



SVT COLLEGE OF HOME SCIENCE

(Autonomous)

SHREEMATI NATHIBAI DAMODAR THACKERSEY

WOMEN'S UNIVERSITY

1, Nathibai Thackersey Road, Mumbai-400 020, Tel: 26604706/ 22031879/22030948

**E-TENDER DOCUMENT FOR SUPPLY,
INSTALLTION AND COMMISSIONING OF
WINDOWS & MAC DESKTOP COMPUTERS,
NETWORK STORAGE, LCD DISPLAYS, WIFI
SYSTEMS WITH LOGIN SERVER, LARGE
DISPLAY, AUDIO SYSTEM ALONG WITH
WINDOWS AND ANTIVIRUS SOFTWARE FOR
COMPUTER LAB**

Table of Contents

1. NOTICE DETAILS:.....	3
2. INVITATION:.....	5
3. e-TENDER TIME SCHEDULE (dates to be verified).....	Error! Bookmark not defined.
4. GENERAL INSTRUCTIONS TO THE BIDDERS:.....	5
5. PURCHASE AND DOWNLOADING OF TENDER FORM:.....	7
6. PREPARATION & SUBMISSION OF BIDS.....	7
7. ESSENTIAL QUALIFICATION AND MINIMUM ELIGIBILITY CRITERIA:.....	9
8. TECHNICAL BID.....	9
9. COMMERCIAL BID.....	10
10. ONLINE BID SUBMISSION.....	11
11. INSTRUCTION TO BIDDERS FOR ONLINE BID PREPARATION & SUBMISSION.....	11
12. OPENING OF TENDERS:.....	13
13. TECHNICAL ENVELOPE (T1): (Technical Bid).....	14
14. ENVELOPE NO. 2 :- (Commercial Bid).....	14
15. TENDER FORM FEES.....	14
16. EARNEST MONEY DEPOSITE (EMD).....	15
17. COMMERCIAL BID.....	15
18. GENERAL TERMS AND CONDITIONS FOR TENDER CONTRACT.....	15
19. STANDARD TERMS & CONDITION FOR TENDER CONTRACT.....	16
1 Changes / Amendments.....	16
2 Force Majeure.....	17
3. Inspection and Acceptance.....	17
4. Indemnity.....	18
5. Assignment / Subcontracting/subject.....	18
6. Cancellations.....	18
7. The vendor as in an Independent contractor:.....	19
8. Compliance with Laws:.....	19
9. Law of the Contract:.....	20

NOTICE DETAILS:

Tender Reference no.	SNDTWU/SVTCHS/ET-01/2016-17
Name of Work / Item	E-Tender Document for Supply, Installation and Commissioning of Windows & Mac Desktop Computers, Network Storage, LCD Displays, Wi-Fi Systems with Login Server, Large Display, Audio System Along With Windows and Antivirus Software for Computer Lab at SVT College of Home Sciences, SNDTWU, Juhu Campus
Cost of blank tender document & Mode of Payment	Rs. 1000/- (Non-refundable) to be paid through Online Payment Modes i.e. Net Banking, Debit Card and Credit Card during Tender Document Download Stage
EMD Amount & Mode of Payment	Rs.60,000/- (Refundable) to be paid through Online Payment Modes i.e. Net Banking, Debit Card, Credit Card and NEFT/RTGS during Bid Preparation Stage.
Venue of online opening of tender	SNDT Women's University, Juhu Road, Santacruz (West), Mumbai-400049.
Address for Communication	Registrar, S.N.D.T. Women's University, 1, N.T. Road, New Marine Lines, Mumbai-400 020.
Contact Telephone & Fax Numbers	022 – 22031879, 022 - 26604759
e-Tendering Helpline Support:	Telephone: 020 - 3018 7500

**Monday to Friday - 09:00 AM -
08:00 PM Saturday - 09:00 AM -
06:00 PM**

Email: support.gom@nextenders.com

INVITATION:

The University invites e-tender for Supply, Installation and Commissioning of Windows & Mac Desktop Computers, Network Storage, LCD Displays, Wi-Fi Systems with Login Server, Large Display, Audio System along with Windows and Antivirus Software for Computer Lab at SVT College of Home Sciences (SVTCHS), SNDTWU, in Juhu campus. The Bidders are advised to study all technical and commercial aspects, instructions, terms and conditions carefully in the tender document. Failure to furnish all information required in the tender document or submission of a bid not substantially responsive to the tender document in every respect will be at the bidder's risk and may result in the rejection of the bid. The University reserves the right to reject the bid in whole without assigning any reason thereof.

e-TENDER TIME SCHEDULE (dates to be verified)

Please Note: All bid related activities (Process) like tender Document Download, Bid Preparation, and Bid Submission will be governed by the time schedule given under Key Dates below:

Sr.	Activity	Performed by	Start		Expiry		Duration
			Date	Time	Date	Time	
1	Release of Tender	SVTCHA	18/02/17	11:00	22/02/17	17:00	----
2	Tender Download	Bidders	22/02/17	17:01	14/03/17	17:00	21 Days
3	Bid Preparation	Bidders	22/02/17	16:01	14/03/17	17:00	21 Days
4	Superhash & Bid Lock	SVTCHS	14/03/17	17:01	15/03/17	17:00	1 day
5	Control Transfer of Bid	Bidders	15/03/17	17:01	16/03/17	17:00	1 Day
6	Envelope 1 (TE) Opening	SVTCHA	17/03/17	11:00	20/03/17	17:00	----
7	Envelope 2 (CE) Opening	SVTCHA	17/03/17	11:00	20/03/17	17:00	----

Item Nos. 6 and 7 Dates mentioned here are scheduled dates for Bid Opening Activities. Any changes in dates of opening of technical and commercial bids shall be notified in 'Press Notice / Corrigendum section on the e-Tendering sub portal of the department before opening of the same.

GENERAL INSTRUCTIONS TO THE BIDDERS:

The bidders are requested to familiarize themselves with the use of the e-Tendering portal of Government of Maharashtra well in advance.

To view- Tender Notice, Detailed Time Schedule, Tender Document for this Tender and subsequently purchase the Tender Document and its supporting documents, kindly visit following e-Tendering website of **Government of Maharashtra**: <https://maharashtra.etenders.in>

The vendors participating first time for e-Tenders on GoM e-tendering portal will have to complete the Online Registration Process for the e-Tendering portal. A link for enrollment of new bidders has been provided on <https://maharashtra.etenders.in>

All bidders interested in participating in the online e-Tendering process are required to procure Class II or Class III Digital e-Token having 2 certificates inside it, one for Signing/Verification purpose and another for Encryption/Decryption purpose. The tender should be prepared & submitted online using individual's Digital e-Token.

e-Tendering Tool Kit for Bidders (detailed Help documents, designed for bidders) has been provided on e-Tendering website in order to guide them through different stages involved during e-Tendering such as online procedure for Tender Document Purchase, Bid Preparation, Bid Submission.

Bidders will have to pay cost of Tender Document through online modes of payment such as **Net Banking, Debit Card and Credit Card** during **Tender Document Download stage**. This payment will not be accepted by the SVTCHS through any offline modes such as Cash, Cheque or Demand Draft.

