For News Paper

Sant Gadge Baba Amravati University
E-Tender Notice

No. SGBAU/2/Store/ 502/20-21   Date: 24 /03/2021

E-Tenders are invited from authorized dealers / Manufacturers for Supply of various type of purchases as per the following details.

Tender Sr. No.	Name of Tender
11/2021	Supply of Networking Accessories with installation
12/2021	Supply of Equipment under RUSA Grant
13/2021	Supply of Office and Laboratory Equipment
14/2021	Supply of Equipment's for Model Degree College, Buldhana
15/2021	Supply of Equipment's for Knowledge Resource center
16/2021	Supply of Computer, IPAD, Printer, Server, UPS and Computer Peripherals
17/2021	Supply of Software
19/2021	Supply of Sport Materials (RUSA Grant)

Details of E-Tenders are available on www.mahatenders.gov.in. and it is also available on our website www.sgbau.ac.in for information only. Right to reject any tender (part or full), without assigning any reason, is reserved by the University.

                   Registrar

For Web Site

Sant Gadge Baba Amravati University
E-Tender Notice

No. SGBAU/2/Store/ 502/20-21   Date: 24/03/2021

E-Tenders are invited from authorized dealers / Manufacturers for Supply of various type of purchases as per the following details.

Tender Sr. No.	Name of Tender	Cost of Tender Form including GST @18%	Tender Deposit (EMD)	Last Date of Submission upto 01.00 PM	Date of Opening at 01.00 PM
1	2	3	4	5	6
11/2021	Supply of Networking Accessories with installation	2360/-	10000/-	09/04/2021	12/04/2021
12/2021	Supply of Equipment under RUSA Grant	2360/-	10000/-	09/04/2021	12/04/2021
13/2021	Supply of Office and Laboratory Equipment	2360/-	10000/-	09/04/2021	12/04/2021
14/2021	Supply of Equipment's for Model Degree College, Buldhana	2360/-	10000/-	09/04/2021	12/04/2021
15/2021	Supply of Equipment's for Knowledge Resource center	3540/-	50000/-	09/04/2021	12/04/2021
16/2021	Supply of Computer, IPAD, Printer, Server, UPS and Computer Peripherals	11800/-	100000/	09/04/2021	12/04/2021
17/2021	Supply of Software	3540/-	50000/-	09/04/2021	12/04/2021
19/2021	Supply of Sport Materials (RUSA Grant)	3540/-	50000/-	09/04/2021	12/04/2021

E-Tenders, Cost of Tender Form and EMD should be compulsorily submitted online on website www.mahatenders.gov.in..

E-Tender possibly will be open in presence of Tender Opening Committee at E-Tender cell, Engineering section, Sant Gadge Baba Amravati University. Right to reject any tender (part or full), without assigning any reason, is reserved by the University.

                   Registrar

Envelope No. 01

Sant Gadge Baba Amravati University
E-Tender Form (Technical Bid)
TENDER NO. 16/2021

To,

    The Registrar
    Sant Gadge Baba Amravati University,
    Amravati

    Subject : Supply of Computer, IPAD, Printer, Server, UPS & Computer Peripherals

    Ref.   : Tender Notice No. SGBAU/2/Store/502/2020-21 dated:- 24/03/2021.
          (Due Date– 09/04/2021)

R/Sir

    With reference to subject mentioned above I / We M/s……………………………………………...……..

……………………………………………………………….. quote herewith the rates for **Supply of Computer, IPAD, Printer, Server, UPS & Computer Peripherals.**
    I /We read & accept all terms & conditions of this Tender.

1	Full name of Vender :		
2	Name of Firm :		
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 (latest / current year)	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 (if Applicable)	Enclosed	Not Enclosed
12	PAN Card	Enclosed	Not Enclosed
13	Declaration Regarding not being Blacklisted/ Debarred. (As per Annexure-A)	Enclosed	Not Enclosed
14	Fall Clause Certificate (As per Annexure-B)	Enclosed	Not Enclosed
15	General Terms & Conditions and Standard Terms & Condition (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 General 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 Number (PAN)   :   ………………………………………………….

Signature of Vender   :   …………………………………………………

Name of the Authorized signatory   :………………………………………………

Seal of the Firm   :………………………………………………….

Annexure-A

DECLARATION REGARDING NOT BEING BLACKLISTED/ DEBARRED

(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.

OR

I / We …………………………………………………….. Supplier / Manufacturer / Partner(s) / Authorized Distributor of M/s. …………………………………………………… Hereby declare that the firm / company namely M/s. ………………………………………………….. was blacklisted or 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 addition 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)

Annexure – B

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 by higher than lowest prices at which the party sells the terms of identical description to any other Govt. organization / PSU/s / 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, SGBAU will have the right to recover the excess charged amount from the subsequent / unpaid bill of the supplier.

Seal and signature of Tenderes

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 & CONDITIONS
Tender Notice No. SGBAU/2/Store/502/ 2020-21 dated:- 24/03/2021
(Due Date 09/04 /2021)
TENDER NO. 16/2021

1) E-Tenders are invited from authorized dealers / Manufacturer, Supplier **FOR SUPPLY OF Computer, IPAD , Printers, Server, UPS & Computer Peripherals.**
2) E-Tender should be compulsorily submitted online.
3) Last date of online submission of E-Tender is **09/04/2021** upto 01.00 PM. The tenders will be opened preferably on **12/04/2021** at 01.00 PM in presence of Tender opening committee at E-Tender Cell, Engineering Section, S.G.B. Amravati University.
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 SGB 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 Exemption Certificate (if Applicable)
   e) EMD Exemption Certificate (if Applicable)
   f) Copy of PAN Card
   g) Experience Certificate or Order copy (If Available)
   h) Declaration Regarding Not Being Blacklisted/ Debarred. (As per Annexure-A)
   i) Fall Clause Certificate (As per Annexure-B)
   j) General Terms & Conditions (As per Annexure-C)
   k) Tender Form Fee and Tender Deposit Money (EMD)Receipt
   l) 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. 11800/- (Inclusive 18% GST) and EMD Rs. 1,00,000/- should be submitted online only.
6) A Successful bidder having deposited Rs, 1,00,000/- EMD, shall have to deposit 3% as Security deposit on total value of approved rates by the way of conversion of EMD within specific /stipulated period prescribed by University in the form of Demand Draft / Bankers Cheque/ Pay Order./F.D.R. in favour of **Finance & Accounts Officer,** Sant Gadge Baba Amravati University, Amravati
7) The tenderer availing the facility of exemption shall have to deposit 3% as S.D. on total value of approved rates within specific /stipulated period prescribed by University after acceptance of their rates in the forms Demand Draft / pay Order / banker Cheque / F.D.R. in favour of   **Finance & Accounts Officer**, Sant Gadge Baba Amravati University, Amravati
8) The security Deposit / Tender Deposit / Earnest Money Deposit of successful bidder will be refunded only after satisfactory supply and successful installation
9) Failure of the successful bidder to deposit Security Deposit within prescribed time limit, shall produce sufficient grounds for the annulment of the award. In this event the University may make the award to next lowest evaluated bidder or may call new bids.
10) Incomplete E-tenders not in conformity with the prescribed specifications, terms & conditions shall be rejected. University has right to accept/ reject any or all tenders without assigning any reason.
11) a) approved Rates will be valid upto **30st June, 2021.**
    b) The suppliers should quote rates for each article independently. The University reserve the right to accept the offer partially or fully.
12) Rates to be mentioned F.O.R. Stores/ Dept. & including all taxes, (i.e.–GST etc. if applicable) installation/Transportation etc
13) The supplier shall supply the ordered goods within the delivery period mentioned in the purchase order. Failing which the penalty shall be imposed @ 0.5% per week of total 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.
14) University has right to reject any part or full articles if the quality of material is disapproved & will be kept in stores / Dept. 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/S.D. will be forfeited. As well as If supplier fails to replace the rejected goods in time. The University shall be 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 the approved rates, such losses shall be recovered from the S.D. or any outstanding payment of the tenderer.

16) Quality/Quantity/Technical Specification etc. of the material will be confirmed after the physical checking at our stores/Dept. & if the shortage in any form is found, amount will be deducted from the invoice/Security Deposit/EMD.

17) The term of payment in advance or through bank will not be accepted.

18) No negotiation will be done .

19) **Terms of payment:** Payment to be made to the supplier will be subject to the deduction of taxes applicable at source at the rate in force from time to time and after satisfactory supply.

20) In case of supply 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 due to substandard supply.** In case of defects noticed during use of material supplied by the supplier within warranty 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 shall be adjusted from the Earnest Money / security deposit or other any pending bills of the supplier.

21) **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 WARRANTTIES 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 vendor, effective when sent, in the event that the vendor:

a) fails to comply with 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 voluntarily ceases trading; or
e) merges with or is acquired by a third party; or
f) assigns any of its rights or obligations under the order to a third party without theUniversity'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 up-dated Information relative to the foregoing literature and documentation with timely written notice.

22) Any dispute arising out of or relating to this enquiry/tender the decision of Hon'ble Vice-Chancellor shall be final.

23) Persons working in university in any capacity are prohibited to take part in the tender/bidding.

24) 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 agree 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   :   ……………………………………

Sant Gadge Baba ⚬ Amravati University

E-Tender Form (Financial Bid)
TENDER NO. 16/2021

To,

The Registrar,

Sant Gadge Baba Amravati University,

Amravati

Subject : Supply of Computer, IPAD, Printer, Server, UPS & Computer Peripherals.

Ref.: Tender Notice No. SGBAU/2/Store/502/2020-21 dated 24/03/2021
(Due Date–09/04/2021)

R/Sir

With reference to above I / We M/s………..………………………………………………………………

quote herewith the rates for supply of Computer & its Peripherals. I /We read & accepted all terms & conditions enclosed with this Tender Form.

