University.					
					Registrar

## Envelope - 01

### SANT GADGE BABA AMRAVATI UNIVERSITY

University Campus, Near Tapowan, Mardi Road, Amravati 444602

**Phone No.** (0721) 2664385, 2662206, 2662358 **Ext. No.** 237, 240

**Fax No. :** (0721) 2660949, 2662135

**Email** – arstore@sgbau.ac.in **GRAM** –AMUNI

**Website:** www. sgbau.ac.in



### Sant Gadge Baba Amravati University

E-Tender Notice (Technical Bid)

TENDER NO. 4/2019

To,

The **Registrar**

Sant Gadge Baba Amravati University,  
Amravati

#### **Subject: Supply of Laboratory & Office equipment's.**

Ref.: Tender Notice No. SGBAU/2/Store/422/2018-19, dated 13/2/2018 (Due Date– 06/ 03/2019)

**R/Sir**

With reference to subject mentioned above I / We M/s.....  
..... quote herewith the rates for  
supply of Laboratory & Office Equipment.

I /We read & accept all terms & conditions of this Tender Form.

1	Full name of Vender Firm :		
2	Name & Designation of the person signing the bid :		
3	Address of the Firm :		
4	e-mail :		
5	Phone No. :		
6	Mobile No. :		
7	Shop Act Registration Certificate ( if Applicable)	Enclosed	Not Enclosed
8	Income Tax Clearance Certificate / Return Certificate (Upto last date of submission of this tender)	Enclosed	Not Enclosed
9	GST Registration Certificate	Enclosed	Not Enclosed
10	Tender Form Fee Exemption Certificate. (if applicable)	Enclosed	Not Enclosed
11	EMD Exemption Certificate. (for availing the facility of exemption)	Enclosed	Not Enclosed
12	Copy of Permanent Account No.	Enclosed	Not Enclosed
13	Declaration Regarding not being black listed and debarred. (As per Annexure-A)	Enclosed	Not Enclosed
14	Fall Clause Certificate (As per Annexure-B)	Enclosed	Not Enclosed
15	General Terms & Conditions (As per Annexure-C)	Enclosed	Not Enclosed
16	The Manufacturer /Authorized Dealer should submit valid Manufacturer / Authorization Certificate for current year.	Enclosed	Not Enclosed

I / We have read carefully and have understood the same in vernacular known to me / us about all the Terms & Conditions & Standard Terms & Conditions and I / we hereby agree to the same and shall abide by them hence this verification.

Name of Firm : .....

GST Registration No. : .....

Permanent Account No.(PAN) : .....

Signature of Vender : .....

Name of the Authorized signatory :.....

Seal of the Firm :.....

DECLARATION REGARDING NOT BEING BLACKLISTED/DEBARRED FOR  
TAKING PART IN TENDER

(To be executed & attested by public Notary / Executive Magistrate on Rs. 100/- judicial Stamp paper by the bidder)

I / We ..... Supplier / Manufacturer /  
Partner(s) / Authorized Distributor of M/s. ....  
Hereby declare that the firm / company namely M/s.  
..... has not been blacklisted or debarred in the past by  
Union / Sate Government or by any other organization from taking part in tenders in India.

OR

I / We ..... Supplier /  
Manufacturer / Partner(s) / Authorized Distributor of M/s.  
..... Hereby declare that the firm / company namely M/s.  
.....  
was blacklisted/ debarred in the past by Union / Sate Government or by any other organization from  
taking part in tenders for a period of ..... years w.e.f..... to .....  
The period is over on ..... and now the firm / company is entitled to take part in  
tenders

In case the above information found false I / We am/are fully aware that the tender / contract will be  
rejected / cancelled by the University and EMD / SD shall be forfeited. In additions to the above the  
University will not be responsible for payment of any completed / partially completed work.

DEPONENT

Name: .....  
Address: .....  
.....  
.....

Attested:  
  
(Public Notary / Executive Magistrate)

**Fall Clause Notice Certificate**

This is to certify that I/we have offered the maximum possible discount to you in the Tender No..... Dated ..... The Price Charged for the stores supplied under Rate Contract should, under no event be higher than lowest prices at which the party sells the terms of identical description to any other Govt. organization / PSU/ Autonomous bodies / Pvt. Organization during the period of contract failing which the “FALL CLAUSE” will be applicable.

In case, if the price charged by our firm is more, Sant Gadge Baba Amravati University will have the right to recover the excess charged amount from the subsequent / unpaid bill of the supplier.

Seal and signature of Tenders

Note: This certificate should be on the letter head of the firm and should be signed by the person competent and having the power of attorney to bind the same.

## GENERAL TERMS &amp; CONDITIONS

## TENDER NO. 4/2019

Tender Notice No. SGBAU/2/Store/ 422/ 2018-19, dated 13 /02/2019 (Due Date 06/ 03/2019)

- 1) E-Tenders are invited from Manufacturer / Authorized dealers for supply of Laboratory & Office Equipment's.
- 2) E-Tender should be compulsorily submitted online only.
- 3) Last date of online submission of E-Tender is 06/03/2019 up to 01.00 PM. The tender will be opened on 07/03/2019 at 01.00 PM in presence of Tender opening committee preferably at E-Tender Cell, Engineering Section, Sant Gadge Baba Amravati University, Amravati.
- 4) The tenderer must submit the following documents online only. If following documents are not found at the time of opening, the tender will not be considered. (The hard copy of the same be submitted to Store Section, of the Sant Gadge Baba Amravati University before the date of opening)
  - a) Shop Act Registration Certificate ( if Applicable)
  - b) Income Tax Clearance Certificate / Return Certificate ( latest / Current Year)
  - c) GST Registration Certificate
  - d) Tender Form Fee & Tender Deposit Money (EMD)
  - e) EMD Exemption Certificate, (for availing the facility of exemption)
  - f) PAN Card
  - g) Declaration Regarding Blacklisting / Debarring of Taking part in Tender (As per Annexure-A)
  - h) Fall Clause Certificate (As per Annexure-B)
  - i) General Terms & Conditions. (As per Annexure-C)
  - j) The Authorized Dealer should submit valid Authorization Certificate for current year. (The authorization certificate will be verified from the manufacturer as and when required. Authorization certificate to sub-dealer issued by authorized dealer will not be considered.)
- 5) The Tender Form Fee of Rs. 2360/- (including GST) and EMD of Rs.25,000/- should be submitted online only
- 6) Successful bidder shall have to deposit @ 5% on total value of purchase orders as Security Deposit. While calculating the security deposit, the EMD amount shall be converted in Security Deposit and it will be released within three months after the expiry of warrantee period.
- 7) The Successful tenderer availing the facility of exemption shall have to deposit @ 5% as Security Deposit on total value of purchase orders within specific /stipulated period prescribed by University after acceptance of their rates in the form of Demand Draft / pay Order /FDR/ banker Cheque in favour of Finance & Accounts Officer, Sant Gadge Baba Amravati University, Amravati
- 8) Failure of the successful bidder to deposit Security Deposit within prescribed time limit shall constitute sufficient grounds for the annulment of the award. In this event the University may make the award to the next lowest evaluated bidder or call for new bids.
- 9) Incomplete e-tenders not in conformity with our prescribed specifications, terms & conditions will be rejected. University has right to accept / reject any or all tenders partially or complete without assigning any reason.
- 10) The suppliers should quote rates for each article quite independent of the rates of other articles, as it will be the right of the University to accept the offer partially or fully.
- 11) Rates to be mentioned F.O.R. Stores/ Dept. & including all taxes. Installation / Transportation etc. The purchase order for supply of material will be issued time to time as per requirement after the acceptance of the rates. **(Rates should be valid up to 30/6/2019)**
- 12) The supplier shall supply the ordered goods within the delivery period mentioned in the purchase order. Failing which the penalty @0.5% per week shall be charged of order value and shall be deducted from the bill of supplier. In case of emergency, University shall reduce the delivery period and the supplier shall have to deliver the goods within the reduced delivery period.
- 13) In case of substandard material, the supplier shall have to replace the same goods within 7 days, otherwise penalty @ 0.5% per week shall be imposed of ordered value and @ **5% penalty at the cost of material or as decided by the university due to substandard supply.** In case of defects noticed during use of material supplied by the supplier within warrantee period from the date of supply. The supplier will require to repair / replace the materials etc failing which the material will be repaired / purchased from another agency and the difference in cost, if any adjusted from the earnest money/ security deposit or any other pending bills of the supplier.
- 14) University has right to reject any part or full articles if the quality of material is disapproved & will be kept in stores / Dept./Section at supplier's risk only. It should be replaced at suppliers own cost within seven days.
- 15) In the event of failure to comply with the supply order the EMD will be forfeited. As well as if suppliers fail to replace the rejected goods in time, we are at liberty to purchase the ordered goods from the open market without giving any prior notice & if compelled to purchase at the higher price than your approved rates such losses shall be recovered from the S.D. or any outstanding payment of the tenderer.
- 16) The security Deposit / Tender Deposit / Earnest Money Deposit of successful bidder will be refunded only after completion of final supply as per terms & conditions.
- 17) No negotiation will be done.
- 18) **Term of payment:** Payment to be made to the supplier after satisfactory supply and will be subject to the deduction of taxes applicable at source at the rate in force from time to time.

**19) STANDARD TERMS AND CONDITIONS:**

**A) Changes /Amendments:**

The University shall have the right at any time, by written notice, in the form of an amendment order, to make any changes it deems necessary, including, but not limited to changes in specifications design, delivery, testing methods, packing or destination. If any such required changes cause an increase or decrease in the cost of or the time required for performance, an equitable adjustment shall be made in the contract price or delivery schedule, or both. Any claim by the vendor for adjustment under this clause shall be deemed waived unless asserted in writing within ten (10) days from receipt by the vendor of notice of change ( amendment order). Price increase, extension of time for delivery and change in quantity shall not be binding on the University unless sufficiently justified by a vendor and accepted by the University in a form of amendment/change order issued and signed by the University.

**B) Delivery/ Force Majeure:**

If any Material is not delivered by the date specified therein, the University reserves the right, without liability, to cancel the order for undelivered material not yet shipped or tendered, and to purchase the same from another vendor and to charge the defaulting vendor for any loss incurred in this transaction. Any provisions thereof for delivery by instalment shall not be construed as obligatory unless agreed upon by both the parties. The University shall have the right to refuse deliveries made more than one week in advance of any delivery schedule appearing in the order unless arrangements for such early delivery have been confirmed with the receiving party. If the vendor is unable to complete performance at the time specified for delivery by reason of strikes, labour disputes, riot, war, fire or other causes beyond the vendor reasonable control, the University, at its option, may elect to take delivery of Material in its unfinished state and to pay such proportion of the contract price as it deemed reasonable.

**C) Price / Taxes:**

Price stated in this agreement are firm and shall remain firm until required deliveries have been completed unless otherwise expressly agreed to in writing by both parties. The vendor agrees that any price reduction made with respect to Material covered by this order subsequent to placement will be applied to this order. All prices specified herein include all charges for, but not limited to, inspection, and packaging. Prices set forth shall be inclusive of applicable sales, excise, value-added or similar taxes until and unless specified in the schedule.

**D) Inspection And Acceptance:**

All Material covered by this order may be inspected and tested by the University or its designee at vendors cost. If deemed necessary by the University, the vendor shall provide without charge, all reasonable facilities and assistance for such inspection and test. Any inspection records relating to Material covered by this agreement shall be made available to the University during the performance of the order. If any Material covered by this agreement is defective or otherwise not conforming to the requirements of this agreement, the University may, by written notice to the vendor:

(a) rescind the purchase / supply order as to such non-conforming Material;

(b) accept such Material at an equitable reduction in price;

(c) reject such non-conforming Material and require the delivery of suitable replacements.

(d) If the vendor fails to deliver suitable replacements promptly, the University, with notice of seven business days, may replace or correct such Material and charge the vendor the additional cost occasioned thereby, or terminate this order for default. No inspection (including source inspection) test, approval (including design approval) or acceptance of Material shall relieve the vendor from responsibility for defects or other failures to meet the requirements of this order. Rights granted to the University in this article entitled INSPECTION are in addition to any other rights or remedies provided elsewhere in this order or in Law.

**E) Warranty:**

The vendor warrants that any Material supplied hereunder shall conform to generally recognized manufacturing and safety standards of the vendor's industry as per Indian standard Institution (ISI) or similar standard. The vendor's specifications on performance as detailed in the vendor's brochures, sales literature and other specifications as may be available to the University.

(a) In addition to any other express or implied warranties, the vendor warrants that the Material furnished pursuant to this order will be:

1. free from defects in title, workmanship and material :

2. free from defects in design except to the extent that such items comply with detailed designs provided by the University;

3. of merchantable quality and suitable for the purposes, if any, which are stated in the tender / quotation.

(b) If any material covered by this agreement is found not to be as warranted, the University may, by written notice to the vendor:

1. Reject such defective material and require the delivery of suitable replacements.

2. If the vendor fails to deliver suitable replacements promptly, the University, with notice of seven business days, may replace or correct such material and charge the vendor the additional cost occasioned.

(c) Any items corrected or furnished in replacement are subject to all the provisions of this article entitled WARRANTIES to the same extent as items as items initially furnished or originally ordered.

**F) This warranty provision shall survive any inspection, delivery, acceptance, payment, expiration or earlier termination of this order and such warranties shall be extended to the employees, students, and users of the**

material. Nothing herein, however, shall limit the University's rights in law or equity for damages resulting from delivery of defective goods or damage caused during the delivery of goods or provision of services.

- G) Rights granted to the University in this article entitled WARRANTIES are in addition to any other rights or remedies provided elsewhere in this order or in Law.**

**H) Patent Indemnity:**

The vendor agrees to indemnify, hold harmless and defend the University, its employees, and students with respect to all claims, suits, actions and proceedings of actual or alleged infringements of any Letter, patent, Registered or Industrial Design, Trademark or Trade Name, Trade secret, copyright or other protected right in any country resulting from any sale, use or manufacture of any Material delivered hereunder and to pay and discharge all judgments, decrees, and awards rendered therein or by reason thereof and bear all expenses and legal fees (including the University's) associated herewith. The University reserves the right to be represented in any such action by its own counsel at its own expense.

**I) Indemnity:**

The vendor will indemnify, defend and hold the University, its and students harmless from any loss, expense, claim or damage including reasonable defence costs, arising from any claim or action based on any acts or omissions of the vendor, its employees, servants, agents or subcontractors. The University reserves the right to be represented in any such action by its own counsel at its own expense.

**J) Assignment / Subcontracting / Sublet:**

The vendor shall not assign the order received, any rights under this agreement or to become due hereunder neither delegated nor subcontracted / sublet any obligations or work hereunder without the prior written consent of the University.

**K) Cancellations:**

The University may cancel this agreement in whole or in part, for no cause, upon written, FAX or telex notice to the vendor, effective when sent, provided such notice is sent at least fourteen (14) days prior to the delivery date specified on the face of this order.

