

Assam University: Silchar

Notice Inviting Tender

No: AUE/NETWORK/2014-15

Dated: 22/03/2016

Item wise sealed tender (in two bid system) valid for 120 days are invited from experienced and financially sound agencies/contractors having valid Registration and appropriate license for the following work at Examination Branch, Assam University, Silchar. Tender document can be obtained from the Computer Centre or may be downloaded from www.aus.ac.in. Demand Draft of Rs. 1000/- in favour of Assam University, Silchar, payable at Silchar, to be submitted along with the bid as bid processing fees.

Name of the work	Estimated Cost (Approximate)	Time of Completion	EMD	Last Date & Time for submission of the Tender*	Date and timing of Opening of the Tender
Restructuring of Networking Infrastructure in Examination Branch	₹ 3,87,650/-	2 months	₹ 5,000/-	26-04-2016 1 P.M	26-04-2016 2 P.M

*In case there is a Call for Strike, Local Bandh, etc. on April 26, 2016; the next working day would be considered for submission and opening of tender.

The University reserves every right to accept or reject any or all tender. Reason for rejection of tender(s), if any shall be intimated to the concerned bidder(s).

Sd/-

Director, Computer Centre



ASSAM UNIVERSITY, SILCHAR

OPEN TENDER NOTICE NO. AUE/NETWORK/2014-15

DATED: 22/03/2016

**RESTRUCTURING OF NETWORKING INFRASTRUCTURE IN EXAMINATION
BRANCH**

NOTIFICATION NO.

: AUE/NETWORK/2014-16

DATE OF ISSUE

: 22/03/2016

BID CLOSING TIME AND DATE

: 26/04/2016 within 1 p.m.

Application fee for submitting tender

: ₹. 1000.00 (in DD)

SCHEDULE OF EQUIPMENTS

: AS PER ANNEXURE 1 & 2

Tender must be submitted in two parts (Part-I: Technical Proposal, Part –II: Financial Proposal) in separate envelopes. These two envelopes may be put into a sealed envelope, superscripting therein “Tender No., Bid Closing Date, Bidder’s name etc.” and dropped in the tender box placed at Computer Centre of **Assam University, Silchar – 788011** on or before 1 p.m. on 26/04/2016. Under no circumstances tender will be accepted after the due date and time of closing. For details please visit University website www.aus.ac.in.

Sd/-

**Director, Computer Centre
Assam University, Silchar- 788011**

ASSAM UNIVERSITY, SILCHAR

**TERMS AND CONDITIONS FOR SUPPLYING, INSTALLATION & COMMISSIONING OF
RESTRUCTURING OF NETWORKING INFRASTRUCTURE IN EXAMINATION BRANCH**

Ref. AUE/NETWORK/2014-15

Dated. 22/03/2016

1. Only Manufacturers/Distributors/Authorized Dealer (Herein after called the Vendor) of reputed brands having wide experience in dealing with items at Annexure 'A' only may submit the tenders. Tender is to be submitted in a sealed envelope superscribing **"TENDER FOR RESTRUCTURING OF NETWORKING INFRASTRUCTURE IN EXAMINATION BRANCH"** with Tender No. and last date of submission, addressing to the Director, **Computer Centre, Assam University, Silchar**. Any bids without the same would be rejected on the spot.
2. The party must have experience in supply & installation of such items in Govt. organization /Public Sector Enterprises and Universities etc. with at least three years of experience and also have networking project experience in educational institutions. Certificate in this regard from the responsible officer of that organizations with contact no, e-mail address etc is to be submitted. Any bids without the same would be rejected on the spot.
3. The bidder should be a registered firm in India, having C.S.T /VAT/PAN/TIN/Service Tax etc. Any bids without the same would be rejected on the spot.
4. The bidder must be the Authorized Partner of the OEM of Active Components and should produce a Letter of Authorization from the OEM. Any bids without the same would be rejected on the spot.
5. The bidder having ISO 9002 certificate or similar certification would be preferred.
6. The bidder must submit the latest Income tax, PAN card & Sales tax clearance certificates with the tender. Any bids without the same would be rejected on the spot.
7. The tender should be accompanied with a Demand Draft of Rs. 5,000/- (Rupees Five Thousand only) from any nationalized bank pledged in favour of the **Finance Officer, Assam University, Silchar** as **Earnest Money Deposit (EMD)**. Earnest money of the bidders will be released after finalisation of the deal.
8. The bidder should quote one rate per item, which should be inclusive of all taxes and any other charges etc. The rate so quoted should be for EXAMINATION BRANCH, Assam University, Silchar. The standard warranty period should be 3 years from the date of installation for all active components.
9. The rate quoted should be for the items and specification as mentioned in the list. The party should not quote for components of higher specification. If the bidder wishes to quote for a higher/superior specification, it must be separately stated along with proof that the specification is higher/superior. In no case they should quote for lower/inferior

