

Panjab University Chandigarh – 160014

Tender Document for Supply, Installation, Implementation, Integration of Network Switches, Optical Fibre Ring and SSL VPN

Tender No. Network-02/12

<http://tenders.puchd.ac.in>

Tender Document



**Panjab University, Chandigarh India – 160014
Tel: +91 172 253 4064**

Tender: Rs. 500/-

RECEIPT

Receipt Number _____

Issued to _____

Against request Number _____ dated _____

and payment vide Cash / Bank Draft drawn upon:

Number _____ dated _____ for Rs. 500/- only (Rupees Five Hundred Only).

Tender Document issued on _____

Director,
Computer Centre
Panjab University
Chandigarh-160014.

IMPORTANT DATES

S No	Description	Final Schedule
1	Date of uploading the Tender Enquiry on University website	Tender Documents can be downloaded from the University website http://tenders.puchd.ac.in w.e.f. Wednesday, 11th January 2012 . The cost of Tender Document needs to be deposited along with the tender in the shape of Demand Draft in favour of Registrar, Panjab University Chandigarh payable at Chandigarh. Payments made through any other mode will not be accepted.
2	Last date of submission of Tender	Up to 17:00 hrs on Thursday, 2nd February 2012 at Computer Centre, Panjab University Chandigarh-160014.
4	Date of opening of the Technical Bids	At 12:00 hrs on Friday, 3rd February 2012 at Computer Centre, Panjab University Chandigarh-160014.

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1. INTRODUCTION

The objective of this Tender is the augmentation and up gradation of the existing data communication infrastructure at Panjab University Chandigarh. The proposed optical ring connectivity is desired to be 10/20 G and should be capable of supporting a futuristic high bandwidth intensive video, voice and data applications. The proposed OFC ring will act as failover and load balancer for existing data infrastructure in place.

The scope of the Tender covers Supply of equipment & goods (active & passive components), laying of cables, installation, commissioning, implementation, integration, demonstration etc. of Campus Wide Networking at Panjab University Chandigarh.

It is also felt that the University should not get tied down to a particular technology or vendor now or in future for further up gradation as well as expansion. Pertinent to this is the fact that all the equipment and components must conform to open global standards and universal protocols. Consequently, interoperability of heterogeneous components across vendor, make or model shall have to be meticulously ensured.

The investment the university is intending to make vide this tender need to be protected and it is expected that the vendors should undertake to supply spares as well as to ensure up gradation / expansion for a reasonable period in future.

2. INVITATION TO BID

No. Network-02/12

Dated

REGISTERED POST

To

Dear Sirs,

Pursuant to your request, The Director, Computer Centre, Panjab University Chandigarh, have pleasure in forwarding the tender document to enable you to submit your binding offers.

This invitation to tender is for:

- a) Supply, Erection, Installation, Implementation, Integration, Demonstration, Testing etc. of Network Components, OFC Ring and SSL VPN at Panjab University Chandigarh.
- b) Tenderers are advised to study the Tender Document carefully. Submission of Tender shall be deemed to have been done after careful study and examination of the Tender Document with full understanding of its implications.
- c) Sealed offers prepared in accordance with the procedures enumerated in "INSTRUCTIONS TO TENDERERS" should be submitted to the Director Computer Centre of the University not later than the date and time laid down, at the address given in "Schedule of Tender". The bids shall be opened in the presence of those Tenderers who may wish to be present as per the "Schedule of Tender".
- d) The University shall not be responsible for any postal delay about non-receipt / non-delivery of the documents.
- e) This Tender Document is not transferable; however OEMs are free to quote through their system integrators.

Yours Faithfully,

Director,
Computer Centre,
Panjab University Chandigarh-160014

3. INSTRUCTIONS TO BIDDERS

The Bidder is expected to have read and examined all the instructions, forms, terms and specifications in the Tender Document with full understanding of its implications. 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 outright rejection of the bid.

3.1 DEFINITIONS

The following definitions shall govern for the respective terms as hereinafter mentioned in this document:

University:	Panjab University Chandigarh 60014. http://tenders.puchd.ac.in
Bidder:	The prospective tenderer who has downloaded it from the university website and intends to offer the goods and services mentioned in this document.
OEM:	Original equipment manufacturer in case of hardware and original assignee in case of software.

3.2 COST OF THE TENDER DOCUMENT

The Bidder shall deposit Rs. 500/- (Rupees Five Hundred Only) being the cost of the tender document. It can be done either by way of a Demand Draft favouring The Registrar, Panjab University, Chandigarh payable at Chandigarh. Payments made through any other mode will not be accepted.

It is an absolute must that the cost of tender document is paid as directed; otherwise the offer shall stand summarily rejected and no correspondence in this matter shall be entertained.

3.3 MAJOR PARTS OF THE TENDER

This invitation for bid is for undertaking the following activities which are independent.

- a. Layer 2 Managed Switches
- b. Optical Fibre Ring Components, System Integration and Services
- c. SSL VPN

The Bidders are free to quote for all or any of the components.

3.4 SCHEDULE OF TENDER

- 3.4.1 Tender Documents can be downloaded from the University website <http://tenders.puchd.ac.in> w.e.f. **Wednesday, 11th January, 2012**. The Tender Document cost needs to be paid along with the bid.
- 3.4.2 The sealed bids will be accepted till 17:00 hrs on **Thursday, 2nd February, 2012**. The university may at its sole discretion extend the bid submission date. The modified target date & time will be notified on the website of the university.
- 3.4.3 The Technical Bids will be opened at 12:00 hrs on **Friday, 3rd February, 2012**. The Bidder(s) or their authorized representatives may be present if they so desire.
- 3.4.4 The Commercial Bids of only technically qualified Bidder(s) will be opened at a date announced by the university on its website. The Bidder(s) who have been declared eligible after evaluation of the technical bids or their authorized representatives may be present if they so desire.
- 3.4.5 The address for all the above activities is:

**Director,
Computer Centre,
Panjab University Chandigarh-160014**

**PHONE Nos. : 0172- 2534064, 2534077, 2534068
EMAIL IDs : directorcc@pu.ac.in, ag@pu.ac.in
Website : <http://tenders.puchd.ac.in>**

3.5 PROCEDURE FOR SUBMISSION OF BIDS

3.5.1 It is proposed to have a three cover system for this tender.

- i. **Covering Letter and Cost of Tender Document.**
- ii. **Technical Proposal.**
- iii. **Commercial Bid and Earnest Money Deposit.**

Please note that Rates should not be indicated in the Technical Bid. Only Commercial Bid should indicate rates.

