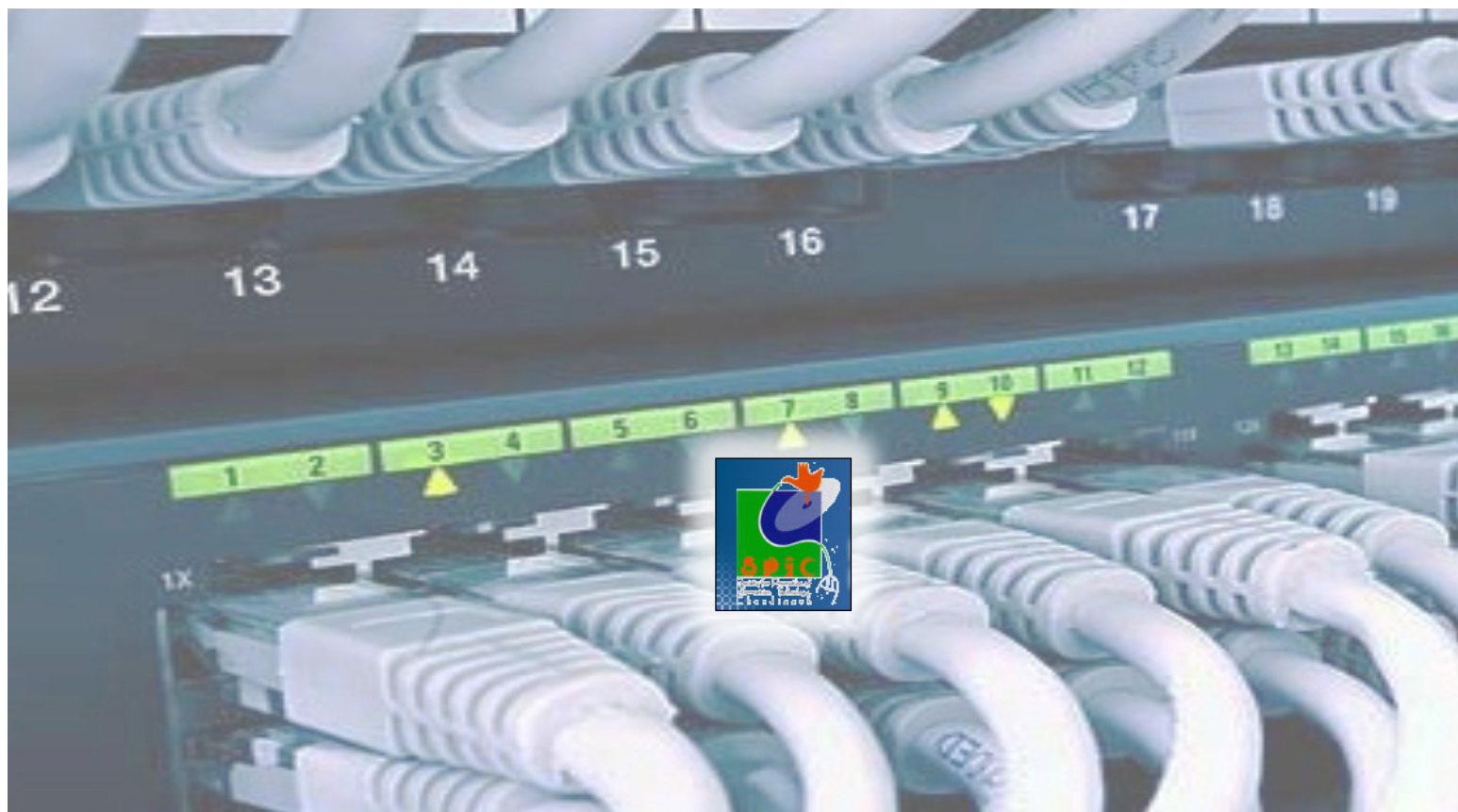


TENDER DOCUMENT

Empanelment of System Integrators for Supply, Installation & commissioning of Local Area Networking (LAN) under SWAN in Chandigarh



Tender No. SPIC/2017/36969

Date. 23/08/2017

**Society for Promotion of IT in Chandigarh (SPIC)
Under the aegis of Department of IT, Chandigarh Administration
Entrepreneur Development Centre (EDC) Building, Plot No: 20,
Rajiv Gandhi Chandigarh Technology Park (RGCTP), Chandigarh 160101.
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Tender Document for empanelment of System Integrator for supply, installation & commissioning of Local Area Networking (LAN) under SWAN in Chandigarh

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SECTION I

Invitation for Bids

1. This invitation of Bids is for empanelment of System Integrators for Supply and installation/laying of active and passive components/equipment for local area networking under SWAN scheme in Chandigarh with the objective of interconnecting all the desktop personal computers/Servers/Other IT Infrastructure to harness the benefit of latest developments of Information Technology.
2. This Tender document can also be downloaded from e-tendering website of Chandigarh Administration - <https://etenders.chd.nic.in> and the non-refundable Tender fee of Rs.2000/- in the form of bank draft in favour of 'Society for Promotion of IT in Chandigarh (SPIC)' payable at Chandigarh, must be paid in the form mentioned above at the time of submission of bid. Interested bidders can also download the tender document from SPIC's website <http://www.spicindia.com>.
3. 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.
4. Sealed offers prepared in accordance with the procedure described in Clause 1 of Section II should be submitted to the **Chief Executive Officer, Society for Promotion of IT in Chandigarh (SPIC), EDC Building, Plot No:20, RGCTP, Chandigarh-160101.**
5. The Tenderer must be a company registered under the Indian Companies Act, 1956.
6. The Tender comprises of two bid systems - the Technical Bid and Price Bid. The Tenderer has to submit a Bid Security /Earnest Money Deposit (EMD) of Rs. 50,000/- along with the Technical Bid.
7. Period for completion of work: It has been targeted that the work of LAN installation covering supply, installation, Testing and commissioning should be completed within time frame mentioned in the notification of award.
8. The bidders would have to quote the prices in Indian Rupees only covering the total scope of work.
9. The purchaser reserves the right of accepting and/or rejecting any/all Tenders without assigning any reasons thereof.
10. Key Dates etc. :
 - A. Name of the Purchaser: SPIC for departments of Chandigarh Administration.
 - B. Location where the work of LAN Installation would take place:
It can be any Departments of Chandigarh Administration
 - C. Addressee and Address at which Bids are to be submitted:
Chief Executive Officer SPIC,
Society for Promotion of IT in Chandigarh (SPIC),
EDC Building, Plot No: 20 ; RGCTP; Chandigarh-160101.

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- D. Last date for sale of Tender document: **07-09-2017**.
- E. Latest time and date for receipt of Bids: On or before **07-09-2017 up to 12:00 PM**.
- F. Place, Time and Date of opening of Technical Bids: **07-09-2017 up to 12:30 PM**.

**Society for Promotion of IT in Chandigarh (SPIC),
EDC Building, Plot No: 20 ; RGCTP; Chandigarh-160101**

The date, time and venue for opening Price bids will be intimated separately to those successful in technical bids.

- G. Bid Validity: 180 days from the date of opening of the Technical Bids.
- H. Validity of the Price Validity:

Validity of the Amount specified in the price bid should be valid for One year from the date of opening of the price BID. Additional Works in the form of similar networking in other departments may also be assigned to the selected vendor in the same terms & conditions and in the same price within one year.

Note: The Purchaser shall not be responsible for non-receipt/ non-delivery of the Bid document due to any reason whatsoever.

