TENDER DOCUMENT FOR SUPPLY and INSTALLATION of
Server/Workstation, Desktop, Network (Active & Passive)
Components/Wireless Local Area Networking (WLAN) and Tablet

Ramanujan Computing Centre
Anna University, Chennai – 600 025.
# A. TENDER NOTICE

Invitation to Bid for Supply and installation of Server/Workstation, Desktop, Network (Active & Passive) Components/WLAN & Tablet

1. Tender Inviting Authority  
   Designation and Address  
   The Registrar,  
   Anna University, Chennai -600 025.  
   Email: tender@annauniv.edu  
   URL : www.annauniv.edu/tender

2. A) Name of the Work  
   Supply and installation of Server/Workstation, Desktop, Network (Active & Passive) Components/WLAN & Tablet  
   B) Tender reference  
   AU/RCC-CPC/Purchase/2013-14  
   C) Place of execution  
   Main (Guindy) and MIT (Chromepet) Campus  
   Anna University, Chennai – 600 025.

3. Tender Documents available place  
   On all working days between 10.00 A.M to 4.30 P.M @  
   Ramanujan Computing Centre, Anna University, Chennai – 600 025.  
   Alternatively, Tender documents can be downloaded  
   at free of cost from www.annauniv.edu/tender and  
   http://tender.tn.gov.in

4. Earnest Money Deposit (EMD)  
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Item</th>
<th>EMD Amount Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>For Server/Workstation</td>
<td>73,000/-</td>
</tr>
<tr>
<td>2.</td>
<td>For Desktop</td>
<td>1,00,000/-</td>
</tr>
<tr>
<td>3.</td>
<td>For Network &amp; WLAN</td>
<td>60,000/-</td>
</tr>
<tr>
<td>4.</td>
<td>For Tablet</td>
<td>12,000/-</td>
</tr>
<tr>
<td>5.</td>
<td>For all the items</td>
<td>2,45,000/-</td>
</tr>
</tbody>
</table>
   Demand Draft or Banker’s cheque.

5. Due Date, Time and place of  
   submission of tender  
   Upto 20.01.2014 at 1.00 P.M  
   Computer Purchase Committee, Ramanujan  
   Computing Centre, Anna University, Chennai -25.

6. Date, Time and Place of Tender  
   Opening of the Technical Bids  
   On 20.01.2014 at 3.00 P.M at Ramanujan Computing  
   Centre, Anna University, Chennai-600 025.

7. Date, Time and Place for opening  
   of the Price Bids  
   Will be intimated to the Technically Qualified Bidders only.

8. 1. **Eligibility Criteria:** Please refer to the Tender Document.  
   2. Two Bid System (i.e.) Stage-1 Technical bid; Stage-2 Price Bid opening.  
   3. Tenders received after due Date and Time will be summarily rejected.  
   4. Contact Phone Nos:  044 – 22358033, 22358003.  
   E-Mail: tender@annauniv.edu ; URL: www.annauniv.edu/tender
# Checklist for Enclosures

(Bidder should fill up YES or No without fail)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Bid Enclosures</th>
<th>YES or No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Whether Technical Bid (Envelope-A) and Price Bid (Envelope-B) prepared and signed and stamped in all pages by the Authorized Signatory?</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Whether EMD is put in the Technical Bid (Envelope – A)?</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Whether the Tender is submitted in <strong>Two covers namely Technical Bid (Envelope-A) and Price Bid (Envelope-B)</strong>?</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Whether Two covers are put into an outer cover duly closed with VAX sealed properly?</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td><strong>Whether Technical Bid (Envelope-A) contains the following</strong></td>
<td></td>
</tr>
<tr>
<td>5.1</td>
<td>Bidder’s covering letter in the Letter Head signed and stamped by the Authorized Signatory.</td>
<td></td>
</tr>
<tr>
<td>5.2</td>
<td>Whether Document proof for Annual Turn Over Enclosed?</td>
<td></td>
</tr>
<tr>
<td>5.3</td>
<td>Whether list of Technical Staff Details Enclosed?</td>
<td></td>
</tr>
<tr>
<td>5.4</td>
<td>Proof regarding the firm is involved in the supply and installation of Server/Workstation, Desktop, Network (Active &amp; Passive) Components/ WLAN and Tablet (Related copies of Purchase Orders) Enclosed?</td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>Whether proof that the firm has atleast one service centre in Chennai Enclosed?</td>
<td></td>
</tr>
<tr>
<td>5.6</td>
<td>Whether Document relating to TIN and Sales Tax Enclosed?</td>
<td></td>
</tr>
<tr>
<td>5.7</td>
<td>Whether OEM Authorized Certification is Enclosed?</td>
<td></td>
</tr>
<tr>
<td>5.8</td>
<td>Whether related Technical Data Sheets for Server/Workstation, Desktop, Network (Active &amp; Passive) Components/ WLAN and Tablet are enclosed?</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td><strong>Whether Price Bid (Envelope-B) contains the following</strong></td>
<td></td>
</tr>
<tr>
<td>6.1</td>
<td>Duly filled Price Bid which is signed and stamped by the Authorized Signatory put inside the Envelope - B?</td>
<td></td>
</tr>
</tbody>
</table>
1. ELIGIBILITY CRITERIA