Similarly, Bidders will have to pay Earnest Money Deposit through online modes of payment such as **Net Banking, Debit Card, Credit Card and NEFT/RTGS** during **Bid Preparation stage**. This payment will not be accepted by the department through any offline modes such as Cash, Cheque or Demand Draft.

The interested contractors / bidders will have to make online payment (using credit card/debit card/net banking) of Rs. 1063/- (inclusive of all taxes) per bid per tender to online service provider of e-Tendering system (SifyNexTenders) at the time of entering **Online Bid Submission** stage of the tender schedule.

If any assistance is required regarding e-Tendering (registration / upload / download) please contact

GoM e-Tendering Help Desk on number: **020 – 3018 7500 (Pune Helpline)**,

[Email: support.gom@nextenders.com](mailto:support.gom@nextenders.com)

For a bidder, online bidding process consists of following 3 stages:

1. *Online Tender Document Purchase and Download*
2. *Online Bid Preparation*
3. *Online Bid Submission*

All of 3 stages are mandatory in order for bidders to successfully complete Online Bidding Process.

PURCHASE AND DOWNLOADING OF TENDER FORM:

The tender document is uploaded / released on Government of Maharashtra, (GOM) e- tendering website <https://maharashtra.etenders.in>. Tender document and supporting documents may be purchased and downloaded from following link of <https://maharashtra.etenders.in> on e-Tendering website of Government of Maharashtra, <https://allgom.maharashtra.etenders.in> by making payment through **Online Payment Modes i.e. Net Banking, Debit Card and Credit Card**. Subsequently, bid has to be prepared and submitted online ONLY as per the schedule.

If for any reason a bidder fails to make this payment through online modes, system won't allow the bidder proceed further for next stage resulting in his/her elimination from Online Bidding Process.

This payment will not be accepted by the department through any offline modes such as Cash, Cheque or Demand Draft.

Note - The Tender form will be available online only. Tender forms will not be sold / issued manually from SNTD Women's University office.

PREPARATION & SUBMISSION OF BIDS

Both the Bids (Technical as well as Commercial) shall have to be prepared and subsequently submitted online only. Bids not submitted online will not be entertained.

Online Bid Preparation

Bidders are required to pay Earnest Money Deposit (if applicable) through Online Payment modes i.e. **Net Banking, Debit Card, Credit Card and NEFT/RTGS** during Bid Preparation Stage.

This payment will not be accepted by the SVTCHS through any offline modes such as Cash, Cheque or Demand Draft.

If for any reason a bidder fails to make this payment through online modes, system won't allow the bidder to complete Bid Preparation stage resulting in his/her elimination from Online Bidding Process.

In case EMD is mandatory to all the bidders for a tender, offers made without EMD shall be rejected.

In Bid Preparation stage, bidders get access to Online Technical and Commercial Envelopes where they require uploading documents related to technical eligibility criteria and quote commercial offer for the work / item in respective online envelopes.

ESSENTIAL QUALIFICATION AND MINIMUM ELIGIBILITY CRITERIA:

- A. The bidder shall have the required licenses to run the business VAT/CST registration, Service Tax registration and PAN under Income Tax Act from the concerned Government Authority. The bidder firm /company shall have valid current Shops and Establishment License issued by the local Body / Municipal Corporation. A certified copy of each such Registration Certificate/ License shall be enclosed as part of the Technical Bid.
- B. The Bidder shall be in continuous existence in core business of the last five (5) Years.
- C. The Bidder shall have minimum turnover of Rs.1,00,00,000/- (Rupees One Crore Only) per annum out of Indian Operations for the last 3 consecutive years ending March, 2016.

TECHNICAL BID

Following documents should be uploaded in Online Technical Envelope (T1) in PDF format, if required can be zipped as well and then uploaded. All the documents need to be digitally signed by individually by bidder's digital signature and uploaded during **Online Bid Preparation stage**.

The list of documents for Technical Envelope is as follows:

Sr. No.	List of Documents	Compulsory /
1	Scan copy of PAN card	Compulsory
2	Scan copy of VAT/CST Registration	Compulsory
3	Scan copy of Service Tax Registration	Compulsory
4	Scan copy of valid current Shop and Establishment Certificate	Compulsory
5	Scan copies of following details about Firm / Company: For Proprietary Firm: Name, Address, Telephone No. on firm's Letter Head For Partnership Firm: Partnership Deed, Partnership Registration Certificate, Name of Partners with Addresses, Telephone No. on firm's Letter Head For Private Ltd. / Limited Companies: Memorandum of Association, RoC Registration Name of Partners with Addresses, Telephone No. on company's Letter Head	Compulsory

6	Scan copy of the Organisation Chart of the bidder's firm / company	Compulsory
7	Scan copy of the Technical Man Power available with firm / company to complete the project in the format (Annexure– 1)	Compulsory
8	Scan copies of Income Tax Return Filed along with Audited Balance Sheets for Last 3 Financial Years	Compulsory
9	Firm / Company Profile	Additional
10	Scan copy of List of clients	Additional
11	Scan copy of Services / Experience Certificates	Additional
12	Scan copy of Authorised Dealer / Distributor Certificates from OEM's of item's quoted	Additional
13	Scan copy of Make, Model and Part Numbers (if applicable) for the Supply Bill of Quantities (BOQ) in the format (Annexure– 2)	Compulsory
14	Undertaking and Authorisation for representation in Bidding Process in the format (Annexure-3)	Compulsory

Technical Specifications for all the Equipment, Hardware and Software items is enclosed in **Annexure – 4**

Note: Technical Bid's with incomplete information for compulsory items will be rejected.

COMMERCIAL BID

Note: During Online Bid Preparation stage, bidders are allowed to make any changes or modifications in the bid data uploaded by them in Technical (T1) as well as Commercial (C1) envelope.

Towards the end of Bid Preparation, once verification of EMD payment is successful, bidder completes the Bid Preparation stage by generating the Hash Values for T1 and C1. Post this, system won't allow him/her to make any further changes or modifications in the bid data.

All Commercial offers must be prepared and submitted online (An online form will be provided for this purpose in Online Commercial Envelope (C1), during **Online Bid Preparation** stage).

Bidder shall not quote their Commercial Offer anywhere directly or indirectly in Technical Envelope (T1), failing which the Commercial Envelope (C1) shall not be opened and their tender shall stand rejected.

Note: During Online Bid Preparation stage, bidders are allowed to make any changes or modifications in the bid data uploaded by them in Technical (T1) as well as Commercial (C1) envelope. Once a bidder successfully completes the Bid Preparation stage (by generating the Hash Values for T1 and C1), system won't allow bidder to make any further changes or modifications in the bid data.

ONLINE BID SUBMISSION

In this stage, bidder who have successfully completed their Bid Preparation stage are required to transfer the data, already uploaded by them during Bid Preparation stage, from their custody to department's custody.

Note: During this stage, bidders won't have any capability to make any kind of changes or editing into technical as well as commercial data.

INSTRUCTION TO BIDDERS FOR ONLINE BID PREPARATION & SUBMISSION

Bidders are required to pay Earnest Money Deposit (if applicable to them) through Online Payment modes i.e. Net Banking, Debit Card, Credit Card and NEFT/RTGS during Bid Preparation Stage.