SECTION II

INSTRUCTIONS TO TENDERERS

1. Procedure for Submission of Bids

- 1.1 It is proposed to have a Two Cover System for this tender.
 - a) Technical Bid cum Qualification Bid in one cover.
 - b) Price Bid in one cover.
- 1.2 Sealed Tenders in 'two part' are being invited from reputed vendors for supply, installation & commissioning of Local Area Networking (LAN) under SWAN in the form of e-Tender as well as sealed hard copy of the same tender for the following job from reputed organizations having sufficient experience and credentials for successful supply, installation and commissioning of Networking and peripherals preferably in government / quasi-government organizations. Vendor should be capable of supplying, Installation & Commissioning of the LAN under this tender.
- 1.3 e-Tender to be submitted electronically through the e-tendering site of Chandigarh administration (<https://etenders.chd.nic.in>). e-tender to be uploaded in two parts – 1. Technical cum Qualification Bid and 2. Financial Bid.
- 1.4 Physical copy of Technical Bid of the Tender should be covered in a separate sealed cover super scribing the wordings "Technical Bid". Please Note that Prices Should Not be indicated in the Technical Bid.
- 1.5 Physical copy of Price Bid of the Tender should be covered in a separate sealed cover super scribing the wordings "Price Bid".
- 1.6 Both the Technical Bid cover and Price Bid Cover, prepared as above, along with Tender Fee & EMD are to be kept in a single sealed cover super scribed with Tender Number, Due Date, Item and the wordings "DO NOT OPEN BEFORE_____".
- 1.7 The cover thus prepared should also indicate clearly the name and address of the tenderer, to enable the Bid to be returned unopened in case it is declared "Late".
- 1.8 A letter, in a separate sealed cover, enclosing Bid security and describing the pre-qualifying technical competence and experience of the Tenderer and also certifying the period of validity of Bids for 180 days from the date of opening of the Technical Bids, should also be submitted with the Bid (Refer Clause 7.1(c) and Clause 20).

2. Cost of Tender

- 2.1 The Tenderer 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 Purchaser and the Purchaser, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.

3. Contents of the Tender Document

- 3.1 The broad specifications of the Scope of Work, Tender procedures and contract terms are prescribed in this Tender Document comprising of:

- (a) Section-I - Invitation for Bids
- (b) Section II - Instructions to Tenderers;
- (c) Section III - General Conditions of Contract;
- (d) Section IV - Technical Specification
- (e) Section V – Bid Schedules
- (f) Appendices, sketch and Checklist

3.2 The Tenderer is expected to examine all instructions, forms, terms and requirements in the Tender Document. Failure to furnish all information required by the Tender Document or submission of a bid not substantially responsive to the Tender Document in every respect will be at the Tenderer's risk and may result in the rejection of the bid.

4. Clarification of Tender Document

4.1 A prospective Tenderer requiring any clarification on the Tender Document may notify the Purchaser in writing at the Purchaser's mailing address or through e-mail indicated in Clause 9(c) of Section I. The Purchaser will respond in writing or through e-mail, to any request for clarification of the Tender Document, received not later than 4 days prior to the last date for the receipt of bids prescribed by the Purchaser. Written copies of the Purchaser's response (including an explanation of the query but without identifying the source of inquiry) will be posted on SPIC's website.

5. Amendment of Tender Document

- 5.1 At any time prior to the last date for receipt of bids, the Purchaser, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Tenderer, modify the Tender Document by an amendment.
- 5.2 The amendment will be notified/ published in e-tendering site & SPIC's website only.
- 5.3. In order to afford prospective Tenderers reasonable time in which to take the amendment into account in preparing their bids, the Purchaser may, at its discretion, extend the last date for the receipt of Bids if required.

6. Language of Bids

6.1 The Bids prepared by the Tenderer and documents relating to the bids exchanged by the Tenderer and the Purchaser, shall be written in the English language, provided that any printed literature furnished by the Tenderer may be written in another language so long as the same is accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.

7. Documents Comprising the Bids

7.1 The bids prepared by the Tenderer shall comprise of the following components :

- (a) Technical Bid comprising of the followings:
 - a. Bid Particulars
 - b. Bid Letter
 - c. Detailed technical Proposal
 - d. Vendor Profile
 - e. Pre-qualifying Technical Competence such as proven experience in providing Similar Services for determining pre-qualification conditions and Bid Security.
- (b) Price Bid comprising of the following:
 - a. Bid Letter
 - b. Price Schedule

8. Bid Prices

8.1 The bidders would have to quote the prices in Indian Rupees only for the total scope of work.

9. Firm Prices

9.1 Prices quoted must be firm and final and shall remain constant throughout the period of the contract and shall not be subject to any upward modifications, whatsoever.

10. Discount

10.1 The Tenderers are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted prices. Discount of any type, indicated separately, will not be taken into account for evaluation purpose. However, in the event of such an offer, without considering discount, is found to be the lowest, the Purchaser shall avail such discount at the time of award of contract.

11. Tenderer

11.1 The "Tenderer" as used in the tender documents shall mean the one who has submitted the Tender. The Tenderer may be either the Principal or his duly Authorized Representative, in which case he/she shall submit a certificate of authority.

12. Bid Security

- 12.1 Pursuant to Clause 7.1(c) of Section II the Tenderer shall furnish, as part of its bid, a bid security of the amount mentioned in Clause 6 of Section I.
- 12.2 The bid security is required to protect the Purchaser against the risk of Tenderer's conduct that would warrant the security's forfeiture, pursuant to Clause 12.8.
- 12.3 The bid security shall be denominated in Indian Rupees, and shall be in the form of a bank guarantee issued by a Nationalized / Scheduled Bank, in the proforma provided at Appendix A in the Tender Document and shall be valid for 45 days beyond the validity of

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the Bid.

- 12.4 Any bid not secured in accordance with Clauses 12.1 and 12.3 will be rejected by the Purchaser as non-responsive.
- 12.5 Unsuccessful Tenderer's bid security will be discharged/ returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity prescribed by the Purchaser, pursuant to Clause 13.
- 12.6 The successful Tenderer's bid security will be discharged upon the Tenderer executing the Contract, pursuant to Clause 35 and furnishing the performance security, pursuant to Clause 36.
- 12.7 No interest will be payable by the Purchaser on the amount of the Bid Security.
- 12.8 The bid security may be forfeited:
 - (a) if a Tenderer withdraws its bid during the period of bid validity specified by the Tenderer in the Bid; or
 - (b) in the case of a successful Tenderer, if the Tenderer fails:
 - (i) to sign the Contract in accordance with Clause 35; or
 - (ii) to furnish performance security in accordance with Clause 36.

13. Period of Validity of Bids

- 13.1 Bids shall remain valid for 180 days after the date of opening of Technical Bids prescribed by the Purchaser. A bid valid for a shorter period may be rejected by the Purchaser as non responsive.
- 13.2 In exceptional circumstances, the Purchaser may solicit the Tenderer's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by fax). The validity of bid security provided under Clause 12 shall also be suitably extended. A Tenderer may refuse the request without forfeiting its bid security. A Tenderer accepting the request will not be required nor permitted to modify its bid.

14. Format and Signing of Bid

- 14.1 The Tenderer shall prepare two copies of the Bid (One for uploading on the e-Tendering Site and Physical copy of the same to be submitted at the above mentioned Bid submission place), as appropriate in accordance with Clause 1. In the event of any discrepancy between them, the original e-Tendering copy shall govern.
- 14.2 The all copies of the bid shall be typed or written in indelible ink and shall be signed by the Tenderer or a person or persons duly authorized to bind the Tenderer to the Contract in pursuant to Clause 11. The letter of authorization shall be indicated by Company Letterhead accompanying the bid. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.
- 14.3 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Tenderer in which case such corrections shall be initialed by the person or persons signing the bid.

15. Revelation of Prices

- 15.1 Prices in any form or by any reason before opening the Price Bid should not be revealed, failing which the offer shall be liable to be rejected. If price change is envisaged due to any clarification, supplementary Bid in a separate sealed cover shall be accepted prior to price bid opening with prior written permission of the Purchaser.

16. Terms and Conditions of Tendering Firms

- 16.1 Printed terms and conditions of the tenderers will not be considered as forming part of their tenders. In case terms and conditions of the contract applicable to this Invitation of Tender are not acceptable to any Tenderer, he should clearly specify deviation in its tender. However no deviation in technical specification would be allowed.
- 16.2 Similarly in case the Services being offered has deviations from the specifications laid down in Section V, the tenderer shall describe in what respects and to what extent the Services being offered differ/deviate from the specifications, even though the deviations may not be very material. Tenderer must state categorically whether or not his offer conforms to tender specifications and indicate deviations, if any.

17. Site Conditions

- 17.1 It will be imperative on each tenderer to fully acquaint himself with the site conditions and factors which would have any effect on the performance of the contract and / or the cost.