The Bidders should meet the following Eligibility Criteria to participate in the Tender and should enclose supporting documents for fulfilling the Eligibility in the Technical Bid. Bids accompanied by the documents not fulfilling the requirements outlined in this section will be subject to rejection.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Minimum Eligibility Criteria</th>
<th>Supporting documents to be submitted for fulfilling the Eligibility Criteria</th>
<th>Yes or No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Bidder should be a Registered company in India and existing for the past Five years in India</td>
<td>Registration Certificate should be submitted.</td>
<td></td>
</tr>
</tbody>
</table>
| 1.2     | Bidder shall be providing following facilities at least for the last three years                                                                                                                                                  | i. Copy of the Single Purchase Order to the Value of **Rs. 25 lakhs** or above during the last three years for each item (**1.2.1, 1.2.2 & 1.2.3**)  
ii. Copy of the purchase orders totaling to the value of **Rs. 75 lakhs** or above during the last three years put together for each item (**1.2.1, 1.2.2 & 1.2.3**) |           |
| 1.2.1   | Server/Workstation                                                                                                                                                                                                              |                                                                                                                                  |           |
| 1.2.2   | Desktop                                                                                                                                                                                                                          |                                                                                                                                  |           |
| 1.2.3   | Network (Active & Passive Components) & WLAN                                                                                                                                                                                    | i. Copy of the Single Purchase Order to the Value of **Rs. 5 lakhs** or above during the last three years.  
ii. Copy of the purchase orders totaling to the value of **Rs. 15 lakhs** or above during the last three years. |           |
| 1.2.4   | Tablet                                                                                                                                                                                                                           |                                                                                                                                  |           |
| 1.3     | Bidder should have an average Annual Turnover of at least Rs. 3 Crores in the previous three audited years.                                                                                                                   | Annual Report including Balance Sheet and Profit & Loss accounts for the last three audited years shall be submitted.                                                                 |           |
| 1.4     | The company or tenderer should have good strength of service engineers in the relevant field of quoted item. However, the firm should have at least one service centre at Chennai.  
At the Chennai centre, the firm should have 5 certified Engineers in the relevant field of the quoted items (**1.2.1, 1.2.2, 1.2.3**).  
For the **1.2.4**, the quoted firm should have 5 certified Engineers in any one of the above. | List of technical staffs shall be submitted (Name, Designation, Salary Details and Date of joining the Firm).                                                                                     |           |
| 1.5     | Bidder should have valid sales tax/TIN/Service Registration Number.                                                                                                                                                           | Valid Documents for TIN/Service Registration Number shall be submitted.                                                                                                                        |           |
| 1.6     | Vendor can quote one or more items mentioned in the above and the Technical evaluation will be made separately for each item (**1.2.1, 1.2.2, 1.2.3 & 1.2.4**) and the Purchase Order will be issued separately. |                                                                                                                                  |           |
| 1.7*    | OEM Certification                                                                                                                                                                                                                 | Copy of the OEM’s Certification authorizing the Vendor as local partner/representative in India for the supply and installation of items indicated in the Tender Documents.  
Further, the OEM should give undertaking for product support for five years after completion of warranty period directly or through their authorized dealers/vendors. |           |
• The Bid should be submitted in two parts viz. Technical Bid (Envelope-A) and Price Bid (Envelope-B) as explained below.
• Each bid will be treated and evaluated separately.

TECHNICAL BID (ENVELOPE – A)
• The Technical Bid format as given in the Tender shall be filled, signed and stamped on all pages. Errors if any shall be attested by the Bidder. The Bid will be summarily rejected, if there is any indication of price in the Technical Bid. Any alterations, deletions or overwriting shall be attested with full signature of the authorised signatory.
• Any alterations, deletions or overwriting shall be attested with full signature of the authorised signatory.
• The Technical Bid with supporting documents and the EMD covers should then be put in a separate cover and sealed appropriately. The Technical Bid cover should be superscribed as “Technical Bid (Envelope-A) for supply and installation of Server/Workstation, Desktop, Network (Active & Passive) Components/WLAN and Tablet – Tender No.__________ due _________. The “FROM address” and “TO” Address” should be clearly written in the cover otherwise the Bid is liable for rejection.

PRICE BID (ENVELOPE – B)
• All the Price items as asked in the Tender should be filled in the Price Bid format as given in the Tender.
• The Bid is liable for rejection if Price Bid contains conditional offers / partial offers.
• The Price Bid shall be typed, signed and stamped in all pages by the authorised signatory of the Bidder. Any alterations, deletions or overwriting shall be attested with full signature of the authorised signatory.
• The Price Bid shall be put in a separate cover (Envelope-B) and sealed appropriately. The Price Bid cover(Envelope – B) shall be superscribed as “Tender for Supply and installation of Server/Workstation, Desktop, Network (Active & Passive) Components/WLAN and Tablet – Tender No.__________ due on__________”. The “FROM address” and “TO” Address” shall be written without fail, otherwise the Price Bid is liable for rejection.

OUTER COVER
The Technical Bid cover including EMD Cover (Envelope-A) and Price Bid cover (Envelope-B) shall then be put in a single outer cover and sealed appropriately by use of sealant. The outer cover shall be superscribed as “Tender for Supply and installation of Server/Workstation, Desktop, Network (Active & Passive) Components/WLAN and Tablet – Tender No: ____________ due on ____________”. The “FROM” address and “TO” address shall be written without fail otherwise the Technical Bid is liable for rejection.
MODE OF SUBMISSION OF BIDS

(a) The Bid should be submitted strictly as specified in the Tender document. The Bids should be submitted in the Office of the Computer purchase Committee, Ramanujan Computing Centre, Anna University, Chennai-600 025 on or before the due date and time.

(b) If the Bidder prefers to submit the Bid by post, the Bidder should ensure that the Bid reaches the Convener, Computer Purchase Committee, Ramanujan Computing Centre, Anna University, Chennai-600 025 on or before the due date and time. Anna University will not be liable or responsible for any postal delay or any other delay whatsoever.

(c) If any Bid is received after due date and time or unsealed or disorderly submitted or received by Facsimiles (FAX), the Bid will be treated as non responsive.