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorizati on Certificate attached or not	Remark
01	02	03	04	05	06
1	**CASU**				
1.1	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of at least 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller	05			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with height adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
1.2	**Multifunction LaserJet Printer** Make- HP/Epson/Canon/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/ device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n) Standard warranty:1 year onsite Paid Warranty for Extended 4 Years	03			
1.3	**UPS** Make- Luminous/Microtek/Transtech/APC 1KVA with 30 Min. Backup	**05**			
1.4	**Laptop** Make- HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	Support 1 RJ 45 1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 2 Years Comprehensive Warranty including battery				
2	**Confidential Section**				
2.1	**Server** Make:- HP/IBM/Dell Form Factor 4U Tower Model Processor Intel Xeon-Bronze 3204 (6-Core, 1.9 GHz, 85W) Memory 1x8 GB RDIMM SR 2933 MT/s Additional 2 X 16GB 1Rx4 PC4-2933Y-R Smart Kit Hard Disk Drive 4 LFF(3.5inch) Non Hot Plug Open Bay 3 X 1TB SATA 7.2K LFF RW HDD Gen10 Slimline ODD Bay Kit RAID Smart Array S100i SR Gen10 Software RAID 0,1,5,10 Optical Drive 9.5mm SATA DVD-RW Optical Drive Power Supply 1x 500W Standard Non-Hot-Plug/non-RPS Power Supply Smart Array E208i-a SR Gen10 Ctrlr Network Controller Embedded 4-Port 1GbE Ethernet 1Gb 4-port 369i Adapter Management iLO Standard with Intelligent Provisioning (embedded) Ms Ws19 (16-Core) edu std ROK en sW With CAL Warranty 3/3/3 (Part/Labor/On-Site) Paid Warranty for Extended 2 Years	01			
2.2	**Multifunction LaserJet Printer** Make- HP/Epson/Canon/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/ device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n) Standard warranty:1 year onsite Paid Warranty for Extended 4 Years	**02**			
2.3	**Line Matrix Printer** Make:- Printonix/wep	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	Line Printer 1500 LMP, USB : Yes, Network :Yes (Box Mode), Compatible with Ribbon Cartridge P/No. 256109-104 Standard Warranty : One Year Paid Warranty for Extended 4 Years				
3	**PRO Section**				
3.1	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with height adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
3.2	**Bilingual Typing Software** for Marathi/English/Hindi Make- **Shrilipi/ISM**	01			
4	**Development Section**				
4.1	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years	01			
4.2	**Multifunction Laserjet Printer for A3 Size** Make- HP/Canon/Epson/Ricoh • Print speed, black :- 21 – 30;	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	• Color output :- Black and white • Product type :- Laser printers • Functions :- Print scan and copy • Output capacity :- Up to 250 Sheets • Media type and capacity, ADF :- 100 sheets • Display :- 4-Line LCD • Scan speed (normal, letter) :- Up to 30 ppm • Scan speed (normal, A4) :- Up to 30 ipm • Print speed black (normal, letter) :- Up to 23 ppm • Print speed black (normal, A3) :- Up to 12 ppm • Print speed black (normal, A4) :- Up to 23 ppm • Print speed duplex (A4) :- Up to 12 ipm • Print speed duplex (letter) :- Up to 12 ipm • First page out black (letter, ready) :- As fast as 8.7 sec • Multitasking supported :- Yes • Duty cycle (monthly, letter) :- Up to 50,000 pages per month • Print languages :- PCL5E, PCL6 • Paper trays, maximum :- 3 • Recommended monthly page volume :- 5000 • Duplex printing :- Plain, Mid-weight, Light, LaserJet, Colored, Preprinted, Recycled, • Automatic paper sensor :- No • Print colours :- Monochrome • Scan size (ADF), maximum :- 297 x 432 mm • Scan file format :- TIFF, JPEG, PDF, BMP • Color scanning :- Yes • Scan size, minimum :- 140 x 130 mm • Auto document feeder capacity :- Standard, 100 sheets • Weight :- 30 kg (includes supplies) • Package weight :- 37.4 kg • Control panel :- 4-Line LCD, • 4 Quick-launch buttons • Scan Resolution, Hardware :- • Up to 600 x 600 dpi • Enhanced scanning resolution :- • Up to 4800 x 4800 dpi • Scan Resolution, Optical :- • Up to 600 x 600 dpi • Memory :- 128 MB • Memory, maximum :- Memory (Onboard) Standard/Maximum :- 128 MB • Media sizes supported :- A3, A4, A5, B4, B5, Officio 216 x 340, 8K, 16K • Print quality black (normal) :- • Up to 600 x 600 dpi • Print quality black (best) :- Optical :- • 600 x 600 dpi; Optical :- 1200 x 1200 dpi • Maximum print area :- 297 x 914 mm • Scanner advanced features :- Scan to PC • Copier smart software features :- ID Copy, Book Copy, N-UP, Reduce/Enlarge • Warranty :Standard One year • Paid Warranty for Extended 4 Years				
4.3	**Online UPS** Make: Luminous/Microtek/Transtech 6 KVA with 30 Min. Backup With 26AHX16 Batttery (Microprocerssor control) **Standard Warranty**	01			
4.4	**Multifunction LaserJet Printer** Make- HP/Epson/Canon/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n) Standard warranty:1 year onsite Paid Warranty for Extended 4 Years				
5	**Computer Centre**				
5.1	**Multifunction LaserJet Printer** Make- HP/Epson/Canon/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/ device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n) Standard warranty:1 year onsite Paid Warranty for Extended 4 Years	**01**			
5.2	Online UPS Make: Luminous/Microtek/Transtech 6 KVA with 30 Min. Backup With 26AHX16 Battery (Microprocessor control) **Warranty : As per Standard**	**01**			
6	**Deans Office**				
6.1	**Laptop** Make-HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support 1 RJ 45 1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed (Minimum 15 Test Completed) • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 2 Years Comprehensive Warranty including battery				
6.2	**Desktop Computer with i7 Processor** Make-HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
6.3	**LaserJet Printer** Make- HP/Canon/Epson/Ricoh Print, Scan, Copy • Prints up to14 ppm1 (ISO) – A4 print & copy • Duty Cycle up to 5,000 pages per month • RMPV: Up to 250 to 2,000 pages2 • 600 x 600 dpi print resolution • 230 MHz with 32MB RAM • Hi-speed USB 2.0 port • 12X Black Original LaserJet Toner- 2000 pages • 1 year RTB warranty • Paid Warranty for Extended 4 Years	01			
6.4	**Bilingual Typing Software** for Marathi/English/Hindi Make- **ISM/ Shrilipi 7.4-NXT**	01			
6.5	**UPS** 600 VA, 20 Min. backup Make- Luminous/Microtek/Transtech/APC Standard warranty	01			
7	**Board of innovation, Incubation & linkages**				
7.1	**Desktop Computer with i5 Processor** Make-HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorizati on Certificate attached or not	Remark
01	**02**	03	04	05	06
	chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
7.2	**Scanner** Brand :- HP/Canon/Epson Scan Speed :- A4/4x6 inch, 300dpi, Colour :- 8/4 sec Scanning Speed Greyscale (300-4800 dpi) :- 1.7-8.2msec/line Scanning Speed Colour (300-4800 dpi) :- 1.7-25.4msec/line Optical Resolution :- 4800x4800 dpi Operating Temperature Range :- 5-35 deg C Dimensions :- 250x365x39 mm Scanning Method :- CIS Light Source :- 3 Color (RGB) LED Selectable Resolution :- 25-19200 dpi Operating Humidity Range :- 10-90 %RH (Without Condensation Formation) Power Supply :- Supplied via USB port Type :- Flatbed Scanner System Requirements :- Display :- 1024x768 XGA Document Size :- A4/Letter (216x297 mm) Interface :- USB-Type C (USB 3.0 & 2.0 Compatible) Supported OS :- Windows :- 10/8.1/7 SP1/OS X 10.11.6 Mac :- 10.12-10.13 MacOS Warranty :- 1 Year Warranty Paid Warranty for Extended 4 Years	01			
7.3	**LaserJet Pro Printer** Make- HP/Epson/Canon/Ricoh Black (A4, normal): Up to 25 ppm; Black (letter, normal): Up to 26 ppm • Black (A4, ready): As fast as 8 sec • Duty Cycle: Up to 30,000 pages • RMPV: 250 to 2000 • 1 Hi-Speed USB 2.0; 1 Ethernet 10/100; Wi Fi 802.11b/g/n • ePrint; Wireless Direct Printing 1 year onsite warranty Paid Warranty for Extended 4 Years	02			
7.4	**Multifunction LaserJet Printer** Make- HP/Epson/Canon/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/ device); built-in Fast Ethernet 10/100Base-TX network port;	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	Phone line port (in/out); WiFi 802.11b/g/n) Standard warranty:1 year onsite Paid Warranty for Extended 4 Years				
8	**Incubation Centre**				
8.1	**Desktop Computer with i5 Processor** Make-HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years	**10**			
8.2	**Scanner**	**01**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	Brand :- HP/Canon/Epson • Scan Speed :- A4/4x6 inch, 300dpi, Colour :- 8/4 sec • Scanning Speed Greyscale (300-4800 dpi) :- 1.7-8.2msec/line • Scanning Speed Colour (300-4800 dpi) :- 1.7-25.4msec/line • Optical Resolution :- 4800x4800 dpi • Operating Temperature Range :- 5-35 deg C • Dimensions :- 250x365x39 mm • Scanning Method :- CIS • Light Source :- 3 Color (RGB) LED • Selectable Resolution :- 25-19200 dpi • Operating Humidity Range :- 10-90 %RH (Without Condensation Formation) • Power Supply :- Supplied via USB port • Type :- Flatbed Scanner • System Requirements :- Display :- 1024x768 XGA • Power Consumption :- Operation :- 4.5 W • Standby :- 0.3 W • Document Size :- A4/Letter (216x297 mm) • Interface :- USB-Type C (USB 3.0 & 2.0 Compatible) • Supported OS :- Windows :- 10/8.1/7 SP1/OS X 10.11.6 • Mac :- 10.12-10.13 MacOS • Warranty :- 1 Year Warranty • Paid Warranty for Extended 4 Years				
8.3	**LaserJet Pro Printer** Make-HP/Epson/Canon/Ricoh Black (A4, normal): Up to 25 ppm; Black (letter, normal): Up to 26 ppm • Black (A4, ready): As fast as 8 sec • Duty Cycle: Up to 30,000 pages • RMPV: 250 to 2000 • 1 Hi-Speed USB 2.0; 1 Ethernet 10/100; Wi Fi 802.11b/g/n • ePrint; Wireless Direct Printing 1 year onsite warranty Paid Warranty for Extended 4 Years	05			
9	**Regional Coordinatiing institute – Unnat Bharat Abhiyan**				
9.1	**Desktop Computer with i7 Processor** :-Make:- HP/dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of at least 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
9.2	**LaserJet Pro** Make-HP/Canon/Epson/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/ device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n)^ Standard Warranty:-1 Years onsite Paid Warranty for Extended 4 Years	02			
9.3	**UPS** 1 KVA with 30 Min. Backup Make- Luminous/Microtek/Transtech/APC	02			
10	**Finance Section**				
10.1	**Desktop Computer with i7 Processor** Make-HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-	10			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
10.2	**Laptop** Make-HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7- 1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support • 1 RJ 45 • 1 HDMI 1.4b • 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio • Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of • (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed • (Minimum 15 Test Completed) • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 2 Years Comprehensive Warranty including battery				
10.3	**Multifunction LaserJet Printer** Make- HP/Canon/Epson/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/ device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n)^ • 88X Black Toner- 1,500 pages Warranty :-1 year onsite warranty Paid Warranty for Extended 4 Years	**04**			
10.4	**Ipad** 9.7 Inch Ratina Display A10 Fusion Chip with 64-bit, desktop – class architecture, Touch ID fingerprint sensor, 8MP camera with 1080p video and 1.2mp Face Time HD camera, 802.11ac Wi-Fi with MIMO, up to 10 hours or battery life , Two speaker audio, Lightning connector for charging and accessories or latest configuration **Warranty : Standard warranty**	**01**			
10.5	**UPS** **600VA with 20 Min. backup** Make- Luminous/Microtek/Transtech/APC **Warranty : Standard warranty**	**04**			
11	**Garden Section**				
11.1	**Business Computer All in One** (Touch/Non Touch)	**01**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	Make- HP/Dell/Lenovo • Core i7-9700, 16GB DDR4 RAM, 1TB SSD, Win 10 Pro, DVD RW, 23.8" FHD IPS Display, 3 years Onsite warranty, Wireless Keyboard, Wireless Mouse • 23.8" Non-Touch, FHD IPS Widescreen WLED-backlit Antiglare, Narrow Bezel • DDR4 2666MHz RAM expandable upto 64GB, 2 SODIMM • Intel Q370 Chipset • Secure your sensitive information through Trusted Platform Module • World's most secure and manageable AiO • 2MP FHD low-light Camera • Dual facing pop-up IR camera • Bang & Olufsen Audio with up-firing speakers • Audio Boost for balanced loudness and clarity and improved speech quality • Reclining Stand • Extremely versatility: Standing, reclining or mounted • Hardened Fingerprint reader for multifactor authentication • Wifi6 (802.11ax) – 3x faster than 802.11a • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
11.2	**Laptop** Make- HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support 1 RJ 45SÉ1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed (Minimum 15 Test Completed) • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 4 Years				
12	**EXAMINAITON (Computer Centre)**				
12.1	**Desktop Computer with i7 Processor** Make:- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years	05			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
12.2	**Line Matrix Printer** Make:- Printronix /Wep Line printer 1500 LPM, USB:Yes, Network :Yes Box Model compatible with Ribbon Cartridge P/No 2561089-104, 259885-104 Standard Warranty: One Year Paid Warranty for Extended 4 Years	01			