The University may cancel this order in whole or in part at any time for cause by written, FAX, or e-mail notice to to vendor, effective when sent, in the event that the vendor :

- (a) fails to comply w
- (b) ith any term or condition for this order including, but not limited to, delivery terms; or
- (b) appoints a receiver, liquidator or trustee in bankruptcy or other similar officer over any or all of its property or assets; or
- (c) files a voluntary petition in bankruptcy; or
- (d) has had filed against it an involuntary petition in bankruptcy which remains in effect for thirty (30) days; or
- (e) voluntarily ceases trading; or
- (f) merges with or is acquired by a third party; or
- (g) assigns any of its rights or obligations under the order to a third party without the University's advance written consent. upon the occasion of any one of the aforesaid and in addition to any remedies which the University may have in Law or in Equity, the University may also cancel this order or any outstanding deliveries hereunder by notifying the vendor in writing of such cancelation and the vendor shall thereupon transfer title and deliver to the University such work in progress or completed material as may be requested by the university. The University shall have no liability to the vendor beyond payment of any balance owing for Material purchased hereunder and delivered to and accepted by the University prior to vendor's receipt of the notice of termination, and for work in progress requested for delivery to University.

**L) Rescheduling:**

The University may without liability at least fourteen (14) days prior to the scheduled delivery date appearing on the order defer delivery on any or every item under said order by giving oral notice to the vendor (confirmed in writing ten (10) working days ) of any necessary rescheduling.

**M) Shipping, Packaging and labelling:**

All Material purchased hereunder must be packed and packaged to ensure its safe delivery in accordance with good commercial practice and where incorporated, the University's packaging specification.

**N) The Vendor as an Independent Contractor:**

The vendor shall perform the obligations of this order as an independent contractor and under no circumstances shall it be considered as agent or employee of the University. The terms and conditions of this order shall not, in any way, be construed as to create a partnership or any other kind of joint undertaking or venture between the parties hereto. The vendor expressly waives any and all rights which or may not exist to claim any relief under the University's comprehensive insurance policy, worker's compensation or unemployment benefits.

**O) Invoicing / Payments / Set-offs:**

After each completion of supply/purchase order, the vendor shall duplicate invoices including item number to the University's concern Department. Payment of invoice shall not constitute acceptance of Material ordered and shall be subject to appropriate adjustment, if the vendor failed to meet the requirements of this agreement. The University shall have right at any time to set-off any amounts due to the vendor, (or any of its associated or affiliated companies) against any amounts owed by the University with respect to this agreement.

**P) Compliance with Laws:**

By acceptance of this agreement, the vendor agrees to comply with the requirements of all the existing laws. The vendor also agrees to comply with the fair labour standards Act and the occupational safety and Health Act, and all other applicable laws, ordinances, regulations and codes in the vendor’s performance hereunder. The vendor further agrees to indemnify and hold the University and its customers harmless from any loss or damage that may be sustained by the University, by reason of the vendor’s failure to comply with any laws, ordinance, regulations and codes.

**Q) Reproduction of Documentation:**

The University shall have the right at no additional charge to use or incorporate all or portions of material found in the vendor’s literature and / or reproduce the vendor’s applicable literature such as operating and maintenance manuals, technical publications, prints, drawings, training manuals and other similar supporting documentation and sales literature. The vendor agrees to advise the University of any updated Information relative to the foregoing literature and documentation with timely written notice.

- 20) Any dispute arising out of or relating to this enquiry/e-tender the decision of Hon’ble Vice-Chancellor shall be final.
- 21) All legal matters subject to jurisdiction of Amravati.

Registrar  
Sant Gadge Baba Amravati University

I / We have read carefully and have understood the same in vernacular known to me / us about all the General Terms & Conditions &Standard Terms & Conditions and I / we hereby agrees to the same and shall abide by them hence this verification.

Name of Firm : .....

GST Registration No. : .....

PAN: .....

Signature of Vender : .....

Name of the Authorized signatory: .....

Seal of the Firm





## Envelope - 02

Sant Gadge Baba Amravati University  
E-Tender Notice (Price Bid)  
TENDER NO. 4 /2019

To,  
Registrar  
Sant Gadge Baba Amravati University,  
Amravati

**Subject : Supply of Laboratory and Office equipment's.**

**Ref.:** Tender Notice No. SGBAU/2/Store/ 422/2018-19, dated 13.2.2019 (Due Date- 06/03/2019)

**R/Sir**

With reference to above I / We M/s.....  
quote herewith the rates for Laboratory and Office equipment's etc. I /We read & accepted all terms & conditions which is enclosed with this Tender Form.

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
1	<b>RGST Research Project- Dr. K.D. Kamble, Deptt. of Microbiology</b>			
1.1	<b>"BINARY HPLC"</b> System with software Model Sys LC-138 (Waters Make) HPLC Pump ( or delivery system) : High Pressure binary gradient Two pump System with wide range. The machine should be operable both in isocratic and gradient mode. Operating pressure limits should be programmable and should have possibility of display in psi, bar, and kPa <b>PDA Detector</b> Detector should have wavelength range of 190-800 nm or more with accuracy of +/- 1 nm. Wavelength Repeatability: ± 0.1 nm <b>Software</b> Software should be original, authenticated and compliant for GLP/GMP/CFR. <b>Hardware</b> Computer of standard make like HP, Dell or Lenevo should be supplied with mentioned specification: Processor: i5-quard core, 3.0 GHz, or higher version; 6GB RAM, 1TB hard higher drive or; DVD Read Write Drive, 22'' or more wider LED colour monitor with latest version of windows based operating software. Laser jet Printer. <b>Columns</b> Analytical Column C18 RP (250 x 4.6 mm x 5µ) - 1 Semi-prep column C-18 RP (250x19mm) – 1. Guard Column-01. <b>Fraction Collector X-Y Mechanism and 3 Wave Diverter Valve to manage collection of Peak fractions in to test tubes. Temperature range up to 40<sup>0</sup> C.</b>	1		
1.2	<b>Refrigerated Centrifuge (REMI- C-24 plus):</b> Max. Speed (rpm)- 20000. Max. RCF (g)- 37570. Max. Tube Size (ml)- 100. Max. Capacity (ml)- 400. Lowest Temp. (°C) – 8. W x D x H (mm)- 775 x 575 x 475. <b>With additional Angle Heads (with polypropylene tubes)- Model R-247 of having 8X50 ml capacity with speed of 16000 and VS-03 REMI Voltage Stabilizer for above</b>	1		
1.3	Laminar Flow Bench Horizontal (VAIOMETRA- AMH4): <b>Size : 4' x 2' x 2'</b> <b>Microprocessor Based LED + LCD Controller</b> Cleanliness Level : Class 100 as per US Federal Standard 209 E. No. of Pre Filter: 1, No. of Motor 1, Illumination : 2 x 40W, Details of UV tubes 1 x 30W	1		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
1.4	Laboratory Oven (Tempo TI-125 B) : Natural convection of 250 <sup>0</sup> C. Heating elements made from the best quality Kanthal DSD wire are used on refractory supports. <b>H x W x D cm-</b> 45 x 45 x 45 <b>Trays-</b> 2 <b>Capacity-</b> 122 litres.	1		
2	<b>RGST Research Project- Dr. P.V. Thakre, Deptt. of Biotechnology</b>			
2.1	Microplate Centrifuge Unit : Place to accommodate 2-4 Microtiter Plates of 96 well, speed 00-2000 rpm	1		
3	<b>Boys' Hostel</b>			
3.1	<p>Air Walker : DIMENSIONS 1060mm (Length) x 810mm (Width) x 11600mm. <b>(Height)</b>. SAFE AREA: - 2.0 Meter x 1.8 Meter</p> <p>Air Walker Equipment made from "B" class G .I. Pipe of different NB. NB stands for Nominal Bore Sizes i.e. Internal Diameter of pipe in millimetres</p> <p>The main frame pipe is of 80mm NB made from "B" Class G.I. Material which is bend at the radius of 250 mm.</p> <p>The bottom support of M.S. round plate of 0250 mm &amp; 10mm .thick.</p> <p>The leg movement frame is of 32NB made from "B" Class G.I. pipe.</p> <p>This link is supported with MS flat of size 60X8mm.</p> <p>The handle frame is of 25NB made from "B" Class GI. Pipe The foundation used for fixing is a structure and made from centre pipe of G.I. of 80 NB "B" class welded with M.S. round plate of 0250 mm &amp; 10mm thick. Main pipe supported with 25mm X 25mm M.S. angles of 3 mm thickness and 20mm x 40mmCRC square pipes of 3mm thickness.</p> <p>Closing Caps are made up of high quality Fibber reinforced Plastic material.</p> <p>Pins used of Diameter 25mm are made up from bright material.</p> <p>A24 circlips are used for assembly.</p> <p>,The bearings used are "6205" permanent lubricated sealed bearing of repute brand.</p> <p>High tensile steel galvanized nuts &amp; bolts are used for assembly.</p> <p>The powder coating is done by Pure Polyester powder of Ackzonoble or Berger Paints with 60 to 70 micron thickness.</p> <p>The footrests are made from casted Aluminium material, having sizes 130mm X 310mm X 5mm thick. With the support of 250mmX 115mm X 3mm thick MS plate.</p> <p>To build structure bushes are used which are made from M . S .seamless pipe of 60mm O.D. and 5mm thickness as well as 60mm diameter solid bar bush is used.</p> <p>Bolt M8X16 mm and Nylock nut of M8 made of SS 304 used on nylon cap mounted on pins to protect bearings and pins from rain and dust.</p>	2		
3.2	<p>Chest Press :</p> <p>DIMENSIONS: - 2000mm (Length) x 710mm (Width) x 2200mm. (Height).</p> <p>SAFE AREA: - 3.0Mtr x 1.7Mtr.</p> <p>Chest press cum seated puller equipment made up of "B" Class G.I. pipe of different NB. NB stands for Nominal Bore Sizes i.e. Internal Diameter of pipe in millimetres</p> <p>The centre pipe is of 100NB made up of "B" Class G.I. pipe.</p> <p>The bottom welded with support of M.S. round plate of 0250 mm &amp; 10mm thickness.</p> <p>The connecting pipes are made up from 25NB "B" class G.I. pipe.</p> <p>The handle frame is made up from 32NB "B" class G.I. pipe.</p> <p>To build structure hushes are used which are made from seamless pipe of 50mm O.D. and 6mm thickness as well as 50mm diameter solid bar is used.</p> <p>The foundation used for fixing is a structure and made from centre pipe of G.I. of 80 NB "B" class welded with M.S. round plate of 0250mm &amp; 10mm thick. Main pipe supported with 25 mm X 25mm M.S. angles of 3 mm thickness and 20mm x 40mm, CRC square pipes of 3mm thickness.</p> <p>The seats and Back rests are fitted on the outer frames are made up of M.S. Sheet of size 330 mm X300 mmX2mm thickness and deep drawn and pressed in tools and dies to have uniform radius of 20 mm with no sharp edges. Closing Caps are made up of high quality Fiber reinforced Plastic material.</p> <p>Pins used of Diameter 25mm and 17mm are made up from bright material.</p> <p>The bearings used are of "6205" &amp; "6203" permanent lubricated</p>	1		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	sealed bearing of reputed brand. High tensile steel with galvanized nuts & bolts are used for assembly. The circlips used for locking is made up of A24 & A16. The powder coating done with Pure Polyester powders from Ackzonoble or Berger Paints with 60 to 70 micron thickness.			
3.3	Shoulder Builder : DIMENSIONS: - 900mm (Length) x 900mm (Width) x 1580mm (Height). Safe Area:- 1.9Mtr X 1.9Mtr Shoulder Builder Equipment made from "B" Class G.I. pipe of different NB. NB stands for Nominal Bore Sizes i.e. Internal Diameter of pipe in millimetres The Center Pipe is of 100nunNB made from "B" Class G.I. pipe,and the bottom support of M.S. Round plate of 250 mm diameter & 10mm thickness. Sleeve provided of M.S. seamless pipe of Outer diameter 125mm with thickness 5mm provided. The handle movement frame is of 25mm NB made from "B" Class G.I. pipe. The foundation used for fixing is a structure and made from centre pipe of G.I. of 80mm NB "b"or "c" class welded with M.S. round plate of 0250 mm & 10mm thick. Main pipe supported with 25mm X 25mm M.S. angle of 3 mm thickness and 20mm x 40mm CRC square pipe of 3mmthickness. Closing Caps are made up of high quality Fiber reinforced Plastic material. The pins used are made up of 0 25 mm of bright material. The bearing used is "6201" &"6205" permanent lubricated sealed bearing of reputed brand. High tensile steel with galvanized nut bolts are used for assembly. The cerclips used for assembly. The nylon bush is used for handle knob. The powder coating done with Pure Polyester powder of Ackzonoble or Berger Paints with 60 to70 micron thick	2		
3.4	Sky Walker (set): DIMENSIONS: <b>1720mm (Length) x 630mm (Width) x1750mm.(Height)</b> SAFE AREA: - 2.7Mtr x 1.6Mtr. Sky Walker Equipment made from "B" class G.I. Pipe of different NB. NB stands for Nominal Bore Sizes i.e. Internal Diameter of pipe in millimetres The main frame pipe is of 80mm NB made from "B" Class G.I. Material. The leg movement frame is of 50 x 50mm x 3mm thick CRC square pipe. Sleeves are made up of 100 mm OD M.S. pipe with thickness 5mm. This results in easy replacement of bearings, pins and handle. The handle frame is of 25mm NB made from "B" Class G.I. pipe. The foundation used for fixing is a structure and made from centre pipe of G.I. of 80NB "B" class. Welded with M.S. round plate of 0250 mm & 10mm thick. Main pipe supported with 25 mm X 25mm M.S. angles of 3 mm thickness and 20mm x 40mm CRC square pipes of 3mm thickness. Two foundations are provided for rigid support. The footrests made from Aluminium casting material of size 130X 310 X 5mm. Closing Caps are made up of high quality Fiber reinforced Plastic material. The pins used are made up of 0 25mm bright material. Pins are fixed at the outer end with M8 grub screws and Dia.8mm SS ball. The bearings used are "6205" are permanent lubricated sealed bearing of reputed brand. High tensile steel with galvanized nuts & bolts are used for assembly. The circlips used for assembly. The powder coating is done with Pure Polyester powder of Ackzonoble or Berger with 60 to 70 micron thickness.	1		
3.5	Rower (Unit) : DIMENSIONS: - 1200— (length) x 1000mm (Width) x 920mm. (Height) SAFE AREA: - 1.5Mtr. x 1.5Mtr. Rower Equipment made from "B" Class G.I. pipe of different NB. NB stands for Nominal Bore Sizes i.e. Internal Diameter of pipe in millimetres	1		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	<p>The Main frame is of 80NB "B" class G.I.. Pipe welded with M.S. round plate of 250mmX10mm.</p> <p>The handle frame 2 5 N B is made from "B" class G.I. pipe.</p> <p>The foundation used for fixing is a structure and made from centre pipe of G.I. of 80 NB "B" class Welded with M.S. round plate of 0250 mm &amp; 10 mm thick. Main pipe supported with 25 mm X 25mm M.S. angles of 3 mm thickness and 20mm x 40mm CRC square pipes of 3mm thickness.</p> <p>To join the movement frame to main frame connecting links made up from 25NB &amp; 32 NB G.I. "B" class pipe.</p> <p>The seat fitted on the outer frames are made up of M.S. Sheet of size 330 mm X 300mmX2mm thickness and deep drawn and pressed in tools and dies to have uniform radius of 20 mm with no sharp edges. Pins used of Diameter 17mm are made up from bright material.</p> <p>The bearings used are of "6203" permanent lubricated sealed bearing of reputed brand.</p> <p>High tensile steel with galvanized nuts and bolts are used for assembly. The P.U. bushes (Stopper) used to avoid the collision.</p> <p>The circlips used for assembly.</p> <p>The powder coating done with Polyester powders from Ackzonoble or Berger Paints with 60 to 70 micron thickness.</p>			
3.6	<p>Double Standing Twister : DIMENSIONS: - 1500mm (Length) x 600mm (Width) x 1300mm. (Height).</p> <p>SAFE AREA: - 2.5Mtr.X 1.5Mtr.</p> <p>Double Twister equipment made from "B" Class G.I. pipe of different NB. NB stands for Nominal Bore Sizes i.e. Internal Diameter of pipe in millimetres</p> <p>The Centre Pipe is of 100NB made from "B" Class G.I. material.</p> <p>The bottom welded with support of M.S. round plate of 0250 mm &amp; 10mm thickness.</p> <p>The bottom frame is of 32NB made from "B" class G.I. pipe.</p> <p>The handle frame is of 25NB made from "B" class G.I. pipe.</p> <p>The foundation used for fixing is a structure and made from centre pipe of G.I. of 80 NB "B" class welded with M.S. round plate of 0250 mm &amp; 10mm thick. Main pipe supported with 25 mm X 25mm M.S. angles of 3 mm thickness and 20mm x 40mm CRC square pipes of 3mm thickness.</p> <p>The Twister plate fitted on the bottom frame is made up of M.S. Round Plate of size 0 300mm and 10mm thick.</p> <p>Closing Caps are made up of high quality Fibber reinforced Plastic material. Pins used of Diameter 35 mm are made up from bright material.</p> <p>The bearings used are of "6205" permanent lubricated sealed</p> <p>High tensile steel with galvanized nuts and bolts are used for assembly.</p> <p>The powder coating done with Pure Polyester powders from Ackzonoble or Berger Paints with 60 to 70 micron thickness.</p>	1		
3.7	<p>Back Extension (Set):</p> <p>DIMENSIONS: - 1400mm (Length) x 700mm (Width) x 820mm (Height). SAFE AREA: - 2.4Mtr x 1.7Mtr.</p> <p>Back Extension Equipment made from "B" G.I. Pipe of different, NB pipe. (NB stands for Nominal Bore i.e. Internal Diameter of pipe in mm)</p> <p>The main frame is of 50mm NB made from "B" Class G.I. pipe. The Foot resting frame of 32mm NB made from "B" Class G.I. pipe</p> <p>The handle frame is of 25NB made from "B" Class G.I. pipe.</p> <p>The seat fitted on the outer frames is made up of M.S. Sheet of size 330 mm X 300 mmX2mm thickness and deep drawn and in tools and dies to have uniform radius of 20 mm with no sharp edges. The foundation used for fixing is consists of 50mm NB made from "B" Class G.I. pipe.</p> <p>The footrests are made from casted Aluminium material, having sizes 130 x 310 x 5 mm thick. With the support of 250mm X 115mm X 3mm thick MS plate.</p> <p>The powder coating done with Pure Polyester powder of Ackzonoble or Berger with 60 to 70 micron thickness.</p>	1		
3.8	<b>LCD TV:</b> 49” Full HD Resolution. Wall mountable, Smart Phone Connectivity. USB Port latest Model	1		
3.9	Motorised Treadmill: Arofit model (AF-881) or Similar Commercial and Hevy Duty. Latest	1		
3.10	Belt Vibrator : Arofit Vibrator AF 302 D	2		
3.11	Spin Bike : Arofit model or Similar Commercial and Hevy	1		