MODIFICATION AND WITHDRAWAL OF BIDS

The Bids once submitted cannot be modified or amended or withdrawn. No documents would be supplemented after submission of Bids.

TECHNICAL BID OPENING

The Tender outer cover and Technical Bid cover including EMD cover will be opened at the office of Ramanujan Computing Centre, Anna University, Chennai on the date and time as specified in the Tender Data sheet or any other date published in the Anna University website. The Tender will be opened in the presence of the Bidders who choose to be present. The representative of the Bidder who prefers to attend Tender opening shall bring an Authorization letter from the Bidder.

- EMD:

  (a) The EMD amount as specified in the Tender Data Sheet should be paid along with Technical Bid by way of Demand Draft or Banker's cheque drawn from any Nationalized Bank or Scheduled Bank in India and in favour of “The Registrar, Anna University, Chennai-25” payable at Chennai. No Bid shall be entertained without EMD.

  (b) The EMD amount of the unsuccessful Bidders will be refunded after finalization of the Tender within a reasonable time. The EMD amount held by Anna University till it is refunded to the unsuccessful Bidders will not earn any interest thereon.
**SCRUTINY DURING TENDER OPENING**

a) The scrutiny during the Tender opening will be held for the following.

i) Whether Tender is submitted in two cover system viz. Technical Bid Cover (Envelope – A) and Price Bid cover (Envelope – B)

ii) Whether required EMD amount is furnished and submitted along with Envelope - A.

b) All Bids fulfilling the above conditions alone will be considered for further evaluation otherwise, the Bids will be treated as rejected. The decision of Anna University will be final in this regard.

**TECHNICAL BID EVALUATION**

a) The Technical Evaluation will be held on the compliance of the Bid with respect to the Tender conditions.

b) The Bids will be held non-responsive and rejected if the Bids do not comply with the Tender conditions, if the Bids do not conform to the Technical Specifications and if the Bids do not establish the eligibility, capability and experience of the Bidders.

c) The Bidders who have duly fulfilled with the Technical requirements in the Technical Bid evaluation as above will be considered as Technically Qualified Bidders and they only will be eligible to participate in the opening of Price Bid.

d) The Bids of the Bidders who have failed to meet the Technical requirements in the Technical Bid evaluation as indicated above will be rejected.

e) Sl.No 1.2.2 (Desktop) should demonstrate the Bench Mark Test for all Type(i3, i5 & i7)

**PRICE BID EVALUATION**

1) The Price Bids (Envelope-B) of the Technically Qualified Bidders in Technical Bid (Envelope-A) alone will be opened and evaluated. The Price Bids will be opened in the presence of the Bidders at Anna University. The Bidders or their authorized representatives will be allowed to take part in the Price Bid opening.

2) The Price Bid evaluation will be conducted as stipulated in the Tamil Nadu Transparency in Tenders Act 1998 and Tamil Nadu Transparency in Tenders Rules 2000

   a) The quoted price shall be corrected for arithmetical errors;

   b) In cases of discrepancy between the prices quoted in words and in figures, lower of the two shall be considered.

3) The lowest evaluated price as per the above evaluation will be adjudged as L1 price.
1. **Delivery Period:** The delivery should be made within **3 weeks** from the date of receipt of purchase order.

2. **Warranty:** The entire item supplied by the vendor shall be guaranteed against any defects and the vendor should provide time-to-time operational maintenance support (On Site comprehensive Warranty). The said warranty should cover all the Hardware & Software Products. The warranty and service shall be provided directly from the manufacturer. The vendor shall be liable to rectify any defects that may be found in the equipment supplied at free of cost.

3. **Installation:** The installation should be done at the Main and MIT Campus, Anna University, Chennai at no extra cost.

4. **Response Time:** The response time of the vendor to attend to any complaint upon receipt of the complaint/information from the user should not be more than 24 hours.

5. The vendor must submit their tender document in the given format. Deviations from this format will automatically disqualify the tender process.

6. Anna University reserves the right to increase or reduce the quantity or even withdraw the tender without assigning any reasons thereof.

7. Anna University reserves the right to cancel the contract under repeated violations of the specified and mutually agreed QoS parameters.

8. Anna University is not responsible for any delay in delivery of equipments.

9. The items must be delivered and installed at the required locations at your own risk and cost.

10. **Any Proposal or Bid received after Bid submission date and time will not be entertained/considered.**

11. The Successful vendor has to provide training for installation and configuration for the items supplied by them to the staff involved in the project.

12. **The Rates are to be quoted in Indian Rupee Only.**

13. The validity of the quoted rates are minimum three months.
# SCHEDULE OF REQUIREMENTS

## 1. SERVER / WORKSTATION

<table>
<thead>
<tr>
<th>SL. No.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Server</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Type-1</td>
<td>2 Nos.</td>
</tr>
<tr>
<td></td>
<td>Type-2</td>
<td>3 Nos.</td>
</tr>
<tr>
<td></td>
<td>Type-3</td>
<td>3 Nos.</td>
</tr>
<tr>
<td></td>
<td>Type-4</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>B</td>
<td>Workstation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Type-1</td>
<td>4 Nos.</td>
</tr>
<tr>
<td></td>
<td>Type-2</td>
<td>5 Nos.</td>
</tr>
</tbody>
</table>

## 2. DESKTOP COMPUTER

<table>
<thead>
<tr>
<th>SL. No.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>a. i3 Desktop Computers</td>
<td>50 Nos.</td>
</tr>
<tr>
<td></td>
<td>b. i5 Desktop Computers</td>
<td>100 Nos.</td>
</tr>
<tr>
<td></td>
<td>c. i7 Desktop Computers</td>
<td>200 Nos.</td>
</tr>
</tbody>
</table>