18. Conditions for Pre-Qualification of Tenderers

- 18.1 Pursuant to Clause 7.1(c) of Section II, the Tenderer should clearly indicate, giving explicit documentary evidence along with the letter of pre-qualification, in respect of the Services offered, the following:
- i. Bid Security of the prescribed amount and validity pursuant to Clause 12.
 - ii. Domain Experience: The Tenderer should be in the business of supply, installation & commissioning of LANs for at least three years. The Tenderer should have proven experience of successfully completing at least two projects with total value of each project being at least Rs.25 lakhs during last two financial years preferably in Punjab, Haryana or Chandigarh region. Out of these two projects, one project should have been done with similar components quoted in the offer in any Govt./Quasi Govt. org.. Proof of satisfactory completion along with scope of these works to be submitted with the bid.
 - iii. Technical Support Facility: The Tenderer should have technical support office in the Chandigarh/Mohali/Panchkula region. Details & proof of service facilities for Technical Support on services, maintenance and availability of hardware components and manpower be attached.
 - iv. Company Turnover: The Tenderer should have a minimum turnover of Rs.5 crores (Rupees five crore only) in each of the last two years on account of supply, installation and commissioning of Networks. Relevant proof in the form of audited annual report or balance sheet duly certified by Chartered Accountant certifying the turn over in the field of Networking should be submitted.
 - v. The Tenderer must be a company registered under the Indian Companies Act, 1956 (Attach Memorandum of Association or Articles of Association along with commencement of business certificate) and should have Sales Tax registration.
 - vi. The Tenderer should be authorized partner/distributor or have Authorization from concerned Original Equipment Manufacturers (OEMs) for supply and support for all active and passive components quoted for at least five years (Authorization Certificates to be attached).
 - vii. The Bidder MUST NOT have been banned by any Government Agencies / Govt. Department / Quasi Govt. Dept / PSU / Board / Council or similar organization. The

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Bidder MUST give a declaration that they have not been banned by any such organization. If any Government Agencies / Govt. Department / Quasi Govt. Dept / PSU / Board / Council or similar organization has banned the Bidder, this fact must be clearly stated.

19. Sealing and Marking of Bids

- 19.1 The Tenderers shall seal and mark the Bid strictly in accordance with Clause 1.
- 19.2 If the outer cover of the bid is not sealed and marked as required by Clause 1, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.

20. Last Date for Receipt of Bids

- 20.1 Bids must be received by the Purchaser at the address specified under Clause 9(c) of Section I not later than the time and date specified in Clause 9(e) of Section I. In the event of the specified date for the receipt of Bids being declared a holiday for the Purchaser, the Bids will be received up-to the appointed time on the next working day.
- 20.2 The Purchaser may, at its discretion, extend the last date for the receipt of bids by amending the Tender Document in accordance with Clause 5, in which case all rights and obligations of the Purchaser and Tenderers previously subject to the last date will thereafter be subject to the last date as extended.

21. Late Bids

- 21.1 Any bid received by the Purchaser after the appointed time on the last date for receipt of bids prescribed by the Purchaser, pursuant to Clause 9 Section I, will be rejected and/or returned unopened to the Tenderer.

22. Modification and Withdrawal of Bids

- 22.1 The Tenderer may withdraw its bid after the bid's submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the last date prescribed for receipt of bids.
- 22.2 The Tenderer's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions.
- 22.3 A withdrawal notice may also be sent by telex or cable or fax but followed by a signed confirmation copy, post marked not later than the last date for receipt of bids.
- 22.4 No bid may be modified subsequent to the last date for receipt of bids.
- 22.5 No bid may be withdrawn in the interval between the last date for receipt of bids and the expiry of the bid validity period specified by the Tenderer in the Bid. Withdrawal of a bid during this interval may result in the Tenderer's forfeiture of its bid security.

23. Address for Correspondence

- 23.1 The Tenderer shall designate the official mailing address, place and fax number to which all correspondence shall be sent by the Purchaser.

24. Opening of Bids by Purchaser

- 24.1 On the basis of information given in the letter of pre-qualification, as mentioned at Clause 20, Tenderers will be pre-qualified.
- 24.2 Price Bids of only pre-qualified tenderers will be opened.
- 24.3 The Purchaser will open the Bids, in the presence of the representatives of the Tenderers who choose to attend, at the time and date, as mentioned in Section I of this Document.

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- 24.4 The Tenderers' names, modifications, bid withdrawals and the presence or absence of the requisite Bid Security and such other details as the Purchaser, at its discretion, may consider appropriate will be announced at the bid opening.

25. Clarifications

- 25.1 When deemed necessary, the Purchaser may seek clarifications on any aspect from the tenderer. However, that would not entitle the Tenderer to change or cause any change in the substance of the tender submitted or price quoted.

26. Preliminary Examination

- 26.1 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required bid security has been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 26.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the Tenderer does not accept the correction of the errors, its bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.
- 26.3 A bid determined as not substantially responsive will be rejected by the Purchaser and may not subsequently be made responsive by the Tenderer by correction of the non-conformity.
- 26.4 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Tenderer.

27. Contacting the Purchaser

- 27.1 No Tenderer shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
- 27.2 Any effort by a Tenderer to influence the Purchaser's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Tenderer's bid.

28. Evaluation Criteria

- 28.1 Bids will be evaluated on, including but not limited to the content of technical experience, managerial competence, proposed scope of the proposal and cost. The selection may be made without discussion and/or price negotiation. Therefore, the proposal should be submitted complete and on the most favorable terms.
- 28.2 Only successful Tenderers of technical bid would be considered for evaluation of Price bid.

29. Award Criteria

- 29.1 The Purchaser will award the Contract to the successful Tenderer whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated Price bid, provided further that the Tenderer is determined to be qualified to perform the Contract satisfactorily. The Purchaser shall however not bind itself to accept the lowest or any bid and reserves the right to accept any bid, wholly or in part.

30. Purchaser's Right to Vary Scope of Contract

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- 30.1 The Purchaser may at any time, by a written order given to the Vendor pursuant to Clause 12 of Section III, make changes within the general scope of the Contract.
- 30.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Vendor's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Vendor for adjustment under this Clause must be asserted within thirty(30) days from the date of the Vendor's receipt of the Purchaser's changed order.

31. Purchaser's Right to Accept Any Bid and to Reject Any or All Bids

- 31.1 The Purchaser reserves the right to accept any bid, and to annul the Tender process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds for the Purchaser's action.
- 31.2 Tenders that are not accompanied with Earnest Money Deposit (EMD)/Bid Security and Tender fees shall be rejected outright

32. Notification of Award

- 32.1 Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Tenderer in writing by registered letter or by cable or telex or fax, to be confirmed in writing by registered letter, that its bid has been accepted.
- 32.2 The notification of award will constitute the formation of the Contract.
- 32.3 Upon the successful Tenderer's furnishing of performance security pursuant to Clause 36, the Purchaser will promptly notify each unsuccessful Tenderer and will discharge its bid security, pursuant to Clause 12.

33. Signing of Contract

- 33.1 At the same time as the Purchaser notifies the successful Tenderer that its bid has been accepted, the Purchaser will send the Tenderer the Contract Form provided in the Tender Document, incorporating all agreements between the parties.
- 33.2 Within 7 days of receipt of the Contract Form, the successful Tenderer shall sign and date the Contract and return it to the Purchaser.

34. Performance Security

- 34.1 Within 7 days of the receipt of notification of award from the Purchaser, the successful Tenderer shall furnish the performance security in accordance with the Conditions of Contract, in the Contract Performance Guarantee Bond prescribed at Appendix.
- 34.2 Failure of the successful Tenderer to comply with the requirement of Clause 33 or Clause 34 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.

SECTION III

GENERAL CONDITIONS OF CONTRACT

1. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Client" or "The Purchaser" means the Departments of Chandigarh Administration, Chandigarh through the Society for Promotion of IT in Chandigarh (SPIC).
- (b) "Purchase Officer" means the officer signing the acceptance of tender and includes any officer who has authority to execute the relevant contract on behalf of the Client.
- (c) The "Contract" means the agreement entered into between the Client and the Contractor as recorded in the Contract Form signed by the Client and the Contractor, including all attachments and annexes thereto and all documents incorporated by reference therein.
- (d) The "Contractor " or "Vendor" means the firm or the company selected through tendering process and shall be deemed to include the Contractor's successors, representatives (approved by the Client), heirs, executors, administrators and permitted assigns, as the case may be, unless excluded by the terms of the contract. **However more than one Vendor may be empaneled for different OEMs.**
- (f) "The Contract Price" means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations;
- (g) "Service" means services to be provided by the Contractor as per the requirements specified in Section IV of this document and any other incidental services, such as setting up of necessary infrastructure, implementation, provision of technical assistance, training and other such obligations of the Contractor covered under the Contract;
- (h) "Acceptance of Tender" means the letter/telex/e-mail/ fax or any memorandum communicating to the Tenderer the acceptance of his tender and includes an advance acceptance of his tender.