12.3	**Multifunction Laserjet Printer for A3 Size** Make- HP/Canon/Epson/Ricoh • Print speed, black :- 21 – 30; • Color output :- Black and white • Product type :- Laser printers • Functions :- Print scan and copy • Output capacity :- Up to 250 Sheets • Media type and capacity, ADF :- 100 sheets • Display :- 4-Line LCD • Scan speed (normal, letter) :- Up to 30 ppm • Scan speed (normal, A4) :- Up to 30 ipm • Print speed black (normal, letter) :- Up to 23 ppm • Print speed black (normal, A3) :- Up to 12 ppm • Print speed black (normal, A4) :- Up to 23 ppm • Print speed duplex (A4) :- Up to 12 ipm • Print speed duplex (letter) :- Up to 12 ipm • First page out black (letter, ready) :- As fast as 8.7 sec • Multitasking supported :- Yes • Duty cycle (monthly, letter) :- Up to 50,000 pages per month • Print languages :- PCL5E, PCL6 • Paper trays, maximum :- 3 • Recommended monthly page volume :- 5000 • Duplex printing :- Plain, Mid-weight, Light, LaserJet, Colored, Preprinted, Recycled, • Automatic paper sensor :- No • Print colours :- Monochrome • Scan size (ADF), maximum :- 297 x 432 mm • Scan file format :- TIFF, JPEG, PDF, BMP • Color scanning :- Yes • Scan size, minimum :- 140 x 130 mm • Auto document feeder capacity :- Standard, 100 sheets • Weight :- 30 kg (includes supplies) • Package weight :- 37.4 kg • Control panel :- 4-Line LCD, 4 Quick-launch buttons • Scan Resolution, Hardware :- Up to 600 x 600 dpi • Enhanced scanning resolution :- Up to 4800 x 4800 dpi • Scan Resolution, Optical :- Up to 600 x 600 dpi • Memory :- 128 MB • Memory, maximum :- Memory (Onboard) Standard/Maximum :- 128 MB • Media sizes supported :- A3, A4, A5, B4, B5, Officio 216 x 340, 8K, 16K • Print quality black (normal) :- Up to 600 x 600 dpi • Print quality black (best) :- Optical :- 600 x 600 dpi; Optical :- 1200 x 1200 dpi • Maximum print area :- 297 x 914 mm • Scanner advanced features :- Scan to PC • Copier smart software features :- ID Copy, Book Copy, N-UP, Reduce/Enlarge • Standard Warranty: One Year • Paid Warranty for Extended 4 Years	01			
13	**Academic Section**				
13.1	**Laptop-I7** Make-HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support 1 RJ 45 1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed (Minimum 15 Test Completed) • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 4 Years Comprehensive Warranty including battery				
14	**General Administrative Centre**				
14.1	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10	03			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite Paid Warranty for Extended 2 Years				
14.2	**Laptop** Make- HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A	**01**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	, at least 1 USB Type C with Display & Charging Support 1 RJ 45 1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 2 Years Comprehensive Warranty including battery				
14.3	**UPS** 600 VA with 30 Min backup Make- Luminous/Microtek/Transtech/APC Standard Warranty	03			
15	**Knowledge Resource Centre**				
15.1	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller	10			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
15.2	**KVM Switch** for 4 Server x 1Monitor, Keyboard and mouse inter Connectivity	01			
16	**Physics**				
16.1	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor::-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices	10			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 4 Years				
17	**Chemical Technology**				
17.1	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications	**25**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 4 Years				
17.2	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download	03			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite Paid Warranty for Extended 2 Years				
17.3	**Multifunction Laserjet Printer** Make :- <u>Canon</u>/HP/Epson/Ricoh • Function Type :- All-in-One Printer • Scan Resolution :- Optical :- Up to 600x600 dpi • Driver Enhanced :- Up to 9600x9600 dpi • Paper Output :- 100 sheets (face down) (Based on 68 g/m²) • Memory :- 512 MB • Size :- Standard Cassette :- A4, B5, A5, Legal, Letter, Statement • Multi-Purpose Tray :- A4, B5, A5, Legal, Letter, Statement • Copy Speed :- 27 ppm (A4) • First Print out Time :- 6.0 sec (FPOT) A4 • Reduce / Enlargement :- 25 – 400% in 1% increments • Includes :- Software :- Printer driver, Scanner driver, MF Scan Utility, Toner Status • Paper Handling Details :- Auto Document Feeder (ADF) :- 35 sheets (80 g/m²) • Available Paper Size for ADF :- A4, B5, A5, B6, Letter, Legal (Min. 105 x 148mm to Max. 216 x 356mm) • Operating System :- Windows 10 (32 / 64-bit), • Windows 8.1 (32 / 64-bit), Windows 8 (32 / 64-bit), • Windows 7 (32 / 64-bit), Windows Vista (32 / 64-bit), • Paper Input :- Standard Cassette :- 250 sheets • Multi-Purpose Tray :- 1 sheet • Copy Resolution :- 600x600 dpi • Print Language :- UFR II LT, PCL 6 • Print Speed :- 27 ppm (A4) • Print Resolution :- 600x600 dpi • Functions :- Print, Scan, Copy & Fax • ADF (A4) :- 20 / 15ipm (mono / colour) • Colour Depth :- 24-bit • Duty Cycle :- 15000 pages • Wireless :- Wi-Fi 802.11b/g/n • Display :- 5 Line BW LCD • Warranty :- 1 Year Warranty • Paid Warranty for Extended 4 Years	03			
17.4	**Color LaserJet Printer** Make:- HP/Canon/Epson/Ricoh Print and Wireless • Black (normal, A4): Up to 21 ppm; Colour (normal, A4): Up to 21 ppm • First page out (A4, ready): As fast as 10.5/12.2 seconds ; (A4, sleep): As fast as 12.1/12.4 seconds(Black/Color) • Duty cycle: Up to 40,000 pages • RMPV 150 to 2,500 pages • Hi-Speed USB 2.0 port; built-in Fast Ethernet 10/100Base-TX network port; 802.11n 2.4/5GHz wireless; Walkup host USB port • ePrint; Apple AirPrintTM; Mobile Apps; Wi-Fi® Direct printing; Google Cloud PrintTM, MopriaTM-certified • Auto-On/Auto-Off technology 1 year onsite warranty Paid Warranty for Extended 4 Years	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
18	**Home Science**				
18.1	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 4 Years	**05**			
18.2	**LAN Switch** Manageable 24 Port Switch (HP/Cisco/Dlink or better make)	01			
18.3	**UPS Online** Make- Luminous/Microtek/Transtek UPS 3KVA online half hour backup with 26AH,12V,	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	8SMF batteries **Standard Warranty**				
18.4	**External USB Hard Disk** Sony/Toshiba/Samsung/Transend 1TB Hard Disk Drive	02			
18.5	**WORK STATION TOWER Z2** Make- HP/Dell/Lenovo 6HH35PA: Intel XeonE-2124G 4C,RAM 16GB (1x16GB) DDR4 2666 UDIMM NECC, HDD 2TB 7200RPM SATA 3.5in,GFX Nvd Qdr 4GB P1000 ,DVDRW, Win 10 Pro 64 WKST,3/3/3 SING Warranty , 22" HD Monitor **Key Features** •4C & 6C Intel® Core™ i7 to Intel® Xeon® •Windows 10 Pro 64/MSNA,Linux supported •Up to 128 GB* nECC/ECC memory • Sure Start Gen 43 • ISV Certification • Remote Graphics Software 4 • Performance Advisor • Premium front I/O option (SD card and USB 3.1 Type-C™) • 8x USB 3.0, with one charging port • Muscular new smaller ID gen over gen • Entry cost design • Front and rear shelf for gripping • Easy access Dust filter option Standard Warranty	01			
19	**Microbiology**				
19.1	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
19.2	**Multifunction LaserJet Printer** Make:- HP/Canon/Epson/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n)^ • 88X Black Toner- 1,500 pages 1 year onsite warranty Paid Warranty for Extended 4 Years	01			
19.3	**Laptop-I7** Make- HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support 1 RJ 45 1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot	**01**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Extended Warranty:- 2 Year Comprehensive Warranty including battery • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed (Minimum 15 Test Completed) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
20	**Zoology**				
20.1	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat	**02**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	(APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI ,Display Ports, TCO 8.0 Certified with height adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 4 Years				
20.2	**Scanner** Flatbed with transparent material adopter, Size-455x304x70mm (17.91x11.97x2.76 inches) scanning element charged copied device, interface-USB High Speed, Hardware resolution:4800x9600 (Advanced) • Standard Warranty:- One Year • Paid Warranty for Extended 4 Years	02			
21	**P.G.T.D. of Physical Education**				
21.1	**Business Computer All in One** (Touch/Non Touch) Make- HP/Dell/Lenovo • Core i7-9700, 16GB DDR4 RAM, 1TB SSD, Win 10 Pro, DVD RW, 23.8" FHD IPS Display, 3 years Onsite warranty, Wireless Keyboard, Wireless Mouse • 23.8" Non-Touch, FHD IPS Widescreen WLED-backlit Antiglare, Narrow Bezel • DDR4 2666MHz RAM expandable upto 64GB, 2 SODIMM • Intel Q370 Chipset • Secure your sensitive information through Trusted Platform Module • World's most secure and manageable AiO • 2MP FHD low-light Camera • Dual facing pop-up IR camera • Bang & Olufsen Audio with up-firing speakers • Audio Boost for balanced loudness and clarity and improved speech quality • Reclining Stand • Extremely versatility: Standing, reclining or mounted • Hardened Fingerprint reader for multifactor authentication • Wifi6 (802.11ax) – 3x faster than 802.11a • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years	02			
21.2	**Multifunction LaserJet Printer** • Make:- Canon/HP/Epson/Ricoh • Function Type :- All-in-One Printer • Scan Resolution :- Optical :- Up to 600x600 dpi • Driver Enhanced :- Up to 9600x9600 dpi • Paper Output :- 100 sheets (face down) (Based on 68 g/m²) • Memory :- 512 MB • Size :- Standard Cassette :- A4, B5, A5, Legal, Letter, Statement • Multi-Purpose Tray :- A4, B5, A5, Legal, Letter, Statement • Copy Speed :- 27 ppm (A4) • First Print out Time :- 6.0 sec (FPOT) A4 • Reduce / Enlargement :- 25 – 400% in 1% increments • Includes :- Software :- Printer driver, Scanner driver,	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	MF Scan Utility, Toner Status • Paper Handling Details :- Auto Document Feeder (ADF) :- 35 sheets (80 g/m²) • Available Paper Size for ADF :- A4, B5, A5, B6, Letter, Legal (Min. 105 x 148mm to Max. 216 x 356mm) • Operating System :- Windows 10 (32 / 64-bit), • Windows 8.1 (32 / 64-bit), Windows 8 (32 / 64-bit), • Windows 7 (32 / 64-bit), Windows Vista (32 / 64-bit), • Paper Input :- Standard Cassette :- 250 sheets • Multi-Purpose Tray :- 1 sheet • Copy Resolution :- 600x600 dpi • Print Language :- UFR II LT, PCL 6 • Print Speed :- 27 ppm (A4) • Print Resolution :- 600x600 dpi • Functions :- Print, Scan, Copy & Fax • ADF (A4) :- 20 / 15ipm (mono / colour) • Colour Depth :- 24-bit • Duty Cycle :- 15000 pages • Wireless :- Wi-Fi 802.11b/g/n • Display :- 5 Line BW LCD • Warranty :- 1 Year Warranty • Paid Warranty for Extended 4 Years				
21.3	**LaserJet Pro Printer** Make- HP/Epson/Canon/Ricoh Black (A4, normal): Up to 25 ppm; Black (letter, normal): Up to 26 ppm • Black (A4, ready): As fast as 8 sec • Duty Cycle: Up to 30,000 pages • RMPV: 250 to 2000 • 1 Hi-Speed USB 2.0; 1 Ethernet 10/100; Wi Fi 802.11b/g/n • ePrint; Wireless Direct Printing 1 year onsite warranty • Paid Warranty for Extended 4 Years	02			
21.4	**All-in-One PC** **Make- HP/Dell/Lenovo** • Display:--19.5" FHD with slim DVD RW Resolution:-- 1920 X 1080 Brightness:-- 250Nits FHD Webcam with integrated digital microphone • Power Supply :-- External 120W power adaptor with 89% Efficiency • Chipset:--Intel® Q470 Chipset • Processor:-- Intel 10th Generation Core i5 10500 Processor 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:--8GB DDR4-upto 2933Mhz* Memory expandability up to 64 GB with 2 DIMM Slots Transfer rate:-- 2666Mhz – Core i5 • Internal Storage:--1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID Supports upo 1TB M.2 NVME SSD • Graphics:-- 2GB Discrete Graphics card (AMD Radeon 530 – 2GB) Audio:--Integrated audio controller with internal speaker of atleast 2W • Operating System:--Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Connectivity:--Integrated Intel Gigabit 10/100/1000 Ethernet Controller Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Side I/O Ports:--1 Audio Combo Jack, 1USB 3.2 G2 Type-C, 1USB 3.2 G2 Type-A • Rear I/O Ports:--1Display Port, 4USB 3.2 G1 Type-A	06			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	1 SD Card reader (Bottom) • Keyboard:--USB Wired Keyboard, • Mouse:--USB Optical Wired Mouse • Power Supply:--180 W with 92% efficiency or better • Security:-- Hardware based endpoint security controller TPM 2.0 Secure Erase Drive lock option for HDD to secure Data Cable lock support Client Security Manager • Manageability:--Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system &Drivers should be available on OEM Website for download • Certifications:--Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT Gold India, Energy Star ISO 9001,14001,20001,27001 for OEM • Standard Warranty:--3 Years onsite • Paid Warranty for Extended 2 Years				
21.5	**1200 Mbps Wireless** Smart Dual-Band Gigabit WiFi Router	02			
22	**History**				
22.1	**Multifunction LaserJet Printer** Make:- HP/Canon/Epson/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/ device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n)^ • 88X Black Toner- 1,500 pages 1 year onsite warranty Paid Warranty for Extended 4 Years	01			
22.2	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06

	• USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2
	• Slots:-1 PCI Express v3.0 x1
	  1 PCI Express v3.0 x16
	  2 M.2
	• Integrated 5-in-1 SD card reader, 3 SATA Ports
	• Bays:-2 Internal , 1 Externa bay
	• Keyboard:-USB Wired Keyboard,
	• Mouse:-USB Optical Wired Mouse
	• Power Supply:-180 W with 92% efficiency or better
	• Volume:-No More than 8 L
	• Security:-Hardware based endpoint security controller TPM 2.0
	  Integrated Intrusion Sensor
	  Support for chassis cable lock devices & Support for chassis padlocks devices
	  Drive lock option for HDD to secure Data
	  Integrated protection from malware that lurks on malicious websites
	  Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications
	• Manageability:-Out of band Management independent of the operating system state and power state of PC
	  Integrated utility to enables hardware level testing outside the operating system &
	  Drivers should be available on OEM Website for download
	• Certifications:-Microsoft Windows 10
	  FCC,CE, RoHS, UL, EPEAT, Energy Star
	  ISO 9001,14001,20001,27001 for OEM
	• Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified
	  with heigh adjustment stand (Same OEM as desktop)
	• Standard Warranty:-3 Years onsite
	• Paid Warranty for Extended 2 Years				