All the documents viz. Covering Letter and Cost of Tender Document, Technical Bid and Commercial Bid and Earnest Money Deposit prepared and sealed as hereinafter directed are to be kept in a single sealed cover super-scribed with the words “**TENDER for NETWORK COMPONENTS** (Network 02/11), due at 17:00 on **Thursday, 2nd February, 2012. NOT TO BE OPENED BEFORE TIME**”.

The cover thus prepared should also indicate clearly the name and address of the Bidder, to enable the Bid to be returned unopened in case it is received after the specified date and time.

The Bid shall be in the prescribed format and shall be signed by the Bidder or a person duly authorized to bind the Bidder to the contract.

All pages of the bid except un-amended printed literature shall be initialled by the person(s) signing the Bid. The bid shall contain no interlineations, erasures or over writing except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialled by the person(s) signing the bid.

The Bids prepared by the Bidders shall thus comprise of following components:

- i. Covering Letter neatly typed on the letterhead of the Bidder, duly signed by the authorized signatory in the Performa given in Section 6.1 and a Demand Draft worth Rs 5, 00 (Rupees Five Hundred only) favouring The Registrar, Panjab University, Chandigarh payable at Chandigarh and kept in a sealed cover super-scribed “**COVERING LETTER & COST OF TENDER DOCUMENT**” as detailed in Section 3.5.2 below.
- ii. Technical Bid, as directed below in Section 3.5.3 and kept in a sealed cover super-scribed “**TECHNICAL PROPOSAL**”.
- iii. Commercial Bid, as directed below in Section 3.5.4 and kept in a sealed cover super-scribed “**COMMERCIAL BID & EARNEST MONEY DEPOSIT**”.

3.5.2 **Covering Letter & Cost of Tender Document:**

- i. Bid Covering Letter as per the Performa given in Section 6.1 post neatly typed and duly signed by the authorized signatory on the Bidder’s letter head.
- ii. The Tender Cost of Rs 5,00/- (Rupees Five hundred only) as required in Section 3.2 should be kept in this envelope by way of
 - a. A Demand Draft in favour of Registrar, Panjab University, Chandigarh, payable at Chandigarh.; Or

3.5.3 **Technical Proposal:**

- i. The Technical Proposal should be submitted in bound form and all pages continuously and serially numbered in one lot as one document. Brochures / leaflets etc. should be submitted in the bound document and not in a loose form. Bidders must ensure that all the documents are sealed and signed by authorized signatory.
- ii. Technical Bid as given in Section 6.2, neatly typed on the letter head of the Bidder, duly filled in, signed and complete in all respects including annexure for detailed specifications of equipment etc as directed. The bids shall inter alia include detailed technical specifications of all the equipment / components in brochure or written form. These brochures shall be used for technical evaluation of the bids and in their absence the bids may not be evaluated.
- iii. Deviations from the Detailed Specifications as specified in the Bidding Document as given in Section 6.3.
- iv. Deviations from the Terms and Conditions as specified in the Bidding Document as given in Section 6.4.

- v. Exact Bill of Material in the format given in Section 6.5. The University reserves its right to cross verify whether the offered components meet the desired specifications.
- vi. The Technical Bid submitted in response to this Tender Document along with the supporting material, will become the property of the University.

3.5.4 Commercial Bid & Earnest Money Deposit:

- i. Commercial bid proposal for the fine tuned Technical Specifications neatly typed on the letter head of the Bidder, duly filled in and signed by the authorized signatory in Prescribed Quotation Proforma given in Section 6.6.
- ii. The details of Rate Schedule for all the goods and services under all the components of this Tender for which the Bidder is intending to quote, as given in Sections 6.7 to 6.9. The rates in these schedules shall be applicable in case the quantities of a particular order vary from those mentioned in relevant Technical Specifications. In case the consolidated rates quoted in the Prescribed Quotation Proforma as given in Section 6.6 differ from the rate schedule, as given in Sections 6.7 to 6.9; later shall prevail.
- iii. Please bid for all the sections of this tender where the Bidder qualifies and intends to bid.
- iv. Earnest Money @ 2% of quoted value should be submitted along with the Tender by way of
 - a. A Demand Draft in favour of Registrar, Panjab University Chandigarh, payable at Chandigarh.
 - b. A FDR duly pledged in favour of Registrar, Panjab University Chandigarh, payable at Chandigarh.
- b. It should be denominated in INDIAN RUPEES only. Bids without requisite Earnest Money shall be summarily rejected.
- v. Unsuccessful Bidders' bid security will be returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity prescribed by the University.
- vi. The successful Bidder's bid security will be discharged upon the Bidder accepting the purchase order and furnishing the Performance Guarantee.
- vii. The bid security may be forfeited:
 - a. if a Bidder withdraws its bid during the period of bid validity; Or
 - b. if a Bidder makes any statement or encloses any form which turns out to be false, incorrect and / or misleading at any time and / or conceals or suppresses material information; Or
 - c. in case of the successful Bidder, if the Bidder fails to sign the agreement or to furnish performance guarantee.

3.6 COSTS INCURRED WITH TENDERING

The Bidder shall bear all costs associated with the preparation and submission of its Bid, including cost of presentation for the purposes of clarification of the Bid, if so desired by the University and the University will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering Process.

3.7 AMENDMENT IN TENDER DOCUMENT

- 3.7.1 At any time upto the last date of receipt of Bids, the university may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Tender Document by an amendment.
- 3.7.2 The amendment will be notified in writing or by email or fax to all prospective Bidders who have received the Tender Document and the same will be binding on them. It will also be uploaded to the University's website.
- 3.7.3 In order to afford prospective Bidders reasonable time to take the amendment into account in preparing their Bids, the University may, at its discretion, extend the last date for the receipt of Bids.

3.8 LANGUAGE OF BIDS

The Bids prepared by the Bidder and all correspondence and documents relating to the Bids exchanged by the Bidder and the University, shall be written in the English Language, provided that any printed literature furnished by the Bidder may be written in another language so long as it is accompanied by an English translation in which case, for purposes of interpretation of the Bid, the English translation shall govern.