2. Application

- 2.1 These General Conditions shall apply to the extent that provisions in other parts of the Contract do not supersede them.

3. Standards of Performance

- 3.1 The Contractor shall perform the Services and carry out its obligations under the Contract with due diligence, efficiency and economy, in accordance with generally accepted techniques and practices used in the industry and with professional engineering and consulting standards recognized by international professional bodies and shall observe sound management, engineering practices. It shall employ prudent technical and engineering practices. It shall employ advanced technology and safe and effective equipment, machinery, material and methods. The Contractor shall always act, in respect of any matter relating to this Contract, as faithful advisors to the Client and shall, at all times, support and safeguard the Client's legitimate interests in any dealings with Third Parties.

4. Use of Contract Documents and Information

- 4.1 The Contractor shall not, without the Client'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 Client in connection therewith, to any person other than a person employed by the Contractor in the Performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.
- 4.2 The Contractor shall not, without the Client's prior written consent, make use of any document or information except for purposes of performing the Contract.
- 4.3 Any document, other than the Contract itself, shall remain the property of the Client and shall be returned (in all copies) to the Client on completion of the Contractor's performance under the Contract, if so required by the Client.

5. Performance Guarantee

- 5.1 Within 7 days after the receipt of notification of award of the Contract from the Client, the successful Tenderer shall furnish Performance Guarantee to the Client, which shall be equal to 10% of the value of the Contract and shall be in the form of a Guarantee Bond from a Nationalized / Scheduled Bank in the Proforma given at Appendix.
- 5.2 The validity of the Performance guarantee submitted should be for a period of Three years Sixty days from the date of receipt of notification of award from the client.
- 5.3 The performance guarantee shall be deemed to govern the following guarantees from the successful tenderer, in addition to other provisions of the guarantee:
- The hardware/Software supplied under the contract shall be free from all defects/bugs and upon written notice from the client, the successful Tenderer shall fully remedy, free of expense to the client, all such defects/bugs as developed under the normal use of the said hardware/software.
 - To fulfill the conditions of work contract/purchase order.
 - The performance guarantee is intended to secure the performance of the entire system. However, it is not to be construed as limiting the damages stipulated in any other clauses.
 - The SLA for the maintenance support for Three years.

6. Inspections and Tests

- 6.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.
- 6.2 The inspections and tests may be conducted on the premises of the Supplier or, at point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier, all reasonable facilities and assistance, including access to drawings and production data – shall be furnished to the inspectors at no charge to the Purchaser. The testing/ inspection shall be done at the site at the time of delivery of the equipment against any physical damage on delivery.
- 6.3 Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- 6.4 The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
- 6.5 Nothing in Clause 6 shall in any way release the Supplier from any warranty or other obligations under this Contract.
- 6.6 It will be the responsibility of the Tenderer to submit the system test procedure for conducting the post installation site acceptance testing. The procedure submitted by the Tenderer should be drafted in line with the standard practices followed in the industry and should be in accordance with the test procedure and practices specified by the OEM. The draft of Acceptance Testing Procedure should be submitted to the Purchaser for approval at least 15 days before the schedule site acceptance date. The acceptance test procedure on approval by the purchaser shall become the document for acceptance of the equipment after installation at the site.

7. Warranty

- 7.1 The Tenderer warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. This warranty shall remain valid for a period of a minimum 36 months after the Goods or any portion thereof as the case may be, have been delivered, commissioned and accepted at the final destination indicated in the Contract.
- 7.2 The Tenderer shall post a well qualified, and experienced Service Engineer full time at the site at his own expense and get the defects/bugs removed in the system as detected by the Purchaser during the period of warranty.
- 7.3 The Purchaser shall promptly notify the Tenderer in writing of any claims arising under this warranty.
- 7.4 Upon receipt of such notice, the Tenderer shall, within 48 hours and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Purchaser.
- 7.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in 7.4 above, the Purchaser may proceed to take such remedial action as may be necessary, at the Tenderer's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

8. Documentation

8.1 The Tenderer shall supply the following documents at the time of Acceptance Test:

- Complete set of Technical/Operation and Maintenance Manual
- An inventory of items delivered.
- Rack wise inventory
- Node & connectivity details
- Switch installation Report
- UTP/OFC Wiring diagram
- Certification details for UTP & OFC connections.

9. Project Schedule & Monitoring

9.1 The Tenderer shall plan various activities and submit the execution schedule and bar chart along with signing of the contract. The execution schedule should clearly indicate all activities and the time required for completion of each activity taking the total project time as mentioned above. Parallel and dependent activities for each activity need to be specified in the schedule. This will form the basis for Monitoring of execution of the project and any delay/slippage from the schedule will be reviewed by both parties in review meetings from time to time and remedial measures decided to complete the project as per the schedule.

10. Training

10.1 The Tenderer shall provide necessary training to the persons authorized by the client for using/maintaining the Networking facility. Training for 10 man-days (2 persons 5 days) shall be included.

11. Currency of Payment

11.1 Payment shall be made in Indian Rupees only.

12. Change Orders

12.1 The Client may at any time, by a written order given to the Contractor pursuant to Clause 32 of Section II, make changes within the general scope of the Contract.

12.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Vendor's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Contractor for adjustment under this Clause must be asserted within thirty(30) days from the date of the Vendor's receipt of the Purchaser's changed order.

13. Contract Amendments

13.1 No variation in or modification of the terms of the Contract shall be made except by written amendment signed by both the parties i.e. the Contractor and the Client.

14. Assignment

14.1 The Tenderer shall not assign or sub contract, in whole or in part, its obligations to perform under the Contract.

15. Terms of Payment

15.1 The payment to the vendor shall be made as under:

- 80% of the total Bill Amount (without project management & support charges for 3 Years) would be released on successful completion of the installation & testing process.
- 20% (without project management & support charges for 3 Years) of the total Bill Amount would be released after completion of 1-month service.
- Project management & support charges for 3 Years would be equally divided into 3 parts and one part would be release on completion of the a Year.

15.2 No Advance payment will be made.

15.3 Payment will be made only after submission of following documents by the Tenderer:

- Delivery Challan.
- Installation Report duly signed.
- Testing certificate.

15.4 No amount would accrue to the Contractor in failure to furnish Performance Security.

16. Delays in the Contractor's Performance

16.1 An unexcused delay by the Contractor in the performance of its Contract obligations shall render the Contractor liable to any or all of the following sanctions:

- (i) Forfeiture of its performance security;
- (ii) Imposition of Liquidated Damages
- (iii) Termination of the Contract for default.

16.2 If at any time during performance of the Contract, the Contractor should encounter conditions impeding timely completion of the services under the contract and performance of the services, the Contractor shall promptly notify the Client in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable, after receipt of the Vendor's notice, the Client shall evaluate the situation and may at its discretion extend the Vendor's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

16.3 Liquidated Damages : Subject to clause 16. if the Tenderer fails to complete the project within the time period specified in the contract, the purchaser shall without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to the 0.5% per week (seven days) or part there of the contract price of unperformed services for each week(seven days) or part thereof of delay subject to maximum deduction of 10% of the contract price. Once the maximum is reached, the purchaser may consider termination of the contract pursuant to clause 17.

17. Termination for Default

17.1 The Client may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Contractor, terminate the Contract in whole or in part if:

- (a) the Contractor fails to deliver any or all of the obligations within the time period(s) specified in the Contract, or any extension thereof granted by the Client pursuant

to Clause 16; or

(b) the Contractor fails to perform any other obligation(s) under the contract.

18. Force Majeure

- 18.1 Notwithstanding the provisions of Clauses 16 and 17, the Contractor shall not be liable for forfeiture of its performance security, or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 18.2 For Purposes of this Clause, "Force Majuro" means an event beyond the control of the Contractor and not involving the Contractor and not involving the Vendor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Client either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 18.3 If a force Majeure situation arises, the Contractor shall promptly notify the Client in writing of such conditions and the cause thereof. Unless otherwise directed by the Client in writing, the Contractor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all prevention by the Force Majeure event.