If for any reason a bidder fails to make this payment through online modes, system won't allow the bidder to complete Bid Preparation stage resulting in his/her elimination from Online Bidding Process.

Hence, it is strongly recommended to bidders to initiate this payment well in advance prior to expiry of Bid Preparation stage in order to avoid elimination from Online Bidding Process on grounds of failure to make this payment.

During the activity of Bid Preparation, bidders are required to upload all the documents of the technical bid by scanning the documents and uploading those in the PDF format. This apart, bidders will have to quote commercial offer for the work / item, for which bids are invited, in an online form made available to them in Commercial Envelope. This activity of Bid Preparation should be completed within the pre-scribed schedule given for bid preparation.

After Bid Preparation, the bidders are required to complete Bid Submission activity within pre-scribed schedule without which the tender will not be submitted.

Interested bidders will have to make online payment (using credit card/debit card/net banking/Cash Card) of Rs. 1,063/- (inclusive of all taxes) per bid per tender to online service provider of e-Tendering system (SifyNexTenders) at the time of commencing Online Bid Submission stage of the tender schedule.

Non-payment of processing fees will result in non-submission of the Bid and Department will not be responsible if the bidder is not able to submit their offer due to non- payment of processing fees to the e-tendering agency.

Detailed list of different modes of online payment to e-tendering service provider (E-Payment Options) has been provided under [E-Tendering Toolkit for Bidders](https://maharashtra.etenders.in) section of <https://maharashtra.etenders.in> .

The date and time for online preparation followed by submission of envelopes shall strictly apply in all cases. The bidders should ensure that their tender is prepared online before the expiry of the scheduled date and time and then submitted online before the

expiry of the scheduled date and time. No delay on account of any cause will be entertained. Offers not submitted online will not be entertained.

If for any reason, any interested bidder fails to complete any of online stages during the complete tender cycle, department shall not be responsible for that and any grievance regarding that shall not be entertained.

Any amendment to the tender will be placed on sub portal of the Department, who have invited the bids, on e-tendering portal of the Govt. of Maharashtra. The bidder will not be communicated separately regarding the amendment.

OPENING OF TENDERS:

The bids that are submitted online successfully shall be opened online as per date and time given in detailed e-Tender Time schedule (if possible), through e-Tendering procedure.. The bidders can be present at the time of opening, if they desired so.

Bids shall be opened either in the presence of bidders or it's duly authorised representatives. The bidder representatives who are present shall sign a register evidencing their attendance. Only one representative per applicant shall be permitted to be present at the time of opening the tender.

TECHNICAL ENVELOPE (T1): (Technical Bid)

First of all, Technical Envelope of the bidder will be opened online through e-Tendering procedure to verify its contents as per requirements.

At the time of opening of technical bid the bidder should bring all the original documents that have been uploaded in the Online Technical Envelope (T1) so that same can be verified at the time of opening of technical bid.

If the bidder fails to produce the original documents at the time of opening of technical bid then the decision of the committee taken on the basis of document uploaded will be final and binding on the bidder.

If the various documents contained in this envelope do not meet the requirements, a note will be recorded accordingly by the tender opening authority and the said bidder's Commercial Envelope will not be considered for further action but the same will be recorded. Decision of the tender opening authority shall be final in this regard.

The commercial bids shall not be opened till the completion of evaluation of technical bids.

The commercial Bids of only technically qualified Bidders as mentioned above will be opened.

ENVELOPE NO. 2 :- (Commercial Bid)

This envelope shall be opened online as per the date and time given in detailed e-Tender schedule (if possible), through e-Tendering procedure only. The tendered rates shall then be read out in the presence of bidders who remain present at the time of opening of **Commercial Bid**.

TENDER FORM FEES

The Tender form, conditions of contract, specifications of the work/Item, can be downloaded from the University website i.e. www.sndt.ac.in. The payment of the same shall be Rs. 1000/- (per set) **(Non-refundable)** and require to be paid through Online Payment Modes i.e. Net Banking, Debit Card and Credit Card during Tender Document Download Stage.

EARNEST MONEY DEPOSITE (EMD)

Rs.60,000/- (Refundable) to be paid through Online Payment Modes i.e. Net Banking, Debit Card, Credit Card and NEFT/RTGS during Bid Preparation Stage.

COMMERCIAL BID

Commercial Bid shall be submitted online in the format provided online.

NOTE: SVTCHS reserves the right to change the quantities of any item before issuing the final Supply Orders. In case of change in the Supply Order quantity made by SVTCHS the variation in the Services Component if any will be worked out in the pro-rate basis.

GENERAL TERMS AND CONDITIONS FOR TENDER CONTRACT

The conditional Bids are liable for rejection.

The bidder/s should adhere with all seriousness to the e-Tender time schedule provided by the SVTCHS and SNDT Women's University, Mumbai.

Prices quoted by the bidder should include all local taxes, duties, levies, transportation costs and insurance cost except VAT / CST and Service Tax

Once a contract price is arrived the same must remain firm and must not be subject to escalation during the performance of the contract due to fluctuation in foreign currency, change in the duty/tax structure, changes in costs related to the materials and labor or other components or for any other reason.

Any increase in VAT / CST and Service Tax by Government will be borne by SVTCHS. In case of any reduction in VAT / CST and Service Tax by Government will be passed on the SVTCHS by successful bidder at the time of raising the commercial Invoice.

The prices quoted shall be valid for a minimum period of three months from the last date for submission of offers.

All the statutory payments on account of license fees / charges etc. payable to Municipal/Government Authority shall be the responsibility of the Bidder.

The electricity to be used for light, air condition etc. shall be provided by SVTCHS.

The contractor will have to obtain due licenses, comply with the legal requirements and follow the rules, regulations and bye-laws laid down by authorities other statutory requirements.

The SVTCHS and University shall have the right for termination/cessation of the contract at any stage on violation of any of the above terms after bringing the fact to the notice of the contractor & shall have right to impose fine to the extent of maximum 10% of the contract rate for any default on the ground of unsatisfactory/ defective service and Rs. 10,000/- shall be minimum amount of fine on each occasion which SNTD Women's University may consider & deem fit.

STANDARD TERMS & CONDITION FOR TENDER CONTRACT

By accepting the Standard Terms and Conditions for Tender Contract (hereinafter referred to as "the agreement") the Successful Bidder (hereinafter referred to as "the Contractor") accepts the Terms and Conditions included herein, unless the Contractor notifies his objections. The SVTCHS and SNTD Women's University (herein after referred to as "the University").

1 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 contractor for adjustment under this clause shall be deemed waived unless asserted in writing within ten (10) days from receipt by the Contractor of notice of change (amendment order).

2 Force Majeure

If any service is not delivered by the date specified therein, the University reserves the right, without liability, to cancel the contract or to execute the same from another Contractor and to charge the defaulting contractor for any loss incurred in this transaction. The University shall have the right to refuse unsatisfactory service if the contractor is unable to complete performance in the time specified for delivery, by reason of strikes, labor disputes, riot, war, fire or any other causes beyond the Contractor's reasonable control, the University, at its option, may elect to pay for such service in proportion of the contract price as it deemed reasonable.