specification. The party should quote for the Active components which should be easily integrated, compatible, maintain throughput, etc. with the existing switch available at Examination Branch/ University Campus Network. In that case the tender will be rejected.

10. Being an educational institute, Assam University, Silchar is entitled for Custom and Central Excise duty exemption for procurement of scientific equipment etc. The interested bidder while quoting rates should indicate the Excise duty component and tax component separately.
11. The bidders shall have to submit their tenders within 1 p.m. of 26/04/2016 at Computer Centre, Assam University, Silchar. No tender will be entertained after the scheduled time and date of submission of tenders. The same will be opened on 26/04/2016 at 2 pm.
12. A committee of experts constituted by the University authority will evaluate the technical and financial bids of each tender to prepare the panel of successful tenders.
13. The successful bidder after receipt of the supply order has to deposit 10% of supply order in the form of BG/FDR from any nationalized bank in favour of **Assam University Silchar payable at Silchar** as security deposit along with the confirmation of acceptance of the Supply Order. The security deposit will be released only after the completion of warranty period.
14. The successful bidder shall have to supply the items strictly as per the configuration as stated in the supply order and should conform to the make/brand quoted and shall have to complete the supply and installation and Commissioning within 2 months from the date of issue of purchase order. Time of installation and Commissioning may be extended only after receiving written request from supplier on genuine ground
15. No request for advance payment shall be entertained in any circumstances. After completion of the supply the party will obtain a certificate of successful **Commissioning of Internet facility at the Examination Branch** from the Controller of Examinations, Assam University Silchar.
16. The successful bidder shall have to provide onsite warranty support for at least 3 years from the date of successful installation. For any kind of non-functioning or malfunctioning of the network at the user end shall have to be attended by the bidder within 24 hours during the warranty period (or in next working day in case of holidays) after receiving verbal/written/e-mail complain and will make the network functional free of cost. In case any active component has to be taken out of the University, the bidder should provide a standby support system/peripheral with same or higher/new configuration /specification.
17. If the bidder fails to attend to the breakdown calls made within the warranty period, a portion or whole of the security deposits as decided by the University shall be forfeited.
18. The bidder should deploy qualified technician and use proper tools and materials while executing the works. The materials should be completely taken care by the Vendor and in case of any wear and tear or shortage of material during execution of works or any other

damage will be the sole responsibility of the Vendor.