3.9 BID CURRENCY

The Prices in the bid document shall be denominated in INDIAN NATIONAL RUPEES or any other currency which can be converted to INDIAN NATIONAL RUPEES. For the purposes of evaluation of bids, the exchange rate as advertised by the Reserve Bank of India on the day of opening of commercial bids shall apply.

3.10 VALIDITY

Bids shall remain valid for 90 days from the last date of submission. The Bidder(s) may be required to give consent for the extension of the period of validity of the bid beyond initial 90 days, if so desired by the University in writing or by fax. Refusal to grant such consent would result in rejection of bid without forfeiture of the EMD. However, any extension of validity of bids will not entitle the Bidder to revise / modify the bid. The decision of the University in this regard will be final, conclusive and binding on the Bidder.

3.11 MODIFICATIONS & WITHDRAWAL

The bid submitted may be withdrawn or resubmitted before the expiry of the last date of submission by making a request in writing to the Registrar of the University to this effect. No Bidder shall be allowed to withdraw the bid after the deadline for submission of bids.

4. TERMS & CONDITIONS OF THE TENDER

4.1 BIDDER'S QUALIFICATIONS

- 4.1.1 The Bidder(s) must either be OEMs or their authorized business partners of repute as evidenced by copies of relevant certificates or their consortia. In case of consortia all the eligibility clauses shall be met by any combination of the consortium partners.
- 4.1.2 In case of Consortia the Technical Bid Proposal needs to be filled by all the consortium partners separately.
- 4.1.3 In case of Consortia, the consortia partner quoting for active components i.e switches shall be considered as System Integrator for completion of this project and will be single point contact for Panjab University Chandigarh. The System Integrator has to produce relevant supporting documents from all consortia partner. The responsibility for completion of this project shall be solely on System Integrator.
- 4.1.4 The Bidders who are not OEMs for the goods and services offered must enclose authorization letters from the respective OEM in specific reference to this tender clearly mentioning an undertaking that in case of default by the Bidder, the OEM shall take over all the responsibilities of the Bidder. This undertaking should also clearly mention that the spares availability will be ensured for at least five years in future.
- 4.1.5 All products being quoted should be tightly compatible and seamlessly integrated. In addition to this the goods and services offered should be integrated with the Data Network already existing in Panjab University Chandigarh. For further detail, bidders are requested to visit the campus.
- 4.1.6 The Bidder(s) should have experience of successfully executing at least three jobs (network installation and commissioning) of similar magnitude (supported documents and completion certificate signed by the customer with overall cost of project should be attached).
- 4.1.7 The Bidder must have annual turnover of at least twenty crores for last three financial years.
- 4.1.8 The Bidder / OEM should not be involved in any Bankruptcy filing or for protection from it and should have continuously posted profits for last three financial years. If they are so involved they must furnish a bank guarantee valid for three years of an amount equal to the total value of their bid along with their commercial bid and should mention that they have done so in their technical bid.
- 4.1.9 The OEM of switches , OFC Cables and SSL VPN should have their own registered & incorporated office in India for last 3 years. For this purpose alliance/liaison office in India shall not be accepted. They should have good history being in India with enough support infrastructures to provide after sales support in India and should have local spares depot in India in order to provide immediate support.

4.2 GENERAL CONDITIONS

- 4.2.1 Minimum validity of the Tender must be 90 days from the date of submission of the Tender.
- 4.2.2 The university reserves the right, not an obligation, to carry out the capability assessment of the Bidder(s) and pre dispatch inspections at the cost of the Bidder. This right inter alia includes seeking technical demonstrations, presentations and live site visits.
- 4.2.3 The university reserves its absolute right to seek any clarifications from the respective Bidder(s).
- 4.2.4 The university will neither provide nor shall pay any charges for boarding, lodging and transportation facilities for the Bidder(s) or their Representative.
- 4.2.5 The products / services offered should strictly conform to the specifications given in the product literature. The models proposed / marked for withdrawal from the market or models under quality testing should not be offered.
- 4.2.6 Equipment offered should be capable of being fully integrated with the existing network of the university immediately on installation.
- 4.2.7 The Bidder(s) are required not to impose their own terms and conditions to the bid and if submitted, it will not be considered as forming part of their bids. The decision of the university shall be final, conclusive and binding on the Bidder(s).
- 4.2.8 It is implicit that the Bidder has guaranteed that all the equipment supplied are original and new including all its components and as per the technical specifications. All the hardware and software supplied is licensed and legally obtained in the name of the university.

- 4.2.9 The university is registered with the DSIR for the purpose of availing Custom Duty Exemption and Central excise Duty Exemption in terms of Govt Notification No 51/96-Custom dated Jul 23rd, 1996 and No 10/97-Central Excise dated 1st March, 1997, so the rates must be quoted without Custom and Excise duties, which if applicable, be quoted separately.
- 4.2.10 The university does not issue any C / D / Concessional forms, so the CST / ST / VAT applicable as per actual rates should be mentioned in the offer.

4.3 PURCHASER'S RIGHT TO REJECT ANY / ALL BIDS

- 4.3.1 The university reserves the right to accept or reject any bid partially or fully or annul the bidding process and reject all bids at any time prior to award of contract without assigning any reason, thereby incurring no liability to the affected Bidder(s). The university is under no obligation to inform the affected Bidder(s) of the ground for its action.
- 4.3.2 The university reserves the right to accept or reject any technology proposed by the Bidder(s).
- 4.3.3 The university reserves the right to re-issue the tender or any part thereof without assigning any reason whatsoever, at the sole discretion of the university.
- 4.3.4 The university reserves the right to issue Purchase Order in phases or to alter the quantities specified in the offer. The university also reserves the right to delete one or more items from the list of items specified in offer.
- 4.3.5 Any decision of the university in this regard shall be final, conclusive and binding on the Bidder(s).