22.3	**LaserJet Pro Printer** Make:- HP/Canon/Epson/Ricoh Black (A4, normal): Up to 25 ppm; Black (letter, normal): Up to 26 ppm • Black (A4, ready): As fast as 8 sec • Duty Cycle: Up to 30,000 pages • RMPV: 250 to 2000 • 1 Hi-Speed USB 2.0; 1 Ethernet 10/100; Wi Fi 802.11b/g/n • ePrint; Wireless Direct Printing 1 year onsite warranty • Paid Warranty for Extended 4 Years	01			
23	**Political Science**				

23.1	**Desktop Computer with i5 Processor**
	 Make- HP/Dell/Lenovo
	• Form Factor:- Small Form Factor
	• Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal)
	• Chipset:-Commercial Class Intel® Q470 Chipset
	• Processor:- Intel 10th Generation Core i5 10500 Processor /
	  12 MB cache, 6 cores, 12 threads
	  Should Supports Intel® vPro Technology
	• Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots
	• Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent
	  Should capable to Support RAID
	• Graphics:-Intel® UHD Graphics 630
	• Audio:-Integrated audio controller with internal speaker of atleast 2W
	• Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery
		01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
23.2	External USB Hard Disk- **1 TB** **Make-HP/Toshiba/Transend**	01			
24	**Commerce deptt**				
24.1	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000	**10**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite Paid Warranty for Extended 2 Years				
24.2	**Laptop-I5** Make- HP/Dell/Lenovo • Processor:- Latest 11th generation Intel Core i5-1135 processor / • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support 1 RJ 45	**01**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 2 Years Comprehensive Warranty including battery				
24.3	**LaserJet Pro Printer** Make:- HP/Canon/Epson/Ricoh Black (A4, normal): Up to 25 ppm; Black (letter, normal): Up to 26 ppm • Black (A4, ready): As fast as 8 sec • Duty Cycle: Up to 30,000 pages • RMPV: 250 to 2000 • 1 Hi-Speed USB 2.0; 1 Ethernet 10/100; Wi Fi 802.11b/g/n • ePrint; Wireless Direct Printing 1 year onsite warranty Paid Warranty for Extended 4 Years	01			
25	**Marathi**				
25.1	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite Paid Warranty for Extended 4 Years				
25.2	**LaserJet Pro** Make:- HP/Canon/Epson/Ricoh Print, Scan, Copy, Fax & Wireless Prints up to 25/26 ppm (Normal), A4/letter1 • 600 MHz processor with 256MB RAM • Duty Cycle up to 15,000 page per month • RMPV: Up to 500 to 2,000 pages2 • 600 x 600 dpi print resolution • Hi-Speed USB 2.0 port (host/ device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out); WiFi 802.11b/g/n)^ • 88X Black Toner- 1,500 pages 1 year onsite warranty • Paid Warranty for Extended 4 Years	02			
25.3	**External USB Hard Disk** **Make-HP/Toshiba/Transend** External Hard Disk 2 TB\	01			
26	**Sociology**				
26.1	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal	**05**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite Paid Warranty for Extended 2 Years				
26.2	**LaserJet Pro Printer** Make:- HP/Canon/Epson/Ricoh Black (A4, normal): Up to 25 ppm; Black (letter, normal): Up to 26 ppm • Black (A4, ready): As fast as 8 sec • Duty Cycle: Up to 30,000 pages • RMPV: 250 to 2000 • 1 Hi-Speed USB 2.0; 1 Ethernet 10/100; Wi Fi 802.11b/g/n • ePrint; Wireless Direct Printing 1 year onsite warranty • Extender Warranty: 4 Years	03			
27	**English**				
27.1	**Color LaserJet Printer** Make:- HP/Canon/Epson/Ricoh Print and Wireless • Black (normal, A4): Up to 21 ppm; Colour (normal, A4): Up to 21 ppm • First page out (A4, ready): As fast as 10.5/12.2 seconds ; (A4, sleep): As fast as 12.1/12.4 seconds(Black/Color) • Duty cycle: Up to 40,000 pages • RMPV 150 to 2,500 pages • Hi-Speed USB 2.0 port; built-in Fast Ethernet	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	10/100Base-TX network port; 802.11n 2.4/5GHz wireless; Walkup host USB port • ePrint; Apple AirPrintTM; Mobile Apps; Wi-Fi® Direct printing; Google Cloud PrintTM, MopriaTM-certified • Auto-On/Auto-Off technology 1 year onsite warranty Paid Warranty for Extended 4 Years				
27.2	**Desktop Computer with i3 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i3 10300 Processor / • 8 MB cache, 4 cores, 8 threads Should Supports Intel® vPro Technology • Memory:- 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • -USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop)	**06**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	• Standard Warranty:-3 Years onsite • Standard Warranty:-2 Years onsite				
28	**Lib. & Info Science**				
28.1	**Laptop-I7** Make- HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support 1 RJ 45 1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 2 Years Comprehensive Warranty including battery	01			
28.2	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or	10			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
28.3	**LaserJet Pro Printer** Make:- HP/Canon/Epson/Ricoh Black (A4, normal): Up to 25 ppm; Black (letter, normal): Up to 26 ppm • Black (A4, ready): As fast as 8 sec • Duty Cycle: Up to 30,000 pages • RMPV: 250 to 2000 • 1 Hi-Speed USB 2.0; 1 Ethernet 10/100; Wi Fi 802.11b/g/n • ePrint; Wireless Direct Printing • Standard Warranty:-1 Years onsite • Paid Warranty for Extended 4 Years	02			
28.4	**Scanner** **Book Scanner** **Make:- HP/Canon/Fujistu/Ricoh** • Scanner Type :- Overhead, Simplex • Scanning Speed (1) (A3 Landscape) :- Auto mode (2) :- 3 seconds / page • :- Normal mode :- 3 seconds / page (3) (Color / Grayscale :- 150 dpi, Monochrome :- 300 dpi) • :- Better mode :- 3 seconds / page (3) (Color /	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	Grayscale :- 200 dpi, Monochrome :- 400 dpi) • :- Best mode :- 3 seconds / page (3) (Color / Grayscale :- 300 dpi, Monochrome :- 600 dpi) • :- Excellent mode :- 3 seconds / page (3) (Color / Grayscale :- 600 dpi, Monochrome :- 1,200 dpi) • Scanning Color Mode :- Color, Grayscale, Monochrome, Automatic (Color / Grayscale / Monochrome detection) • Image Sensor :- Lens reduction optics / Color CCD x 1 • Light Source :- (White LED + Lens illumination) x 2 • Optical Resolution :- 285 to 218 dpi (Horizontal scanning), 283 to 152 dpi (Vertical scanning) (4) • Document Size :- Maximum :- 432 x 300 mm (17.0 x 11.8 in.) • :- Minimum :- 25.4 x 25.4 mm (1 x 1 in.) (5) • Paper Weight (Thickness) :- 30 mm (1.18 in.) or less • Interface (6) :- USB2.0 / USB1.1 (Connector Type :- Type-B) • Power Requirements :- AC 100 to 240 V, 50/60 Hz • Power Consumption :- Operating Mode :- 20 W or less • :- Sleep Mode :- 2.6 W or less • :- Auto Standby (Off) Mode :- 0.4 W or less • Operating Environment :- Temperature :- 5 to 35 °C (41 to 95 °F) • :- Relative Humidity :- 20 to 80% (Non-condensing) • Environmental Compliance :- ENERGY STAR®, RoHS • Dimensions (W x D x H) :- 210 x 156 x 383 mm (8.27 × 6.14 × 15.08 in.) • Weight :- 3 kg (6.62 lb) • Driver :- Scan Snap specific driver Windows® :- Does not support TWAIN / ISIS® macOS :- Does not support TWAIN • Software (7) :- Scan Snap Home (all-in-one document management software/driver) Scan Snap Manager • (Conventional driver) Kofax Power PDF Standard (Windows) Kofax Power PDF Standard for Mac (Mac) ABBYY FineReader for Scan Snap™ • Image Processing Functions :- Deskew by text on document, Automatic size detection, Automatic rotation, Automatic color detection, Book image correction (8), Multiple document detection (9) • Included Items :- AC cable, AC adapter, USB cable, Safety Precautions, Background Pad, Extenders (x2) • Standard Warranty:-1 Years onsite • Paid Warranty for Extended 4 Years				
28.5	**Online UPS** Make-Luminous/Microtek/Transtech 5KVA with 30 Min. Backup with SMF Batteries • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Extended Warranty:- 2 Year Comprehensive Warranty including battery	01			
28.6	Switch 24 port internet hub	01			
28.7	Speakers (Multimedia)	03			
29	**Applied Electronics**				
29.1	**Desktop Computer** Make- HP/Dell/Lenovo • Windows 10 Pro 64 • Processor Name :-Intel® Core™ i9-9900 with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 5 GHz with Intel® Turbo Boost Technology, 16 MB cache, 8 cores) • Processor footnote:- [6] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will	03			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance. • [7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information. • Processor family:- 9th Generation Intel® Core™ i9 processor (i9-9900) • Chipset Intel® Q370 (vPro); Intel® Q370 (non-vPro) • Form factor:- Tower • Memory:-8 GB DDR4-2666 SDRAM (1 X 8 GB) • Memory slots:- 4 DIMM • STORAGE • Hard drive description:- 2 TB 7200 rpm SATA • Storage type :- HDD • Optical drive:-9.5 mm Slim DVD-Writer • External drive bays:-One 9.5 mm slim ODD • Internal drive bays:-One 3.5" HDD • Graphics:-AMD Radeon™ R7 430 Graphics (2 GB DDR4 dedicated) • Graphic card footnote 2 [18]:-AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated, 64bit DP+VGA) not available in all regions. • [21] AMD Radeon™ RX 580, NVIDIA® GeForce® GTX 2060, NVIDIA® GeForce® GTX 2070, NVIDIA® GeForce® GTX 2080 require 500W chassis. • EXPANSION FEATURES • I/O Port location:- Rear • Ports 1 audio-in; 1 audio-out; 1 power connector; 1 RJ-45; 2 DisplayPort™ 1.2; 2 SuperSpeed USB 10Gbps signaling rate; 2 SuperSpeed USB 5Gbps signaling rate; 2 USB 2.0 • I/O Port location :-Front • Ports 1 headphone; 1 headset connector; 1 SuperSpeed USB Type-C® 10Gbps signaling rate (charging); 1 USB 2.0; 1 USB 2.0 (fast charging); 2 SuperSpeed USB 10Gbps signaling rate • I/O Port location • Optional Ports:- 1 HDMI • External I/O ports footnote:- [19] The TWR can support a single graphics card up to 75W. When configured with dual graphics cards support is limited to 35W for each. • Expansion slots 1 M.2 2230; 1 PCIe 3.0 x16; 1 PCIe 3.0 x16 (wired as x4); 2 M.2 2230/2280; 2 PCIe 3.0 x1 • MEDIA DEVICES • Audio Conexant :- CX20632 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable • INPUT DEVICES • Pointing device USB:-Wired Optical Mouse • Keyboard:- USB Wired Keyboard • COMMUNICATIONS • Network interface type LAN • Network interface :- Integrated Intel® I219LM GbE LOM; Intel® I210-T1 PCIe® GbE • Standard Warranty:--3 Years onsite • Paid Warranty for Extended 2 Years				
29.2	**All in one Computer System**, Make- HP/Dell/Lenovo • Core i7, 10th Generation • OPERATING SYSTEM • Windows 10 Home 64 • PROCESSOR	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Intel® Core™ i7-10510U (1.8 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) • GRAPHICS: Integrated: Intel® UHD Graphics • DISPLAY: 27" diagonal FHD IPS anti-glare WLED-backlit three-sided micro-edge touch screen, 250 nits, 72% NTSC (1920 x 1080) • MEMORY: 16 GB DDR4-2666 SDRAM (2 x 8 GB) • STORAGE: 1 TB 7200 rpm SATA HDD • SECONDARY STORAGE: 512 GB PCIe® NVMe™ M.2 SSD • MEMORY CARD DEVICE: 3-in-1 memory card reader • NETWORK INTERFACE: Integrated 10/100/1000 Gigabit Ethernet LAN • WIRELESS TECHNOLOGY: Realtek Wi-Fi 5 (2x2) and Bluetooth® 5 Combo • POWER SUPPLY: 65 W Smart AC power adapter • EXTERNAL I/O PORTS • Side:1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps (Battery Charging 1.2) • Rear:2 USB 2.0; 2 SuperSpeed USB Type-A 5Gbps signaling rate • EXPANSION SLOTS 2 M.2 • VIDEO CONNECTOR 1 HDMI-out 1.4 • WEBCAM: Wide vision FHD IR privacy camera with integrated dual array digital microphone [8] • AUDIO Internal Speaker • POINTING DEVICE: USB white wired optical mouse • KEYBOARD: USB White wired keyboard and mouse combo • Standard Warranty:--3 Years onsite • Paid Warranty for Extended 2 Years				