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1	2	3	4	5
	Duty. Latest			
3.12	Biometric Attendance System with Backup power Supply :Face/Finger/RFID Attendance Reader (500 faces, 2000 fingers,1,00,000 logs TCP IP, USB) Suitable up to 100 students)	1		
3.13	Biometric Attendance System with Backup 24.12: power Supply Face/Finger/RFID Attendance Reader (3000 faces, 4000 fingers, 1,00,000 logs TCP IP, USB) Suitable above ) 1)11 to 3000 students. (High END)	1		
3.14	Attendance Report Generation Software ( Including :Installation, Registration, Training charges)	2		
3.15	Single Twister Heavy Duty Frame Model St-1491	1		
3.16	Vinyl Dumbbell : Size 1 kg, Model V-01	4 pair		
3.17	PVC Yoga Mat : Soize 173x 61 cm	10 nos.		
3.18	Aerobic Stepper: Stepping Surface 90x32 cm	4		
3.19	Sit-up Bench: B-002 Kamachi Multipurpose Fitness Bench	1		
3.20	Ab-king pro platinum: lifeline /irs/Aerofit steel metal body	1		
3.21	Mini Pedal Exerciser: Materials: Metal, plastic Low-impact cardia workout Dimensions: 22" x 16" x 13" Materials: Metal, plastic Assembly - Assembled Cycle Resistance - Adjustable Air Portability - Portable Size/Dimensions : 22X16X13 Material: Metal & Plastic Weight(gm) : 1 .98	2		
3.22	Weighing Machine : 1. Mechanical personal scale VIRGO 9815 2. Capacity 120kg, Div: 500gm 3. Heavy duty metal body should be used on hard and levelled surface.	1		
3.23	CAMERA Specification: Projector Handy cam HDR-P J660,96 GB Memory. Built-m projector with external input, 1920x1080 Full High Definition, 20x extended zoom, 20.4 MP Still Image Recording, Filter Diameter 46nm, G Lens, 3.0 (7,5cms) Wide LCD. Face Detection, Battery: NP-FV50. Light Flash: HVL-10NH, MIC:ECM-HW2. TRIPOD:VCT-VPRI, CABLE: VMC- 15MR2, Screen Protector; PCK-L30WD, Charger BC-TRV	1		
4	<b>Knowledge Resource Centre</b>			
4.1	Pull Down Interactive Projecting Screen: Pull down Interactive motorized projection screen with remote glass bladed including all materials with fixtures and labour charges include. Size 7 ft.x 6 ft.	1		
4.2	Pull Down Interactive Projecting Screen: Pull down Interactive motorized projection screen with remote, glass bladed , back side including all materials with fixtures and labour charges include. Size 12’x9’ (wall size: 40’x12’ approx.)	1		
4.3	Background furniture for pull down Interactive projection screen: Back side window closed, wall along with wooden polished frame including all materials with fixtures and labour charges include. Wall size: 20’x12’ ( Exclude Projection screen size 7’x 6’)	1		
4.4	Background furniture for pull down Interactive projection screen: Back side window closed, wall closed etc: along with wooden polished frame and 5 nos. wall mount cupboard including all materials with fixtures and labour charges include. Wall size 40’x12’ approx.	1		
4.5	Electronic Podium with Inbuilt Speakers, amplifier, cordless	1		

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1	2	3	4	5
	microphone, podium MIC, USB Port WSL2500R			
5	<b>Central Instrumentation Cell</b>			
5.1	Microwave Oven : 20L -30LCapacity: Convection along with grilling, reheating, defrosting Control: Touch Key Pad (Membrane) is sensitive to touch and easy to clean Stainless Steel Cavity, LED display Weight defrost system Sensor malfunction protection, overheating protection Power: Microwave - 1400 watts, Convection -1850 watts and Grill- 950 watts	1		
5.2	Programmable Chilling/Heating Dry Bath (0 <sup>0</sup> C-100 <sup>0</sup> ) with Battery: modular design of blocks, mix and match tubes from 0.2mL to 50mL and accommodates 96 well plates, flat bottom plates and slides. small footprint, can work in a hood, or lab automation systems. 12V 5A DC input, energy efficient, a car charger & rechargeable battery pack fast chilling/heating rate, precise temperature control clean and maintenance free. Accessories 0.2ml 24-Well Block-2 1.5ml 6-Well Block-2 2.0ml 6-Well Block-2 50ml 3-Well Block-1	1		
5.3	Steam Sterilizer (Autoclave) • LCD display Chamber Volume 16 Liters Chamber Size <D230 x 360 mm • A built-in independent steam generator, making the sterilization cycle faster • Sterilization temperature: 121QC / 1.1 bar oR 134QC /2.1 bar • open-type water storage tank for easy filling and cleaning • Safer water draining facility • Door Protection Locking Sterilization Temperature 121°C / 134°C Capacity of Distilled Water Tank Approx 2.5 L (Max Water Level) Display LCD Display Noise <70 dB Functioning Temperature 5-40°C Relative Humidity Max 80 %, non condensing Atmospheric Pressure 76 kPa- 106 kPa Voltage AC 220 V - 240 V; 50-60 Hz Power 1600 VA Outer Dimensions 445 x 400 x 590 mm	1		
5.4	PVR Tube Centrifuge: Mini centrifuge with 1.5ml/2.0ml/0.2ml/PCR strip tube rotor 6000-10000rpm	1		
5.5	Motorized tissue grinder : Made for Pestle used in DNA extraction Motor-Driven Tissue Grinder (Adjustable Speed) Li-Battery Battery Charger Tissue Grinder Pestle (SO/pk) And Hand Held Homogenizer, 130W Dispersing Shaft Smm, for volume from 0.1-S0ml	1		
5.6	pH meter: Hand held pH meter portable, battery run 3 validation points acidic, neutral, basic	1		
6	<b>Deptt. of Biotechnology</b>			
6.1	Digital Balance Analytical (Direct loading) balance0.0001g to 220g Taring Range : Up to full capacity Response time : 3-5 seconds, Power Req : 90-250V, 50/60Hz, 10 Watt Operating Temperature : 10 to 45 deg C	2		
6.2	Laboratory vertical autoclave: Capacity: 40 lit Dimension: 500X300 mm (Electrically operated, double walled, inner & outer body made of Stainless Steel. S.S. Lid, having radial locking system. Working pressure 5 psi. to 15 psi safety valve; Complete with water level indicator, water inlet & outlet system with vacuum breaker control box fitted with automatic pressure control switch, pressure gauge, steam release valve; pilot lamp, on / off switch for operation on 220 volts A/C main. Complete with Stainless Steel Basket.)	3		
6.3	Minimate TFF System (200 – 240 V AC) with Minimate TFF capsules 650 Da, 50 kDa, 100 kDa, 300 kDa	01		
6.4	Muffle Furnace: Provided with 304 grade stainless steel outer body with digital temperature controller cum indicator. With muffle size of 150x150x300 mm.	01		

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1	2	3	4	5
6.5	UV/Vis microplate and cuvette spectrophotometer: Mullikan GO with Cuvette, 100 - 240 V, 50/60 Hz With PC with Software and Printer.	01		
6.6	Lab pH meter : pH Range 0-14pH -2 pH Resolution 0.01pH 0.001pH, Temperature compensation Automatic or Manual Temperature range 0~100 C mV Range +1999 mV Resolution 1mV 0.1mV mV Accuracy +1mV Electrode pH combination electrode with built in temperature sensor - Plastic-EpHP02	2		
6.7	Steam Sterilizer: 16 L cap. Microprocessor controlled three mode program, LCD display, built in steam generator, door locking system, AC 230-240 V operations with built in vacuum for dry sterilization	3		
6.8	Hand held UV Light: 254-302 nm portable	1		
6.9	Rocker : Gel Rocker Attractive design, Compact in size, Controlled by DC Motor, Speed 0-100 Oscillations/minute, Timer 0-99 minutes, Approx. Weight 2.5 kg, Power consumption 200 watt, Application may include- Blotting, Gel staining and Culture Aeration	1		
6.10	Microscope : Specification Observation tube inclined at 450 and rotatable in 3600with perfectly centred quadruple revolving nose piece. Optical Combination: Antifungal objectives: 4/5x, 10x, 40/45x(SL), 100x (Oil Immersion) Eye piece: 10x(wide field), 5x (Huygenian) Double lens bright field ABBE Condenser (N.A. 1.25) with iris diaphragm and swing out filter holder movable by rack & pinion. Monocular Inclined Research Microscope illumination built-in mechanism inside base provided with high INTENSITY control for light observation according to your choice, fitted with IMPORTED Holder 6V-20W Halogen lamp. Focussing by separate knobs, fine focussing by graduated drum type knob.	5		
6.11	Orbital Shaking Incubator: Orbital Shaking Incubator Chamber Volume 180 Ltrs. Max. Shaking Capacity 9 Ltr. Approx External Dia 70 x 78 x 125 DxDxH Temp. Range (Accuracy) 5°c to 60°c (± 0.5 °c) With Clamps : for 100 ml, 250 ml, 500 ml Flask	1		
6.12	Smart TV with Web OS : 3.0, Intel Wi-Fi technology to connect Laptop PC, IPS PANEL, VIDEO calling, expandable memory, mobile connectivity and cast screen Wi-Fi, watch & record – LED, FLAT SCREEN, FULL HD, SCREEN 49:123 CM, WIFI DIRECT, DLNA, Network File Browsing, External HDD recording support,	2		
7	<b>Deptt. of Botany</b>			
7.1	Benchtop bioreactor/Fermenter: Temp, RPM, mas flow controllers, ph. Redox fully digital, up to 5 mass flow controllers, remote controlled. P C attached 4 peristatic pumps, Brushless motors 1 to 2000 RPM, Volume-2 litres, station HxWxD mm 350x350x350	1		
7.2	Liquid Nitrogen Container: Cap 2 lit.	1		
8	<b>Deptt. of Chemical Technology</b>			
	Pulp & Paper Technology			
8.1	Nitrogen Cylinder: 7.0 m <sup>3</sup> Cylinder, Industrial Grade, Outright Purchase	1		
8.2	Oxygen Cylinder: 7.0 m <sup>3</sup> Cylinder, Outright Purchase	1		
8.3	Accessories	2		