## 3. (a). NETWORK ACTIVE COMPONENTS

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Type-I 24x1000 Base- T Port Manageable Switch atleast 2 SFP Combo ports</td>
<td>30 Nos.</td>
</tr>
<tr>
<td>2</td>
<td>Type-II 24x1000 Base- T Port Manageable Switch atleast 2 SFP Combo ports with PoE</td>
<td>08 Nos.</td>
</tr>
<tr>
<td>3</td>
<td>Fiber Optic Trans receiver(Module) – same make for sl.no 1,2 &amp; 3</td>
<td>4 Nos.</td>
</tr>
</tbody>
</table>

## 3. (b). NETWORK PASSIVE COMPONENTS

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UTP Cat 6 Cable</td>
<td>112 Boxes</td>
</tr>
<tr>
<td>2</td>
<td>UTP Cat 6 patch cord 1Mtr.</td>
<td>935 Nos.</td>
</tr>
<tr>
<td>3</td>
<td>UTP Cat 6 patch cord 2 Mtrs.</td>
<td>935 Nos.</td>
</tr>
<tr>
<td>4</td>
<td>Cat 6 Information Outlet with Surface mount Box</td>
<td>935 Nos.</td>
</tr>
<tr>
<td>6</td>
<td>24 Port CAT 6 Jack Panel</td>
<td>45 Nos.</td>
</tr>
<tr>
<td>7</td>
<td>12 Core Single Mode Fiber Optic Cable</td>
<td>900 Mtrs.</td>
</tr>
<tr>
<td>8</td>
<td>12 Port LIU with 2 Nos. of Duplex coupler on each LIU</td>
<td>5 Nos.</td>
</tr>
<tr>
<td>9</td>
<td>24 Port LIU with 2 Nos. of Duplex coupler on each LIU</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>10</td>
<td>Pigtail Connector</td>
<td>24 Nos.</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Description</td>
<td>Quantity in Nos.</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>11</td>
<td>Single Mode Fiber Patch Cord – 2 Mtrs.</td>
<td>6 Nos.</td>
</tr>
<tr>
<td>12</td>
<td>1/2” PVC Channel/ Pipe (Preferably Modi or Equivalent)</td>
<td>1200 Mtrs.</td>
</tr>
<tr>
<td>13</td>
<td>1” PVC Channel/ Pipe (Preferably Modi or Equivalent)</td>
<td>2100 Mtrs.</td>
</tr>
<tr>
<td>14</td>
<td>2” PVC Channel/ Pipe (Preferably Modi or Equivalent)</td>
<td>1400 Mtrs.</td>
</tr>
<tr>
<td>15</td>
<td>1” HDPE Pipe</td>
<td>830 Mtrs.</td>
</tr>
<tr>
<td>16</td>
<td>6U Rack with Cable Manager and accessories</td>
<td>5 Nos.</td>
</tr>
<tr>
<td>17</td>
<td>9U Rack with Cable Manager and accessories</td>
<td>13 Nos.</td>
</tr>
<tr>
<td>18</td>
<td>32U Rack with Fan, Power Manager, Cable Manager and accessories</td>
<td>3 Nos.</td>
</tr>
<tr>
<td>19</td>
<td>36U Server Rack with Fan, Power Manager, Cable Manager and accessories</td>
<td>2 Nos.</td>
</tr>
</tbody>
</table>

3 (C) Labour

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description</th>
<th>Quantity in Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Laying of PVC Pipe/Channel</td>
<td>4700 Mtrs.</td>
</tr>
<tr>
<td>21</td>
<td>Cat 6 UTP Cable Laying</td>
<td>34160 Mtrs.</td>
</tr>
<tr>
<td>22</td>
<td>Fixing Cat 6 Information Outlet with Surface mount Box</td>
<td>935 Nos.</td>
</tr>
<tr>
<td>23</td>
<td>Laying of HDPE Pipe</td>
<td>830 Mtrs.</td>
</tr>
<tr>
<td>24</td>
<td>Fiber optic cable laying</td>
<td>880 Mtrs.</td>
</tr>
<tr>
<td>25</td>
<td>Fiber splicing</td>
<td>24 Nos.</td>
</tr>
<tr>
<td>26</td>
<td>Trench Work and Laying of Fiber cable with 3 feet depth</td>
<td>500 Mtrs.</td>
</tr>
<tr>
<td>27</td>
<td>Man Hole – Construction of Brick Chamber of depth 4 Feet and 3’x3’ in size with 4” thickness RCC Cover Slap.</td>
<td>3 Nos.</td>
</tr>
</tbody>
</table>

3(D). WIRELESS COMPONENTS (WLAN)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Item Description</th>
<th>Quantity in Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A)</td>
<td>Indoor wireless Access Point</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>Wireless Access Point with external Antenna to provide Wi-Fi access to users with all necessary accessories to satisfy the technical specification.</td>
<td></td>
</tr>
<tr>
<td>(B)</td>
<td>Port Licensing</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>Licensing per Access point</td>
<td></td>
</tr>
<tr>
<td>(C)</td>
<td>Wireless Controller</td>
<td>01</td>
</tr>
<tr>
<td></td>
<td>- 350 access point license</td>
<td></td>
</tr>
<tr>
<td>(D)</td>
<td>Power Injector</td>
<td>150</td>
</tr>
</tbody>
</table>

4. TABLET

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tablet with 128 GB Memory</td>
<td>15 Nos.</td>
</tr>
</tbody>
</table>
# 1 (A). TECHNICAL SPECIFICATION for SERVER