19. Termination for Insolvency

- 19.1 The Client may at any time terminate the Contract by giving written notice to the Contractor, without compensation to the Contractor, if the Contractor becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Client.

20. Arbitration

- 20.1 The Client and the Contractor shall make every effort to resolve amicably by direct informal negotiations, any disagreement or disputes, arising between them under or in connection with the Contract.
- 20.2 If, after Thirty(30) days from the commencement of such direct informal negotiations, the Client and the Contractor have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanism specified in Clauses 20.3 and 20.4.
- 20.3 In the event of such arbitrator to whom the matter is originally referred to vacates his office on resignation or otherwise or refuses to do works or neglecting his work or being unable to act as arbitrator for any reason whatsoever, the Finance Secretary, Chandigarh Administration or any other person appointed by him or Chief Executive Officer, SPIC, shall appoint another person to act as arbitrator in the place of outgoing arbitrator and the person so appointed shall be entitled to proceed further with the reference from the stage at which it was left by the predecessor. The vendor will have no objection in any such appointment that arbitrator so appointed is employee of Department/SPIC.
- 20.4 The Arbitration & Conciliation Act 1996, the rules there under and any statutory modification or re-enactments thereof, shall apply to the arbitration proceedings.
- 20.5 The venue of arbitration shall be Chandigarh.
- 20.6 The Client may terminate this contract, by giving a written notice of termination of minimum 30 days, to the Contractor, if the Contractor fails to comply with any decision reached consequent upon arbitration proceedings pursuant to Clause 20.

21. Governing Language.

21.1 The Agreement shall be written in English language. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in English language.

22. Applicable Law

22.1 The contract shall be interpreted in accordance with the Indian laws.

23. Notices

23.1 Any notice by one party to the other pursuant to the Contract shall be sent in writing or by e-mail or by telex and confirmed in writing to the address specified for that purpose in the contract.

23.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

24. Taxes

24.1 The successful Tenderer shall be entirely responsible for all taxes, duties, octroi, license fees, demurrage charges etc., in respect of this contract and provisions of Income tax Act regarding deduction of tax at source shall apply.

25. EMPANELMENT PROCESS

Empanelment of the System Integrators would be done based on OEM. For each OEM – one System Integrator would be empaneled. Order to the empaneled vendors would be placed as per the preference of the OEM received from the departments. Lowest Bidder (L1) would be selected among the different OEMs (one L1 party for each OEM).

SECTION-IV

TECHNICAL SPECIFICATION

1. Intent of Specification

This tender document pertains to implementation of local area networking.

The proposed Local area network of different offices/departments under Chandigarh Administration

2. SCOPE OF WORK

2.1 The scope of work in this tender covers networking of desktop computers/IT Peripherals .

2.2 The scope covers design/development of a suitable architecture/layout of the proposed networking system, preparation of bill of materials, pre-despatch inspection / testing, packing and forwarding, transportation, insurance and carrying out further activities at sites viz. unloading, storage, (space to be provided by the owner) further handling, erection, testing and commissioning including successful completion of acceptance tests and any other services specified.

2.3 Detailed Bill of material included in this tender is given at Clause 4.0. However, purchaser 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 network.

2.4 Scope of Work shall also include:

- A. Powering on equipment after ensuring correctness of terminations interfaces and power supply and making the system ready for testing and commissioning.
 - B. Testing of LAN Cables 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. Cabling work shall also be got certified from OEM.
 - C. Configuration of the equipment as per the requirements of department including Network segmentation and Network Monitoring
 - D. Field testing and commissioning of system, including integration with existing Network for Internet connectivity.
 - E. Site acceptance tests to establish satisfactory performance of the equipment's as per specs.
 - F. Assistance for familiarization and operation of the installed system & services for 6 months after acceptance of system.
 - G. Training to Owner's personnel as stipulated at clause 10, Section-III.
 - H. Onsite Maintenance support for all Hardware/software delivered for three years.
- 2.5 In case, the quantity of laying cables or fixing wall mount sockets etc. exceeds or is less than the quantity in bid price schedule, the payment for the executed quantity shall be paid on pro-rata basis, for the actual quantities for which the installation is carried out through the

3. General Technical Requirements

- 3.1 All active LAN components such as switches, wireless equipment's offered shall be of the same Make/manufacturer and shall be covered under same back-up guarantee from the same OEM, to ensure full compatibility, inter-working and inter-operability.
- 3.2 Equipment furnished shall be complete in every respect with all mountings, fittings, fixtures and standard accessories normally provided with such equipment's and/or needed for erection, completion and safe operation of the equipment's as required by applicable codes though they may not have been specifically detailed in the technical specification, unless included in the list of exclusions. All similar standard components/parts of similar standard equipment's provided, shall be inter-changeable with one another.
- 3.3 The methodology of cabling an installation work, to be adopted, has to ensure minimum damage to the existing finish and no loss to the aesthetic beauty of the floors. Any damage to the existing flooring/ walls/paint etc. shall be made good by the Contractor. It is advised that tenderer should visit site before submitting the tender to get apprised about the site conditions.
- 3.4 The Bidder shall be responsible for providing all materials, equipment's, and services, specified or otherwise, which are required to fulfill the intent of ensuring operability, maintainability, and reliability of the complete equipment covered under this specification within his quoted price. 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.
- 3.5 The bidder shall also be responsible for deputing qualified personnel for installation, testing, commissioning and other services under his scope of work as per this specification. All required tools and tackles for completing the scope of work as per the specification is also the responsibility of the bidder.
- 3.6 The bidders proposal shall not include the list of tools (such as; crimping tool, Krone punch tool) and accessories which shall be furnished with the equipment. These are to be clearly brought out with itemized price in the bid. However the prices of these special tools and tackles shall be included in the lump sum Project Management cost not as a separate bid price.
- 3.7 The Bidder shall furnish one complete sets of system and equipment instruction manuals and detailed installation operating and maintenance documentation along with the CDs for the same. Manuals shall describe system operation, shall include detailed system and components description and shall cover the installation, operation, care and maintenance of all system components including diagnostics. Complete parts lists including detailed instructions for ordering shall be furnished. Complete documentation for operating, system software, application programs, software selectable functions, shall be provided. After installation "as built" drawings shall be provided by the bidder indicating the cable routes, termination & termination details, actual configuration & parameters, etc.
- 3.8 The exact siting of equipment's and cable routing shall be determined by the contractor in consultation with department. The contractor shall prepare his proposed cable routing diagram and estimate the quantities for cable, conduit and channels.
- 3.9 The Bidder shall perform the Services and carry out their obligations with all due diligence,

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efficiency, and economy, in accordance with generally accepted professional techniques and practices, and shall observe sound management practices, and employ appropriate advance technology and safe methods. The Bidders shall always act, in respect of any matter relating to this Contract or to the Services, as faithful advisers to the Client and shall at all times support and safeguard the Client's legitimate interests in any dealings with Sub-bidders or third parties.

- 3.10 The Bidder shall furnish complete, well-fabricated and reliably operating and secure systems as described in this document. Design and selection of equipment and software shall be consistent with the requirements of long term trouble free operation with highest degree of reliability and maintainability. All equipment shall be constructed to operate safely without undue heating, vibration, wear, corrosion, electromagnetic interference or similar problems and all software shall be proven, tested and reliable.
- 3.11 All interconnecting cables required to connect the communication equipment shall be furnished. All cables shall be fully assembled connector pre-terminated and factory tested as part of overall system checkout. Cables shall be neatly & properly tied up and dressed using appropriate cable hangers and Velcro bands. All the cables, connectors, sockets, panel's etc. shall be labeled for identification purpose.
- 3.12 All equipment, accessories and cables supplied under this contract shall be in accordance with the latest applicable recommendations, regulations and standards of:
- CCITT/ITU
 - ANSI
 - IEC
 - IEEE
 - IETF
 - EIA/TIA 568 Standards
 - International Electro-technical Commission (IEC)
 - cable (OFC and Cat 6) and cable accessories (OFC and Cat6) UL Listed and verified

For parameters not covered under the above codes, internationally acceptable standards shall be accepted. The bidder shall furnish a complete list of all standards and codes under which his equipment is designed, manufactured and assembled along with the bids.