29.3	**Laptop Pro book** Make- HP/Dell/Lenovo • SYSTEM FEATURES • Operating system: Windows 10 Pro 64 • Processor Name: Intel® Core™ i7-10510U processor with Intel® UHD Graphics 620 (1.8 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) • Form factor: Standard laptop • MEMORY • Memory: 8 GB DDR4-2666 SDRAM (1 x 8 GB) • Memory slots : 2 SODIMM • Standard memory note: Transfer rates up to 2666 MT/s. • STORAGE: Hard drive description 512 GB PCIe® NVMe™ M.2 SSD • Storage type: SSD • DISPLAY AND GRAPHICS: Display 35.56 cm(14) diagonal FHD IPS anti-glare WLED-backlit, 220 nits, 45% NTSC (1920 x 1080) • Touch-enabled display and Sure View privacy panel will lower actual brightness. • Graphics: Intel® UHD Graphics 620 • EXPANSION FEATURES • Ports: 1 USB 3.1 Type-C™ Gen 1 (Power delivery, DisplayPort™); 2 USB 3.1 Gen 1; 1 HDMI 1.4b; 1 RJ-45; 1 headphone/microphone combo; 1 AC power; 1 USB 2.0 (powered port) • Expansion slots: 1 SD • Audio features Stereo speakers, integrated microphone (mono or dual array) • Camera : HD camera • INPUT DEVICES • Pointing device:- Click pad with multi-touch gesture support • Keyboard :-Premium Spill-resistant Backlit Keyboard • COMMUNICATIONS	05			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Network interface : Realtek 10/100/1000 GbE NIC • Wireless: Intel® AX201 Wi-Fi 6 (2x2) and Bluetooth® 5 Combo, non-vPro™ • Wireless note MU-MIMO supported • POWER AND OPERATING REQUIREMENTS • Power: Smart 65 W EM External AC power adapter • Power supply footnote [30] Availability may vary by country. • Battery type: Long Life 3-cell, 45 Wh Li-ion • Battery life note: Battery is internal and not replaceable by customer. Serviceable by warranty. • Energy Efficiency Compliance ENERGY STAR® certified • Environmental Low halogen; TCO 5.0 Certified • Standard Warranty:--3 Years onsite • Paid Warranty for Extended 2 Years				
29.4	**Multifunction LaserJet Printer** Make- HP/Epson/Canon/Ricoh Print speed, black :- 31 – 40 Color output :- Black and white Product type :- Laser printer Functions :- Print scan copy and fax Output capacity :- Up to 150 sheets Media type and capacity, ADF :- Sheets :- 50 uncurled Paper handling input, standard :- 100-sheet tray 1, 250-sheet input tray 2; 50-sheet Automatic Document Feeder (ADF) Paper handling input, optional :- Optional third 550-sheet tray Input capacity :- Up to 350 sheets (Tray 1 :- up to 100 sheets; Tray 2 :- up to 250 sheets) Paper handling output, standard :- 150-sheet output bin Standard output capacity (envelopes) :- Up to 10 envelopes Maximum input capacity (sheets) :- Up to 900 sheets (with Optional 550-sheet tray) Display :- 2.7" (6.86 cm) intuitive color touchscreen (CGD) Display area (metric) :- 5.4 x 4.05 cm Scan speed duplex (normal, A4) :- Up to 46 ppm (b&w), up to 34 ppm (color) Number of print cartridges :- 1 (black) Supplies feature :- Jet Intelligence Cartridge Print speed black (normal, A4) :- Up to 38 ppm Print speed duplex (A4) :- Up to 31 ppm Digital sending standard features :- Scan to email with LDAP email address lookup, Scan to network folder, Scan to USB, Scan to Microsoft SharePoint®, Scan to computer with software, Fax archive to network folder, Fax archive to email, Fax to computer, Enable/disable fax, Quick Sets Storage device and direct print support :- USB Printing; Optional job storage via external rear host USB port (Minimum 16GB) Duty cycle (monthly, letter) :- Up to 80,000 pages Functions :- Print, Copy, Scan, Fax, Email Print languages :- PCL 6, PCL 5c, postscript level 3 emulation, PDF, URF, Native Office, PWG Raster Paper trays, maximum :- 3 Duty cycle (monthly, A4) :- Up to 80,000 pages Paper trays, standard :- 2 Recommended monthly page volume :- 750 to 4000 Print technology :- Laser Duplex printing :- Automatic (default) Top key features :- Scan to email/PDF; Two-sided scanning; 50-sheet ADF; Energy Efficient; Scan to Cloud/email Target user and print volume :- For teams up to 10 users; Prints up to 4,000 pages/month Scan size (ADF), maximum :- 216 x 356 mm	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	• Scan file format :- PDF, JPG, TIFF • Color scanning :- Yes • Scanner type :- Flatbed, ADF • Scan input modes :- Front-panel scan, copy, email, or file buttons; • Scan size ADF (minimum) :- 102 x 152 mm • Bit Depth :- 24-bit • Twain version :- Version 2.3 • Duplex ADF scanning :- Yes • Native scan file format :- PDF; JPG • Scan technology :- Contact Image Sensor (CIS) • Wireless capability :- Yes, built-in dual-band Wi-Fi; Authentication via WEP, • WPA/WPA2, WPA Enterprise; Encryption via AES or TKIP; WPS; Wi-Fi Direct; • Bluetooth Low-Energy • Mobile printing capability :- Apple AirPrint™; Google Cloud Print™; Print; Smart App; • Network protocols, supported :- TCP/IP, Ipv4, Ipv6; Print :- TCP-IP port 9100 Direct Mode, LPD (raw queue support only), • Web Services Printing, ePrint, Apple AirPrint™, Google Cloud Print 2.0, Mopria, IPP Print; • Discovery :- SLP, Bonjour, Web Services Discovery; IP Config :- Ipv4 (BootP, DHCP, AutoIP, Manual), • Ipv6 (Stateless Link-Local and via Router, Statefull via DHCPv6), SSL Security and Certificate management; • Auto redial :- Yes • Fax memory :- Up to 400 pages • Fax forwarding :- Yes • Faxing :- Yes • Auto fax reduction supported :- Yes • Fax memory :- Up to 400 pages • Control panel :- 2.7" Color Touchscreen • Processor speed :- 1200 MHz • Scan Resolution, Hardware :- Flatbed (Up to 1200 x 1200 dpi); ADF (Up to 300 x 300 dpi) • Enhanced scanning resolution :- Up to 1200 x 1200 dpi • Scan Resolution, Optical :- Up to 1200 x 1200 dpi • Memory :- 512 MB • Memory, maximum :- 512 MB • Media sizes supported :- Tray 1 :- A4; A5; A6; B5 (JIS); Oficio (216 x 340 mm); • 16K (195 x 270 mm); 16K (184 x 260 mm); 16K (197 x 273 mm); Japanese Postcard; • Standard Warranty:-1 Years onsite • Standard Warranty:-4 Years onsite				
29.5	**Server** Make- HP/IBM/Dell • Form Factor 4U Tower Model • Gen10 Server • Processor Intel Xeon-Bronze 3204 (6-Core, 1.9 GHz, 85W) • Memory 1x8 GB RDIMM SR 2933 MT/s • Hard Disk Drive 4 LFF(3.5inch) Non Hot Plug Open Bay • 3 X 1TB SATA 7.2K LFF RW HDD • Gen10 Slimline ODD Bay Kit • RAID Smart Array S100i SR Gen10 Software RAID 0,1,5,10 • Optical Drive 9.5mm SATA DVD-RW Optical Drive • Power Supply 1x 500W • Standard Non-Hot-Plug/non-RPS Power Supply • Smart Array E208i-a SR Gen10 Ctrlr • Network Controller Embedded 4-Port 1GbE Ethernet 1Gb 4-port 369i Adapter • Management iLO Standard with Intelligent Provisioning (embedded) • Ms Ws19 (16-Core) edu std ROK en sW With CAL • Monitor : 18.5" LED	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	‣ Warranty 3/3/3 (Part/Labor/On-Site) ‣ Paid Warranty for Extended 2 Years (Part/Labor/On-Site)				
29.6	**Online UPS** Make- Luminous/Transtech/Microtek 5 KVA Online UPS **With Half hour backup** **With SMF Batteries**	**01**			
30	**Botany**				
30.1	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified	**09**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
30.2	**Business Computer All in One** (Touch/Non Touch) Make- HP/Dell/Lenovo • Core i7-9700, 16GB DDR4 RAM, 1TB SSD, Win 10 Pro, DVD RW, 23.8" FHD IPS Display, 3 years Onsite warranty, Wireless Keyboard, Wireless Mouse • 23.8" Non-Touch, FHD IPS Widescreen WLED-backlit Antiglare, Narrow Bezel • DDR4 2666MHz RAM expandable upto 64GB, 2 SODIMM • Intel Q370 Chipset • Secure your sensitive information through Trusted Platform Module • World's most secure and manageable AiO • 2MP FHD low-light Camera • Dual facing pop-up IR camera • Bang & Olufsen Audio with up-firing speakers • Audio Boost for balanced loudness and clarity and improved speech quality • Reclining Stand • Extremely versatility: Standing, reclining or mounted • Hardened Fingerprint reader for multifactor authentication • Wifi6 (802.11ax) – 3x faster than 802.11a • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years	01			
30.3	**LaserJet Printer** Make- HP/Canon/Epson/Ricoh Print, Scan, Copy • Prints up to14 ppm1 (ISO) – A4 print & copy • Duty Cycle up to 5,000 pages per month • RMPV: Up to 250 to 2,000 pages2 • 600 x 600 dpi print resolution • 230 MHz with 32MB RAM • Hi-speed USB 2.0 port • 12X Black Original LaserJet Toner- 2000 pages • 1 year RTB warranty • Paid Warranty for Extended 4 Years	02			
31	P.G.T.D. of MED				
31.1	**Desktop Computer with i7 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i7 10700 Processor with 3.1 GHz base frequency 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD /SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery	03			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	• Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
31,2	**Business Computer All in One** (Non Touch/Touch) Make- HP/Dell/Lenovo • Core i7-9700, 16GB DDR4 RAM, 1TB SSD, Win 10 Pro, DVD RW, 23.8" FHD IPS Display, 3 years Onsite warranty, Wireless Keyboard, Wireless Mouse • 23.8" Non-Touch, FHD IPS Widescreen WLED-backlit Antiglare, Narrow Bezel • DDR4 2666MHz RAM expandable upto 64GB, 2 SODIMM • Intel Q370 Chipset • Secure your sensitive information through Trusted Platform Module • World's most secure and manageable AiO • 2MP FHD low-light Camera • Dual facing pop-up IR camera • Bang & Olufsen Audio with up-firing speakers • Audio Boost for balanced loudness and clarity and improved speech quality • Reclining Stand • Extremely versatility: Standing, reclining or mounted • Hardened Fingerprint reader for multifactor authentication • Wifi6 (802.11ax) – 3x faster than 802.11a • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years	03			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