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1	2	3	4	5
	(For Both Nitrogen and Oxygen cylinder): Gas Regulator(Double Stage /Double Gauge)			
8.4	Rubber Hose pipe of 8.0mm(i.d.) having 5.0 meters length each	2		
8.5	Cylinder Key, Hose Clip	2		
8.6	Cylinder Trolley with Tool Box	2		
8.7	Flow meter showing flow in ml/min	2		
8.8	Gas flow meter: Min. flow rate: 1Lit/Hr, Max. flow rate: 270Lit/Hr, Capacity/Revolution: 1Lit, Graduation: 0.01Lit,	1		
8.9	Thermometers: As per IP-5C Low range (-2 to 300°C)	3		
8.10	Thermometers: As per IP-5C Low range (-2 to 400°C)	3		
8.11	Kinematic Viscometer Bath : (as per IP71) chamber size 12" X 12" X 12" deep to accommodate 6 Viscometers, Digital temperature controller cum indicator. Temperature range 5°C above room temperature to 100°C. Accuracy plus minus 0.1°C. Stirring by a FHP electric motor stirrer. Heating by means of tubular type heater fitted on top of the bath, with viscometer tube holders and stainless steel cover.  <b>Optional accessories:</b> different 'U' Tubes with constant test certificates to measure viscosity of petroleum products having viscosity in the range of 2-3 cst, 3-7.5cst, 90-120cst at 40°C (i.e. suitable to determine the viscosity of kerosene, diesel, lube oil etc.)	1		
8.12	Redwood viscometer-I: Copper/Stainless steel bath with drain plug, electrical heating arrangement, Suitable to operate at 220 Volts 50 Hz AC mains. Arrangement with silver plated oil cup with precision stainless steel jet, ball valve, cover, thermometer clip, stirrer and suitable stand with levelling screws, sample level indicator gauge. Electric Heated Model with Digital temperature controller cum indicator.	1		
8.13	Redwood viscometer- II: copper/Stainless steel bath with drain plug, electrical heating arrangement, Suitable to operate at 220 Volts 50 Hz AC. Arrangement with refuser silver plated oil cup with precision stainless steel jet, ball valve, cover, thermometer clip, stirrer and suitable stand with levelling screws, sample level indicator gauge. Electric Heated Model with Digital temperature controller cum indicator.	1		
9	<b>Chemistry lab</b>			
9.1	<b>FT-IR spectrometer</b> : FT-IR spectrometer universal sampling module. It enables, quick, easy and reliable FT-IR analysis. The ALPHA is extremely small footprints enables it to be used in almost any laboratory environment saving valuable space. The ALPHA allow the analysis of almost any kind of sample (e.g. solids, liquids or gases) each with perfectly matched instrument configuration. The Quick Snap TM sampling modules for the ALPHA offer full sampling flexibility. They can be exchanged easily without the use of any tools and all sampling modules are automatically recognized by the Alpha , FT-IR spectrometer. Optical items : 1. PC or laptop required, for analysis ALPHA liquid, solid and gas cells (Liquid cell with CaF2, NaCl, KBr and ZnSe windows demountable) 2) O/Mento R+ OPUS/Mentor software OPUS/Mentor software package OPUS/Mentor provides the Quick Compare evaluation	1		



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1	2	3	4	5
	<p>functions as appropriate verification tool. The set-up of A Quick Compare method is effortless and the evaluation result is clear and safe. – No. 1</p> <p>3) High resolution option High resolution upgrade. Optional resolution better than 0.8 cm – 1. No. 1 included.</p> <p>4) Warranty Extension to 10 years for interferometers covers parts and labor in case of interferometer defect. The warranty starts with delivery of the spectrometer. No. 1</p> <p>5) Warranty Extension to 10 years for laser covers parts and in labor case of laser defect. The warranty starts with the delivery of spectrometer. No. 1</p> <p>6) Warranty Extension to 5 years to MIR source covers material casts in case of source defect. The warranty starts with delivery of the spectrometer.</p> <p>7) Zn-Se Optics(in lieu of KBr optics useful for operation in high humidity area) Extension of the alpha base spectrometer for operation in regions with high humidity Use of Zn Se for all IR-light trans missive optical components including the beam splitter. Usable spectra range tp 6000- 500 cm-1.</p> <p>8) Platinum ATR sampling module, diamond, 1 bounce Quick Snap™ The Platinum-ATR sampling module, with robust diamond crystal, enables fast and reliable FT-IR analysis of solids and liquids without sample preparation. The ergonomic one-finger clamp mechanism permits a comfortable and fast analysis of solids. Quick Snap™ sampling modules offer complete sampling flexibility. All modules are easily and reproducibly exchanged without the use of tools. Specifications: -Diamond crystal, single reflection, edged in tungsten carbide, -work disk: stainless steel -spectral range: 375-7,500cm-1 -ergonomic one finger clamp mechanism -pressure control -working distance (Max. sample height) 20 mm -perfect for analysis of large samples: Appr. 350° free working area around crystal -easy cleaning due to 360° rotation of pressure applicator -exchangeable ATR crystal plate (Diamond, Ge) with automatic recognition of crystal type and load suitable measurement parameters -Easy exchange of ALPHA Quick Snap™ sampling modules with automatic recognition, performance test and automatic load of measurement parameters. Required: base spectrometer (A250/D) or FT-IR microscope LUMOS with macro unit (A773LM)</p>			
10	<b>Food Technology</b>			
10.1	<p><b>LABORATORY OVEN</b> (<i>Natural Convection</i>): 250°C TI-125B Construction Double walled construction. Insulation 3” High grade glass wool insulation. Heating System Heating elements made from the best quality Kanthal DSD wire are used on refractory supports. Safety cum stand by thermostat to cut off the Heater supply in case of overshoot of Temperature. Door Single door with asbestos gasket, fitted on heavy cast and chromium plated brass hinges with spring and roller type latch. Trays Adjustable Stainless steel Rod trays. Supply 230V AC, Single Phase, 50Hz Standard Model Inside S.S. 304 mirror finish &amp; Outer Mild steel (CRCA) sheet with powder coated.</p>	1		

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1	2	3	4	5
	Temperature Range 5°C above ambient to 250°C Temperature Accuracy $\pm 0.5^{\circ}\text{C}$ Control System Imported microprocessor based auto tuned PID controller with CE mark & dual display of set value & process value for precise control of temperature.  Size : 45 x 45 x 45 cm Capacity: 91 Ltr.			
10.2	Moisture Analyser: Max capacity : 50 gm Reading unit : 1 mg Tare range : -50 g Max sample weight : 50 g Moisture readout accuracy : 0,001 % Moisture content repeatability : 0,05% (sample weight of 2 g), 0,01% (sample weight of 10 g) Max sample height : h=20mm Weighing pan size: Ø 90 mm, h= 8 mm Drying temperature range : max. 160° C Heating module : IR emitter  Drying mode: 4 drying modes (standard, quick, step, mild) Auto switch-off options: 4 options (time-defined, automatic, manual, user-defined) Additional Functions : Sample identification Power supply: 230V LCD display: LCD (backlit)	2		
10.3	Analytical Balance: Max capacity [Max] : 220 g <ul style="list-style-type: none"> <li>• Minimum load : 10 mg</li> <li>• Readability [d] : 0,1 mg</li> <li>• Tare range : -220 g</li> <li>• Repeatability 0,1 mg</li> <li>• Linearity : <math>\pm 0,2</math> mg</li> <li>• Stabilization time : 3,5 s</li> <li>• Pan Size : ø 85 mm</li> <li>• Sensitivity drift : 1 ppm/°C in temperature <math>+10^{\circ} \sim +40^{\circ}\text{C}</math></li> <li>• Working temperature : <math>+10^{\circ} - +40^{\circ}\text{C}</math></li> <li>• Power supply : 12 ~ 16 V DC</li> <li>• Calibration: Motorized Internal (Time &amp; temp)</li> <li>• Display : LCD (backlit)</li> <li>• Interface: 2×RS 232, USB-A, USB-B,</li> </ul>	1		
10.4	Digital Balance: Backlit LCD Display <ul style="list-style-type: none"> <li>• In-Built Rechargeable Battery</li> <li>• Rugged ABS Plastic housing</li> <li>• Standard RS232 interface</li> </ul> Capacity : 3 KG Accuracy : 0.1 gm Pan Size : 290 x 240 mm	1		
10.5	Heating Mantles: Made of Knitted Glass Yarn, heaters are fitted beneath it, which provides uniform heating of flasks upto 400°C. The mantles are fitted in a nicely painted sheet metal case, filled with Glass Wool insulations, provided with an energy regulator, indicator and a cord. Capacity : 500 ml Capacity : 1000 ml	4		
10.6	Solar PV Pump: 900 watt PV array cap	1		
10.6	Oil Extraction Machine: Power 18000, Rated 220W Power, Dimension 415x183x280, Weight-5-8 Kg, St.IS 302-1, IS 76/1975	1		
11	<b>Deptt. of Chemistry</b>			
11.1	Fluorescence Luminescence Spectrophotometer	1		

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1	2	3	4	5
	<p>(LS -55):</p> <p>Versatile, computer controlled Luminescence spectrometer; incorporates a 8.3-watt, pulsed xenon source for fluorescence and phosphorescence decay time measurements.</p> <p>Excitation 200–800 nm and emission 200–900 with zero order selectable. Standard PMT covers 200–650 nm; R928 or R955 PMT available for full range. Synchronous scanning with constant wavelength or frequency difference included. Excitation spectra are automatically corrected.</p> <p>Variable excitation 2.5–15 nm and emission 2.5- to 20 nm slits in 0.1 nm increments. Scan speeds can be selected in 1-nm increments from 10-1500 nm/minute</p> <p>Incorporates a software-controlled filter wheel in the emission monochromator with 290, 350, 390, 430 and 515-nm cut-off filters, 1% T attenuator and clear beam</p> <p><b>Includes automated polarization accessory that consists of 2 filter wheels; each wheel containing a horizontal and vertical polarizing element. Polarizer positions are software controlled and can be manually set or automatically controlled for polarization, anisotropy or G-factor.</b></p> <p>FL Win Lab Software Package, Windows based software controls the instrument, sampling accessories and data collection. Red-sensitive Photomultiplier – For measurements up to 900 nm. Front Surface Accessory - For flat samples, powders and turbid samples. Includes two Powder Sample Holders (52123164). Adjustable for optimizing sensitivity. Rectangular Cell, 10MM, LID, Quartz PK/2 Branded Computer for instrument operation /Online 1 KVA UPS</p>			
11.2	pH Meter: Hand held, Portable, Double junction, waterproof, for pH/ Temp test	2		
11.3	Hot Plate with Stirrer: with temperature controller, with ceramic plate	5		
11.4	Oil Bath : 500 ml capacity	2		
11.5	Scanning Visible Spectrophotometer: Digital Display, auto scan	2		
11.6	Electronics Balance : Capacity – 220 gm/ Accuracy -0.00001	2`		
11.7	Density Meter : Digital, Accuracy 0.00001 g/cm <sup>3</sup>	1		
11.8	Polari meter: Digital with electronics sensor with 10 & 20 cm unbreakable tube.	1		
11.9	Hand Refractometer: Digital, Handy system, Microprocessor controlled with LCD display.	1		
<b>12</b>	<b>Deptt. of Computer Science</b>			
12.1	Sound System Speakers (8) amplifier, multimedia facility, Mics (wired, wireless, color)	1		
12.2	IP cameras/speakers	10		
<b>13</b>	<b>Deptt. of Education</b>			
13.1	Air Blower :Power Source Corded, Power Requirement 220v, 50hz, power consumption 500w amperage 2A, weight 0.5kg cord length 1m	2		
<b>14</b>	<b>Deptt. Of Geology</b>			
14.1	10X Objective for Nikon Polarizing Microscope	1		
14.2	20X Objective for Nikon Polarizing Microscope	1		
14.3	40X Objective for Nikon Polarizing Microscope	1		
<b>15</b>	<b>Deptt. of Home Science</b>			

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
15.1	Compact Handy Memory Card: PXW-2110 4K camcorder (Rode Make)	1		
15.2	Adapter: Videomic-Mini-Jack Rode Vxir	1		
15.3	Smart lav plus lavalier Microphone : Rode for iPhone and smartphone	1		
15.4	Digital Video Switcher: Data Voids Brand Model No. SE 650 HD 4 channel	1		
15.5	Swivel Mount Bracket: Logic Brand Make: Model No. LE-55 for wall mount LED TV size 42", 55", 65"	2		
15.6	Cable : 4 K support HDMI 2.0V, 2Qty, 2-3Qty, 5-1 Qty, 10-1 Qty, Brand: Brand Bridge, Eagle, Inkstick, Aero Digital	1		
15.7	Video Cable: High Definition Coaxial 75 Ohm Brand: Percon or other imported brand Unit in meter	100		
145.8	Connection-750: HDTV/SDI BNC	1		
15.9	Battery Pack: Panasonic Brand: AG VBR118G (11.800m, AH) or AG-VBR89G (8.850mAH) or AG-VBR 59 (5.900 mAH)	1		
15.10	Battery Charger : Panasonic Brand AG-BRD50	1		
15.11	Memory Card : SD/SDHC/SDXC/ 04 GB and/or 128GB/256GB or higher capacity Make: SanDisk or any other	6		
15.12	LP-E6 Battery: Order Code-BATT-LPE6M/CAM-2000 mAH LP-E6 compatible with Back magic Video Assist and Black magic Micro Camera	2		
15.13	Power Supply: Order Code: P SUPPLY 12v20w25b Universal 110V Power supply with international socket adapter for supply AC Power to video Assist while simultaneously recharging the dual LPE6 batteries.	1		
15.14	Video Assist Mini SLR Cables: Order code-HYPERD/AXLRMINI2 Adapter cable for connecting to professional audio equipment which use full size SLR connectors	1		
15.15	Motorized Projector Screen: Tono Brand Make Screen with RF Remote 150" diagonal 16.9 gain 1.1 screen size 131"x73" color white, tubular motor 141"x3.5" black drop 1.5 fit fabric cinematic white	1		
16	<b>Deptt. of Microbiology</b>			
16.4	Microscope : Modle-HB, Make-Magnum, Olympus, Debro	10		
16.2	Autoclave portable : Size-30x30, SS, make-equiptronics/Medica	3		
16.3	Weighing Balance: Make-Contect, Model-CT-300, capacity-300g, Accuracy-0.01g	3		
16.4	Single Distillation Unit : Make-'Bhanu' Model-SDQ	1		
16.5	Water bath shaker: Make-Remi, & RSB Tray with 100mlx12 Flask capacity	2		
16.6	Micro Ultra Centrifuge : Make-Remi, Model-R8c, with R-81, (16x15ml) swing head with glass tube	2		
16.7	VITEX 2-Compact : VITEX 2-Compact 30/60 card capacity, 75kg(165lbs) 100/120 VAC (50-60 Hz) 220/240 VAC (50-60Hz), 1025 BTU/Hr temperature Range: 59°-86°, Humidity: 20-80%	1		
17	<b>Deptt. of Physical Education</b>			
17.1	SLIM PEDOMETER : Dimensions: 58 X 21 Weight: 11.5 Sensing Technology: Online Cloud Platform with 3D Accelerometer Display: LED Memory ~ record: 1 <sup>0</sup> Days <u>Battery: LI-Po</u>	2		
17.2	EDGE lactate Analyser : Test Range: 6-200 mg/dL (0.7-22.2 mmol/l.) Warranty: 5 Years Reading Time: 45 sec Memory Capacity: 300 Results with date and time 1 Haemacrit Range: 35~50% Sample Volume: 3JIL Coefficient of Variation: < 5% in measuring range Operation	1		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	Temperature: 10~40 deg C PC Interface: USB via RS232 Interface Power Supply : 3 V Lithium Coin Cell x 1 Size: 100x55x20mm Weight 64 gm with battery			
17.3	Microlab Spirometer: SpO2 range/accuracy: 0% to 100% $\pm 2$ digits - ..... , Heart range/accuracy: 18-300 BPM $\pm 1$ digit Test recording time: 20 sec - 60 min Data recording: SpO2: Jx o",SpO2 per ~:1'( IH'M~. ~x 1m P1'T: ,1'''	1		
17.4	Multi-Function Sports Timer : Item Size: 23/8” x2”x1/2” Colours Available: Smoke Case/Shipping Weight: 25lbs Case Dimensions: II If x: 24 " x 16 " Individual Unit weight 5 ozs	5		
17.5	Ar Rate Monitor Kit: Details: Water resistant up to 30 meters ECG accuracy Up to 2,500 hours of usage Non-user replicable battery Adjustable medium size elastic chest strap included (25-54- inches) Machine washable and anti-bacterial 3 pin.1" pitch header (servo compatible) 80 em reception range Dimensions: .75 in x I in (19 em x:25.4 em) 15 ms TTL level high (Vdd) pulse on received heart beat 3v - 5.5v supply voltage range 200 uA current consumption @ 5v Operating temp range: 40 to 122°P ( 5 to 50°C)	2		
17.6	Vero V 1.3: Technical Specifications Resolution: 1.3MP 1280 * 1024 Frame Rate (Full Frame) FPS: 250 Pixel Shutter Type: Global Lens: Vicon 6-12 mm varifocal Effective FOV (H x V) deg: W: 60.8 x 50.3 T: 32.7 x 26.4trobe: 850nm'IR' Power Consumption:12W Connectivity: RJ45/Cat5e Weight: 575g Camera external dimensions H x W x D: 83 x 80 x 135 mm	1		
18	Deptt. of Physics			
18.1	Microwave Reactor : Power: 1500Watt.	1		
18.2	Vacuum Rotary Evaporator : Capacity: 1000ml	1		
18.3	Heating Mantle: Capacity:5000ml	2		
18.4	Thermal and electrical conductivity of metals : Thermal conductivity of copper and aluminium, heat capacity of calorimeter, electrical conductivity of aluminium and copper, verification of Weidman-Franz law, Lorenz number	1		
18.5	Specific heat of solids setup: Sp. Heat capacity of copper, lead glass materials	1		
18.6	Operational Amplifier : Op-amp as inverting/noninverting amplifier, adder/sus tractor, integrator/differentiator, comparator	2		
18.7	Electron spin resonance and nuclear magnetic resonance setup : Line width, electron spin, magnetic moment of electron, proton spin, magnetic moment of a proton and nucleus, nuclear spin tomography	1		
18.8	Superconductivity experiment kit : Transition temperature of high temperature superconductor, Meissner-Ochsenfeld effect	1		
18.9	Digital Source Meter : High Resolution Capacitive Touch Screen Graphical User Interface, V-Ranges: 200 mV – 200	1		