- 3.13 The equipment's to be supplied shall operate without any deviation in quality or degradation of system performance and all the parameters detailed in these specifications shall be guaranteed over the following environmental conditions.
- | | |
|-----------------------|------------------------------|
| Operating Temperature | : 0 degree C to 45 degree C. |
| Humidity | : 95% RH (non condensing) |

- 3.14 Reliable over voltage and over current protection circuits shall be provided in the equipment power supply units.

The equipment power supply units shall be self protecting and also protect connected equipment's against interference, noise, voltage dips and surges & impulses that may be present in the mains power supply sources.

Equipment shall be guaranteed for operation over the following AC power range to be made available by the owner:

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240 V AC +/-10%, 50 Hz +/- 5%

The owner shall provide suitable AC power at a single power point at each of the locations and distribution of this power to the various equipment's shall be responsibility of the bidder for which necessary distribution board, cable etc. shall be provided by the bidder.

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4. List of Equipment /Services

Bill of material included is given below:

Sr.	Items Description
1	Managed Layer 3 Switch with 24 Port
2	Managed Layer 3 Fibre Switch with 24 Port
3	Managed Layer 2 Switch with 24 Port (non POE)
4	Managed Layer 2 Switch with 24 Port (POE)
5	Managed Layer 2 Switch with 24 Port with 10G uplink
6	Gigabit EDGE Switch with 24 Port
7	Managed Layer 2 Switch with 8 Port (POE)
8	8 x 10/100/1000 Gigabit Ethernet PoE
9	1G multimode Transceiver - LC Connector
10	1G singlemode Transceiver - LC Connector
11	10G multimode Transceiver - LC Connector
12	10G singlemode Transceiver - LC Connector
13	Appliance based Wireless Controller with support for 50 Access Points (without License)
14	Wireless Controller License for Access Point
15	Outdoor Access Point standalone
16	Indoor Access Point standalone
17	Security Appliance (UTM) for 50 Users
18	Security Appliance (UTM) for 300 Users
19	Subscription for 3 Years for UTM (300 User)
20	Subscription for 3 Years for UTM (50 User)
21	6 Core Multimode Optical Fiber Cable
22	12 Port Rack Mount LIU
23	1x6 SC Adapter Panel
24	SC Adapter Multimode, Simplex
25	SC Pigtail Multimode, Simplex
26	LC-SC Multimode Fiber Patch Cord - 1 Meter
24	SC Adapter Singlemode, Simplex
25	SC Pigtail Singlemode, Simplex
26	LC-SC Singlemode Fiber Patch Cord - 1 Meter
27	Cat6 UTP Cable Box (305 Meter)
28	Cat6 24 Port Patch Panel-Loaded
29	Cat6 UTP Patch Cord - 1 Meter
30	Cat6 UTP Patch Cord - 2 Meter
31	Cat6 Information Outlet - Jack
32	Face Plate - Single Port
33	Surface Mount Box (SMB)
34	24U Floor Mount Rack with Accessories (Cable Manager = 2, PDU 5 Socket 5 Amp = 1, Mounting Hardware (set of 10 cage nuts) = 2, 2 Fans Top Mount)

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34	12U Wall Mount Rack with Accessories (Cable Manager = 2, PDU 5 Socket 5 Amp = 1, Mounting Hardware (set of 10 cage nuts) = 2, 2 Fans Top Mount)
35	9U Wall Mount Rack with Accessories (Cable Manager = 1, PDU 3 Socket 5 Amp = 1, Mounting Hardware (set of 10 cage nuts) = 1, 2 Fans Top Mount)
36	PLB HDPE Pipe 32 x 26mm
37	PVC Wiring Channel
38	1" PVC Conduit (ISI) - LMS
39	1.5" PVC Conduit (ISI) - LMS
40	Laying of UTP Cable
41	Laying of PVC Conduit
42	Laying of Fiber
43	Laying of HDPE Pipe
44	Digging of Soft Soil
45	Digging/Mouling of Hard Soil
46	Splicing of Pigtail
47	Fixing & Termination of I/O
48	Fixing & Termination of Patch Panel
49	Fixing of Rack
50	Project Management Charges including installation & configuration of Active Components and Project Documentation & 3 Years support services

5. Specifications of Components

5.1 Layer 3 Core Switch

- (a) The Switch offered by the bidder Should support full layer 2, 3 & 4 features like: SNMP v1 v2 v3, RMON, VLAN, RIPv1, RIPv2, Static Routes, PBR (Policy Based Routing), Multicast Routing, IGMP, ICMP, RIPv2, OSPFv3, MAC address, QoS on all ports from day one.
- (b) The device offered should be 19" Rack mountable 1RU maximum height. Should have internal 1+1 hot swappable AC power supplies with redundancy.
- (c) The Switch should have minimum 24 nos. 10/100/1000 Base-T full duplex auto-sensing ports.
- (d) Switch must have option to support 4 x 10G SFP+ ports and additional 2 x stacking ports with atleast 40 Gbps bandwidth for future use.
- (e) Switching Fabric/Backplane Bandwidth: Non-Blocking Architecture minimum 168 Gbps & through put more than 125 Mpps.
- (f) All the ports on the Switch shall be offered with requisite connecting cables and Trans-receivers, if any for termination on Jack/Patch Panel.
- (g) Shall support all Ethernet IEEE 802 standards like IEEE 802.3x. IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x, IEEE802.1p, IEEE 802.1q etc.
- (h) The switch should support Port / Link Aggregation upto 8 ports, Port Mirroring, 802.1X Port-Based Authentication, DHCP Support, inter VLAN routing enabled.
- (i) The switch should support minimum 1K VLANs, 32K MAC Addresses, 8 QoS egress queues per port.
- (j) The switch should be IPv6 ready (H/W & S/W) for all layers 2, 3 & 4 from day one.
- (k) The switch should have Console Port and Out-of-band Port for Management.
- (l) The switch should be Modular OS / Latest enterprise class OS to support full layer 2 & 3 features
- (m) The switch should be EAL or NDPP Certified.

5.2 Layer 3 Core Switch (Fibre based)

- (a) The Switch offered by the bidder Should support full layer 2, 3 & 4 features like: SNMP v1 v2 v3, RMON, VLAN, RIPv1, RIPv2, Static Routes, PBR (Policy Based Routing), Multicast Routing, IGMP, ICMP, RIPv2, OSPFv3, MAC address, QoS on all ports from day one.
- (b) The device offered should be 19" Rack mountable 1RU maximum height. Should have internal 1+1 hot swappable AC power supplies with redundancy.
- (c) The Switch should have minimum 24 nos 10/100/1000 Base-X full duplex auto sensing ports.
- (d) Switch must have option to support 4 x 10G SFP+ ports and additional 2 x stacking ports with atleast 40 Gbps bandwidth for future use.
- (e) Switching Fabric/Backplane Bandwidth: Non-Blocking Architecture minimum 168 Gbps & through put more than 125 Mpps.
- (f) All the ports on the Switch shall be offered with requisite connecting cables and Trans-receivers, if any for termination on Jack/Patch Panel.
- (g) Shall support all Ethernet IEEE 802 standards like IEEE 802.3x. IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x, IEEE802.1p, IEEE 802.1q etc.
- (h) The switch should support Port / Link Aggregation upto 8 ports, Port Mirroring, 802.1X Port-Based Authentication, DHCP Support, inter VLAN routing enabled.

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- (i) The switch should support minimum 1K VLANs, 32K MAC Addresses, 8 QoS egress queues per port.
- (j) The switch should be IPv6 ready (H/W & S/W) for all layers 2, 3 & 4 from day one.
- (k) The switch should have Console Port and Out-of-band Port for Management.
- (l) The switch should be Modular OS / Latest enterprise class OS to support full layer 2 & 3 features
- (m) The switch should be EAL or NDPP Certified.