3. Inspection and Acceptance

All services covered under the contract may be inspected and tested by the University or its representatives at Contractors cost. If deemed necessary by the University, the Contractor shall provide without charge, all reasonable facilities and assistance for such inspection and test. Any inspection records relating to Service covered by this agreement shall be made available to the University during the performance of the order.

If any service covered by this agreement is defective or otherwise not conforming to the requirements of this agreement, the University may, by written notice to the Contractor:

- (a) rescind the contract as to such non-conforming Service;
- (b) accept such service at an equitable reduction in price;
- (c) reject such non-conforming service and request the delivery of replacements.
- (d) If the contractor fails to improvise the shortcomings in the performance promptly, the university, with notice of seven business days, may replace or correct such

Service and charge the contractor the additional cost occasioned thereby, or terminate this order by default. No inspection (including source inspection) test, approval (including design approval) or acceptance of service shall relieve the contractor from responsibility for defects in the performance of contract or other failures to meet the requirements of this order. Rights granted to the University in this article entitle INSPECTION in addition to any other rights or remedies provided elsewhere in this order or in Law.

4. Indemnity

The contractor 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 Contractor, its employees, servants, agents or subcontractors. The University reserves the right to be represented in any such action by its own counsel at its counsel at its own expense.

5. Assignment / Subcontracting/subject

The contractor shall not assign the contract received or any rights under this agreement or to become due hereunder neither delegated nor subcontracted/sublet any obligations or work hereunder.

6. Cancellations

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

- (e) fails to comply with any term or condition of this order including, but not limited to, delivery terms: or
- (f) appoints a receiver, liquidator or trustee in bankruptcy or other similar officer over any or all of its property or assets: or
- (g) files a voluntary petition in bankruptcy : or
- (h) has had filed against it an involuntary petition in bankruptcy which remains in effect for thirty (30 days) or

- (i) voluntarily ceases trading: or
- (j) merges with or is acquired by a third party: or
- (k) Assigns any of its rights or obligations under the Order to a third party without the university's advance written consent.

Upon the occasion of any one of the aforesaid and in addition to any remedies which the university may have in Law or in Equity, the university may also cancel this order or any outstanding deliveries hereunder by notifying the Contractor in writing fax or email of such cancellation effective and sent and the Contractor shall thereupon transfer title and deliver to the university such work in progress or completed service as may be requested by the university. The University shall have no liability to the Contractor beyond payment of any balance owing for Service purchased hereunder and delivered to and accepted by the university prior to the Contractor's receipt of the notice of termination, and for work in progress requested for delivery to the University.

7. The vendor as in an Independent contractor:

The vendor shall perform the obligation of this order as an independent contractor and under no circumstances shall it be considered an 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.

8. Compliance with Laws:

By acceptance of this agreement, the contractor agrees to comply with the requirements of all the existing laws. The contractor 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 Contractor's performance hereunder. The Contractor 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 Contractor's failure to comply with any laws, ordinance, regulations and codes. The labours engaged shall be paid minimum wages as due & admissible with the difference if any due on revision by the contractor.

9. Law of the Contract:

This agreement shall be governed by and interpreted in accordance with the laws in existence in India and the jurisdiction of the Mumbai.

ANNEXURES

Table of Annexures

Sr.	Annexure	Annexure No.
1.0	Project Execution staff and proposed responsibility Matrix Format	Annexure-1A
2.0	CVs of the Key staff with the relevant expertise and experience Format	Annexure-1B
3.0	Bill of Quantities for the Supply Equipment, Hardware and Software	Annexure-2
4.0	Undertaking and Authorisation of Bid Signatory by Bidder	Annexure-3
5.0	Technical Specifications of Equipment, Hardware, Software and Services	Annexure-

1.0	Project Execution staff and proposed responsibility Matrix Format	Annexure-1A
-----	---	-------------

Project Execution staff and proposed responsibility Matrix

1. Technical / Managerial Staff

Sr.	Name	Position	Responsibility
1			
2			
3			
4			
5			

2. Support Staff

Sr.	Name	Position	Responsibility
1			
2			
3			
4			
5			

2.0	CVs of the Key staff with the relevant expertise and experience Format	Annexure-1B
-----	--	-------------

CVs of the Key staff with the relevant expertise and experience Format

Bidder's Name	
Proposed Position	
Staff Name	
Profession	
Date of Birth	
Years with Bidder's Firm / Entity	
Nationality	
PAN No / Aadhar Card No.	
Membership in Professional Societies	
Detailed Responsibility Assigned	
Key Qualifications	
[Give an Outline of Staff Member's Experience and Training most pertinent to Responsibility on Project. Describe Degree of Responsibility held by Staff Member on Relevant Previous Projects and give Dates and Locations. Use about half a page.]	
Education	
[Summarize College / University and other Specialized Education of Staff member giving names of Schools, Dates attended, and Degrees obtained. Use about one quarter of a page.]	
Employment Record	
[Starting with Present Position, list in reverse order every employment held. List all Positions held by Staff Member since Graduation, giving Dates, Names of Employing Organizations, Titles of Positions held, and Locations of Assignments. For experience in last five years, also give Types of Activities performed and Client References, where appropriate. Use about two pages.]	
Languages	
[For each Language indicate Proficiency level as Excellent, Good, Fair, or Poor, in Speaking, Reading and Writing.]	

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

Signature	Signature
(Full Name of Staff Member)	(Full Name Bidder's Authorized Signatory)
Date:	Date:

3.0	Bill of Quantities for the Supply Equipment, Hardware and Software	Annexure-2
-----	--	------------

Bill of Quantities for the Supply Equipment, Hardware and Software

Bill of Quantities for Computer Lab						
<i>Please refer to Technical Specification before filling up the BoQ</i>						
Sr.	Description	Qty	Make	Model	Compliance to Technical Specifications Y/N	Remarks if any
1	Windows Desktop PC	25				
2	Wired USB Keyboard for Windows Desktop	25				
3	Wired USB Mouse for Windows Desktop	25				
4	Apple Desktop PC	4				
5	Wired USB keyboard for Mac Desktop	4				
6	Wired USB Mouse for Mac Desktop	4				
7	19" HDMI LCD Monitor for Windows Desktop	29				

8	Network Attached Storage (NAS), 16TB, RAID 0/1/5/6/10 AND Jbod	1				
9	HotSpot Server for Wired and Wireless Connectivity	1				
10	Industrial Grade Access Point with minimum 20 users concurrent connectivity	3				
11	48 Port Gigabit Smart Switch	1				
12	55" LCD Monitor	1				
13	Swivel wall Mount for 55" LCD Monitor	1				
14	6" Full range Ceiling Speaker with Mounting	4				
15	Mixer Amplifier with 6 mic / line inputs	1				
16	Wireless Head Set Mic	1				
17	Windows-10 Operating System Bulk Licence	25				
18	Antivirus software for Windows PC	25				
19	Windows Office for Windows	25				

4.0	Undertaking and Authorisation of Bid Signatory by Bidder	Annexure-3
-----	--	------------

On Bidder's Letter Head

Undertaking and Authorisation of Bid Signatory by Bidder

Ref No:

Date:

To,

The Registrar,
SNDT Women's University,

1, N. Thackersey Road,
Mumbai- 400020

RFP No.: SNDTWU/XXX/2016-17/001, Dated: 03/02/2017

Sub: e-Tender Document for Supply, Installation and Commissioning of Windows & Mac Desktop Computers, Network Storage, LCD Displays, Wi-Fi Systems with Login Server, Large Display, Audio System Along With Windows and Antivirus Software for Computer Lab at SVT College of Home Sciences, SNDTWU, Juhu Campus

Dear Sir,

We hereby authorise our staff as mentioned below as our authorised representative and our authorised signatory of our company for attending the Bidding Process, responding to all the communication and sign all the correspondence documents including the Bid submittals for the RFP No. SNDTWU/XXX/2016-17/XXX Dated: 03/02/2017 to be execute at Juhu Campus, SNDT Women's University. We will be responsible for all the outcome of his representation.