## TECHNICAL SPECIFICATION FOR SERVER TYPE-I

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Technical Specification</th>
<th>Compliance (Yes/No)</th>
<th>Remarks for any deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make:</td>
<td>Model:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Processors</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dual Intel Xeon E5-2630v2 or higher 2.6GHz, 15M Cache, 7.2GT/s QPI, Turbo, HT, 6C, 80W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
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<td>Slots: PCI/PCI Express Slots (Not less than 5)</td>
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<td>Integrated RAID Controller with the cache size of atleast 512 MB</td>
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<td>Network Interface Cards</td>
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<td>Form Factor</td>
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<td>2U Rack Mountable with Mounting Kit</td>
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<td>11</td>
<td>Power Supplies</td>
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<td>Hot plug 750 Watts redundant Power Supply</td>
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<td>19.5” LED Monitor</td>
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<td>13</td>
<td>Keyboard and Optical Mouse</td>
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<td>15</td>
<td>Warranty</td>
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<td>Model: ___________________________</td>
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| 1 | Processors  
   Dual Intel Xeon E5-2620v2 or higher 2.1GHz, 15M Cache, 7.2GT/s QPI, Turbo, HT, 6C, 80W; | | |
| 2 | Chipset  
   Intel C600 or higher | | |
| 3 | Slots: PCI/PCI Express Slots (Not less than 5 ) | | |
| 4 | Memory  
   4x8GB RDIMM, 1600MHz | | |
| 5 | HDD Storage  
   8x1TB 7.2K RPM, 6Gbps Near Line SAS 2.5" Hot Plug Hard Drive | | |
| 6 | RAID  
   Integrated RAID Controller with the cache size of atleast 512 MB | | |
| 7 | Network Interface Cards  
   Quad Port (10/100/1000) Network Card  
   Dedicated NIC Port for Remote Management | | |
| 8 | Ports  
   3 NOS. USB, 1 Serial Port | | |
| 9 | Form Factor  
   2U Rack Mountable with Mounting Kit | | |
| 10 | Power Supplies  
   Hot plug 750 Watts redundant Power Supply | | |
| 11 | LED Monitor: 19.5“ | | |
| 12 | Keyboard and Optical Mouse | | |
| 13 | No Operating System | | |
| 14 | Warranty  
   3 years 24x7 warranty with onsite service support | | |
### TECHNICAL SPECIFICATION FOR SERVER TYPE-III

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<td>Memory 64 GB RDIMM, DDR3-1600MHz</td>
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<td>8</td>
<td>Ports 3 nos. USB, 1 Serial Port</td>
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<td>9</td>
<td>Form Factor 2U Rack Mountable with Mounting Kit</td>
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<td>Power Supplies Hot plug 495 Watts or above Redundant Power Supply</td>
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<td>12</td>
<td>Keyboard and Optical Mouse</td>
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<td>Make: ______________________</td>
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| 1 | Processors  
Dual Intel Xeon Processor E5-2420 or higher  
1.90GHz, 15M Cache, 7.2GT/s QPI, Turbo, 6C,  
95W | | |
| 2 | Chipset  
Intel C600 or higher | | |
| 3 | Slots: PCI/PCI Express Slots (Not less than 5) | | |
| 4 | Memory  
2x 8GB RDIMM, DDR3 1333MHz | | |
| 5 | HDD Storage  
4x300GB 10K/15K RPM, 6Gbps nearline SAS 2.5 "  
Hot Plug Hard Drive | | |
| 6 | RAID  
Integrated RAID Controller with the cache size of  
atleast 512 MB | | |
| 7 | Network Interface Cards  
Quad Port (10/100/1000) Network Card  
Dedicated NIC Port for Remote Management | | |
| 8 | Ports  
3 nos. USB, 1 Serial Port | | |
| 9 | Form Factor  
2U Rack Mountable with mounting kit | | |
| 10 | Power Supplies  
Hot plug 495 Watts or above redundant Power Supply | | |
| 11 | LED Monitor: 19.5" | | |
| 12 | Keyboard and Optical Mouse | | |
| 13 | No Operating System | | |
| 14 | Warranty  
3 years 24x7 warranty with onsite service support | | |
### 1(B). TECHNICAL SPECIFICATION FOR WORKSTATION TYPE - I

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<td>HDD Storage 2 x 500GB 7200 RPM SATA</td>
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<td>Optical Drive: DVD Writer</td>
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<td>Network Interface Cards Two Port (10/100/1000) Network Card</td>
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<td>Ports 3 nos. USB, 1 Serial Port</td>
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<td>9</td>
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<td>LED Monitor: 21.5”</td>
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<td>11</td>
<td>Keyboard and Optical Mouse</td>
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<td>Graphic Card: 1GB Graphics Card</td>
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<td>Warranty 3 years 24x7 warranty with onsite service support</td>
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## TECHNICAL SPECIFICATION FOR WORKSTATION TYPE - II

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<td>DVD Writer</td>
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<td>Two Port (10/100/1000) Network Card</td>
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## 2. TECHNICAL SPECIFICATION for DESKTOP COMPUTERS

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Make: ______________________  Model: ______________________
### TECHNICAL SPECIFICATION for DESKTOP COMPUTER TYPE – III