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1	2	3	4	5
	V, I-Ranges: 1 $\mu$ A – 1 or I-Ranges: 10 nA – 1 A, 0.012% Basic Accuracy, Wideband Noise: 4 or 2 mVrms Typ., Sweep Types: Linear, Log, Custom, Programming GPIB GPIB, USB, Ethernet (LXI)			
18.10	Potentiostat- Galvanostat : Voltage polarisation range $\pm$ 2 V with factory option to $\pm$ 8 V Current polarisation range $\pm$ 20 mA Maximum compliance $\pm$ 8 V Rise time 1 V/ $\mu$ sec into 1 k $\Omega$ Connections Differential Electrometer Maximum voltage measurement $\pm$ 2 V with factory option to $\pm$ 8 V Maximum resolution 61 $\mu$ V Maximum current $\pm$ 20 mA Ranges 1 nA/V to 10 mA/V in 8-decade ranges Maximum resolution 61 fA Compliance voltage $\pm$ 8 V	1		
18.11	Portable Optical Tweezers Demonstration Kit: Designed for Educational, Demonstration, and Classroom Use Complete Kit should Include All Hardware and Tools Includes Extensive Manual for Easy Assembly and Use Choose from Kits Containing Imperial or Metric Components	1		
18.12	High Voltage power supply (AC/DC): Upto 5 kV (Variable) For AC (with variable frequency )	1		
18.13	GEIGER COUNTING SYSTEM - [ TYPE : GC 601A ]	1		
18.14	GM counter tube : WIDE END WINDOW G.M. DETECTOR - [ TYPE : GM 125 ] (in PVC tube with MHV socket)	2		
18.15	B-particle emitting radioactive samples	8		
18.16	FT Raman Spectrometer : Standard Wave number Measurement Range 7,800 to 350 cm <sup>-1</sup> , Jasco RFT-6000	1		
18.19	P.A. System with Speaker, Mike, Collar Mike,,: Standard Company, Latest Version	1		
18.20	Simultaneous Thermal Analysers : Sensor: Pure platinum pan holder and reference ring Furnace design: Vertical Balance design: Top loading, single beam Balance resolution: 0.2 $\mu$ g Balance measurement range: up to 1500 mg Temperature range : 15 degree Centigrade to 1000 degree centigrade Heating rate: Ambient to 1000 degree centigrade 0.1 to 100 degree centigrade/min Cooling rates : From 1000 degree centigrade to 30 degree centigrade under 10 minutes	1		
19	<b>Deptt. of Zoology</b>			
19.1	Centrifuge (Research): , Max. Speed – 17300 rpm, Tube size- 100 ml, capacity 400 ml, microprocessor control with interactive LCD display	1		
19.2	Gel Documentation System: Wide front door: slide-in/out tray for easy handling of gel: high intensity UV source, cool white LED for high performance with digital camera 16.1 megapixel CMOS resolution, zoom, work station, sliding tray, trans illumination (UV), ID Gel Documentation and image analysis software advance.	1		
19.3	Photoelectric Calorimeter: Advanced digital calorimeter with 8 filters	1		
20	<b>Deptt. of English</b>			
20.1	Coffee Vending Machine: Coffee Tea Vending machine for home and office taste like natural. Delight your taste and feel rejuvenated. Warranty-1 yr on produce operating voltage-230 volts includes one vending machine instruction manual and customer care info.	1		
20.2	<b>Pedestal Fan:</b> Pedestal Fan with high air delivery. Aerodynamically designed semi transparent PP blades. Unique oil reservoir lubrication for better reliability and longer life Jerk-free and uniform oscillation Colour-	2		

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1	2	3	4	5
	White. Warranty-2 yrs on product. Oiw-55 watts. Operating Voltage 230 volts.			
20.3	<b>Video Handy Camera :</b> with latest technology and latest version with optical zoom	1		
<b>21</b>	<b>Deptt. of Statistics</b>			
21.1	<b>Vacuum Cleaner:</b> Powerful 1000W Motor to provide Ultra Powerful Suction	1		
22	<b>Deptt. of Applied Electronics</b>			
22.1	IP Camera CCTTV			
22.2	16 CH NVR	1		
22.3	16 CH POE Switch	1		
22.4	4 TB HDD	1		
22.5	IR Bullet IB 2MP	9		
22.6	Cable in pipe (Approx.)	600		
22.7	Camera installation			
<b>23</b>	<b>Girls' Hostel</b>			
23.1	<b>LCD TV:</b> 49" Full HD Resolution. Wall mountable, Smart Phone Connectivity. USB Port latest Model	1		
23.2	Refrigerating: Forts Free Double door 394 Ltrs. Latest Model	1		
23.3	Water Cooler: Water Cooler Cap. 400 liter latest Model	1		
23.4	Water Purifier : Latest Model	1		
23.5	Napkin Vending Machine Vendi-100	1		
23.6	Napkin Burning Incinerator	1		
23.7	Motorised Treadmill: Arofit model (AF-881) or Similar Commercial and Hevy Duty. Latest M/C at the time of purchase	1		
23.8	Belt Vibrator : Arofit Vibrator AF 302 D	2		
123.9	Spin Bike : Arofit model or Similar Commercial and Hevy Duty. Latest M/C at the time of purchase	1		
23.10	Biometric Attendance System with Backup power Supply :Face/Finger/Rfid Attendance Reader (500 faces, 2000 fingers,1,00,000 logs TCP IP, USB) Suitable up to 100 students)	1		
23.11	Biometric Attendance System with Backup 24.12: power Supply Face/Finger/Rfid Attendance Reader (3000 faces, 4000 fingers, 1,00,000 logs TCP IP, USB) Suitable above ) 1)11 to 3000 students. (High END)	1		
23.12	Attendance Report Generation Software ( Including :Installation, Registration, Training charges)	2		
23.13	Single Twister Heavy Duty Frame Model St-1491	1		
23.14	Vinyl Dumbbell : Size 1 kg, Model V-01	4 pair		
23.15	PVC Yoga Mat : Soize 173x 61 cm	10 nos.		
23.16	Aerobic Stepper: Stepping Surface 90x32 cm	4		
23.17	Sit-up Bench: B-002 Kamachi Multipurpose Fitness Bench	1		

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1	2	3	4	5
23.18	Ab-king pro platinum: lifeline /irs/Aerofit steel metal body	1		
23.19	Mini Pedal Exerciser: Materials: Metal, plastic Low-impact cardia workout Dimensions: 22" x 16" x 13" Materials: Metal, plastic Assembly - Assembled Cycle Resistance - Adjustable Air Portability - Portable Size/Dimensions : 22X16X13 Material: Metal & Plastic Weight(gm) : 1 .98	2		
23.20	Weighing Machine : 1. Mechanical personal scale VIRGO 9815 2. Capacity 120kg, Div: 500gm 3. Heavy duty metal body should be used on hard and levelled surface.	1		
24	<b>Legal Cell</b>			
24.1	<b>Xerox Machine:</b> Device : Image runner 2530W, Type :Desktop, Imaging System :Laser Dry Electrostatic Transfer system, Memory : Standard 256 MB Max.: 512 MB, Multiple Copies : 1-999 copies, Magnifications : 25% to 400% (1 % increment), Copy Size: Maximum A-3, Duplex : Standard built in, Copy/Print Speed : A-4 30 ppm, A-3 15 ppm , Resolutions :Reading 600x600 dpi, Writing 1200x1200 dpi, Paper Source (80 gsm) :Standard 250+550 sheets paper tray, Stack Bypass- 100 sheets, Acceptable Paper weight : Paper Cassette 64-90 GSM, Stack Bypass: 64 to 128 gsm Weight: Approx. 67.7 kg , Power Source : 220-240 V AC 50/60 Hz, Power Consumption: Appr0x. 1542 KW, Toner Yield 96% Coverage) : Approx. 14600 shees (A4), Drum Yield : Appr0x 132000 sheets (A4), Print Specification PDL : Standard UFR II L T Optional; PCL 5e/6,PS3 Os Compatibility : PCL/Adobe Postscript 3/UFR II <b>Network Scan gear' Specifications</b> Supported os : Windows 8.1/8/7 !Vista/Windows server 2003- R2/Server 200S/Server 2012 R2 Resolution : BW: Up to 600X600 DPI, CI: Up to 300x300 dpi	1		
25	<b>PHYSIUCAL EDUCATION:</b>			
25.1	Xerox Machine,; Speed: 20 cpm, Item colour: white, Copy network print Wi-fi, colour Scan Push/Pull 99- Copies, Duplex (Optional Dadf (Optional, Touch Screen , Power 1550W			
26	<b>Administrative Section</b>			
26.1	Conferencing hub and microphone : Includes Devio CR-1 hub and one DTM-1 table top microphone (Make-Biamp, Model Devio CR-1T) With five year warrantee	1		
26.2	PTZ Camera fir HDVS-300 Soft codec conferencing system With five year warrantee	1		
26.3	Installation Changes including LAN Cable+HDMI Cable+VGA Cable +Wall mount Kit +video conferencing			
26.4	Samsung DB32E-VGA, DVI,HDMI,USB, LAN, 8 GB Internal Memory, Magic Infolite Software, Speakers, SD card Slot, Wifi for Mirroring With five year warrantee	1		
26.5	Samsung DB55E-VGA, DVI,HDMI,USB, LAN, 8 GB Internal Memory, Magic Infolite Software, Speakers, SD card Slot, Wifi for Mirroring With five year warrantee	2		
26.6	Samsung QB65H-DVI, 2xHDMI, 1x Display Ports, RJ45, LAN, 2x USB Port, Tizen 3.0 Operating System, 8 GB Internal Storage, Speakers (10W +10W), Wifi for	2		



Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	Mirroring With five year warrantee			
27	<b>Computer Science / Girls hostel</b>			
27.1	Sanitary Napkin Automatic Vending Machine : High efficiency portable compact machine, Suitable for vending any type of Sanitary Napkin. Multiple coin operated with Digital Display Dimension in mm 180 Dx280 Wx820 H Automatic Battery Backup: 20 Min 912V/7AA) Acceptability: Multi coin (Programmable) High speed Rotating Mechanism Storage Cap. 50 Napkins.	2		
27.2	Sanitary Napkin Burning Incinerator : Portable compact Machine with Auto off function suitable to Sanitary napkin with very low emission, Cap. To destroy 50 napkins per day with digital display Total Height 500 mm Body height 400 mm Body Dimension 225 mm x 225 mm Control Box 105mm x 155mm x 155mm (LxDxH) Ash Collection Tray (100mm x 200mm x30mm) (LxDxH) Burning Cap. For used Pad Day 50 Inbuilt fan operated on 220-240 volt 50 Hz AC Supply	2		
27.3	Napkin Vending Machine : vend-100 Technical specification: House: Mild Steel Powder Coated Product Value: Programmable-Coin Operated Capacity: 100 Napkins Dimension (HxWxD): 1650x750x180 in mm NET Wt.: 50kg, Watts: 10W, Power: 110V /220V Warrantee: 1 year	1		
27.4	Napkin burning Incinerator : Napkin Incinerator suitable for above	1		
28	<b>APPLIED ELECTRONICS</b>			
28.1	Samsung Flip: 55” Digital Flipchart for Business, Draw, Write, Capture, Navigate, Collaborate on interactive LED Display with Super Clear Coating, Temperature Sensor, Pivot display, clack Battery (168hrs) clock keeping), built in Speaker (10Wx2), Wi-Fi module embedded , Software: flip S/W: resolution UHD (3840x2160), (With Stand) Features (Warranty 3 yrs onsite, wall mount installation free, wall mount installation not available for video walls) Make Samsung Flip (WM55H	1		
28.2	Adobe Captivate 2019 or the latest version (for smart e-learning, authoring, e-Content development),	1		
28.3	Adobe Premier Pro CC or the latest version	1		
28.4	Camtasia 2018 by Tech Smith or the latest version	1		
28.5	Panoptic Leading Video Platform for education Developed at Carnegie Mellon University or latest vesion.	1		
29	<b>CONFIDENTIAL SECTION</b>			
29.1	Fire Extinguisher: D.C.P.TYPE 10 kg	4		
29.2	Fire Extinguisher: A.B.C..TYPE 6 kg	41		
29.3	Smoke Detector with battery operated	22		
30	<b>DEPTT. ZOOLOGY</b>			
30.1	Smart LED HD TV : Size 65” with android support 4K UHD	2		
31	<b>Common Purchase</b>			