4.4 BID REJECTION CRITERIA

The bid(s) will be rejected in case of any one or more of the following conditions:

- 4.4.1 Bids which are not substantially responsive to the Tender Document.
- 4.4.2 Bids not made in compliance with the procedure mentioned in this document or not substantively responsive.
- 4.4.3 Failure on part of the Bidder to provide appropriate information as required in the bid proposal or any additional information as requested by the university, including any supporting document.
- 4.4.4 Incomplete or conditional bids or bids that do not fulfil all or any of the conditions as specified in this document.
- 4.4.5 Bids without earnest money deposit.
- 4.4.6 The submission of more than one bid under different names by one Bidder. If the same is found at any stage, all the bids by that bidder will be rejected.
- 4.4.7 Material inconsistencies in the information submitted.
- 4.4.8 Misrepresentations in the bid proposal or any supporting documentation.
- 4.4.9 Bid proposal received after the last date and time specified in this document.
- 4.4.10 Bids found in unsealed cover, unsigned bids, bids signed by unauthorized person and unsigned corrections in the bids.
- 4.4.11 Bids containing erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be authenticated by the person(s) signing the bid.

4.5 BID EVALUATION PROCESS

- 4.5.1 The Bidder must meet all the eligibility criteria mentioned in Section 4.1.
- 4.5.2 The Technical Bids of all the Bidders who meet the eligibility criteria shall be evaluated further for compliance of specifications and other such parameters as may be needed. The decision of the University in this matter shall be final conclusive and binding.
- 4.5.3 The Commercial Bids of all the technically qualified Bidders shall be subjected to financial comparison.

4.6 RESPONSIBILITIES OF THE BIDDER(S)

- 4.6.1 The Bidder(s) shall supply, the equipment as FoR destination ie , Panjab University, Chandigarh 160014 and the rates must include all the charges e.g. packing, forwarding, insurance, freight, commissioning, demonstration etc. if any.
- 4.6.2 They shall be required to supply, erect, install, configure, integrate, commission and demonstrate the network components.
- 4.6.3 The Bidder(s) shall maintain the infrastructure provided by the University for the implementation and operation of the project and allied services.

4.7 RESPONSIBILITIES OF THE UNIVERSITY

- 4.7.1 The University shall provide space to install the network, equipment and components etc. On day to day basis the officials of the University shall help the engineers deputed by the Bidder for the job in their capacity.

4.8 SCHEDULE OF PAYMENT

- 4.8.1 No payment will be made in advance for any supplies under this invitation for bid.
- 4.8.2 90% of the payment due shall be released by the University upon successful delivery of equipment and raising of relevant invoices thereof against a bank guarantee of equal amount valid for at least two years from the date of delivery. This bank Guarantee will be released after successful performance certificate has been issued.
- 4.8.3 Remaining 10% of the payment shall be released by the University after successful performance certificate has been issued by the user within one month from the date of raising of relevant invoices thereof.

4.9 TIME SCHEDULE

The OFC ring deployment should be completed within three months from the date of placing the supply order and the University's decision in this regard will be final and binding. The supply shall actually be deemed to have been complete on the actual date of installation / implementation and successful demonstration to the duly constituted committee of the University.

4.10 EARNEST MONEY

- 4.10.1 Earnest Money @ 2% of quoted value should be submitted along with the Tender in the form of Demand Draft payable to The Registrar, Panjab University, Chandigarh, payable at Chandigarh or Fixed Deposit Receipt duly pledged to The Registrar, Panjab University, Chandigarh, dischargeable at Chandigarh Tenders without Earnest Money shall be summarily rejected.
- 4.10.2 The successful Bidder(s) will be required to meet the schedule of job given by the University and mutually agreed to by them and would abide by the terms and conditions of the contract, failing which the University reserves the right to forfeit the full or part of the said deposit, as the case may be.
- 4.10.3 If the Bidder refuses to undertake the allotted work or delays the work deliberately and unnecessarily, their allotment order will be cancelled, Firm will be black Listed and Earnest Money shall be forfeited. In such a case decision of the University will be final and binding.

4.11 RATES

The rates quoted shall remain firm throughout the period of contract and this contract will remain valid upto the date of completion of the job by the Bidder(s) and shall not be subject to any upward modification whatsoever.

4.12 WARRANTY

All the goods and services quoted in response to this tender shall have an onsite warranty for 1 year from the date of commissioning/successful testing of the equipment.

4.13 PENALTIES

In case of delay in execution of works or delivery of goods & services penalties at the following rates shall be imposed on the total amount (as per relevant rate schedule) of delayed goods/services:

1% for delay of the first two months

2% per month for subsequent delays

Maximum delay of six months is tolerable, beyond which the order may be cancelled.

The decision of the University in this regard shall be final, conclusive and binding.

4.14 TAXES AND DUTIES

The Bidder shall be solely responsible for the payment of all taxes including VAT, duties, license fees, octroi etc. incurred until completion of the project.

4.15 PERFORMANCE GUARANTEE

The successful Bidder(s) shall furnish a security in the form of bank guarantee @ 5% of the total value of the order in the name of Registrar, Panjab University, Chandigarh and shall be valid for 1 year from the date of order, which shall be discharged thereafter.

4.16 INSURANCE

The University will not pay for any insurance charges against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery etc. The insurance shall be purchased by the Bidder, naming the University as the beneficiary, in an amount equal to the exact value of the Goods up to the installation at site on all risks basis, including war Risks and strike clauses etc.

4.17 INDEMNITY

4.17.1 The Bidder(s) shall indemnify the University against all third party claims of infringement of Intellectual Property Right, including Patent, trademark, copyright, trade secret or industrial design rights arising from use of the Goods, or any part thereof in India.

4.17.2 The Bidder(s) shall, at their own expense, defend and indemnify the University against all third party claims or infringement of intellectual Property Right, including Patent, trademark, copyright, trade secret or industrial design rights arising from use of the products or any part thereof in India or abroad.

4.17.3 The Bidder(s) shall expeditiously extinguish any such claims and shall have full rights to defend itself there from. If the University is required to pay compensation to a third party resulting from such infringement, the Bidder(s) shall be fully responsible therefore, including all expenses and court and legal fees.

4.17.4 The University will give notice to the Bidder of any such claim without delay, provide reasonable assistance to the Supplier in disposing of the claim, and shall at no time admit to any liability for or express any intent to settle the claim.

4.18 CONFIDENTIALITY

4.18.1 The Bidder shall not, and without the University's prior written consent, disclose the contract or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the University in connection therewith to any person other than a person employed by the Bidder in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

4.18.2 The Bidder shall not without the University's prior written consent, make use of any document or information.

4.18.3 Any document other than the contract itself shall remain the property of the University and shall be returned (in all copies) to the University on completion of the Bidder's performance under the contract if so required by the University.