19. The bidder shall ensure that the cabling and terminations are done in accordance with the industry standard. The bidder shall submit a certificate from OEM of LAN passive components like patch cords/cables, I/O boxes etc. that these components can be used continuously for a minimum period of 10 years.
20. The competent authority, Assam University Silchar, reserves the right to accept or reject any or all tenders and also to modify in exceptional case any of the stipulated terms and conditions on merit on genuine and justifying grounds if it is in the greater interest of the University which shall be notified in the University website if required. The final acceptance of the tenders rests entirely with the competent authority of Assam University Silchar whose decision shall be final and binding.
21. The consignment is required to be sent to ***The Computer Centre, Assam University, Silchar Campus along with delivery challan*** under vendor's own arrangement free of any additional charges along with the installation of the supplied items at Examination Branch, AUS. In case of damage or loss in transit, if any will be borne by the vendor.
22. After commissioning the vender shall obtain the certificate of successful **Commissioning of Internet facility along with the details of the items installed** at the Examination Branch duly signed by the Controller of Examination, AUS.
23. One Copy of delivery challan, Commissioning Certificate and three copies of Bills in original should be send to the Director, Computer Centre, Assam University, Silchar for processing of payments.
24. The technical documentation (Switch configuration details, OFC and Ethernet cable route diagrams) signed from the Examination Branch will be submitted to the Computer Centre by the bidder for processing of the payment.
25. Where applicable, AGST will be deducted at source before release of payment to the bidder.
26. The equipment/tools are required to be delivered/dispatched within Four Weeks from the date of receipt of the supply order .Time of supply shall be extended only after receiving written request from supplier on genuine ground and in extreme cases. Suppliers are requested to take care that all the items mentioned in annexure are to be supplied in full set basis as per specification and the items are required to be tested and if needed to be installed. User's manuals and software are also to be provided along with the items supplied where applicable.
27. The stores offered should be of the best/standard quality available unless, otherwise specified conforming strictly to the specification cited. The University reserves the right to

reject such stores as are found unacceptable on these grounds. Items of only reputed manufacturers will be given preference.

28. If a firm accepts the order and fails to execute the order in full or part as per terms and conditions stipulated therein, it will be open to the Competent Authority to recover liquidated damage from the firm at the rate of 1% per month or the part thereof, subject to a maximum of 5% of the value of the undelivered stores. It will also be open to the Competent Authority alternatively to arrange procurement of the required stores from any source, at the risk and expense of the firm that has accepted the order and failed to execute the order according in stipulations agreed upon. This will also entail removal of the defaulters name from the approved/registered list of bidders.
29. The approximate quantities of item proposed to be purchased as mentioned in the list are liable to be increased or decreased at the time of placement of purchase order.
30. Special discount /rebate admissible to Educational Central University may be specifically mentioned in the quotation.
31. Tenders not conforming to the terms and conditions and procedure so outlined are liable to be rejected summarily. University reserves the right to reject any or all tender at any time without assigning any reasons thereof.
32. If there be any dispute, it will be referred to an arbitrator to be appointed by the University for his decision and award. The award or decision of the arbitrator shall be final and binding on both the parties.
33. Civil Court shall have no jurisdiction to entertain any dispute regarding this tender.

Those bidders, who accept the above terms and conditions, may submit their tenders in the prescribed format along with all relevant documents / brochures in the Tender Box in the Computer Centre, Assam University, Silchar on or before the stipulated date.

The tenderer must also submit a certificate in their official letter head duly signed and sealed stating that all the above terms and conditions are acceptable to them.

Sd/-

Director, Computer Centre

Memo No.: AUE/NETWORK/2014-15

Dated. 22/03/2016

Copy to:

1. Controller of Examination for information
2. File

Sd/-

Director, Computer Centre



Part A-General Instruction

Check-list

Please arrange all relevant documents in the following order:

SI No	Item	Yes/No
1	Application fee of Rs.1000/- in form of Demand Draft in favour of Finance Officer, Assam University Silchar .	
2	EMD of Rs. 5000/- in the form of Call Deposit in favour of Finance Officer, Assam University Silchar.	
3	Authorization letter from OEM(in original)(For Active as well as passive components)	
4	Self attested xerox copy of Certificates as proof of working experience from previous organizations.	
5	Self attested xerox copy of Trade License	
6	Self attested xerox copy of IT Return of last three Financial Years	
7	Self attested xerox copy of PAN Card	
8	Self attested xerox copy of CST/VAT Clearance Certificate if quoted in the tender with VAT.	
9	Declaration from the bidder in their official pad stating that all the terms and conditions are acceptable .	
10	Signature in all the pages of the tender document & duly stamped.	