Authorised Signatory Name	
Designation	
e-Mail Address / ID	
Telephone No.	
Mobile No.	
Authorised Signatory Signature	

We undertake that all the information provided as part of our bid submission is valid, authentic and true. We hereby authorise SNDT Women's University to verify the information for validity, authenticity. In case the information provided by us found to be not true on any account, we understand that the University will ban our firm / company from participating in any future tenders as well report the same to Government of Maharashtra, the other government bodies and Bid Portal. We will be responsible for our action and the consequences thereof.

Thanking you for giving us an opportunity to participate in your project.

Best Regards,

(Signature)

Name:

Designation:

5.0	Technical Specifications of Equipment, Hardware, Software and Services	Annexure-4
-----	--	------------

Windows Desktop PC – Technical Specifications for Tender

- I. Accepted Makes: HP, Lenovo, Dell
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Windows Desktop PC
2.00	Technical Specifications	
2.01	Operating System	Capable of running Microsoft Windows 10 Pro
2.02	Processor	Intel® Core™ i3-6100 with Intel HD Graphics 530 (3.7 GHz, 3 MB cache, 2 cores)
2.03	Chipset	Intel H110
2.04	Memory	4GB of DDR4-2133 SDRAM (1x4 GB)
2.05	Graphics	Integrated Intel HD Graphics 530
2.06	Display Support	1 x DVI-D, 1x VGA
2.07	Storage	500 GB 7200 rpm SATA
2.08	Audio	Analog audio line output / analog Audio line input, Built in speaker
2.09	Connections and Expansion	1 x Gigabit Ethernet 4 x USB2, 2 x USB3, 1 x DVI-D, 1x VGA
2.10	Supplied Accessories	Power Lead Power Cable
3.00	General Specifications	Power Requirements: AC 100 – 240 V, 50-60 Hz Max Continuous Power: 180 W Operating Temperature: 10°C to 35°C Dimensions (H x W x D): 360 x 170 X 355 mm Mass: Approx. 4.50 kg

Windows USB Keyboard – Technical Specifications for Tender

- I. Accepted Makes: Logitech, HP, Dell
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Windows wired USB Key Board
2.00	Technical Specifications	
2.01	System Requirement	Windows-based PC (Microsoft Windows Pro 10) / Linux Kernel 2.6+

Windows USB Mouse – Technical Specifications for Tender

- I. Accepted Makes: Logitech, HP, Dell

II. Specifications:

No.	Specification	Details
1.00	Generic Description	Windows wired USB Optical Mouse
2.00	Technical Specifications	
2.01	System Requirement	Windows-based PC (Microsoft Windows Pro 10) / Linux Kernel 2.6+

Apple Mac Mini – Technical Specifications for Tender

- I. Accepted Makes: Apple
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Apple Mac Mini with Fourth Generation Intel Core Processor, Gigabit Ethernet, HDMI, Thunderbolt 2 x 2, USB3 x 4, SDXC Card Slot
2.00	Technical Specifications	
2.01	Operating System	macOS Sierra version 10.11.2
2.02	Processor	1.4 GHz, 1.4GHz dual-core Intel Core i5 (Turbo Boost up to 2.7GHz) with 3MB on-chip shared L3 cache
2.03	Memory	4GB of 1600MHz LPDDR3 memory
2.04	Graphics	Intel HD Graphics 5000
2.05	Display Support	Connect upto 1 x UltraHD or 2 x Thunderbolt 2
2.06	Storage	256 GB PCIe-based flash storage
2.07	Audio	Combined Optical Digital audio output / analog line out mini jack, 3.5mm headphone jack with head set support, HDMI port supports multi-channel audio output, Built in speaker
2.08	Connections and Expansion	4 x USB3, 2 x Thunderbolt 2, Gigabit Ethernet, HDMI 1.4 UltraHD
2.09	Wireless	802.11ac, Bluetooth 4.0
2.10	Supplied Accessories	MacPro Power Lead
3.00	General Specifications	Power Requirements: AC 100 – 240 V, 50-60 Hz Max Continuous Power: 85 W Operating Temperature: 10°C to 35°C Dimensions (H x W x D): 36 x 197 X 197 mm Mass: Approx. 1.19 kg

Apple Wired Keyboard – Technical Specifications for Tender

- I. Accepted Makes: Apple
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Apple aluminium wired keyboard with Numeric Key Pad
2.00	Technical Specifications	
2.01	Product Type	Keyboard
2.02	Connectivity Technology	wired
2.03	Interface	USB
2.04	Key/ Button Functions	Expose, brightness, MM, Optical Media Eject, Volume
2.05	Colour Category	Silver(Required), White
2.06	Interface Provided	USB
2.07	Qty	2
2.08	Connector Type	4 pin USB Type A

2.09	OS Required	Apple MacOS x 10.6.2
3.00	General Specifications	Operating Temperature: 10°C to 35°C Dimensions (H x W x D): 28 x 467 X 135 mm Mass: Approx. 726 kg

Mac USB Mouse – Technical Specifications for Tender

- I. Accepted Makes: Logitech, HP, Dell
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Mac s wired USB Optical Mouse
2.00	Technical Specifications	
2.01	System Requirement	Mac-based PC (Mac OS X) / Linux Kernel 2.6+

19" HDMI LCD Monitor – Technical Specifications for Tender

- I. Accepted Makes: LG, Samsung, View Sonic
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	19" HDMI LCD Monitor
2.00	Technical Specifications	
2.01	Panel	TN
2.02	Type	LED
2.03	Aspect ratio	16:9
2.04	Resolution	Native 1920 x 1080P
2.05	Brightness	250 NITS
2.06	Contrast Ratio	50000:1
2.07	Response Time	5 ms
2.08	Viewing Angle	170/160 degree (CR >= 10)
2.09	Colour Depth	16.7 Mil Colours
2.10	Surface Treatment	Anti-Glare, 3H
2.11	Stand	Detachable base with 5 deg front and 15 deg rear tilt
2.12	Input	DVI-D / HDMI
3.00	General Specifications	Power Requirements: AC 100 – 240 V, 50-60 Hz Max Continuous Power: 18 W Operating Temperature: 10°C to 35°C Dimensions with stand (H x W x D): 360 x 170 X 443 mm Mass with stand: Approx. 2.80 kg