4.19 TRAININGS

The Bidder shall be responsible for training the University personnel in the areas of implementation, operations, management, error handling, troubleshooting, system administration and any other related areas. This training can be arranged at the premises of the Bidder or at the University. At least two employees need to be trained by the Bidder who shall be identified by the University and shall comprise of people having different levels of qualifications and responsibilities. The final training schedule shall be decided according to a mutually agreed time table before the work order is finally placed. The cost of training shall be borne by the bidder.

4.20 FORCE MAJEURE DURING THE PENDENCY

During the pendency of the contract if the performance in whole or part thereof by either party is prevented/delayed by causes arising due to any war, hostilities, civil commotion, act of public enemy, sabotage, fire, floods, explosion, epidemics, non availability of raw material, and other consumables, or any other causes including breakdown of equipment beyond their reasonable control neither of the two parties shall be made liable for loss or damage due to delay or failure to perform the contract during the pendency of forced conditions provided that the happenings are notified in writing within 7 days from the date of occurrence. The work shall be resumed under the contract as soon as possible after the restoration of normalcy.

4.21 OTHER CONDITIONS

If some latest technology or equivalent is introduced the Bidder is duty bound to offer their proposal on mutually agreed rates on similar terms and conditions during the pendency of the agreement/contract.

4.22 ARBITRATION

All disputes, differences, claims and demands arising under or pursuant to or touching the contract shall be referred to the sole arbitrator to be appointed by the Registrar, Panjab University Chandigarh. The award of the sole arbitrator shall be final and binding on both the parties under the provisions of the Arbitration and Conciliation Act, 1966 or by statutory modification/re-enactment thereof for the time being in force. Such arbitration shall be held at Chandigarh.

4.23 JURISDICTION OF COURTS

In all matters and disputes arising hereunder, the appropriate Courts at Chandigarh only shall have jurisdiction to entertain and try them.

5. DETAILED TECHNICAL SPECIFICATIONS

5.1 PART-1 (Layer 2 Switches)

GENERAL NOTE:

- i. The given specifications are minimum requirements. Bidders should enclose relevant printed or neatly typed detailed specification sheets of their offerings, which shall also be kept in mind at the time of evaluation of offers.
- ii. The given specifications of each component need to be met either same/one unit only.
- iii. The quantities mentioned herein are indicative and may vary and shall be paid for by the University as per actual. In case of variations in quantities the rates mentioned by the Bidder in the relevant rate schedule shall apply.

- iv. In case of Switches (i.e. items mentioned at section 5.3), makes from **CISCO, Nortel-Avaya, Brocade-Foundry, Alcatel-Lucent, Juniper, Extreme Networks, HP Procurve and Dlink** only shall be acceptable. All types of Switches must be from the same OEM. Also the Operating System (OS) for all the switches must be same.
- v. The equipment shall be complete in all respect with all required accessories and successful installation, configuration, testing and demonstration at Panjab University Chandigarh.

5.2 Schedule of Quantity:

Sr. No.	Item	Quantity
A.	24-Port Layer 2 Switch (Cat A)	04
B.	24-Port Layer 2 Switch (Cat B)	25
C.	10G SFP+ Transceiver	06
D.	SFP Transceiver	20
E.	Fibre Patch Cords (Cat A)	20
F.	Fibre Patch Cords (CAT B)	20

5.3 Technical Specifications for above listed Network Components:

A. 24-Port Layer 2 Switch (Cat A)			
Sr. No.	Generic Requirements	Compliance (Y/N)	Remarks
1. Switch Architecture and Performance			
1.1	24 Nos. Ethernet 10/100/1000 ports		
1.2	2 x 10 GbE SFP+ uplink ports		
1.3	Switching capacity : 176 Gbps		
1.4	Forwarding performance (64-byte packet size) : 65.5 Mpps		
1.5	power supply redundancy		
1.6	IEEE 802.1Q VLAN tagging		
1.7	802.1Q VLAN on all ports with support for minimum 1000 VLANs		
1.8	minimum 8k MAC addresses		
1.9	Spanning Tree Protocol as per IEEE 802.1d		
2.0	Multiple Spanning-Tree Protocol as per IEEE 802.1s		
2.1	Rapid Spanning-Tree Protocol as per IEEE 802.1w		
2.2	Self learning of unicast & multicast MAC addresses and associated VLANs		
2.3	Jumbo frames up to 9000 bytes		
2.4	Link Aggregation Control Protocol (LACP) as per IEEE 802.3ad		
2.5	classification and scheduling as per IEEE 802.1P on all ports		
2.6	DiffServ as per RFC 2474/RFC 2475		
2.7	eight hardware queues per port		
2.8	QoS configuration on per switch port basis		
2.9	support MAC address based filters / access control lists (ACLs) on all switch ports		
3.0	Port as well as VLAN based Filters / ACLs		
3.1	Secure Shell (SSH) Protocol, HTTP and DoS protection		
3.2	IP Route Filtering, ARP spoofing, DHCP snooping etc		
3.3	static ARP, Proxy ARP, UDP forwarding and IP sourceguard		

3.4	SNMP manageable with support for SNMP Version 1, 2 and 3		
3.5	RoHS Compliant		

B. 24-Port Layer 2 Switch (Cat B)

Sr. No.	Generic Requirements	Compliance (Y/N)	Remarks
1.1	24 Nos. Ethernet 10/100 ports		
1.2	2 x combo Gigabit SFP uplink ports		
1.3	Switching capacity : 32 Gbps		
1.4	Forwarding performance (64-byte packet size) : 6.5 Mpps		
1.5	IEEE 802.1Q VLAN tagging		
1.6	power supply redundancy		
1.8	802.1Q VLAN on all ports with support for minimum 1000 VLANs		
1.9	minimum 8k MAC addresses		
2.0	Spanning Tree Protocol as per IEEE 802.1d		
2.1	Multiple Spanning-Tree Protocol as per IEEE 802.1s		
2.2	Rapid Spanning-Tree Protocol as per IEEE 802.1w		
2.3	Self learning of unicast & multicast MAC addresses and associated VLANs		
2.4	Jumbo frames up to 9000 bytes		
2.5	Link Aggregation Control Protocol (LACP) as per IEEE 802.3ad		
2.6	classification and scheduling as per IEEE 802.1P on all ports		
2.7	DiffServ as per RFC 2474/RFC 2475		
2.8	eight hardware queues per port		
2.9	QoS configuration on per switch port basis		
3.0	support MAC address based filters / access control lists (ACLs) on all switch ports		
3.1	Port as well as VLAN based Filters / ACLs		
3.2	RADIUS and TACACS+ for access restriction and authentication		
3.3	Secure Shell (SSH) Protocol, HTTP and DoS protection		
3.4	IP Route Filtering, ARP spoofing, DHCP snooping etc		
3.5	static ARP, Proxy ARP, UDP forwarding and IP sourceguard		
3.6	SNMP manageable with support for SNMP Version 1, 2 and 3		
3.7	RoHS Compliant		