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<tr>
<td>5</td>
<td>DVD Drive – DVD Writer</td>
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<td>6</td>
<td>Graphics</td>
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<tr>
<td></td>
<td>Integrated 2013 Intel HD</td>
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<tr>
<td>7</td>
<td>Monitor</td>
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<tr>
<td></td>
<td>19.5” Wide LED Monitor</td>
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<tr>
<td>8</td>
<td>Keyboard &amp; Mouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USB OEM Keyboard &amp; USB Optical Mouse</td>
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<td>9</td>
<td>Ports</td>
<td></td>
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<tr>
<td></td>
<td>Minimum 4 external USB 2.0/3.0 ports (Front/ Rear), 1 Serial port and Mic-in &amp; Headphone out</td>
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<tr>
<td>10</td>
<td>Network</td>
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<tr>
<td></td>
<td>Gigabit Ethernet Port</td>
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<tr>
<td>11</td>
<td>Cabinet type</td>
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</tr>
<tr>
<td></td>
<td>Mini Tower with tool less Chasis</td>
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</tr>
<tr>
<td>12</td>
<td>OS Compliance – Windows &amp; Linux</td>
<td></td>
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<tr>
<td>13</td>
<td>No Operating System</td>
<td></td>
<td></td>
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<tr>
<td>14</td>
<td>Power Consumption – Standard 280W PSU</td>
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<td></td>
</tr>
<tr>
<td>15</td>
<td>Warranty</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 years 24x7 warranty with onsite service support</td>
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### 3(A). TECHNICAL SPECIFICATION FOR NETWORK ACTIVE COMPONENTS

#### Type – I

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Description</th>
<th>Compliance with Remarks (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make:</td>
<td>Model:</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Minimum 24x1000 Base Copper port at least 2 SFP combo ports</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Switch should have minimum 80 Mpps Forwarding Rate or more</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Switch should have minimum 256 MB RAM or more</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Switching fabric: Minimum 56 Gbps or more</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Port Security: The Switch should support Port security to manage the MAC addresses.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Layer 2 Switching: The Switch should support Active configurable VLANs, MAC based VLANs and Multicast VLANS. The Switch should support for minimum 4000 VLANs or more The Switch should support for Policy based switching. The Switch Should support minimum 16K MAC or more</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Management Features:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Supports DHCP Server</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- SNMP, HTTPS, SSH, SFTP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Auto configuration Backup and Bandwidth Scheduling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Auto disabling of port and log notification to identify the port</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Traffic analysis and troubleshooting</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- AAA Support - Support Radius &amp; TACACS+ (Terminal Access Controller Access-Control System Plus is an access control network protocol) for management sessions.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Local &amp; Remote mirroring, Ping &amp; trace route</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>QoS: Support for automatic Quality of Service for voice, video and data traffic conditions</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Warranty: Three Years warranty with onsite service support</td>
<td></td>
</tr>
<tr>
<td>Sl. No</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Minimum 24x1000 Base Copper port atleast 2 SFP combo ports with PoE</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Switch should have minimum 80 Mpps Forwarding Rate or more</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Switch should have minimum 256 MB RAM or more</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Switching fabric: Minimum 56 Gbps or more</td>
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</tr>
<tr>
<td>5</td>
<td>Port Security: The Switch should support Port security to manage the MAC addresses.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Layer 2 Switching: The Switch should support Active configurable VLANs, MAC based VLANS and Multicast VLANS. The Switch should support for minimum 4000 VLANs or more The Switch should support for Policy based switching. The Switch Should support minimum 16K MAC or more</td>
<td></td>
</tr>
</tbody>
</table>
| 7      | Management Features:  
- Supports DHCP Server  
- SNMP, HTTPS, SSH, SFTP  
- Auto configuration Backup and Bandwidth Scheduling  
- Auto disabling of port and log notification to identify the port  
- Traffic analysis and troubleshooting  
- AAA Support - Support Radius & TACACS+ (Terminal Access Controller Access-Control System Plus is an access control network protocol) for management sessions.  
- Local & Remote mirroring, Ping & trace route |
| 8      | QoS: Support for automatic Quality of Service for voice, video and data traffic conditions |
| 9      | Warranty: Three Years warranty with onsite service support |
### 3(B). NETWORK PASSIVE COMPONENTS

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Description</th>
<th>Compliance with Remarks (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preferably TE-AMP-Netconnect / schneider-Actassi /Molex/ equivalent</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>The OEM should have minimum 5 years presence in India and proof of Documents to be attached</td>
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</tr>
<tr>
<td>4</td>
<td>UTP Cabling solution should be ETL Verified for CAT6</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>All product should conform to RoHS compliance</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Second Brand product of any O.E.M should not be quoted</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>All UTP accessories needed to provide UTP(jack panel, Patch card, Information outlet, etc..) End-to-End connectivity must be from a single brand (any one brand specified above)</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>End – to – End Fiber accessories needed to provide FOC (LIU, Pigtail connector, etc..) End-to-End connectivity must be from a single brand (any (any one brand specified above)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>RJ45 connector should be from AMP or Equivalent</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>PVC Products should be from Modi’s brand or Equivalent</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Rack should be from HCL/APW President/VALRACK or Equivalent</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Supply and installation should be carried by professionals (should be a certified cable installer)</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>The vendor must supply wiring diagram after completion of the work.</td>
<td></td>
</tr>
</tbody>
</table>
## (i). Indoor Wireless Access Point

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Description</th>
<th>Compliance with Remarks (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Make: Model:</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Access point (AP) with integrated antenna for wider coverage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Minimum coverage distance in 50 or more meters)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Throughput  – 300 Mbps</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>It should support plug and play installation.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>It should support Secure Remote Management.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>It should support video and VoWLAN with fast roaming.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>International Wi-Fi certification.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>It should work on standard PoE (15.4W)</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Supports all IEEE 802.1x standards.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Warranty:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Three Years warranty with onsite service support</td>
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</tr>
</tbody>
</table>