5.3 Layer 2 Edge switches (24 Port Non-POE)

- (a) The switch should be 19" rack mountable with 1RU maximum height
- (b) The Switch should be minimum 24 port 10/100/1000Base-T full duplex auto sensing ports with additional 2 SFP ports
- (c) Switching Fabric/Backplane Bandwidth: Non-Blocking Architecture minimum 88 Gbps & through put more than 65 Mpps.
- (d) The switch should support full layer 2 and basic L3 features like: SNMP v1 v2 v3, RMON, VLAN, Static Routes, MAC address, QoS.
- (e) The switch should support power supply redundancy.
- (f) The switch should support all Ethernet IEEE 802 standards like IEEE 802.3x, IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x, IEEE802.1p, IEEE 802.1q, IEEE802.3az etc.
- (g) The switch should support Port Security, Dynamic ARP Inspection, IP Source Guard, ACLs, Private VLANs.
- (h) The switch should support Port / Link Aggregation upto 8 ports, Port Mirroring, 802.1x Port-Based Authentication, DHCP Support, inter VLAN routing enabled
- (i) The switch should support minimum 1K VLANs, 10K MAC Addresses, 8 QoS egress queues per port
- (j) The switch should be IPv6 ready (H/W & S/W) for all layer 2 and layer 3 from day one.
- (k) The switch should have Console Port and Out-of-band Port for Management
- (l) The switch should be Modular OS / Latest enterprise class OS to support full layer 2 & 3 features
- (m) The switch should be EAL or NDPP Certified

5.4 Layer 2 Edge switches (24 Port POE)

- (a) The switch should be 19" rack mountable with 1RU maximum height
- (b) The Switch should be minimum 24 port 10/100/1000Base-T POE full duplex auto sensing ports with additional 2 SFP ports
- (c) Switching Fabric/Backplane Bandwidth: Non-Blocking Architecture minimum 88 Gbps & through put more than 65 Mpps.
- (d) The switch should support full layer 2 and basic L3 features like: SNMP v1 v2 v3, RMON, VLAN, Static Routes, MAC address, QoS.
- (e) The switch should support power supply redundancy.
- (f) The switch should support all Ethernet IEEE 802 standards like IEEE 802.3x, IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x, IEEE802.1p, IEEE 802.1q, IEEE802.3az etc.
- (g) The switch should support Port Security, Dynamic ARP Inspection, IP Source Guard, ACLs, Private VLANs.
- (h) The switch should support Port / Link Aggregation upto 8 ports, Port Mirroring, 802.1x Port-Based Authentication, DHCP Support, inter VLAN routing enabled
- (i) The switch should support minimum 1K VLANs, 10K MAC Addresses, 8 QoS egress queues per port
- (j) The switch should be IPv6 ready (H/W & S/W) for all layer 2 and layer 3 from day one.

- (k) The switch should have Console Port and Out-of-band Port for Management
- (l) The switch should be Modular OS / Latest enterprise class OS to support full layer 2 & 3 features
- (m) The switch should be EAL or NDPP Certified

5.5 Layer 2 Edge switches (24 Port Non-POE) with 10G Uplink

- (a) The switch should be 19" rack mountable with 1RU maximum height
- (b) The Switch should be minimum 24 port 10/100/1000Base-T full duplex auto sensing ports with additional 2 x 10G SFP+ ports
- (c) Switching Fabric/Backplane Bandwidth: Non-Blocking Architecture minimum 88 Gbps & through put more than 65 Mpps.
- (d) The switch should support full layer 2 and basic L3 features like: SNMP v1 v2 v3, RMON, VLAN, Static Routes, MAC address, QoS.
- (e) The switch should support power supply redundancy.
- (f) The switch should support all Ethernet IEEE 802 standards like IEEE 802.3x, IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x, IEEE802.1p, IEEE 802.1q, IEEE802.3az etc.
- (g) The switch should support Port Security, Dynamic ARP Inspection, IP Source Guard, ACLs, Private VLANs.
- (h) The switch should support Port / Link Aggregation upto 8 ports, Port Mirroring, 802.1x Port-Based Authentication, DHCP Support, inter VLAN routing enabled
- (i) The switch should support minimum 1K VLANs, 10K MAC Addresses, 8 QoS egress queues per port
- (j) The switch should be IPv6 ready (H/W & S/W) for all layer 2 and layer 3 from day one.
- (k) The switch should have Console Port and Out-of-band Port for Management
- (l) The switch should be Modular OS / Latest enterprise class OS to support full layer 2 & 3 features
- (m) The switch should be EAL or NDPP Certified

5.6 Layer 2 Edge switches (8 Port POE)

- (a) The Switch should be 19" rack mountable with 1RU maximum height
- (b) The Switch should be minimum 8 port 10/100/1000Base-T POE full duplex auto sensing ports with additional 2 x 1G SFP ports and 2 dedicated stacking ports providing 40Gbps bandwidth
- (c) Switching Fabric/Backplane Bandwidth: Non-Blocking Architecture minimum 60 Gbps & through put more than 44 Mpps.
- (d) The switch should support full layer 2 and basic L3 features like: SNMP v1 v2 v3, RMON, VLAN, Static Routes, MAC address, QoS.
- (e) The switch should have power budget of at least 120W and also support power supply redundancy.
- (f) The switch should support all Ethernet IEEE 802 standards like IEEE 802.3x, IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x, IEEE802.1p, IEEE 802.1q, IEEE802.3az, IEEE802.3af etc.
- (g) The switch should support Port Security, Dynamic ARP Inspection, IP Source Guard, ACLs, Private VLANs.
- (h) The switch should support Port / Link Aggregation upto 8 ports, Port Mirroring, 802.1x Port-Based Authentication, DHCP Support, inter VLAN routing enabled
- (i) The switch should support minimum 1K VLANs, 16K MAC Addresses, 8 QoS egress queues per port
- (j) The switch should be IPv6 ready (H/W & S/W) for all layer 2 and layer 3 from day one.

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- (k) The switch should have Console Port and Out-of-band Port for Management
- (l) The switch should be Modular OS / Latest enterprise class OS to support full layer 2 & 3 features
- (m) The switch should be EAL or NDPP Certified

5.7 Gigabit Edge Switch:

1. Port type/density/architecture
 - o All ports on the switch should be of non-blocking architecture with 5 Micro Second switching latency
 - o Switch ports of 24 x 10/100/1000 Base T with additional 4x SFP ports for uplink
 - o Switch should be equipped with Variable speed Fan Switch should share the same OS and CLI with Core/Chassis type of switches by the same OEM
 - Switching fabric 56 Gbps
 - Resiliency Support:
 - o Should support 802.1w, 802.1S , PVST+, Fast Ring Convergence protocol like RRPP etc. for <50ms Convergence in case of failure of any links in the ring topology
 - o Should support 128 or more LAG group support
2. Switching / Security / QOS
 - o Support Private VLAN, Vlan Translation, 802.1V/Q, MAC Vlan, and VMAN (Q-in-Q)/802.1Q Tunnel (Q-in-Q).
 - o Minimum 1k Configurable VLANs with Port, 802.1Q tag, Protocol, MVRP
 - o Should support 16 K MAC address , 1K hardware Multicast groups and minimum 1K ACL
 - o 4. Minimum 8 hardware queues per port, 64 kbps bandwidth rate limit granularity
 - o Should support policy based traffic redirection and IP route compression
 - o Should 802.1x with dynamic vlans and local radius server. Should also have guest VLAN and web based Captive portal.
 - o Should support Many to many mirroring per session, multisession mirroring and Remote Mirroring
 - o Should support IPv6 in hardware and software from day 1
 - o Should support DHCP Snooping , Trusted DHCP server , Packet Anomaly detection, DHCP Secured ARP, GARP protection
 - o Should support DOS protect, Loop detection and prevention, Storm control for multicast, unicast and broadcast
 - o Should support flexible traffic analysis with NetFlow or sFlow
 - o Should support minimum 1 K ARP entries
3. Management Features:
 - o Supports embedded DHCP Server, BOOTP.
 - Support Embedded Event Manager with support for event based macro execution.
 - o SNMPv3, NTP, HTTPS, SSHv2, SCP2, SFTP
 - o L2 Ping & L2/L3 trace route, IPv6 telnet and TFTP , LLDP and CDP
 - o Switch should have Modular Operating System
 - o Should have automated port profile technology for smart plug and play and seamless deployment
 - o should be able to integrate secure XML-based Application Programming Interface (API) or any equivalent technologies.
 - Operating conditions: Operating Temp: 0° C to +45° C , o Operating Humidity: 10% to 90% non-condensing.
 - Should be compliant to RoHS , IEC 61000-4-5:2005/EN 61000-4- 5:2006