31.3	**Laptop with I7 Processor** Make- HP/Dell/Lenovo SYSTEM FEATURES • Operating system:Windows 10 Home 64 • Processor Name:Intel® Core™ i7-1165G7 (up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores) • Processor family:11th Generation Intel® Core™ i7 processor • Chipset:Intel® Integrated SoC • Form factor:Convertible • MEMORY • Memory:8 GB DDR4-3200 SDRAM (2 x 4 GB) • Memory Note:Transfer rates up to 3200 MT/s. • STORAGE • Hard drive description:512 GB PCIe® NVMe™ M.2 SSD • Storage type:SSD • Optical drive:Optical drive not included • Cloud service:Dropbox • DISPLAY AND GRAPHICS • Display:35.6 cm (14") diagonal, FHD (1920 x 1080), multitouch-enabled, IPS, edge-to-edge glass, micro-edge, 250 nits, 45% NTSC • Graphics:Intel® Iris® Xe Graphics • EXPANSION FEATURES • Ports:1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 HDMI 2.0; 1 AC smart pin; 1 headphone/microphone combo • Expansion slots:1 multi-format SD media card reader • MEDIA DEVICES • Audio features:Audio by B&O; Dual speakers; • Webcam: Wide Vision 720p HD camera with integrated dual array digital microphones • Sensors:Accelerometer; Gyroscope; eCompass • INPUT DEVICES • Pointing device: Imagepad with multi-touch gesture support; Precision Touchpad Support • Keyboard:Full-size, backlit, natural silver keyboard • COMMUNICATIONS • Wireless:Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo (Supporting Gigabit file transfer speeds) • Wireless note:Miracast compatible; MU-MIMO supported • POWER AND OPERATING REQUIREMENTS • Power supply type:65 W Smart AC power adapter • Battery type:3-cell, 43 Wh Li-ion polymer • Battery weight:185 g • Energy Efficiency Compliance:ENERGY STAR® certified; EPEAT® Silver registered • DIMENSIONS AND WEIGHT • Dimensions without stand (W x D x H):32.4 x 22.1 x 1.87 cm • Dimension note (metric):Dimensions vary by configuration • Package dimensions (W x D x H):6.9 x 48.3 x 30.5 cm • Weight:1.61 kg • Weight note (metric):Weight varies by configuration • Package weight:2.03 kg • DESIGN • Product color:Natural silver cover and base, natural silver aluminum keyboard frame • Product design:Paint finish cover and base, anodized keyboard frame • SOFTWARE • Pre-installed software:Netflix • Software - Productivity & finance:Microsoft Office • Standard Warranty:- 3 Year Comprehensive	02			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	Warranty including battery • Extended Warranty:- 2 Year Comprehensive Warranty including battery				
31.4	**Laserjet Printer** Make- HP/Epson/Canon/Ricoh • Product Line :- LaserJet Ultra • Print Technology :- LaserJet • Functions :- Print, Copy, Scan • Multitasking supported :- Yes • Page Size :- A4 • Print speed black :- Normal :- Up to 28 ppm • First Page Out (ready) :- Black :- As fast as 6.7 sec • Duty cycle (monthly, A4) :- Up to 40,000 pages • Print quality black (best) :- Up to 1200 x 1200 dpi • Print languages :- PCL5c PCL6 PS PCLmS PDF URF PWG • Display :- 2-line LCD • Processor speed :- 800 MHz • Automatic paper sensor :- No • ePrint capability :- Yes • Wireless capability :- No • Connectivity, standard :- 1 Hi-Speed USB 2.0, 1Ethernet 10/100network • Network ready :- Standard (built-in Ethernet) • Memory, standard :- 256 MB • Maximum memory :- 256 MB • Duplex printing :- Automatic • Scanner type :- ADF, flatbed • Scan resolution, optical :- Up to 300 dpi (color and mono, ADF) Up to 1200 dpi (color and mono, flatbed) • Duplex ADF scanning :- No • Automatic document feeder capacity :- Standard, 35 sheets • File formats, supported :- JPG, RAW (BMP), PNG, TIFF, PDF • Scan input modes :- Scanning via LaserJet Software Scan or TWAIN-compliant or WIA-compliant software • Copy speed (normal) :- Black :- Up to 28 cpm • Copy resolution (black text) :- 600 x 600 dpi • Faxing :- No • Fax transmission speed :- No • Speed dials, maximum number :- No • Broadcast locations :- No • Power :- 110-volt input voltage :- 110 to 127 VAC (+/- 10%), 60 Hz/50 Hz, 5.9 A, 220-volt input voltage :- 220 to 240 VAC (+/- 10%), 60 Hz/50 Hz, 3.3 A • Package weight :- 14.4 kg • Cable included :- Yes, 1 USB, 1 USB PC to Printer • Warranty :- 1 year • On-Site Warranty :- Yes • Paid Warranty for Extended 4 Years	01			
31.5	**wireless keyboard & Mouse**	04			
32	**Incubation Centre**				
32.1	**Laptop -i7** Make- HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	• Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support 1 RJ 45 1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 2 Years Comprehensive Warranty including battery				
33	**Lifelong learning & extension**				
33.1	**Desktop Computer with i3 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i3 10300 Processor / • 8 MB cache, 4 cores, 8 threads Should Supports Intel® vPro Technology • Memory:- 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • -USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 • Gen 2 • Slots:-1 PCI Express v3.0 x1	**10**			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with height adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
33.2	**Laserjet Printer** Make- HP/Canon/Epson/Ricoh Product Line :- LaserJet Ultra Print Technology :- LaserJet Functions :- Print, Copy, Scan Multitasking supported :- Yes Page Size :- A4 Print speed black :- Normal :- Up to 28 ppm First Page Out (ready) :- Black :- As fast as 6.7 sec Duty cycle (monthly, A4) :- Up to 40,000 pages Print quality black (best) :- Up to 1200 x 1200 dpi Print languages :- PCL5c PCL6 PS PCLmS PDF URF PWG Display :- 2-line LCD Processor speed :- 800 MHz Automatic paper sensor :- No ePrint capability :- Yes Wireless capability :- No Connectivity, standard :- 1 Hi-Speed USB 2.0, 1Ethernet 10/100network Network ready :- Standard (built-in Ethernet) Memory, standard :- 256 MB Maximum memory :- 256 MB Duplex printing :- Automatic Scanner type :- ADF, flatbed Scan resolution, optical :- Up to 300 dpi (color and mono, ADF) Up to 1200 dpi (color and mono, flatbed) Duplex ADF scanning :- No Automatic document feeder capacity :- Standard, 35 sheets File formats, supported :- JPG, RAW (BMP), PNG, TIFF, PDF Scan input modes :- Scanning LaserJet Software Scan or TWAIN-compliant or WIA-compliant software Copy speed (normal) :- Black :- Up to 28 cpm Copy resolution (black text) :- 600 x 600 dpi Faxing :- No Fax transmission speed :- No Speed dials, maximum number :- No Broadcast locations :- No Power :- 110-volt input voltage :- 110 to 127 VAC (+/- 10%), 60 Hz/50 Hz, 5.9 A, 220-volt input voltage :- 220 to 240 VAC (+/- 10%), 60 Hz/50 Hz, 3.3 A Package weight :- 14.4 kg	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	Black LaserJet Toner Cartridge ~15,000 (5,000 x 3) pages LaserJet Imaging Drum ~23,000 pages Power cord USB cable (AP)Getting started guide Set up poster Support flyer Warranty documents (CN, Indo, AU, Mex, BR, AG) Cable included :- Yes, 1 USB, 1 USB PC to Printer Software included :- For Windows OS :- Standard Warranty :- 1 year On-Site Warranty :- Yes • Paid Warranty for Extended 4 Years				
34	**Board of Innovation, Incubation & Linkages**				
34.1	**Bilingual Typing Software** for Marathi/English/Hindi Make- **Shrilipi/ISM**	01			
35	**Board of Innovation & incubation**				
35.1	**Laptop** Make- HP/Dell/Lenovo • Processor:-Latest 11th generation Intel Core i7-1165 processor • Chipset:-System on Chip • Wireless:-Integrated wireless AX201 ax WiFi 6 + Bluetooth 5.0 • Memory:-8 GB DDR4 2666 MHz RAM expandable to 32 GB with 2 DIMM Slots , both slots customer replaceable . • Hard Disk Drive:-512 GB SSD • Graphics:-Discrete NVIDIA GeForce Graphics MX4XX of Higher with 2 GB Graphic Memory / Intel UHD Graphics • Display:-14" Full HD Display (1920 x 1080 resolution) with min. 500 Nits Brightness , must have Integrated Privacy Screen Guard. • Webcam:-720p HD webcam with Physical Privacy Cover, Dual microphone • Keyboard:-Spill Resistant & backlit keyboard with multi gesture support. • Finger Print Reader:-Integrated • Ethernet Interface:-Integrated Ethernet 10/100/1000 NIC , Native Ethernet Port , If adapter is provided the Speed must match that of PCIe compliant ethernet port. • Ports:-4 USB Ports (3x USB 3.1 Gen1 Type A , at least 1 USB Type C with Display & Charging Support 1 RJ 45 1 HDMI 1.4b 1 Headphone/Microphone Combo Jack • Integrated Media Card Reader:-1 multi-format digital media reader supporting SD, SDHC, SDXC cards • Weight:-not more than 1.4 Kgs with battery • Security:-Hardware TPM 2.0, Security Lock Slot • Speaker / Microphones:-Integrated 2 stereo speakers; HD audio Integrated Dual microphone • Battery:-Internal battery , Minimum 3 Cell 43 WHr , Long Life and Quick Charge with Minimum of 10 Hrs of (MM14 Benchmark) Backup. • Operating System:-Windows 10 Pro with M.S. Office Professional • OS Certification:-Must be certified for Windows 10 Pro 64 bit • AC Adapter:-Standard Indian Adaptor • Mandatory Industry Standard Certifications:-UL, FCC, BIS Compliance, MIL-STD 810G Passed • Standard Warranty:- 3 Year Comprehensive Warranty including battery • Paid Warranty for Extended 2 Years Comprehensive Warranty including battery	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
36	**Life Long Learning & Extension**				
36.1	• Communication Skills • Listening Skill • Vocabulary Module • Phonetics trains • Conversations • Resume Writing • Group Discussion • Presentation Skills • Interviews • Oral Reporting • Leadership • Assertiveness • Divergent Thinking • Maintaining Relationships • Teamwork • Negotiation & Conflict management • Decision Marking	01			
36.2	**Desktop Computer with i3 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:-Intel 10th Generation Core i3 10300 Processor / • 8 MB cache, 4 cores, 8 threads Should Supports Intel® vPro Technology • Memory:- 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-Microsoft Windows 10 Professional with OEM Recovery DVD or option of Cloud Recovery • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • -USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power	20			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	02	03	04	05	06
	state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified with heigh adjustment stand (Same OEM as desktop) • Standard Warranty:-3 Years onsite • Standard Warranty:-2 Years onsite				
36.3	**Desktop Computer with i5 Processor** Make- HP/Dell/Lenovo • Form Factor:- Small Form Factor • Chassis:-Tool-less Chassis (Tool-less Hard Drive, Memory & Optical drive Removal) • Chipset:-Commercial Class Intel® Q470 Chipset • Processor:- Intel 10th Generation Core i5 10500 Processor / 12 MB cache, 6 cores, 12 threads Should Supports Intel® vPro Technology • Memory:-4 GB / 8 GB DDR4-2666 Memory expandability up to 64 GB with 2 DIMM Slots • Storage:-1TB 7200RPM HDD / SMART IV ((Self-Monitoring, Analysis and Reporting Technology) or equivalent Should capable to Support RAID • Graphics:-Intel® UHD Graphics 630 • Audio:-Integrated audio controller with internal speaker of atleast 2W • Operating System:-DOS • Networking:-Integrated Intel Gigabit 10/100/1000 Ethernet Controller • Intel® Wi-Fi 6 AX201 802.11ax 2x2 with Bluetooth® M.2 Combo • Ports:-Video:- 1 Display Port 1.4 ,1 HDMI 1.4 , 1 VGA • USB:-4 USB 2.0, 3 USB 3.2 Gen 1, 2 USB 3.2 Gen 2 • Slots:-1 PCI Express v3.0 x1 1 PCI Express v3.0 x16 2 M.2 • Integrated 5-in-1 SD card reader, 3 SATA Ports • Bays:-2 Internal , 1 Externa bay • Keyboard:-USB Wired Keyboard, • Mouse:-USB Optical Wired Mouse • Power Supply:-180 W with 92% efficiency or better • Volume:-No More than 8 L • Security:-Hardware based endpoint security controller TPM 2.0 Integrated Intrusion Sensor Support for chassis cable lock devices & Support for chassis padlocks devices Drive lock option for HDD to secure Data Integrated protection from malware that lurks on malicious websites Integrated real-time detection and prevention of zero-day threats and advanced persistent threat (APT) attacks for Windows applications • Manageability:-Out of band Management independent of the operating system state and power state of PC Integrated utility to enables hardware level testing outside the operating system & Drivers should be available on OEM Website for download • Certifications:-Microsoft Windows 10 FCC,CE, RoHS, UL, EPEAT, Energy Star ISO 9001,14001,20001,27001 for OEM • Display:-21.5" with Minimum resolution of 1920X1080, with VGA , HDMI, Display Ports, TCO 8.0 Certified	01			