C.10G SFP+ Transceiver

Sr. No.	Generic Requirements	Compliance (Y/N)	Remarks
1.1	Compliant to SFP+ Electrical MSA SFF-8431		
1.2	Compliant to SFP+ Mechanical MSA SFF-8432		
1.3	Multi rate of up to 11.3Gb/s		
1.4	10G Ethernet compliance		
1.5	2G/4G/8G Fibre Channel compliance		
1.6	Transmission distance up to 10km (SM fiber)		
1.7	Low power consumption: 0.85W		
1.8	0C to +70C case operating temperature range		
1.9	Laser Class 1 IEC / CDRH compliant.		
1.10	RoHS 6/6 compliant		
1.11	Compliant with product safety standards		

D. SFP Transceiver

Sr. No.	Generic Requirements	Compliance (Y/N)	Remarks
1.1	Multi-Mode 1310nm GBE/FC/FE		
1.2	RoHS6 Compliant		
1.3	Operating data rate up to 1.25Gbps		
1.4	1310nm FP laser transmitter		
1.5	Up to 2km with 50/125µm MMF		
1.6	Single 3.3V power supply and TTL Logic Interface		
1.7	Hot-pluggable SFP footprint duplex LC connector interface		
1.8	Compliant with SFP MSA		
1.9	Compliant with SFF-8472		
E.Fibre Patch Cords (Cat A)			
Sr. No.	Generic Requirements	Compliance (Y/N)	Remarks
1.1	LC-ST multimode 50/125µm fibre patch cords , 3mtr		
F. Fibre Patch Cords (CAT B)			
Sr. No.	Generic Requirements	Compliance (Y/N)	Remarks
1.1	LC-SC SM fibre patch cords , 3mtr		

5.4 PART-2 (OPTICAL FIBRE RING PASSIVE COMPONENTS)

5.5 SCOPE OF WORK AND SPECIFIC TERMS & CONDITIONS FOR PASSIVE COMPONENTS:

The scope of work includes:

- a) Supply of all passive materials and associated accessories, commissioning and implementation (laying of OFC and its fixing & termination on LIU) and testing of the same at proposed locations throughout the campus.
- b) New installation and integration with existing LAN setup. Preparation of Actual Bill of Material based on Survey and as per requirement of Panjab University Chandgarh.
- c) The Bidder shall be responsible for providing all materials, equipments, and services, specified or otherwise, which are required to fulfill the intent of ensuring operability, maintainability, and reliability of the complete equipments covered under this tender within Bidder's quoted price.
- d) This work shall be in compliance with all applicable standards, statutory regulations and safety requirements in force of the date of award of this contract.
- e) The scope covers design/development of a suitable architecture/layout of the proposed networking system, preparation of bill of materials, packing and forwarding, transportation, insurance and carrying out further activities at sites viz. unloading, storage, further handling, erection, testing and commissioning including successful completion of acceptance tests and any other services specified.
- f) The Bidders shall be responsible for furnishing the Network Documentation with following details after successful commissioning and implementation:
 - a. Detailed connectivity diagram;
 - b. Raceway/pathway diagram;

- c. Cable routing diagram;
 - d. Fiber patching details;
 - e. Naming and labeling details;
 - f. Cable scanning and test results.
 - g. Marking of Fiber path.
- g) All the CD's, operational manuals, stationery and similar accessories made available by Equipment Bidder must be handed over by the Bidder to Panjab University after installation work is over.
 - h) Equipment furnished shall be complete in every respect with all mountings, fittings, fixtures and standard accessories normally provided with such equipments and/or needed for erection, completion and safe operation of the equipments as required by applicable codes though they may not have been specifically detailed in the tender document, unless included in the list of exclusions. All similar standard components/parts of equipments provided, shall be inter-changeable/inter-operable with one another.
 - i) The Bidder shall also be responsible for deputing qualified personnel for installation, testing, commissioning and other services under his scope of work as per specifications. All required tools and tackles for completing the scope of work as per the specification is also the responsibility of the Bidder.
 - j) The installation of material shall be accepted only after inspection tests are over. The Bidder should ensure while installation of LAN, day-to-day functioning of official work and existing network setup/connectivity/internet connectivity should not get disrupted.
 - k) Inspection of the installation will be at the installation site and acceptance will be granted upon successful installation unless otherwise provided. Title to /or risk of loss or damage to all items shall be the responsibility of the Bidder until acceptance by University, unless loss or damage results from negligence by University. Any loss or damage on the part of Bidder will be borne by the Bidder itself.
 - l) If the materials or services supplied by the Bidder are found to be defective or do not conform to the specifications, University reserves the right to cancel the contract upon written notice to the Bidder and return products at Bidder's expense.
 - m) There shall not be any additional charges for carrying out acceptance tests. There should not be any malfunction, partial or complete failure of any part of hardware. The supplier shall maintain necessary log in respect of the test results to establish to the entire satisfaction of the Test Committee(s).
 - n) Passive components quantities shown in the bid document are indicative and hence may vary as per actual requirements. The Bidder will assess the exact distances for OFC cabling involved at the time of site survey before the submission of their bids. The final payment for all passive material will be made in accordance with their quoted price in the financial bids and actual bill of material.
 - o) Bidders are advised to carry out the survey of various locations (sites/venues and buildings)) on their own. Interested Bidders may send maximum two authorized representatives for the same.
 - p) Panjab University Chandigarh reserves the right for quantity variation due to increase/decrease in requirements. The Bidder shall also provide all required equipment which may not be specifically stated herein but are required to meet the intent of ensuring completeness, maintainability and reliability of the total system covered under this specification, including integration and interoperability with the existing LAN.
 - q) Scope of Work shall also include:
 - a. Testing of OFC after laying, terminations and ferruling at both the ends. All testing tools and instruments shall be brought by the Bidder and taken back after the testing.
 - b. Site acceptance tests to establish satisfactory performance of the equipments as per specifications.
 - c. Assistance for familiarization and operation of the installed system & services after acceptance of system during the warranty period.
 - r) Onsite warranty for all installation and hardware delivered for minimum one year after acceptance by Panjab University Chandigarh.
 - s) During excavation of trench utmost care is to be taken by the Bidder, so that the existing underground OFC and Power cables are not damaged or cut. In case any damage/cut is done to the existing cables, the Bidder shall carry out such repairs for restoration of the damaged cables free of charge within 2 days. The cost of jointing kit shall also be borne by the Bidder. If Bidder fails to repair the damaged cable(s), the cost of repair (including cost of labour + jointing kit) shall be recovered from the Bidder.
 - t) To ensure progress during the execution of work and to cause minimum inconvenience to the public, the Bidder shall not dig a trench of more than 500 meters at a stretch in route at a time. He shall cause to lay