Network Attached Storage – Technical Specifications for Tender

- I. Accepted Makes: Thecus, Synology, Netgear, WD
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Network Attached Storage with RAID 5 – NET Storage
2.00	Technical Specifications	

	Hardware Platform	
2.01	Processor	Intel® Atom™ Processor D2550 (1.86GHz Dual Core)
2.02	System Memory	2GB DDR3
2.03	Memory expandable up to	4GB Memory Compatibility List
2.04	LAN Interface	RJ-45x2: 10/100/1000 BASE-TX Auto MDI/MDI-X WOL supported
2.05	USB Interface	USB 2.0 host port x4 (back x4) USB 3.0 host port x1 (front x1)
2.06	LCM Module	LCM display 4 buttons (ENTER, ESC, UP, DOWN)
2.07	SATA DOM	1GB
2.08	HDMI Output	HDMI port (back x1)
2.09	VGA Output	VGA port (back x1)
2.10	Audio	MIC input, Line input, Audio output
2.11	Disk Interface	5 x SATA for internal, support SATA II / SATA III hard disk 1 x eSATA for external
2.12	Power Supply	200W Power Supply
2.13	USB UPS	Supported
2.14	Thermal/Fan control	Thermal sensor on processor temperature System FAN speed controlled by temperature
2.15	System Clock	Battery-backed up system clock
2.16	Power Management	Auto power on after shutdown due to power loss
2.17	Buzzer	Adjustable frequency alarm
2.18	Buttons	Power button

		LCM button
2.19	Environment	Temperature: 5°C to 40°C Humidity: 0 ~ 80 % R.H. (Non-condensing)
2.20	Chassis	Tower Metal Chassis
2.21	Dimensions (HxWxD)	230 x 190 x 240 (mm)/ 9.06 x7.48 x 9.45 (in)
2.22		
2.23	Weight	4.38(Kgs)/9.66(lb)(NAS only)
2.24	Certificates	CE/FCC/C-Tick/VCCI/BSMI RoHS WEEE VMware, Citrix

2. Software Functions

	RAID	
2.25	RAID Modes	RAID 0, 1, 5, 6, 10 and JBOD
2.26	Auto-rebuild	Supported
2.27	Hot-swap	Supported
2.28	Hot Spare	Supported
2.29	Online RAID Migration	Supported
2.30	Online RAID Expansion	Supported
2.31	RAID Volume Encryption	AES256bit
	Disk	
2.32	Power Management	Available spin-down on idle setting
2.33	Bad Block Scanning	Supported

2.34	SMART Info	Supported
2.35	SMART Test	Supported
2.36	Disk Roaming	Supports volume-based roaming to other similar NAS
Network		
2.37	Configuration	Fixed IP address, dynamic IP address
2.38	Transport Protocols	TCP/IP/AppleTalk
2.39	File Protocols	SMB/CIFS, HTTP/HTTPS, FTP, NFS v4, AFP
2.40	Link Aggregation	Load balance, Failover, 802.3ad, Balance-XOR, Balance-TLB, Balance-ALB
2.41	TCP/IP	IPV6 & IPV4
2.42	DDNS	Supported
2.43	SSH	Supported
2.44	UPnP	Supported
2.45	UPnP Port forwarding	Supported
System status		
2.46	System Monitor	Monitoring CPU, memory, temperature, fan, network utilization and protocols access user count
2.47	Syslog Management	Send syslog to assigned location Act as syslog server to receive log info from other systems
Data Access		
2.48	Client OS Support	Windows XP and after Windows Server 2003 and after UNIX/Linux Mac OS X

2.49	FTP	Built-in FTP server with bandwidth control
2.50	Secure FTP	Built-in secure FTP server with bandwidth control
2.51	TFTP	Users can download and upload files with TFTP programs
2.52	Download Manager	BT download (via Transmission module) NZB download (via NZB module)
2.53	Printer Server (IPP)	Supports USB printers Supports a wide range of IPP printers Client can manage print tasks (list/delete) via web user interface
Data Backup		
2.54	Client Incremental Data Backup	Acronis True Image (OEM version)
2.55	Client System Disaster Recovery	Acronis True Image (OEM version)
2.56	Client Side Backup Software	Same Brand Backup Utility (Windows/Mac OS X)
2.57	Data Burn	Create files to ISO image and burn to optical disc Create files to ISO image Read ISO image from optical disc and write to NAS
2.58	Mac OS X Time Machine	Supported
2.59	Data Guard	Remote Backup/Local Backup
Block Level Access		
2.60	iSCSI Target/Initiator	Supports Microsoft/Mac OS X/Linux initiators and Same Brand NAS targets
2.61	iSCSI Thin Provisioning	Supported
2.62	iSCSI VAAI	Supported
2.63	MPIO	Supported

2.64	MCS	Supported
2.65	Clustering	Supported
2.66	SCSI3 Persistent Group Reservation	Supported
Power Management		
2.67	Scheduled Power On/Off	Supported
Volume Management		
2.68	Multiple RAID	Supported
2.69	Multiple File System Selectable	EXT3/EXT4/XFS/Btrfs
Multimedia Support		
2.70	iTunes Server	Supports AAC, MP3 w/ID3 tag and WAV
2.71	Piczza!™ Photo Server (via module)	Supports GIF, JPG (JPEG), BMP and PNG Supports EXIF display Supports slide shows
2.72	Media Server	Supports uPnP AV streaming protocol
User Authentication		
2.73	Local User	Supports built-in user accounts
2.74	Local Group	Supports built-in user groups
2.75	Windows ADS	Supported
2.76	LDAP	Supported
2.77	Access Guard	Supports Black & White list/IP Filter
Cloud Backup		
2.78	DropBox	Supported (via module)

2.79	ElephantDriver	Supported (via module)
2.80	Amazon S3	Supported
	File System	
2.81	Type	Journaling File System
2.82	Language Support	Unicode Support
2.83	Authorization (ACL)	"Read", "write", or "deny" privileges to individual users or groups in folders and sub-folders
2.84	User Quota	Supported
2.85	Snapshot	Supported
	Administration	
2.86	User Interface	Web-based user interface supports English, Traditional Chinese, Simplified Chinese, Japanese, Korean, French, German, Italian, Spanish, Russian, Polish, Portuguese, Turkish and Czech.
2.87	Utility Program	MS Windows Setup Wizard Supports Windows 8/7/Vista/2003/XP/2000 Mac OS X Setup Wizard
2.88	Email Notifications	Sends system messages via email to the system administrator
2.89	SNMP Trap	System information trap out
	Mobile Applications (iOS/Android)	
2.90	T- Dashboard	Mobile monitoring and administration (via module)
2.91	T-OnTheGo™	Upload, download and stream multimedia
	Data Security	
2.92	Virus Scan	Supports McAfee® (via module)
	Capacity Expansion	

2.93	Stackable	Can extend for 5 additional iSCSI volumes from other same brand NAS
Others		
2.94	Recycle Bin	Supported
2.95	Web Disk	Supported (via module)
2.96	Web Server	Supported (via module)
2.97	ISO Mount	Supported
2.98	IP Cam Surveillance	Supports up to 5 IP cameras (via module)
2.99	Auto Module Installation	Same Brand module server automatically provides the latest modules and updates through the user interface.
2.100	Local Display	X-Window via HDMI output
3.00	General Specifications	Power Requirements: AC 100 – 240 V, 50-60 Hz Max Continuous Power: 360 W Operating Temperature: 10°C to 35°C