Sr. No.	Name of Item (with Make & Specification)	Qty Reqd.	Rate in Rs. Per Unit	Copy of Valid Authorization Certificate attached or not	Remark
01	**02**	03	04	05	06
	with height adjustment stand (Same OEM as desktop) • With Internal Wi-Fi Card • Standard Warranty:-3 Years onsite • Paid Warranty for Extended 2 Years				
36.4	Headphone & Mike (Good Quality)	21			
36.5	Microsoft windows server2016 operating system OLPNL Academic with min 10 CAL	1			
37	**Chemical Technology (Software)**				
37.1	Auto CAD Software Latest version, Legal, Auto-Cad, Software, applicable on windows 10	**30**			
38	**Computer Centre**				
38.1	ISM Convertor Module	01			
38.2	Network Monitoring Software	01			
39	**FabLab**				
39.1	**Duel–Sided Card Printers,(USB and Ethernet)** **Standard Feature**: 300 dpi/11.8 dots per mm print resolution , USB 2.0 and Ethernet 10/100 Connectivity, Microsoft windows certified drivers. **Optional Feature**: 802.11 b/g wireless connectivity **Printing & Laminating specification**: Color dye sublimation or monochrome thermal-transfer printing. Single and dual sided printing, Near photographic print quality, edge to edge printing on standard CR-80 media, simultaneous printing, incoding and laminating capability, 1375 cards/hours monochrome single sided or 555 cards/hour dual sided printing. Encoding Option and Specification: Magnetic stripe encoder-AAMVA and ISO 7811 (New and Pre-encoded, tracks 1.2 and 3, high low connectivity	01			
39.2	**Cardpresso ID Card Printing Software with XLS,XLSX, CSV Data Connectivity** ZMotit SDK support and sample code, Microsoft Windows certified printer drivers with tool box utility features Windows XP (32 Bit) , Vista (32&64 Bit), Win 8 and win 8 Pro(32 & 64 Bit)	01			

I/We enclose Tender Deposit of Rs. ---------------/- vide Demand Draft/Pay Order/FDR No………………………
Dated……………. in favour of Finance & Accounts Officer, Sant Gadge Baba Amravati University, Amravati.

Name of Firm M/s……………………………   VAT Registration

Address……………………………………….   (copy attached)

Pin Code No………………………………….

P.No.(O) ………………………………………

Fax No………………………………………….

Mobile No……………………………………..

E-Mail No………………………………………

Date : ………………………………….   Signature & Seal of Tenderer