## (ii). Wireless Controller

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Description</th>
<th>Compliance with Remarks (Yes/No)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Make: Model:</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>The wireless Controller should include 350 no of Access Point License</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Rack mountable with minimum of 4 numbers 10/100/1000 Base T ports. It should also have atleast 1- management port and 1-console port.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>The controller Architecture should be Layer 3 based.</td>
<td></td>
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<tr>
<td></td>
<td></td>
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<tr>
<td>---</td>
<td>---------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>It should support at least 2000 concurrent users.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>It should have dual AC Redundant power supply</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>It should support Dynamic RF Management.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>It should support Intelligent Traffic forwarding by user/application based scenarios.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>It should support Auto-discovery of new APs.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>The Architecture of controller should support Centralized and Distributed functionalities.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Central configuration and software update of access points through the central instance, with the option of automatic configuration and management of APs</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>It should Support video and VoIP with roaming facility.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>It should support bandwidth load-balancing of access point (switching over)</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>It should cover Network monitoring with the option of detecting unauthorized access points (rogue detection).</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>It should support IEEE 802.11 a/b/g/n standards-based wireless access points</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>It should have capability of Detection areas of insufficient radio frequency coverage or access point failure with correction through automatic service adaptation.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>The entire solution should support centralized management architecture</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Support SNMPv3 and web-based secured management interfaces</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>The authentication should be facilitated by local database and remote services such as Radius, LDAP</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>BYOD Feature (Bring your Own Device)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Controller should be Detect Client Device MAC address, device type such as windows device, Android device, iPhone, iPad etc and host name.</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>The Controller should support MAC binding access</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Warranty</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. OEM should give the necessary OS and patch updates for the controller for 3 years</td>
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</tr>
<tr>
<td></td>
<td>b. Should include 3 Year Hardware warranty</td>
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### 4. Technical Specification for TABLET

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<th>S.No</th>
<th>Technical Specification</th>
<th>Compliance with Remarks</th>
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<td>(Yes/No)</td>
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<tr>
<td></td>
<td>Make:_____________________ Model:_____________________</td>
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</tr>
<tr>
<td>1</td>
<td>Display and Resolution 9.7-inch and 2048x1536</td>
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</tr>
<tr>
<td>2</td>
<td>128 GB Memory</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>5MP Rear Camera, HD Front Camera</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>WiFi (802.11a/b/g/n )</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Sim facility with 3G support</td>
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</tr>
<tr>
<td>6</td>
<td>VGA Adapter(connection from Tablet to the Projector )</td>
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</tr>
<tr>
<td>7</td>
<td>Wireless keyboard (external keyboard connected through Bluetooth to the Tablet)</td>
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<tr>
<td>8</td>
<td>E-mail (IMAP, POP3, SMTP, Microsoft Exchange)</td>
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</tr>
<tr>
<td>11</td>
<td>Mail attachment support (.jpg, .tiff, .gif (images) .doc and .docx ,PDF, ppt and pptx, vcf, xls and xlsx )</td>
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</tr>
<tr>
<td>12</td>
<td>10 Hours Battery</td>
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<tr>
<td>13</td>
<td>Protective case</td>
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<tr>
<td>14</td>
<td>One year manufacturer’s warranty</td>
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</table>
### 1. SERVER/WORKSTATION

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY in Nos.</th>
<th>UNIT COST (')</th>
<th>TAX (')</th>
<th>TOTAL AMOUNT (')</th>
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<tr>
<td>1</td>
<td>Server</td>
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<td></td>
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<td>Type-4</td>
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<td>2</td>
<td>Workstation</td>
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<td>Type-1</td>
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<td></td>
<td>Type-2</td>
<td>5</td>
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</table>

**Note:** AMC cost after the warranty period should be quoted separately for 3 Years (yearwise).

### 2. DESKTOP COMPUTERS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY in Nos.</th>
<th>UNIT COST (')</th>
<th>TAX (')</th>
<th>TOTAL AMOUNT (')</th>
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<tr>
<td>1</td>
<td>Desktop Computers</td>
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<tr>
<td></td>
<td>a. i3 System</td>
<td>50</td>
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</tr>
<tr>
<td></td>
<td>b. i5 System</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. i7 System</td>
<td>200</td>
<td></td>
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</tr>
</tbody>
</table>

**Total Amount (Inclusive of all taxes)**

**Note:** AMC cost after the warranty period should be quoted separately for 3 Years (yearwise).

### 3 (a). NETWORK ACTIVE COMPONENTS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY in Nos.</th>
<th>UNIT COST (')</th>
<th>TAX (')</th>
<th>TOTAL AMOUNT (')</th>
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<tbody>
<tr>
<td>1</td>
<td>Type-I</td>
<td>30</td>
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<tr>
<td></td>
<td>24x1000 Base- T Port Manageable Switch</td>
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<tr>
<td>2</td>
<td>Type-II</td>
<td>8</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>24x1000 Base- T Port Manageable Switch with PoE.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Fiber Optic Trans receiver(Module) – same make for sl.no 1 &amp; 2</td>
<td>4</td>
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<td></td>
</tr>
</tbody>
</table>

**Total Amount (Inclusive of all taxes)**

**Note:** AMC cost after the warranty period should be quoted separately for 3 Years (yearwise).
### 3 (b). NETWORK PASSIVE COMPONENTS