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
31.1	UPS: 5.5 KVA Online UPS with SMF battery 30 minutes back up, Cap: 45Ah with two years warrantee. Make: Transtech	10		
31.2	UPS: 5.5 KVA Online UPS with SMF battery 30 minutes back up, Cap: 45Ah with two years warrantee Make: Microtek	10		
31.3	UPS: 5.5 KVA Online UPS with SMF battery 30 minutes back up, Cap: 45Ah with two years warrantee, Make: Luminous	10		
31.4	UPS 5 KVA Stabilizer with 30 minutes Back up with batteries Make: Transtech	3		
31.5	UPS 5 KVA Stabilizer with 30 minutes Back up with batteries Make: Luminous	3		
31.6	UPS 5 KVA Stabilizer with 30 minutes Back up with batteries Make: Microtek	3		
32	<b>Air Conditioner:</b>			
32.1	<b>Air conditioner: Cap. : 2 TON INVERTER</b> Model Type: 100% Copper Technology: Inverter Technology Cooling Capacity Watts: 6.2/3.1 (Max./Min), Power Input Watts: 1730/795 (Max./Min), Air Flow Rate: 725 CFM Noise Level (H/M/L) : 47/44/39 dbA ,Fan Motor Speed (IDU):4 Way Swing, Refrigerant: R-410a Gas (Eco Friendly), Net Weight (IDU/ODU) :13.5 / 45 Kg, Super Turbo Mode, Leakage Detector, Multi Section Filter, Leakage Detecto,r I-Cleanser , Anti VOC Filter, I-Check <b>Including: Copper piping + Electrical Cabling up to 10 Rft. With Installation, MAKE : Carrier Midea India P.Ltd.</b>	25		
32.2	<b>Air conditioner: Cap. : 2 TON INVERTER</b> Model Type: 100% Copper Technology: Inverter Technology Cooling Capacity Watts: 6.2/3.1 (Max./Min), Power Input Watts: 1730/795 (Max./Min), Air Flow Rate: 725 CFM Noise Level (H/M/L) : 47/44/39 dbA ,Fan Motor Speed (IDU):4 Way Swing, Refrigerant: R-410a Gas (Eco Friendly), Net Weight (IDU/ODU) :13.5 / 45 Kg, Super Turbo Mode, Leakage Detector, Multi Section Filter, Leakage Detecto,r I-Cleanser , Anti VOC Filter, I-Check <b>Including: Copper piping + Electrical Cabling up to 10 Rft. With Installation, MAKE : Mitsubhishi Heavy Industries Ltd.</b>	25		
32.3	<b>Air conditioner: Cap. : 2 TON INVERTER</b> Model Type: 100% Copper Technology: Inverter Technology Cooling Capacity Watts: 6.2/3.1 (Max./Min), Power Input Watts: 1730/795 (Max./Min), Air Flow Rate: 725 CFM Noise Level (H/M/L) : 47/44/39 dbA ,Fan Motor Speed (IDU):4 Way Swing, Refrigerant: R-410a Gas (Eco Friendly), Net Weight (IDU/ODU) :13.5 / 45 Kg, Super Turbo Mode, Leakage Detector, Multi Section Filter, Leakage Detecto,r I-Cleanser , Anti VOC Filter, I-Check <b>Including: Copper piping + Electrical Cabling up to 10 Rft. With Installation, MAKE : O General</b>	25		
32.4	M.S. Stand for outdoor unit for Air conditioner	25		
32.5	Extra: <b>Copper piping behind 10 Rft.</b>	1 rft		
32.6	Extra: <b>Electrical Cabling behind 10 Rft.</b>	1 rft		
32.7	Installation charges if any	25		
32.8	Voltage Stabilizer (160V-270V) & (200V - 250V) 5.0 KVA for Air Conditioner of 2.0 T, MAKE : Carrier Midea India P.Ltd.	25		
32.9	Voltage Stabilizer (160V-270V) & (200V - 250V) 5.0 KVA for Air Conditioner of 2.0 T, MAKE : O General	25		
32.10	Voltage Stabilizer (160V-270V) & (200V - 250V) 5.0 KVA for Air Conditioner of 2.0 T, MAKE : Mitsubishi Heavy Industries Ltd.	25		
32.11	<b>AIR CONDITIONER: Cap. : 1.5 TON INVERTER</b>	8		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	Model Type: 100% Copper, Technology: Inverter Technology, Cooling Capacity Watts :5.1/2.6 (Max./Min) Power Input Watts:1560/580 (Max./Min), Air Flow Rate:700 CFM, Noise Level (H/M/L) : 48/45/40 dbA, Fan Motor Speed (IDU) : 4 Way Swing, Refrigerant :R-410a Gas (Eco Friendly), Net Weight (IDU/ODU) : 13.5 / 31 Kg, Super Turbo Mode, Leakage Detector, Multi Section Filter, Leakage Detector , I-Cleanser, Anti VOC Filter, I-Check <b>Including: Copper piping + Electrical Cabling up to 10 Rft. With Installation, MAKE : Carrier Midea India P.Ltd.</b>			
32.12	<b>AIR CONDITIONER: Cap. : 1.5 TON INVERTE</b> Model Type: 100% Copper, Technology: Inverter Technology, Cooling Capacity Watts :5.1/2.6 (Max./Min) Power Input Watts:1560/580 (Max./Min), Air Flow Rate:700 CFM, Noise Level (H/M/L) : 48/45/40 dbA, Fan Motor Speed (IDU) : 4 Way Swing, Refrigerant :R-410a Gas (Eco Friendly), Net Weight (IDU/ODU) : 13.5 / 31 Kg, Super Turbo Mode, Leakage Detector, Multi Section Filter, Leakage Detector , I-Cleanser, Anti VOC Filter, I-Check <b>Including: Copper piping + Electrical Cabling up to 10 Rft. With Installation, MAKE : Mitsubhishi Heavy Industries Ltd.</b>	8		
32.13	<b>AIR CONDITIONER: Cap. : 1.5 TON INVERTER</b> Model Type: 100% Copper, Technology: Inverter Technology, Cooling Capacity Watts :5.1/2.6 (Max./Min) Power Input Watts:1560/580 (Max./Min), Air Flow Rate:700 CFM, Noise Level (H/M/L) : 48/45/40 dbA, Fan Motor Speed (IDU) : 4 Way Swing, Refrigerant :R-410a Gas (Eco Friendly), Net Weight (IDU/ODU) : 13.5 / 31 Kg, Super Turbo Mode, Leakage Detector, Multi Section Filter, Leakage Detector , I-Cleanser, Anti VOC Filter, I-Check <b>Including: Copper piping + Electrical Cabling up to 10 Rft. With Installation, MAKE : O General</b>	8		
32.14	M.S. Stand for outdoor unit for Air conditioner	8		
32.15	Extra: <b>Copper piping behind 10 Rft.</b>	1 rft		
32.16	Extra: <b>Electrical Cabling behind 10 Rft.</b>	1 rft		
32.17	Installation charges if any	8		
32.18	Voltage Stabilizer (160V-270V) & (200V - 250V) 4.0 KVA for Air Conditioner of 1.5 T, MAKE : : Mitsubishi Heavy Industries Ltd.	8		
32.19	Voltage Stabilizer (160V-270V) & (200V - 250V) 4.0 KVA for Air Conditioner of 1.5 T, MAKE : Carrier Midea India P.Ltd.	8		
32.20	Voltage Stabilizer (160V-270V) & (200V - 250V) 4.0 KVA for Air Conditioner of 1.5 T, MAKE : O General.	8		
33	<b>Refrigerator</b>			
33.1	Double Door, 470 Liter Cap. Frost free 5 Star, Make: Godrej	1		
33.2	Double Door, 470 Liter Cap. Frost free 5 Star, Samsung	1		
33.3	Double Door, 470 Liter Cap. Frost free 5 Star, LG	1		
33.4	Capacity- 300-330 lts Frost free 5 Star Make: Godrej	2		
33.5	Capacity- 300-330 lts Frost free 5 Star Samsung	2		
33.6	Capacity- 300-330 lts Frost free 5 Star LG	2		
33.7	Double Door, 394 Liter Cap. Frost free 5 Star Make: Godrej	1		
33.8	Double Door, 394 Liter Cap. Frost free 5 Star Samsung	1		
33.9	Double Door, 394 Liter Cap. Frost free 5 Star LG	1		
34	<b>Water Cooler:</b>			
34.1	<b>WATER COOLER : Cap. : 170/400 Ltr.</b> Specification	3		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	Storage Capacity: 400 Ltrs Cooling Capacity: 170 Ltrs Compressor Type: Rotary Glass/hour Normal Demand: 1000 Glass/hour At 10°C temp. drop: 330 Complete Body :Stainless Steel Chilar Tank:SS304 Condensing Tubing: Copper No. of Faucets : 4 Refrigerant : R-22 Current : 9 Amp Net Weight : 125 Kg Dimensions (LxWxD) : 1440x1190x715 mm, Make: Duracool			
34.2	<b>WATER COOLER :</b> <b>Cap. : 170/400 Ltr.</b> Specification Storage Capacity: 400 Ltrs Cooling Capacity: 170 Ltrs Compressor Type: Rotary Glass/hour Normal Demand: 1000 Glass/hour At 10°C temp. drop: 330 Complete Body :Stainless Steel Chilar Tank:SS304 Condensing Tubing: Copper No. of Faucets : 4 Refrigerant : R-22 Current : 9 Amp Net Weight : 125 Kg Dimensions (LxWxD) : 1440x1190x715 mm, Make: USHA	3		
34.3	<b>WATER COOLER :</b> <b>Cap. : 170/400 Ltr.</b> Specification Storage Capacity: 400 Ltrs Cooling Capacity: 170 Ltrs Compressor Type: Rotary Glass/hour Normal Demand: 1000 Glass/hour At 10°C temp. drop: 330 Complete Body :Stainless Steel Chilar Tank:SS304 Condensing Tubing: Copper No. of Faucets : 4 Refrigerant : R-22 Current : 9 Amp Net Weight : 125 Kg Dimensions (LxWxD) : 1440x1190x715 mm, Make: Voltage	3		
34.4	<b>WATER COOLER</b> <b>Cap. : 150/150 Ltr.</b> Storage Capacity: 150 Ltrs Cooling Capacity: 150 Ltrs Compressor Type: Reciprocating Glass/hour Normal Demand: 750 Glass/hour At 10°C temp. drop: 245 Complete Body : Stainless Steel Chilar Tank: SS304 Condensing Tubing: Copper No. of Faucets: 2 Refrigerant: R-22 Current :7.5 Amp Net Weight: 70/75 Kg. Dimensions (LxWxD): 1335x695x545 mm, Make Duracool	2		
34.5	<b>WATER COOLER</b> <b>Cap. : 150/150 Ltr.</b> Storage Capacity: 150 Ltrs Cooling Capacity: 150 Ltrs Compressor Type: Reciprocating Glass/hour Normal Demand: 750 Glass/hour At 10°C temp. drop: 245 Complete Body : Stainless Steel Chilar Tank: SS304 Condensing Tubing: Copper No. of Faucets: 2 Refrigerant: R-22	2		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	Current :7.5 Amp Net Weight: 70/75 Kg. Dimensions (LxWxD): 1335x695x545 mm, Make: USHA			
34.6	<b>WATER COOLER</b> <b>Cap. : 150/150 Ltr.</b> Storage Capacity: 150 Ltrs Cooling Capacity: 150 Ltrs Compressor Type: Reciprocating Glass/hour Normal Demand: 750 Glass/hour At 10°C temp. drop: 245 Complete Body : Stainless Steel Chilar Tank: SS304 Condensing Tubing: Copper No. of Faucets: 2 Refrigerant: R-22 Current :7.5 Amp Net Weight: 70/75 Kg. Dimensions (LxWxD): 1335x695x545 mm, VOLTAGE	2		
34.7	Aqua guard Enhance RO+UV water purifier : Dimensions (WxDxHx) in mm 316x251 x462, Net weight 8.2 kg3 Storage tank Capacity: 7 liters, Purifying Technology Reverse Osmosis, Filter Cartridges i-filter Chemi Block Electronic Membrane Life Enhancer (EMLE) Reverse Osmosis Membrane Taste enhancer Cartridge, RO Membrane Rating TFC Spiral (75GPD), Power Ranting 35 Watts, Input Power Supply 230V, AC/50 Hz, Input Water Pressure **0.6kg/cm <sup>2</sup> (Min)-2.0 kg/cm <sup>2</sup> (Max.) (Suitable for above water cooler), Make-Eurka Forbes	4		
35	<b>Projector</b>			
35.1	<b>Multi-media Projector : DLP</b> Model – DLP Ultra HD 40U with wireless dongle, Throw Type : Long Throw Display Color 1.07 Billion Colors , Native Resolution 1920 x 1080 (Full HD) , Display Size : 0.76 - 7.62 m, Brightness 4000 ANSI Lumens , Contrast Ratio 22000 : 1 , Zoom 1.1x Lamp Type / Life (Modes) UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio 16:9 Throw Ratio 1.5 ~ 1.65 m, Throw Distance 0.7 - 7.6 m, Input VGA, HDMI x 2, USB (Type A), Audio-In (3.5mm), Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB, Keystone Adjustment ±400 (vertical), Horizontal Frequency : 15~102 KHz, Vertical Scan Rate 23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption, 350W, (Max.), Standby < 0.5W, Inbuilt Speaker 2W, Remote Full Functional Remote, OSD, Available, Power Supply 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight : 3.7 kg, Dimensions (mm) 332.0 x 135.0 x 261.0 (W x H x D), Accessories Power cable, VGA cable, remote control, user manual CD, Make: Globus	10		
35.2	<b>Multi-media Projector : DLP</b> Model – DLP Ultra HD 40U with wireless dongle, Throw Type : Long Throw Display Color 1.07 Billion Colors , Native Resolution 1920 x 1080 (Full HD) , Display Size : 0.76 - 7.62 m, Brightness 4000 ANSI Lumens , Contrast Ratio 22000 : 1 , Zoom 1.1x Lamp Type / Life (Modes) UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio 16:9 Throw Ratio 1.5 ~ 1.65 m, Throw Distance 0.7 - 7.6 m, Input VGA, HDMI x 2, USB (Type A), Audio-In (3.5mm), Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB, Keystone Adjustment ±400 (vertical), Horizontal Frequency : 15~102 KHz, Vertical Scan Rate 23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption, 350W, (Max.), Standby < 0.5W, Inbuilt Speaker 2W, Remote Full Functional Remote, OSD, Available, Power Supply 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight : 3.7 kg, Dimensions (mm) 332.0 x 135.0 x 261.0 (W x H x D), Accessories Power cable, VGA cable, remote control, user manual CD, Make: Sony	10		
35.3	<b>Multi-media Projector : DLP</b>	10		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	Model – DLP Ultra HD 40U with wireless dongle, Throw Type : Long Throw Display Color 1.07 Billion Colors , Native Resolution 1920 x 1080 (Full HD) , Display Size : 0.76 - 7.62 m, Brightness 4000 ANSI Lumens , Contrast Ratio 22000 : 1 , Zoom 1.1x Lamp Type / Life (Modes) UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio 16:9 Throw Ratio 1.5 ~ 1.65 m, Throw Distance 0.7 - 7.6 m, Input VGA, HDMI x 2, USB (Type A), Audio-In (3.5mm), Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB, Keystone Adjustment ±400 (vertical), Horizontal Frequency : 15~102 KHz, Vertical Scan Rate 23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption, 350W, (Max.), Standby < 0.5W, Inbuilt Speaker 2W, Remote Full Functional Remote, OSD, Available, Power Supply 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight : 3.7 kg, Dimensions (mm) 332.0 x 135.0 x 261.0 (W x H x D), Accessories Power cable, VGA cable, remote control, user manual CD, Make: Samsung			
35.4	<b>OR</b> DLP Ultra 40U, with wireless dongle, Throw Type: Long Throw, Display Colour 1.07 Billion colours Native, Resolution: 1024x 768 (SGA), Display Size 0.76 - 7.62 m, Brightness: 4000 ANSI Lumens, Contrast Ratio: 22000 : 1, Zoom: 1.1x, Lamp Type / Life (Modes): UHP / 4.3:9, Throw Ratio 1.96-2.15 Throw Distance 1.19 - 13.11 m, Input: VGA, HDMI 1.4, Audio-In (3.5mm), Composite Output VGA, Mini Jack (Audio) Control Ports Mini-USB Keystone Adjustment ±40 degrees (Vertical), Horizontal Frequency 15~102 KHz Video Compatibility NTSC, PAL, DTV Vertical Scan Rate 23~120Hz, Power Consumption 260W (Max.), Standby < 0.5W, Inbuilt Speaker 2W OSD Available, Remote Full Functional Remote, Power Supply 100 - 240V, 50/60 Hz AC Operating Temperature 00C to 400 C, 10~90% RH Weight 2.2 Kg, Dimension 294.0 x 110.0 x 218.0 (W x H x D) Accessories Power cable, VGA cable, remote control, user manual CD , Make: Globus	10		
35.5	DLP Ultra 40U, with wireless dongle, Throw Type: Long Throw, Display Colour 1.07 Billion colours Native, Resolution: 1024x 768 (SGA), Display Size 0.76 - 7.62 m, Brightness: 4000 ANSI Lumens, Contrast Ratio: 22000 : 1, Zoom: 1.1x, Lamp Type / Life (Modes): UHP / 4.3:9, Throw Ratio 1.96-2.15 Throw Distance 1.19 - 13.11 m, Input: VGA, HDMI 1.4, Audio-In (3.5mm), Composite Output VGA, Mini Jack (Audio) Control Ports Mini-USB Keystone Adjustment ±40 degrees (Vertical), Horizontal Frequency 15~102 KHz Video Compatibility NTSC, PAL, DTV Vertical Scan Rate 23~120Hz, Power Consumption 260W (Max.), Standby < 0.5W, Inbuilt Speaker 2W OSD Available, Remote Full Functional Remote, Power Supply 100 - 240V, 50/60 Hz AC Operating Temperature 00C to 400 C, 10~90% RH Weight 2.2 Kg, Dimension 294.0 x 110.0 x 218.0 (W x H x D) Accessories Power cable, VGA cable, remote control, user manual CD , Make: SONY	10		
35.6	DLP Ultra 40U, with wireless dongle, Throw Type: Long Throw, Display Colour 1.07 Billion colours Native, Resolution: 1024x 768 (SGA), Display Size 0.76 - 7.62 m, Brightness: 4000 ANSI Lumens, Contrast Ratio: 22000 : 1, Zoom: 1.1x, Lamp Type / Life (Modes): UHP / 4.3:9, Throw Ratio 1.96-2.15 Throw Distance 1.19 - 13.11 m, Input: VGA, HDMI 1.4, Audio-In (3.5mm), Composite Output VGA, Mini Jack (Audio) Control Ports Mini-USB Keystone Adjustment ±40 degrees (Vertical), Horizontal Frequency 15~102 KHz Video Compatibility NTSC, PAL, DTV Vertical Scan Rate 23~120Hz, Power Consumption 260W (Max.), Standby < 0.5W, Inbuilt Speaker 2W OSD Available, Remote Full Functional Remote, Power Supply 100 - 240V, 50/60 Hz AC Operating Temperature 00C to 400 C, 10~90% RH Weight	10		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	2.2 Kg, Dimension 294.0 x 110.0 x 218.0 (W x H x D) Accessories Power cable, VGA cable, remote control, user manual CD , Make: SAMSUNG			
35.7	DLP Ultra HD 40U ,Throw Type :Long Throw, Display Color : 1.07 Billion Colors, Native Resolution 1920 x 1080 (Full HD), Display Size 0.76 - 7.62 m, Brightness : 4000 ANSI Lumens, Contrast Ratio : 22000 : 1, Zoom 1.1x Lamp Type / Life (Modes), UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio : 16:9, Throw Ratio: 1.5 ~ 1.65 m, Throw Distance : 0.7 - 7.6 m, Input :VGA, HDMI x 2, USB (Type A), Audio-In (3.5mm), Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB Keystone Adjustment ±400 (vertical), Horizontal Frequency 15~102 KHz, Vertical Scan Rate 23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption 350W (Max.), Standby < 0.5W , Inbuilt Speaker 2W, Remote : Full Functional Remote OSD Available Power Supply 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight 3.7 kg Dimensions (mm), 332.0 x 135.0 x 261.0 (W x H x D) Accessories : Power cable, VGA cable, remote control, user manual CD, Make: Globus	1		
35.8	DLP Ultra HD 40U ,Throw Type :Long Throw, Display Color : 1.07 Billion Colors, Native Resolution 1920 x 1080 (Full HD), Display Size 0.76 - 7.62 m, Brightness : 4000 ANSI Lumens, Contrast Ratio : 22000 : 1, Zoom 1.1x Lamp Type / Life (Modes), UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio : 16:9, Throw Ratio: 1.5 ~ 1.65 m, Throw Distance : 0.7 - 7.6 m, Input :VGA, HDMI x 2, USB (Type A), Audio-In (3.5mm), Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB Keystone Adjustment ±400 (vertical), Horizontal Frequency 15~102 KHz, Vertical Scan Rate 23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption 350W (Max.), Standby < 0.5W , Inbuilt Speaker 2W, Remote : Full Functional Remote OSD Available Power Supply 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight 3.7 kg Dimensions (mm), 332.0 x 135.0 x 261.0 (W x H x D) Accessories : Power cable, VGA cable, remote control, user manual CD, Make: SONY	1		
35.9	DLP Ultra HD 40U ,Throw Type :Long Throw, Display Color : 1.07 Billion Colors, Native Resolution 1920 x 1080 (Full HD), Display Size 0.76 - 7.62 m, Brightness : 4000 ANSI Lumens, Contrast Ratio : 22000 : 1, Zoom 1.1x Lamp Type / Life (Modes), UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio : 16:9, Throw Ratio: 1.5 ~ 1.65 m, Throw Distance : 0.7 - 7.6 m, Input :VGA, HDMI x 2, USB (Type A), Audio-In (3.5mm), Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB Keystone Adjustment ±400 (vertical), Horizontal Frequency 15~102 KHz, Vertical Scan Rate 23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption 350W (Max.), Standby < 0.5W , Inbuilt Speaker 2W, Remote : Full Functional Remote OSD Available Power Supply 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight 3.7 kg Dimensions (mm), 332.0 x 135.0 x 261.0 (W x H x D) Accessories : Power cable, VGA cable, remote control, user manual CD, Make: SAMSUNG	1		
35.10	DLP Ultra HD 50U, Throw Type: Long Throw, Display Color:1.07 Billion Colours, Native Resolution : 1920 x 1080 (Full HD), Display Size 0.76 - 7.62 m, Brightness 5000 ANSI Lumens, Contrast Ratio : 22000 : 1, Zoom: 1.1x, Lamp Type / Life (Modes) UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio :16:9, Throw Ratio 1.5 ~ 1.65 m, Throw Distance: 0.7 - 7.6 m, Input VGA, HDMI x 2, USB (Type A),	1		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	Audio-In (3.5mm) Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB, Keystone Adjustment ±400 (vertical), Horizontal Frequency: 15~102 KHz, Vertical Scan Rate :23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption 350W (Max.), Standby < 0.5W, Inbuilt Speaker : 2W, Remote Full Functional Remote, OSD Available, Power Supply: 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight : 3.7 kg, Dimensions (mm), 332.0 x 135.0 x 261.0 (W x H x D), Accessories, Power cable, VGA cable, remote control, user manual CD, Make : Globus			
35.11	DLP Ultra HD 50U, Throw Type: Long Throw, Display Color:1.07 Billion Colours, Native Resolution : 1920 x 1080 (Full HD), Display Size 0.76 - 7.62 m, Brightness 5000 ANSI Lumens, Contrast Ratio : 22000 : 1, Zoom: 1.1x, Lamp Type / Life (Modes) UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio :16:9, Throw Ratio 1.5 ~ 1.65 m, Throw Distance: 0.7 - 7.6 m, Input VGA, HDMI x 2, USB (Type A), Audio-In (3.5mm) Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB, Keystone Adjustment ±400 (vertical), Horizontal Frequency: 15~102 KHz, Vertical Scan Rate :23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption 350W (Max.), Standby < 0.5W, Inbuilt Speaker : 2W, Remote Full Functional Remote, OSD Available, Power Supply: 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight : 3.7 kg, Dimensions (mm), 332.0 x 135.0 x 261.0 (W x H x D), Accessories, Power cable, VGA cable, remote control, user manual CD, Make : SONY			
35.12	DLP Ultra HD 50U, Throw Type: Long Throw, Display Color:1.07 Billion Colours, Native Resolution : 1920 x 1080 (Full HD), Display Size 0.76 - 7.62 m, Brightness 5000 ANSI Lumens, Contrast Ratio : 22000 : 1, Zoom: 1.1x, Lamp Type / Life (Modes) UHP / 10,000 Hrs. (Normal); 15,000 Hrs. (Eco), Aspect Ratio :16:9, Throw Ratio 1.5 ~ 1.65 m, Throw Distance: 0.7 - 7.6 m, Input VGA, HDMI x 2, USB (Type A), Audio-In (3.5mm) Output VGA, Audio Out (3.5mm audio), Control Ports RS232, Mini-USB, Keystone Adjustment ±400 (vertical), Horizontal Frequency: 15~102 KHz, Vertical Scan Rate :23~120 Hz, Video Compatibility NTSC, PAL, DTV, HDTV, Power Consumption 350W (Max.), Standby < 0.5W, Inbuilt Speaker : 2W, Remote Full Functional Remote, OSD Available, Power Supply: 100 - 240V, 50/60 Hz AC, Operating Temperature 00 C to 400 C, 90% RH, Weight : 3.7 kg, Dimensions (mm), 332.0 x 135.0 x 261.0 (W x H x D), Accessories, Power cable, VGA cable, remote control, user manual CD, Make: SAMSUNG			
35.13	<b>Projector Ceiling Mounting Set :</b> 15 mtr. Power cable, 15 mtr. UGA /RBG cable, 3ft. ceiling mounting kit with powder coating (Compatible for all brand i.e Sony, Globus, Epson etc) heavy duty, Universal set, Including fitting charges	12		
<b>36</b>	<b>Engineering Section</b>			
36.1	<b>BLDC (Brush Less Direct Current) Ceiling Fan Energy Efficient Type of 1200 mm sweep confirming to following technical specifications.</b> <b><u>Technical specification</u></b> 1. Blade sweep –1200mm 2. Fan motor- Brushless direct current motor 3. Applicable standard- IS 374.:1979 4. Rated voltage- 230 volts +/- 10% single phase AC 5. Rated frequency- 50Hz +/- 5% 6. Rated power input – 32 watt maximum 7. Rated speed – 350 RPM 8. Power factor- 0.9 minimum 9. Rated air delivery- Minimum 225 cubic meter per minute or better (Certified through a Government accredited lab)	550		



Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	10. Rated service value- 7.0 Cu.M/ min/ watt minimum 11. No. of blades- Three 12. Speed control- 5 speed with remote control having boost mode, sleep mode & timer facility. 13. THD- < 5% 14. Bearings- Double ball bearnings 15. Other accessories- Standard fan mounting hardware such as down rod, rubber bush, cotter pin, bolts and locking pin etc. 16. Warranty – Three years 17. Color- White/ Matt Brown/ Ivory 18. Colour for Decorative type fan- Meta Bronze copper, golden chocolate, pearl meta, While chrome, earth brown, sand grey, meta gold, pearl white, pearl ivory. Note :- (1) Test Certificates, warranty card etc. are to be submitted by the contractor/ supplier. (2) BLDC Fan approved by BEE & GRIHA Council is mandatory.			
36.2	<b>BLDC (Brush Less Direct Current) Ceiling Fan Energy Efficient Type of 1200 mm sweep confirming to following technical specifications. (DECORATIVE TYPE)</b> <u><b>Technical specification</b></u> 1. Blade sweep –1200mm 2. Fan motor- Brushless direct current motor 3. Applicable standard- IS 374.:1979 4. Rated voltage- 230 volts +/- 10% single phase AC 5. Rated frequency- 50Hz +/- 5% 6. Rated power input – 32 watt maximum 7. Rated speed – 350 RPM 8. Power factor- 0.9 minimum 9. Rated air delivery- Minimum 225 cubic meter per minute or better (Certified through a Government accredited lab) 10. Rated service value- 7.0 Cu.M/ min/ watt minimum 11. No. of blades- Three 12. Speed control- 5 speed with remote control having boost mode, sleep mode & timer facility. 13. THD- < 5% 14. Bearings- Double ball bearnings 15. Other accessories- Standard fan mounting hardware such as down rod, rubber bush, cotter pin, bolts and locking pin etc. 16. Warranty – Three years 17. Color- White/ Matt Brown/ Ivory 18. Colour for Decorative type fan- Meta Bronze copper, golden chocolate, pearl meta, While chrome, earth brown, sand grey, meta gold, pearl white, pearl ivory. Note :- (1) Test Certificates, warranty card etc. are to be submitted by the contractor/ supplier. (2) BLDC Fan approved by BEE & GRIHA Council is mandatory.	35		
<b>37</b>	<b>DST SERB Research Project of Dr. R.N.Khobragade )</b>			
37.1	Canon DSLR Camera EOS 750D 24.2 MP "CANON" EOS 750D 24.2 MP Digital SLR KIT(EF-S18-55 mm IS STM)	01		
<b>38</b>	<b>UGC - Human Resource Development Centre (A National Resource Centre)</b>			
38.1	Video Camcorder Model: Sony α7 III with 35 mm full- frame image sensor camera with autofocus (ILCE-7M3K] (SonyA7M3 Kit] Body +28-70 mm Zoom Lens (ILCE- 7M3K) Image Sensor: Aspect Ratio: 3:2 Sensor type: 35 mm full frame	<b>01</b>		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	<p>(35.6x23.8 mm), Exmor R CMOS sensor Number Of Pixels (Effective): Approx 24.2 megapixels Number of Pixels (total): Approx. 25.3 megapixels Recording (still images): Recording Format: JPEG (DCF Ver. 2.0, Exif Ver.2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format) Image Size (pixels) [3:2]: 35 mm full- frame L: 6000 X 4000 (24M), M: 3936 x 2624 (10M), S: 3008 x 2000 (6.0M), APS-C L: 3936 x 2624 (10M), M: 3008 x 2000 (6.0M), S: 1968 x 1312 (2.6M) Image Size (pixels) [16:9]: 35 mm full- frame L: 6000 X 3376 (20M), M: 3936 x 2216 (8.7M), S: 3008 x 1688 (5.1M), APS-C L: 3936 X 2216 (8.7M),M: 3008 X1688 (5.1M), S: 1968 x 1112 (2.2M) Image Quality Modes: RAW, RAW &amp; JPEG (Extra fine. Fine,Standard), JPEG (Extra fine. Fine, Standard) Recording (movie): Recording Format: XAVC S, AVCHD format Ver. 2.0 compliant Video Compression: XAVC S: MPEG-4 AVC/H.264, AVCFCD:MPEG-4 AVC/H.264 Audio Recording Format: XAVC S; LPCM 2ch, AVCHD; Dolby Digital (AC- 3) 2ch, Dolby Digital Stereo Creator Image Size (pixels), NTSC: XAVC S 4K: 3840 x 2160 (30p, 100M), 3840 x 2160 (24p, 100M), 3840 x 2160 (30p, 60M), 3840 X 2160 (24p, 60M), XAVC S HD: 1920 x 1080 (120p, 100M), 1920 x 1080 (120p, 60M), 1920 x 1080 (60p, 50M), 1920 X 1080 (30p, 50M), 1920 x 1080 (24p, 50M), 1920 x 1080 (60p, 25M), 1920 X 1080 (30p, 16M), AVCHD:1920 X 1080 (60i, 24M, FX), 1920 x 1080(60i, 17M, FH) Image Size (pixels), PAL: XAVC S 4K: 3840 X 2160 (25p, 100M), 3840 x 2160 (25p, 60M), XAVC S HD: 1920 x 1080 (100p, 100M), 1920 X 1080(100p,60M),1920 X 1080 (50p, 50M), 1920 x 1080 (25p,50M), AVCHD; 1920 x 1080 (50i,24M, FX), 1920 X 1080 (50i, 17M, FH) Image frame rate:NTSC mode:-1fps,2fps, 4fps, 8fps, 15fps, 30fps, 60fps, 120fps, PAL mode; 1fps, 2fps, 3fps, 6fps,12fps, 25fps, 50fps,100fps Image size (frame rate): NTSC mode; 1920x1080 (60p, 30p, 24p), PAL mode: 1920x1080 (50p, 25p) Movie Functions: Audio Level Display, Audio Rec Level, PAL/NTSC Selector, Yes &lt;1280 X 720 (Approx.9 Mbps)), TC/UB (TC PRESET/UB Preset/TC Format/TC Run/TC/TC make/UB Time Rec), Auto Slow Shutter, REC Control,Clean HDMI Info. (ON/OFF selectable). Gamma Disp. Assis Recording System Media: Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro (M2), SD memory card, SDHC memory card (UHS-I/II compliant), SDXC memory card (UHS-I/II compliant), microSD memory card,microSDHC memory card, microSDXC memory card Memory Card Slot: SLOT1: Slot for SD (UHS-I/II compliant) memory card, SLOT2: Multi slot for Memory Stick Duo/SD (UHS-I compliant) memory card Recording mode on 2 memory cards: Simult. Rec (Still), Simult. Rec (Movie), Simiilt. Rec (Still/.Movie). Sort (JPEG/RAW), Sort (Still/Movie), Auto Switch Media (OtVOfo, Copy For detailed specifications please visit the product information page on official website _angeable-lens-</p>			