Hotspot Server – Technical Specifications for Tender

- I. Accepted Makes: Jupicom, Netgear, D Link
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	HotSpot Server for wired and wireless connectivity / Network Access Controller
2.00	Technical Specifications	
2.01	Applications	Support for Captive Portal and Voice
2.02	Configuration Management	Web User Interface
2.03	AAA	RADIUS (Local and Remote) Support
2.04	AP Provisioning	L3 auto-discovery
2.05	Security	Standards: WPA PSK, WPA2 PSK, WPA2 with 802.1x
2.06	Access Control	User based, mac based
2.07	Ethernet Ports	2 Ports, auto sensing 10/100 Mbps, RJ-45
2.08	Net Work Architecture	4 VLAN (1 per SSID)
2.09	DHCP Server	supported
2.10	Max Concurrent Users	Upto 100

	Devices	
3.00	General Specifications	Power Requirements: AC 100 – 240 V, 50-60 Hz Max Continuous Power: 180 W Operating Temperature: 10°C to 35°C Dimensions (H x W x D): 63 x 295 X 285 mm Mounting: Table Top

Access Point – Technical Specifications for Tender

I. Accepted Makes: TP-Link, Netgear, D Link

II. Specifications:

No.	Specification	Details
1.00	Generic Description	Access point with minimum 20 concurrent users
2.00	Technical Specifications	
2.01	Interface	4 10/100Mbps LAN PORTS 1 10/100Mbps WAN PORT
2.02	Button	WPS/Reset Button Wi-Fi On/Off Button Power On/Off Button
2.03	Antenna	2*5dBi Fixed Omni Directional Antenna
	Wireless Features	L3 auto-discovery
2.04	Frequency	2.4-2.4835GHz
2.05	Signal Rate	11n: Up to 300Mbps(dynamic) 11g: Up to 54Mbps(dynamic) 11b: Up to 11Mbps(dynamic)
2.06	Reception Sensitivity	270M: -70dBm@10% PER 130M: -74dBm@10% PER 108M: -74dBm@10% PER 54M: -77dBm@10% PER 11M: -87dBm@8% PER 6M: -90dBm@10% PER 1M: -98dBm@8% PER
2.07	Transmit Power	CE: <20dBm FCC: <30dBm
2.08	Wireless Functions	Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics
2.09	Wireless Security	64/128/152-bit WEP / WPA / WPA2, WPA-PSK / WPA2-PSK
	Software Features	
2.10	Quality of Service	WMM, Bandwidth Control
2.11	WAN Type	Dynamic IP/Static IP/PPPoE/ PPTP/L2TP/BigPond
2.12	Management	Access Control Local Management Remote Management
2.13	DHCP	Server, Client, DHCP Client List, Address Reservation
2.14	Port Forwarding	Virtual Server, Port Triggering, UPnP, DMZ
2.15	Dynamic DNS	DynDns, Comexe, NO-IP
2.16	VPN Pass-Through	PPTP, L2TP, IPSec (ESP Head)
2.17	Access Control	Parental Control, Local Management Control, Host List, Access Schedule, Rule Management

2.18	Firewall Security	DoS, SPI Firewall IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
2.19	Protocols	Support IPv4 and IPv6
2.20	Guest Network	2.4GHz Guest Network x1
2.21	Certification	CE, FCC, RoHS
2.22	System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows8/ 8.1/10 MAC® OS, NetWare®, UNIX® or Linux
3.00	General Specifications	Power Requirements: External 9 V DC / 0.6Amp Max Continuous Power: 5.4 W Operating Temperature: 0°C to 40°C Dimensions (H x W x D): 33 x 192 X 134 mm Mounting: Table Top

48 Port Gigabit Smart Switch – Technical Specifications for Tender

- I. Accepted Makes: TP-Link, Netgear, D Link
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	48x Port 10/100MBPS, 2x Gigabit Ports, 2x SFP Slots Web Smart Switch
2.00	Technical Specifications	
2.01	Standards and Protocols	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1q, 802.1p
2.02	Interface	48 10/100Mbps Auto-Negotiation RJ45 ports (Auto MDI/MDIX) 2 10/100/1000Mbps Auto-Negotiation RJ45 port (Auto MDI/MDIX) 2 Gigabit SFP ports
2.03	Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100BASE-TX/1000Base-T: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000BASE-X: MMF, SMF
	Fan Quantity	Fanless
2.04	Button	Reset Button
2.05	External Power Supply	100-240VAC, 50/60Hz
2.06	Backup Bandwidth	17.6Gbps
2.07	Packet Forwarding Rate	13.1Mpps
2.08	Mac Address Table	8k
2.09	Buffer Size	7Mb
2.10	Standards and Protocols	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1q, 802.1p
	Software Features	
2.11	VLAN	Port Based VLAN, 802.1Q Tag-VLAN, MTU VLAN
2.12	Access Control List	Based on Port,

		Based on MAC
2.13	Security	Port Security, Static MAC Address Binding, Dynamic MAC Address Binding
2.14	Management	Web (Http) Management, Remote Management
2.15	Basic Function	MAC Address Auto-Learning and Auto-aging, Storm Control (Broadcast, Multicast, Unknown unicast), Port Mirroring
2.16	Transfer Method	Store-and-Forward
2.17	Priority	Port based Priority, IEEE 802.1p based Priority: 4 Queues, IP DSCP based Priority
2.18	Link Aggregation	Port Trunking
2.19	System Function	Fixed IP Address Setting, VCT (visual cable test), Port Flow Statistics, TFTP Upgrade
	Guest Network	2.4GHz Guest Network x1
2.20	Certification	CE, FCC, RoHS
2.21	System Requirements	Microsoft® Windows® 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows8/ 8.1/10 MAC® OS, NetWare®, UNIX® or Linux
3.00	General Specifications	Power Requirements: 100-240 VAC, 50/60Hz Operating Temperature: 0°C to 40°C Dimensions (H x W x D): 44 x 440 X 260 mm Mounting: Rack

55" LCD Monitor– Technical Specifications for Tender

- I. Accepted Makes: LG, Samsung, Panasonic
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	55" LCD Monitor
2.00	Technical Specifications	
2.01	Screen Size	55 (139 cm)diagonal
2.02	Aspect Ratio	16 : 9
2.03	Brightness	350cd/m2
2.04	Panel Technology	IPS
2.05	Native Resolution	1920 x 1080 (FHD)
2.06	Response Time	12ms(G to G BW)
2.07	Viewing Angle (HxV)	178 x 178
2.08	Dynamic CR	500,000 : 1
2.09	Contrast Ratio	1,100:1
	Connectivity	