cable and close such trenches expeditiously. Under any circumstances a stretch of trench of maximum 500 meters shall not be kept open for more than 4 days in case of cable laying by digging paved surfaces. In the event of Bidder failing to comply with these conditions, a penalty of recovery up to Rs.1000/- per day for the trench kept open beyond the time limit allowed may be imposed by the University.

- u) The approved Bidder shall obtain way leave permission (Right of way) from the Executive Engineer, Construction Cell, Panjab University Chandigarh without any additional cost.
- v) The Bidder has to restore the road to its original condition after pulling OFC cable for which he has to prepare proper alignment maps drawn to scale, section of the trenches to be cut, length of cuttings and crossings, masonry structures etc. clearly marked.
- w) The Bidder shall provide at his own cost all tools, implements, measuring instruments etc. required for proper execution of works. The Bidder shall also supply without charge the requisite number of persons with the means and materials necessary for setting out works, counting, weighing and assisting the measurements for examination at any time and from time to time. The Bidder shall be responsible to make all arrangements, at his own cost for carrying out such work.
- x) There should not be any hanging or uncovered wire. Patch cord should be branded and factory crimped. The Optical Fiber Cable is laid through PLB Pipes buried at a normal depth of 1 meter (3 feet). The Bidder shall inform the University about laying of PLB Pipes, so that depth of excavated trenches can be measured
- y) Any other items/services other than those detailed in the document herein, which are required for the integrated operations of the system at Panjab University Chandigarh shall be specified by the Bidder separately with its detailed specification/ brochures, etc. along the prices for these additional items/services in the Price Schedule.
- z) The Bidder shall be fully responsible for the successful functioning and integrated operations of the system as a whole and omission of any items/ services in the tender document shall not be sufficient reason for non-performance of the system.

Note: In case of Passive Components (i.e. items mentioned at section 5.6), makes from Tyco-AMP, Systimax, Siemon, R & M, Panduit, 3M and DigiLink only shall be acceptable.

5.6 SCHEDULE OF QUANTITY FOR PASSIVE COMPONENTS:

Sr. No.	Item Description	App. Quantity
1.	Mini GBIC (Transceiver) – Single Mode SM 1.25Gbps/1.063Gbps Operation 1310nm FP laser and PIN photo detector for 20km transmission RoHS Compliant Single 3.3V power supply and TTL Logic Interface Hot-pluggable SFP footprint duplex LC connector interface Compliant with SFP MSA	140
2.	12-Core Single Mode Fibre Optic Cable: Cable Type- Armoured, Loose-tube, Gel filled, Fibre Type-9/125 micron primary coated buffers, OS1 & OS2, Fibre index profile- step index, Outer sheath- HDPE with black hydrocarbon resistant compound Operating Temperature- -40 Degree C to +70 Degree C	12 KM
3.	6-Core Single-mode Mode Fibre Optic Cable: Cable Type- Armoured, Loose-tube, Gel filled, Fibre Type-9/125 micron primary coated buffers, OS1 & OS2 Fibre index profile- step index,	4 KM

	Outer sheath- HDPE with black hydrocarbon resistant compound Operating Temperature- -40 Degree C to +70 Degree C	
4.	Duplex Fibre Patch Cord Single Mode 2 metre SC-SC	140
5.	Duplex Fibre Patch Cord Single Mode 2 metre SC-LC	300
6.	Duplex Fibre Patch Cord Single Mode 2 metre LC-LC	40
7.	12-Port Fibre Optic LIU with Pigtails, Splice Trays and Splice Protectors (fully loaded): 12-port Fibre splice Shelf (LIU), Splicing and patching box, mounting depth 230 mm, splice trays and fastening material, trays with hinges (book type) to facilitates easy fibre management and greater access during installation and rework.	130
8.	Permanently Lubricated (PLB) HDPE Pipe of ISI Brand for laying OFC	As per actual requirement
9.	Labour for laying 15KM fibre 3feet or 1 mtr along with all other requirements deep along with HDPE pipe	As per actual
10.	Cable Markers	As per actual requirement
11.	Integration & Commissioning OFC ring	As per actual

5.7 PART-3(SSL VPN)

Sr.No	Specifications	Compliance (Y/N)	Remarks
1	Connections - Concurrent Users	500	
2	Access Methods	Browser Based Auto-Downloading Thin Client WG Access Client[Windows Based]	
3	Granular Access Rules	Authentication Methods	
	Access can be granted by:	Users & Group Membership IP Address of Incoming Client Client Device Date, Day, and /or Time Assessment Abolishment Device Custom Defined	
4	Authentication Support	Onboard LDAP Onboard Two-Factor[SMS Token, Challenge/response, Synchronized, web keypad, OTP] Onboard RADIUS Third Party Integration[Active Directory, Novell, eDirectory Service, RADIUS, PKI/Certificate support, SA Secure ID 2FA, Vosco 2FA]	
5	Application Support	Web-Based Client/Server Tunnel-based Terminal Servers File Servers Bi-directional[VoIP, Online collaboration tools]	

6. BID PROPOSAL PROFORMAE

6.1 BID COVERING LETTER

To

The Director,
Computer Centre,
Panjab University Chandigarh-160014

Reference: Supply, Erection, Installation, Implementation, Integration, Demonstration, Testing etc. of Network Components at Panjab University Chandigarh.