Sd/-
Director, Computer Centre
Assam University Silchar

Annexure -1

Assam University Silchar
Details of Networking Components required for Examination Department

Sl.No	Items	Specifications	Quantity.
1	L2 Manageable 48 Port 10/100/1000 Access Switch	48 X 10/100/1000 Base T POE Ports with 2GE SFP uplink ports (with 2 dedicated SFP and 2 combo uplink ports, Single Mode), and populated with compatible 2 Gig SFP Module.	1 no.
2	SFP Module	GLC – LH – SM Module or compatible with existing Cisco Catalyst 3560G series Switch	2 nos.
3	Fibre Patch Cord 2 meter (SC – LC Patch cord)	Fibre Patch Cord 2 meter (SC – LC Patch cord)	2 nos.
4	Wall Mount 6/12F port LIU	To Terminate SM 6/12F OFC, Wall Mounting	1 no.
5	Patch Panel	24 Port rack mountable	2 nos.
6	UTP Patch cord	1 Meter, UTP Cat 6A or higher standard	26 nos.
7	UTP Patch cord	2 Meters, UTP Cat 6A or higher standard	26 nos.
8	Networking I/O Box	UTP I/O Box	26 nos.
9	Networking UTP Cable	UTP Cat 6A or higher standard	4 boxes.
10	Rack	Wall mounting 6U rack with cable manager and Power distribution box up to 5 sockets.	1 no.
11	UTP Cabling	PVC casing and cabling including crimping at both ends, fixing of I/O ports.	Per meter basis on actual.
12	Optical Fibre Cable for interconnection of buildings	(i) OF Cable (6/12F) cost (ii) Trenching & Laying Cost (iii) OFC marking pillar (iv) OFC Splicing (v) Road Boring with GI pipe (if required)	(i) 150m (ii) Per meter basis on actual (iii) 3 nos. (iv) Per splicing basis on actual (v) Per meter basis on actual

A) Structured Cabling System:

- i. The structured Campus LAN Network Cabling System is to be designed following the EIA/TIA Commercial Building cabling Standards. Category -6 (CAT 6) or higher. The UTP Cabling shall meet ISO cabling standards and local construction and telecommunication regulations. The Cabling shall provide a user friendly environment with less technical support and lower maintenance cost.
- ii. The cables at the workstation end have to be terminated on the CAT-6 RJ-45 outlets or higher and at the Switch Side the same to be terminated on the appropriate patch panels.
- iii. The rack mountable 24 ports unloaded Patch Panels shall be used along with CAT-6 RJ-45 or higher outlets
- iv. Each equipment, panel and outgoing cable from the patch panels shall be labelled. Proper labelling and numbering shall also be provided on the outlets. All cable labels are to be of clear wrap around self-adhesive type & each cable is to be labelled attach end at 100 mm from termination point. Labelling to be machine typed.
- v. The bidder shall plan the cabling system and routing to ensure system-integrity and performance, and that it does not present problems of maintenance, access nor conflict with the operation and maintenance of other systems.
- vi. All necessary penetrations and access between floors is the responsibility of the bidder, to provide same, and to ensure all penetrations and access holes are fully sealed to local Fire Authority rules.
- vii. The bidder shall provide adequate support for all cabling that is vertically installed, ensuring that the weight of the cables is sufficiently supported.