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	cameras/ilce-7m3-body- kit/specifications			
38.2	<p>Teleporompter</p> <p>Hardware Specification:</p> <p>Monitor - Size: 19”</p> <p>LED Connectivity : VGA</p> <p>Hood - Glass: 60/40</p> <p>Tripods Mount: Fits any tripod</p> <p>Camera Mount: Mulple mounts to all Cameras from DSLR, hand-held to shoulder mount. Folds at for storage. Height of hood can be adjusted. Desk Control, Hand Control / Android Control, Foot Control, Multilingual etc.</p> <p>Software Features:</p> <p>Window base software, dual screen solution, Multi - lingual, In-built text editor for faster operation, Import word/.txt files. Story preview. Font size &amp; color selection. Adjustable Scrolling speed. Background color selection. Special coloring brackets, Mirrored/un-mirrored,anchor prompting. Prompt presentation. Story progress bar. Prompt images/scans, Remote controlled operations.</p> <p>Support &amp; Spares should be available on request in India.</p>	01		
39	<b>CIC (Govt Grant Under RUSA)</b>			
39.1	<p><b><u>HPTLC SOFTWARE</u></b> – New generation complete system &amp; data acquisition, single software to link, control, integrate, manage the individual instruments for application, development, scanning and image documentation. Guides the user through chromatography steps. Numerous methods library available for internet download for lifetime. Client-server system for flexibility. Powerful database tracks individual samples and ensures data integrity. Automatic System Suitability detection and check. Built-in automatic back-up and restore tool for data. Produces a comprehensive GLP compliant analysis report with instrument, analyst, date, time, place, method parameters etc. and complete details. Communicates in both directions with instruments. Random and unique report ID given to each printout. Stores infinite number of methods and downloads them to instruments, when called for. Data security achieved through access control, customizable user Management, defined access levels to success. Safe database prevents accidental alteration / deletion. Essential for GLP &amp; optional 21 CFR Rule 11 compliance and electronic data storage security and transmission.</p> <p><b><u>SEMI AUTOMATIC SPOT / BAND APPLICATOR</u></b></p> <p>5th Generation. Sprays sample to layer. Stand alone or System Manager Control. 4 mode applicator 1) Quantitative analysis 2) Micro-preparative chromatography (190mm band length &amp; 500µl sample in one go) 3) Superimpose – int. std.or derivatization reagent in same method 4) in – situ clean-up (sample application at 110mm on y axis). Sample syringe – 100µl (for analytical work) 500µl (for micropreparative work). Sample position on X &amp; Y axis freely selectable. Automatic rate of sample dispensing. Method storage – 10 built-in or infinite through system manager. Method</p>	1		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	<p>entry – Manual or download from System Manager. Can auto – test instruments (self-diagnosis).</p> <p><b><u>CHROMATOGRAM DEVELOPMENT CHAMBERS</u></b></p> <p>All glass, moulded, one piece, bubble free chamber for TLC/ HPTLC. Bottom divided into two equal halves with a sloping divider. Chamber top and bottoms (both outside the chamber and inside the two troughs) should be perfectly parallel to each other.</p> <p>Chamber ground finish on top for good seal and at bottom for perfect level. Heavy chamber to minimise effects of vibration. One piece joint less moulded chambers prevent leakage and tough to handle while cleaning. Stainless steel rust proof lid with overhang to completely seal the chamber. Appropriate sizes for 20x20 cm, 20x10 cm and 10x10 cm plates.</p> <p><b><u>20 X 10 CM ONE PIECE, MOULDED DIP TANK WITH LID FOR DERIVATIZATION</u></b></p> <p><b><u>CHROMATOGRAPHY VISUALISATION : UV CABINET</u></b></p> <p>UV Cabinet, Model 4 (Jan. 2016) Dual wavelength 254 nm + 366 nm with guaranteed minimum intensity, as follows : UV lamp at 17 cm distance. Short wave UV (254 nm) 1600, long wave (366 nm) 1000,. Visible light (&lt;400nm) 0.4. Full protection to viewer's eyes and skin from UV light for safety. High tech 50 kHz power supply for flickerless, instant illumination. Auto switch off after 10 min. Thermal sensor and tilt sensor built in for user safety.</p> <p><b><u>TLC / HPTLC SCANNER WITH DATA EVALUTION :</u></b></p> <p>System Manager controlled Scanner / Densitometer for automatic spectrum scanning for identity check as well as purity check; Automatic quantitative measurement by absorbance &amp; fluorescence; All facility plate sizes acceptable; Reproducibility of positioning better than 50µm in Y direction &amp; 100µm in X direction. Scan speed 100mm/sec @ 25µm resolution; Quick scan facility; Wavelength range 190-900 nm; Wavelength</p> <p>Accuracy better than 1nm and reproducibility better than 0.2nm. Monochromator flushing by nitrogen; Data sampling rate – 4000 / sec; Special Macro optics for TLC &amp; Micro optics for HPTLC. Apochromatic suprasil – fluorite lens system. Spectrum scan speed 100 nm / sec; Max 999 spectra / plate; Visible pilot slit image / scan compartment illumination with UV to check sample alignment with scan beam; D2, Hg, W lamps built-in. Self diagnostic + Service dialog + Universal filter for fluorescence also built-in; scan slit size variable; bandwidth selectable 5 or 20 nm. 16 bit, 2 channel interface, 100mg per double conversion.</p> <p>Data evaluation 32 bit software (latest version), Excellent S/N ratio. High reproducibility; Controlled by System Manager, Automatic / Manual data integration, Auto baseline correction. Spot check facility. 3D display</p>			

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1	2	3	4	5
	<p>with data storage and auto calculation of each peak at its <math>\lambda_{max}</math>. Sub-component evaluation. Calibration - single level, multilevel, linear / non-linear. limit test support. Track profile subtraction. Statistics CV / CI. Reproducibility check facility. Auto calculation of data from wts and dil. factors , Computer generated random no. for each report (GLP compliance). Lamp use tracking. 2 level digital user manual. Service Dialog + self Diagnostics + Tutorial all built – in. Meets GLP. Optional IQ-OQ and 21 CFR Rule 11 certification.</p> <p><b>ESSENTIAL SOFTWARE FOR SCANNER</b></p> <p>a) Spectrum Scanning option b) Scanner Quantification c) Scanner Multi Wavelength</p> <p><b><u>PROFESSIONAL TLC / HPTLC PHOTODOCUMENTATION SYSTEM under GLP :</u></b></p> <p><b>Professional TLC / HPTLC Photodocumentation System, System Manager Controlled, comprising:</b></p> <p><b>Fully automated image documentation at 254nm and 366nm and visible light.</b> Illumination Unit, Industrial Camera and HPTLC specific software. <b>Illumination unit</b> – with 254 + 366 nm UV + Visible light (from above &amp; below the plate). Uniform illumination. 60 KHz supply for instant, flickerless illumination. Easy access for changing tubes &amp; filters and PCB. Auto switch off. Total darkness. Viewing window to observe plate in UV. Safety - UV switched off if door opened.</p> <p><b>Camera</b> 48 bit, high resolution industrial camera head (<math>2^{48}</math> grey level resolution). Images of the highest quality. Fixed parameters for total reproducibility. True colours capture. Very linear response. Individually calibrated. Camera head is PC operated and does not have any controls. Image data and report through system manager software only, Tamper proof data.</p> <p><b>HPTLC Specific Software</b> – Automatic image optimization. Automatic exposure time to suit brightest zone within dynamic range of CCD. Full function annotation. <math>R_f</math> scale. Child image with or w/o ROI (Region of Interest) blow up. Auto image capture at 254nm and or 366nm and or white light. Raw data inaccessible to user. Spot application tool to detect faintest fractions. High speed data transfer USB 3.0. Control by System Manager. Options to process the image.</p> <p>High Resolution Documentation software for IQ-OQ, performance check, clean plate correction, image averaging, image subtraction, white adjust and flat field corrections. Very useful to create the best possible image for evaluation.</p> <p>Image comparison viewer software. Allows comparison of different tracks from different plates under GLP. A must for accurate comparison. Extremely user friendly. Can create artificial plate with relevant data.</p>			
39.2	CHNS/O Elemental Analysis: Combustion Approach Static and Dynamic: A mixture of two combustion techniques to	1		

Sr. No.	Description of Item	Approx. Quantity required Unit/No.	Rate in Rs. Per Unit/No. including of all taxes / charges	Total Amount including of all taxes / charges
1	2	3	4	5
	<p>ensure complete sample combustion Furnace Design Vertical Combustion Furnace Temp. 100 – 1100 °C Reduction Furnace Temp. 100 – 1000 °C Pyrolysis Furnace Temp. 100 – 1100 °C Sample Temp. ≥1800 °C High heat, oxygen environment</p> <p>Autosampler 60 position Pneumatic auto drop. Automatic Weight Transfer Optional Eliminates the need for manual input of weights. Compatible with the PerkinElmer AD-6000 Ultra Microbalance; Automatic Shutdown Included For reducing furnace temperatures at user defined and Wake-up times and dates as well as reheating and calibration. Column Switching Accessory Optional For convenient switching between Oxygen and CHN/CHNS modes</p> <p>Software Features 21 CFR Part 11 PerkinElmer Enhanced Security™ (ES) Advanced Calculations Elemental Ratio, simplest Empirical A series of calculations providing information Formula, % Polymer, Solvent of Crystal- such as the CN ratio or the calculated amount lization, Dry Basis and Heating Value of heat released upon combustion.</p> <p>Performance Accuracy ≤0.3% In Helium carrier gas and certified reference materials Precision ≤0.2% In Helium carrier gas using certified reference materials Analysis Times CHN 6 mins CHNS 8 mins Oxygen 4 mins Sample Size Range 0 to 500 mg Sample type dependent. Analytical Range C 0.001-3.6 mgs H 0.001-1.0 mgs N 0.001-6.0 mgs S 0.001-2.0 mgs O 0.001-2.0 mgs Site Requirements Dimensions (HxWxD) 61 cm. (24 in.) x 55 cm. (22 in.) x 55 cm. (22 in.) Weight 45 Kg (99 lb.) Power Requirements 100 – 230 VAC</p>			
33.3	<p>Qubit 4 Fluorimeter : Dynamic range: 5 orders of magnitude Processing time: seconds/sample</p> <p>Light sources: blue LED (max ~470 nm), red LED (max ~635 nm)Excitation filters: blue (430–495 nm), red (600–645 nm)</p> <p>Emission filters: green (510–580 nm), red (665–720 nm)</p> <p>Detectors: photodiodes, measurement capability from 300–1,000 nm</p> <p>Warm-up time: &lt;35 seconds</p> <p>USBthumb drive: 4 GB</p>	1		

Name of Firm

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GST Registration No.

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PAN No.

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Signature of Vender

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Name of the Authorized signatory

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Seal of the Firm

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