2.10	Standards and Protocols	IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1q, 802.1p
	Software Features	
2.11	Digital (With HDCP2.2)	HDMI2.0(1)
2.12	Digital (With HDCP2.2) HDMI	Yes(1)
2.13	DVI-D	Yes(1)
2.14	Analog(RGB)	Yes(1)
2.15	Audio In	RGB/DVI(1)
2.16	USB	Yes(2)
2.17	External Control(RS232C IN)	Yes(1)
2.18	RJ45	Yes(1)
2.19	HDTV Formats	HDMI : 720p, 1080i, 1080p
2.20	IR Receiver	Yes(1)
2.21	External Media player Attachable	Yes (MP500/MP700)
2.22	Audio	
2.23	Balance	Yes
2.24	Audio Power	20W(10W x 2) for External Speaker
2.25	Speaker On/off	Yes
2.26	Sound mode	Standard, News, Music, Cinema, Sport, Game
2.27	Clear Voice II	Yes
2.28	Virtual Surround Plus	Yes
2.29	Equalizer	Yes
3.00	Physical Specifications	
3.01	Bezel Color	Black
3.02	Bezel Width	11.9mm(T/R/L), 18mm(B)
3.03	VESATM Standard Mount Interface	300 x 300
3.04	Monitor Dimension(W x H x D)	1238mm x 714.9mm x 38.6mm
3.05	Monitor with Optional Stand & Speaker Dimensions(W x H x D)	1238mm x 773.4mm x 219.6mm
3.06	Packed Weight	21.5kg
3.07	Carton Dimensions(W x H x D)	1330mm x 813mm x 151mm
3.08	Weight(head)	17.3Kg
3.09	Weight(Head+Stand+Speaker)	21.1Kg

Swivel Wall Mount for 55" LCD Monitor– Technical Specifications for Tender

- I. Accepted Makes: Integrated, Eagle Mount, Raymax
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Swivel Wall Mount for 55" LCD Monitor
2.00	Technical Specifications	

2.01	Compatible LCD Size	55" LCD
2.02	Distance from Wall	103 mm
2.03	Colour	Black
2.04	Vesa Size	100 x 100 mm
2.05	Maximum Weight Capacity	45 KG
2.06	Swivel	Collapsible Swivel (Double Arm)
2.07	Viewing Angle	Multiple Angle adjustment

6" Full Range Speakers – Technical Specifications for Tender

- I. Accepted Makes: PAudio, JBL, QSC
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	6" full range ceiling mounted speaker with mounting kit
2.00	Technical Specifications	
2.01	Type	2 Way Coaxial
2.02	Power (RMS/Program)	30 / 60 Watt
2.03	Sensitivity (1W@1M)	91 dB
2.04	Frequency Range	65 Hz – 20 KHz
2.05	LF Component	6" (152 mm) Cone
2.06	HF Component	1.5" (42 mm) PEI
3.00	General Specifications	Operating Temperature: 10°C to 35°C Dimensions (W x D): 215 x 90 mm Mass: Approx. 1.50 kg

6" Full Range Speakers – Technical Specifications for Tender

- I. Accepted Makes: Ahuja, Medha, Crown
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Installation Amplifier with minimum 6 Mic / line inputs
2.00	Technical Specifications	
2.01	Inputs	4x Mic, 2x Line
2.02	Mic Preamp	Yes
2.03	Protection	Resettable Circuit Breaker for protection against Over Load and short Circuit
2.04	Wattage	Minimum 200 Watt RMS
3.00	General Specifications	Operating Power: 220-240 VAC / 24VDC Operating Temperature: 10°C to 35°C Mount: Table / Rack Mount

Wireless Headset Mic – Technical Specifications for Tender

I. Accepted Makes: Mipro, Shure, AKG

II. Specifications:

No.	Specification	Details
1.00	Generic Description	UHF Wireless Mic with single Channel Diversity Receiver, Bodypack Transmitter, and Headworn unidirectional Mic beige
2.00	Technical Specifications	
	Receiver	
2.01	Channel	Single
2.02	Chassis	EIA-Standard 19" 1/2U
2.03	Receiving Mode	Diversity
2.04	Frequency Range	UHF 480~934MHz Antenna Rear Panel. Detachable
2.05	Antenna	Rear Panel. Detachable
2.06	Preset Channels	112 preset channels. Group 1-6: 8 compatible channels in each group. Group 7-10: 16 compatible channels in each group. Group 11: Up to 8 channels can be saved & recalled. 961 user-defined frequencies in group 11.
2.07	Oscillation Mode	PLL Synthesized, Frequency Stability $\leq \pm 0.005\%$ (-10~+60°C)
2.08	Sensitivity	10dB μ V, at S/N>80dB
2.09	S/N Ratio	>106dB(A)
2.10	T.H.D.	<0.5% @ 1KHz
2.11	Frequency Response	50Hz~18kHz, with high pass filter
2.12	Squelch	"PiloTone & NoiseLock" dual-squelch circuit
2.13	Audio Output Adjustment	Output level accurately pre-adjusted to equal to the microphone capsule sensitivity
2.14	Maximum Output Level	2-level Switch: Line & Mic
2.15	Power Supply	External AC Adapter, 12~15V DC, 1A
2.16	Dimensions (W x H x D)	210 × 44 × 180 mm
2.17	Weight	Approx. 0.8kg
	Transmitter	
2.18	Housing	Rugged Plastic
2.19	Frequency Range	UHF 480~934MHz
2.20	Bandwidth	24MHz
2.21	Oscillation Mode	PLL Synthesized
2.22	Channel Set-Up	ACT Sync
2.23	LCD Display	LCD displays working band-code, group, channel, frequency, AF input gain, RF output power, mute & lock status, battery status and error codes.
2.24	RF Output Power	10mW 50mW (switchable)
2.25	Spurious Emissions	<-55dBc
2.26	Max. Input Level	0dBV
2.27	Mute Connector	Optional MJ-70 remote mute switch

2.28	Battery	2 AA alkaline
2.29	Battery Hours	12-14 hours (pending battery quality)
2.30	Power Supply	External AC Adapter, 12~15V DC, 1A
2.31	Dimensions (W x H x D)	210 ×44 ×180 mm
	Head Set	
2.32	Description	Uni-directional Headworn Microphone (beige, detachable cont.)

Antivirus Software – Technical Specifications for Tender

- I. Accepted Makes: QuickHeal, Norton, McAfee
- II. Specifications:

No.	Specification	Details
1.00	Generic Description	Total Security Antivirus Solution for Internet Surfing and PC Protection
2.00	Technical Specifications	
	Features Required	
2.01	Ransom Protection	Yes
2.02	Web Protection	Yes
2.03	Email Security	Yes
2.04	Browser Sand Box	Yes
2.05	Data Theft Protection	Yes
2.06	Fire Wall	Yes
2.07	Core Protection	Yes
2.08	Malware Protection	Yes
2.09	Anti Key Logger	Yes
2.10	Improved Scan Engine	Yes
2.11	Advanced DNA Scan	Yes
2.12	Vulnerability Scan	Yes
2.13	Virtual Key Board	Yes
2.14	Privacy Protection	Yes
2.15	Flash Drive Protection	Yes
2.16	Safe Mode Protection	Yes
2.17	Enhanced Self Protection	Yes
2.18	Silent Mode	Yes
	Supported OS	
2.19	Microsoft Windows	Pro 10
2.20	PoP-3 email Client Compatibility	Out Look 2000 and later, Outlook Express 5.5 and later, Net Scape Messenger 4 and later, Eudora, Mozilla, Windows Mail