B) Trenching and Laying:

The supplier shall adhere to the following practices:

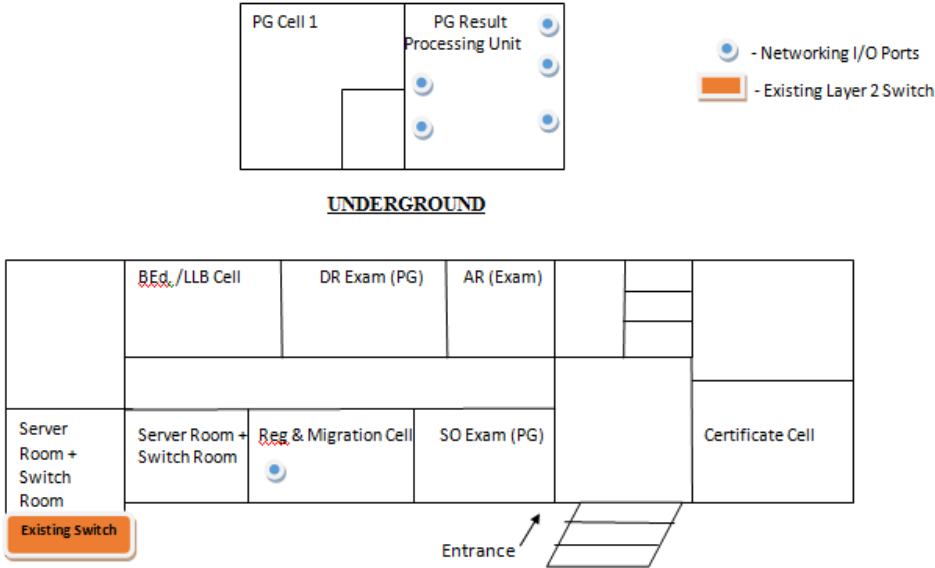
1. Trenching should be done as per the marking given by the Site In charge in consultation with the University authorities.
2. Obtain Right of way/ way leave permission from Assam University authority.
3. Avoid using machinery for trenching in the University campuses. Manual trenching is desirable.
4. Supplier shall comply with labour act in force in respect of labour engaged for trenching, pipe laying, and cabling blowing. Supplier shall remain principle employer for the labour so engaged & University shall in no way be responsible for the omissions/Commissions made by the supplier on this account.
5. Excavation of trench up to a depth of 100 cm according to construction specifications inside the University campus and other public roads.
6. Soil shall be filled up to a height of 250 mm above the cable and covered with warning tape. The remaining height of the trench shall be filled with soil.
7. If the laying has to be done outside the campus along/across the public roads, protection with GI/DWC has to be provided at depth of 100 cm.
8. Laying of PLB Pipes/Coils coupled by PLB push fit couplers in excavated trenches and also on bridges and culverts.
9. Providing mechanical protection by R.C.C Pipes/GI pipes and /or concreting /chambering according to construction specifications, wherever depth of the trench is less than 100 cm
10. Excavated trenches should be back filled and neatly rammed to its original position.

11. The joint chambers are to be provided at every joint to keep the O.F.C joint well protected and also to keep extra length of cable, which may be required to attend the faults at a later date. Jointing chambers are to be prepared normally at a distance of every 2 kms. Actual location of jointing chambers depends on length of cable drum and appropriateness of location for carrying out jointing work. The jointing chambers are constructed either of brick masonry work at site & pre cast RCC slabs for covers or by way of fixing pre-cast RCC chambers and covers.
12. For fixing pre cast RCC chamber, first a pit of size 2m * 2m * 1.8 m depth is required to be dug. Pre cast RCC chamber consists of three parts (i) round base plate in two half of 140 cm dia and 5 cm thickness. (ii) Full round RCC joint chamber with dia of 140 cm and thickness of 5 cm having one handle for each half in center and word 'OFC-AUS-Exam' engraved on it. The full round RCC chamber may be of different height or in two halves, as per the requirement of local conditions. Pre cast RCC chamber (which is coming in part) should be placed in the pit and parts should be fixed by applying cement mortar. After fixing the pre cast RCC joint chamber, the joint chamber is filled with clean sand before closing. Lastly, back filling of joint chamber pit with excavated soil should be carried out up to normal ground level and compacted.
13. Cable shall be blown after pipe laying is completed.
14. The route/Joint indicators made of pre-cast RCC shall be supplied by the supplier and shall have the following dimensions approx.: Base - 250 mm * 150 mm; Top - 200 mm * 75 mm; Height -- 1250 mm.