<table>
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<tr>
<th>Sl. No</th>
<th>Description</th>
<th>Qty.</th>
<th>Unit Rate in (\text{`})</th>
<th>Tax in (\text{`})</th>
<th>Total Amount in (\text{`})</th>
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<tr>
<td>1</td>
<td>UTP Cat 6 Cable</td>
<td>112 Boxes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>UTP Cat 6 patch cord 1Mtr.</td>
<td>935 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>UTP Cat 6 patch cord 2 Mtrs.</td>
<td>935 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cat 6 Information Outlet with Surface mount Box</td>
<td>935 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>24 Port CAT 6 Jack Panel</td>
<td>45 Nos.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>6</td>
<td>12 Core Single Mode Fiber Optic Cable</td>
<td>900 Mtrs.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>12 Port LIU with 2 Nos. of Duplex coupler on each LIU</td>
<td>5 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1/2&quot; PVC Channel/ Pipe (Preferably Modi or Equivalent)</td>
<td>1200 Mtrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1 &quot; PVC Channel/ Pipe (Preferably Modi or Equivalent)</td>
<td>2100 Mtrs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>2&quot; PVC Channel/ Pipe (Preferably Modi or Equivalent)</td>
<td>1400 Mtrs.</td>
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</tr>
<tr>
<td>11</td>
<td>Pigtail Connector</td>
<td>24 Nos.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>12</td>
<td>Single Mode Fiber Patch Cord – 2 Mtrs.</td>
<td>6 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>1&quot; HDPE Pipe</td>
<td>830 Mtrs.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Item Description</td>
<td>Quantity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------------------------------------------</td>
<td>----------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>6U Rack with Cable Manager and accessories</td>
<td>5 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>9U Rack with Cable Manager and accessories</td>
<td>13 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>32U Rack with Fan, Power Manager, Cable Manager and accessories</td>
<td>3 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>36U Rack with Fan, Power Manager, Cable Manager and accessories</td>
<td>2 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**3(C) Labour Cost**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Laying of PVC Pipe/Channel</td>
<td>4700 Mtrs.</td>
</tr>
<tr>
<td>22</td>
<td>Cat 6 UTP Cable Laying</td>
<td>34160 Mtrs.</td>
</tr>
<tr>
<td>23</td>
<td>Fixing Cat 6 Information Outlet with Surface mount Box</td>
<td>935 Nos.</td>
</tr>
<tr>
<td>24</td>
<td>Laying of HDPE Pipe</td>
<td>830 Mtrs.</td>
</tr>
<tr>
<td>25</td>
<td>Fiber optic cable laying</td>
<td>880 Mtrs.</td>
</tr>
<tr>
<td>26</td>
<td>Fiber splicing</td>
<td>24 Nos.</td>
</tr>
<tr>
<td>27</td>
<td>Trench Work and Laying of Fiber cable with 3 feet depth</td>
<td>500 Mtrs.</td>
</tr>
<tr>
<td>28</td>
<td>Man Hole – Depth 4 Feet and Width 3 Feet (Size – 3x3x4)</td>
<td>3 Nos.</td>
</tr>
</tbody>
</table>

**Total Amount (Inclusive of all taxes)**

*Note:* For Labour, payment on actual work.
### 3.(D) Wireless Components (WLAN)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY.</th>
<th>UNIT COST (')</th>
<th>TAX (')</th>
<th>TOTAL AMOUNT (')</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Indoor Access Point</td>
<td>150 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Port Licensing</td>
<td>150 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Power Injector</td>
<td>150 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Wireless Controller</td>
<td>1 No.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Amount (Inclusive of all taxes)**

**Note:** AMC cost after the warranty period should be quoted separately for 3 Years (yearwise).

### 4. TABLET

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>ITEM DESCRIPTION</th>
<th>QTY.</th>
<th>UNIT COST (')</th>
<th>TAX (')</th>
<th>TOTAL AMOUNT (')</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tablet</td>
<td>15 Nos.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Amount (Inclusive of all taxes)**

**Note:** AMC cost after the warranty period should be quoted separately for 3 Years (yearwise).

**GRAND TOTAL**

1. = `'
2. = `'
3. = `'
4. = `'

```
-------------------------
Total = `'
-------------------------
(Inclusive of all Taxes)
```
BID COVERING LETTER

To:

The Convener,
Computer Purchase Committee,
Ramanujan Computing Centre, Anna University
Chennai, Tamil Nadu, INDIA.

Dear Sir,

Supply and Installation of Server/Workstation, Desktop, Networking Active/Passive Components/ Wireless Networking and Tablet to the Anna University, Chennai – 25.

1. TERMS AND CONDITIONS

a. I/We, the undersigned Bidder(s), having read and examined the specifications and all bidding documents in respect of this tender do hereby propose to provide goods and services as specified in the bidding document.

b. I/We, the undersigned Bidder(s), having submitted the qualifying data as required in this tender, do hereby bind ourselves to the conditions of this tender. In case any further information documentary proof in this regard before evaluation of our bid is required, I/We agree to furnish the same on demand to your satisfaction.
2. RATE AND VALIDITY
   a. All the rates mentioned in our proposal are in accordance with the terms as specified in bidding documents. All the rates and other terms and conditions of this proposal are valid for a period of 90 Calendar days from the date of opening of the bid.
   b. I/We do hereby confirm that our bid rates include all taxes.
   c. I/We have studied the Clauses relating to Indian Income Tax Act and hereby declare that if any Income Tax, surcharge on Income Tax and any other Corporate Tax is altered under the law, shall pay the same.

3. DEVIATIONS
   We declare that all the services shall be performed strictly in accordance with the Technical specification, Time Schedule and other terms of the tender document except the deviation as mentioned in the Technical Deviation Proforma. Further, I/We agree that additional conditions, if any, found in the proposal documents, other than those stated in deviation proforma, shall not be given effect to.

4. BID PRICING
   I/We further declare that the rates stated in our proposal are in accordance with your terms and conditions in the bidding document.

5. EARNEST MONEY
   I/We have enclosed the earnest money as specified in the Tender Document. In case of default it is liable to be forfeited in accordance with the provisions of the tender document.

6. BANK GUARANTEE
   If I/We become the successful vendor I/We agree to furnish the amount to the tune of 10% of the total value of the project before releasing the purchase order towards Bank Guarantee.

7. I/We hereby declare that my/our proposal is made in good faith, without collusion or fraud and the information contained in the proposal is true and correct to the best of my/our knowledge and belief and nothing has been concealed there from.

   Thanking you,

   Yours faithfully,

   Date:
   Place:  (Signature)