Dear Sir,

1. TERMS AND CONDITIONS

- a. I/We, the undersigned Bidder(s), having read and examined in detail 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 including Income Tax & Professional Tax.
- 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, I/we 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 required under Clause 4.10 of 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

I/We shall submit a Bank Guarantee as required under Clause 4.15 of the Tender Document.

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 therefrom.

Thanking you,

Yours faithfully,

(Signatures)

Date:

Place:

Name:

Designation:

Seal

6.2 TECHNICAL BID

S No	Description	Response
1.	Bidder's Proposal Reference No. & Date	
2.	Bidder's Name and Address	
3.	Contact Person Designation Telephone Number Fax Number e-mail Address	
4.	If the Bidder is not OEM, have You enclosed due authorization certificate from OEM?	
5.	Please enclose a list of similar installations done by You along with their value. Please attach relevant completion and experience certificates also.	
6.	Please attach printed or typed specification / feature sheets of all the equipment / components quoted by You.	
7.	Are You involved in any Bankruptcy filing for protection from it?	
8.	Please attach Your Balance Sheet and P/L Account for last three financial years.	
9.	Please attach a copy of company incorporation certificate.	
10.	Addresses of your offices in India.	
11.	Addresses of your spare part depots in India.	

(Signatures)

Date:

Place:

Name:

Designation:

Seal

6.4 DEVIATIONS FROM THE TERMS AND CONDITIONS

Following are the Deviations and Variations from the terms and conditions of this Tender. These deviations and variations are exhaustive. Except for these deviations and variations, all the terms and conditions are acceptable to us.

S. No.	Clause No.	Page No.	Statement of Deviations and Variations

(Signatures)

Date:

Place:

Name:

Designation:

Seal

6.5 BILL OF MATERIAL CUM COMPLIANCE SHEET

Following is the exhaustive bill of material with makes and part numbers. Further we abide ourselves by the compliances indicated as per the desired specifications.

S. No.	Description	Make	Part Number if any	Quantity	Compliance (Yes/No)

(Signatures)

Date:

Place:

Name:

Designation:

Seal

6.6 COMMERCIAL BID

[a]. Please bid for all the sections of this tender where the Bidder qualifies and intends to bid. Please initial all the pages.

	Particulars	Bid Currency	Gross Base Price	Excise and/or Custom Duty, if applicable (See Clause 4.2.8)	Taxes including VAT as applicable (See Clause 4.2.9)	Octroi and other levies, if Applicable	Any other charges	TOTAL Price to be paid (Criterion for Bid Evaluation)
1.	Layer 2 Switches & Components as specified in the Tender							
2.	OPTICAL FIBRE RING Components as specified in the Tender							
3	SSL VPN							

[b]. SSL VPN Recurring Charges for after warrant period for 1st year, 2nd Year

Note: The recurring charges rates quoted will used in L1 evaluation of the Commercial Bid.

(Signatures)

Date:

Place:

Name:

Designation:

Seal

6.7 RATE SCHEDULE FOR Layer 2 Switch & NETWORK COMPONENTS:

S No	Item	Unit	Make	Rate
1.	24-Port Layer 2 Switch (Cat A)			
2.	24-Port Layer 2 Switch (Cat B)			
3.	10G SFP+ Transceiver			
4.	SFP Transceiver			
5.	Fibre Patch Cords (Cat A)			
6.	Fibre Patch Cords (CAT B)			

(Signatures)

Date:

Place:

Name:

Designation:

Seal

6.8 RATE SCHEDULE FOR OFC & OTHER PASSIVE COMPONENTS

Sr. No.	Item Description	Make/ Brand	Unit	Rate (in Rs.)
1.	Mini Gibic (Transceiver) – Single Mode		No.	
2.	12-Core Single Mode Fiber Optic Cable		Meter	
3.	6-Core Single Mode Fiber Optic Cable		Meter	
4.	Duplex Fibre Patch Cord Single Mode 2 metre SC-SC		No.	
5.	Duplex Fibre Patch Cord Single Mode 2 metre SC-LC		No.	
6.	Duplex Fibre Patch Cord Single Mode 2 metre LC-LC		No.	
7.	12-Port Fibre Optic LIU with Pigtails, Splice Trays and Splice Protectors (fully loaded)		No.	
8.	Permanently Lubricated (PLB) HDPE Pipe of ISI Brand for laying OFC		No.	
9.	Cable Markers		No.	
10.	Any other item required to complete the project (pl. mention the same)		--	

(Signatures)

Date:

Place:

Name:

Designation:

Seal

6.9 RATE SCHEDULE FOR LAYING OF FIBER CABLE AND INSTALLATION CHARGES OF OTHER ACCESSORIES AS PER THE ACTUAL REQUIREMENT:

S. No.	Item	Unit	Rate
1.	Excavating trenches up to a depth of 1 meter in soft soil areas and back filling the excavated trenches after laying the PLB pipe with protection	(per meter)	
2.	Excavations of trenches upto a depth of 1 meter in hard soil/rocky area and reinstatement work after completion of pipe laying	(per meter)	
3.	Laying and fixing of Fiber Cable along the walls in the PVC conduit in the buildings	(per meter)	
4.	Laying of 6/12 Core Fiber Cable in the PLB/PVC Pipe	(per meter)	

5.	Pulling 2 nd OFC Cable through PLB Pipe	(per meter)	
6.	Fiber Termination/Splicing/Connectorisation per Core	(per core)	
7.	Fixing/mounting of Light Interface Unit (LIU)	(per unit)	
8.	Fixing/mounting of networking Racks	(per unit)	
9.	Fiber testing and certification	(per core)	
10.	OFC Cable Marking	(per unit)	
11.	Any other work required, if any, which has not mentioned in the document but also required to fulfill the overall operability, maintainability, and reliability of the complete equipments/services covered under the scope of this tender. (pl. mention the same)	---	

(Signatures)

Date:

Place:

Name:

Designation:

Seal