C) OPTICAL FIBRE Cable laying Specification:

- i. 6/12-Core SMF cable that supports dual wavelength (transmitting at 1310 nm and 1550nm ranges) as per IS standard should be used for Data Backbone.
- ii. Cable shall have identifier labels at both ends of the cable. Label material shall be suitable for the environment.
- iii. Cables should be buried at a depth of 1 mtr in PLB/ HDPE pipe with spec as per standards. Soil shall be filled up to a height of 250mm above the cable and covered with warning tape. The remaining height of the trench shall be filled with soil. Cable bend radius should be as per the norms and cable markers should be provided every 1 meter each cable type shall be terminated as indicated below.
- iv. Cable shall be laid and terminated in accordance with the recommendations made in the TIA/EIA document, manufacture's recommendations and/or best industry practices.
- v. Bend radius of the cable in the terminations area shall not be less than 20 times the outside diameter of the cable.
- vi. Buffer tubing should be used before the terminations or splicing at the enclosure end.
- vii. Cables shall be neatly clamped on the walls near the terminations boxes or shelves in the racks.
- viii. Each cable shall be clearly labelled at the enclosure end. Cables labelled within the shelf or wall mount enclosures, where the label is obscured from view shall not be acceptance.
- ix. Additional OFC of at least 20 mtr of length should be left at the enclosure end on both sides for future sharing of Rack/Wall enclosures.

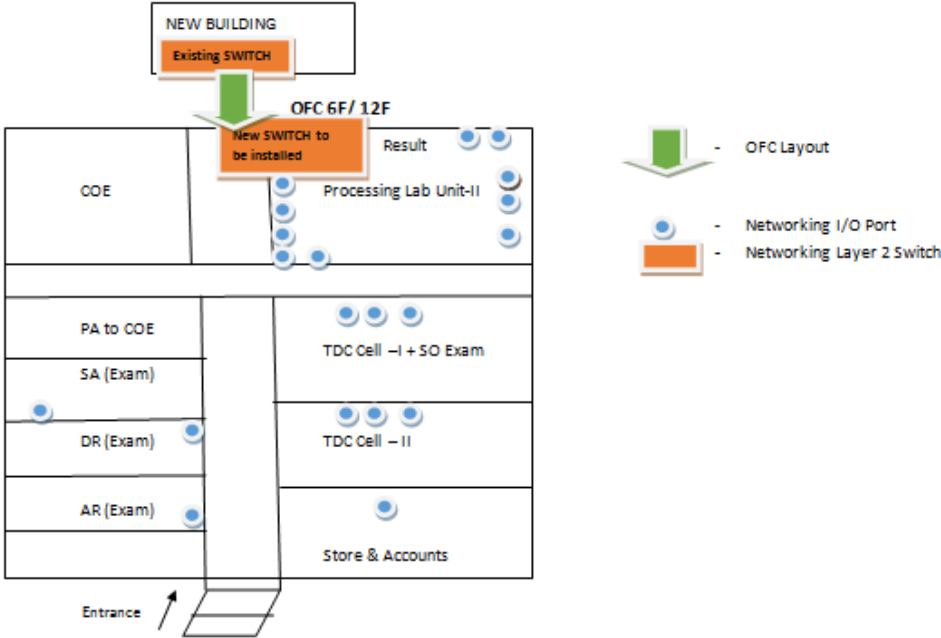
Layout Diagram in Examination (New Building)



OFC & UTP Layout Diagram of Networking in Examination (New Building)

Note: - The given Networking I/O point locations in the above Layout may vary at the time of execution keeping the no. of I/O Ports & cable box same as in Annexure - 1

Layout Diagram in Examination (Old Building)



OFC & UTP Layout Diagram of Networking in Examination (Old Building)

Note: - The given Networking I/O point locations in the above Layout may vary at the time of execution keeping the no. of I/O Ports & cable box same as in Annexure - 1