5.8 Wireless Access Point (Indoor)

- (a) The access point shall have one RJ-45 auto-sensing 10/100/1000 Mbps port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T)

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- (b) Shall have two dual integrated antennas with 2x2 MIMO and 2 Spatial Streams
- (c) Shall have maximum throughput of 600 Mbps and transmit power of 25dBm
- (d) Shall support 8 SSIDs per radio
- (e) Shall support WPA, WPA2 (AES), 802.11i, 802.1x, IPSec, IKEv2, PKCS
- (f) Shall support operating modes as thin AP, private and public cloud deployments, client access
- (g) Shall support WIDS, WIPS, Device location, end to end data and control plane encryption, adaptive radio management
- (h) The access point shall be IEEE 802.3af POE compliant.
- (i) Shall support self-healing meshing extending network availability
- (j) Shall support Integration of security policies (NAC, IPS) across the wired/wireless networks enables quick diagnosing and resolution of security threats
- (k) Shall support distributed traffic forwarding to maximize application delivery
- (l) Shall support QoS, Wireless Multimedia (WMM) support, Fast secure roaming, rule and role based QoS etc
- (m) Should have one 10/100/1000 Base-T Ethernet port and console port for management
- (n) Should be supported Operating temperature as 0°C to 50°C

5.9 Wireless Access Point (Outdoor)

- (a) The access point shall have one RJ-45 auto-sensing 10/100/1000 Mbps port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T)
- (b) Shall have two dual integrated Omni-directional antennas with 2x2 MIMO and 2 Spatial Streams
- (c) Shall have maximum throughput of 600 Mbps and transmit power of 25dBm
- (d) Shall support 8 SSIDs per radio
- (e) Shall support WPA, WPA2 (AES), 802.11i, 802.1x, IPSec, IKEv2, PKCS
- (f) Shall support operating modes as thin AP, private and public cloud deployments, client access and Spectrum analysis
- (g) Shall support WIDS, WIPS, Device location, end to end data and control plane encryption, adaptive radio management
- (h) The access point shall be IEEE 802.3af POE compliant.
- (i) Shall support self-healing meshing extending network availability
- (j) Shall support Integration of security policies (NAC, IPS) across the wired/wireless networks enables quick diagnosing and resolution of security threats
- (k) Shall support distributed traffic forwarding to maximize application delivery
- (l) Shall support QoS, Wireless Multimedia (WMM) support, Fast secure roaming, rule and role based QoS etc.
- (m) Should have one 10/100/1000 Base-T Ethernet port and console port for management
- (n) Should be plenum rated and having Operating temperature as 0°C to 50°C
- (o) Should have Security Cages (IP67 rated) for outdoor Safety and weather protection.

5.10 Wireless Access Controller

- (a) Must be compliant with IEEE CAPWAP or IPSEC or equivalent encryption for controller-based WLANs.
- (b) Support for hybrid traffic forwarding: local switching at AP or controller-based switching (based upon user, application or segment)
- (c) WLAN Controller should support up to 50 Access points in a single 1RU Chassis
- (d) Protected Management Frames (802.11w)
- (e) WLAN controller must have at least 2 x 1Gbps of uplink interfaces.
- (f) Shall support Wireless Intrusion Prevention for Access Points

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- (g) Client mobility with fast failover and session availability
- (h) Must support both 1+1 and N+1 redundancy models.
- (i) Must support an ability to dynamically adjust channel and power settings based on the RF environment.
- (j) Radio coverage algorithm must allow adjacent APs to operate on different channels, in order to maximize available bandwidth and avoid interference
- (k) Integrated management, security, and QoS features reduce operating cost and ensure a consistent user experience regardless of location
- (l) Must have Automatic 802.11 interference detection, identification, classification, and mitigation. Classification should support a dynamically updatable signature library
- (m) Must support coverage hole detection and correction that can be adjusted on a per WLAN basis.
- (n) Role-based grouping of users, devices, and applications to deliver priority, QoS, and security in accordance with business needs
- (o) WLC should support L2 and L3 roaming
- (p) WLC should support First hop security features in IPv6 network like Router Advertisement guard, DHCPv6 guard and IPv6 source guard
- (q) WLC should support Guest-access functionality
- (r) Should adhere to the strictest level of security standards, including 802.11i Wi-Fi Protected Access 2 (WPA2), WPA, Wired Equivalent Privacy (WEP), 802.1X with multiple Extensible Authentication Protocol (EAP) types, including Protected EAP (PEAP), EAP with Transport Layer Security (EAP-TLS), EAP with Tunneled TLS (EAP-TTLS)
- (s) Must support internal and external web authentication.
- (t) Must be able to set a maximum per-user bandwidth limit on a per- SSID basis.
- (u) Must support user load balancing across Access Points.
- (v) Controller must provide Mesh capability for Mesh supported AP.
- (w) Must be able to dedicate some APs to monitor-only for Intrusion Prevention Services.
- (x) Must support client roaming across controllers separated by a layer 3-routed boundary.

5.11 Unified Threat Management (UTM) for 300 User:

- (a) 10 nos. of 10/100/1000 Ethernet ports & 4GB of Compact Flash
- (b) UTM Appliance Performance Specifications:
 - Firewall throughput of 8Gbps with AV enabled.
 - Minimum 2.3 Gbps of Antivirus Throughput
 - Minimum 30,00,000 Concurrent sessions
 - Minimum 2.7 Gbps of IPS throughput
 - Minimum 1 Gbps UTM throughput
 - Minimum 75000 New Sessions/second
 - Minimum 1000 Mbps of IPSec VPN throughput and 400 Mbps of SSL VPN throughput
- (c) OEM should have regional presence for sales & support
- (d) UTM Features:
 - Identity based Firewall
 - Intrusion Prevention System
 - Gateway Anti-virus
 - Inbound and Outbound Gateway Anti-spam
 - Web Content & Application Filtering
 - Bandwidth Management
 - Inbuilt-on Appliance Reporting
 - Network: OSPF, Round Robin load balance, RIPv2, BGP, equal & unequal cost load balance,
 - Support for user authentication over SMS.
 - Country Based Blocking, FQDN support and should support MIX mode deployment
 - 4 Eye Authentication feature for data integrity.
 - High Availability, QoS etc, Round Robin Balance., Server Load Balancing.
- (e) Web and Application Filtering: Checkmark Certified.URL, Keyword, File type block, Block Java applets, cookies, ActiveX, Block malware, phishing, pharming url, block P2P application, anonymous proxies, Customized block on group basis. Minimum of 82 categories with more than 42 million URLS supported with more than 5000 application support
- (f) Gateway Antivirus, Anti-Spyware and Anti-Spam: Checkmark Certified. Virus, Worm, Trojan Detection and Removal, Automatic Virus signature database update, Real-Time blacklist, MIME header check, Redirect spam mails to dedicated email address, image-spam filter, Spam Notification, Zero hour Virus outbreak protection. Recurrent pattern Detection Technology for AS. Self Service Quarantine area.
- (g) Intrusion Prevention System (IPS): Checkmark Certified. For different attacks like Mail Attack, FTP Attack, HTTP Attack, DNS Attack, ICMP Attack, TCP/IP Attack, DOS and DDOS Attack, TelNet Attack. Signatures: Default (3000+), Custom , IPS Policies: Multiple, Custom, User-based policy creation, Automatic real-time updates from CR Protect networks, Protocol Anomaly Detection
- (h) Web Application Firewall (WAF):Should have on appliance WAF with Positive Protection Module, Protection against SQL Injections, Cross Site Scripting (XSS), Session Hijacking, URL tampering, Cookie Poisoning, Extensive Logging and reporting.
- (i) VPN: IPSec, L2TP, PPTP and SSL as a part of Basic Appliance, VPN redundancy, Hub and Spoke support, 3DES, DES, AES, Twofish, Blowfish, Serpent Encryption, MD5,SHA1 Hash algorithms, IPSec NAT Transversal, VPNC Certified.
- (j) Load Balance: For Automated Failover/Failback, Multi-WAN failover, WRR based Load Balancing. High availability: Active-Active. QoS, OSPF, RIPv2, BGP, Policy routing based on Application and User, support Round Robin Load Balancing.

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- (k) Bandwidth Management: Application and user identity based bandwidth management, Multi WAN bandwidth reporting, Guaranteed and Burstable bandwidth policy. Bandwidth for User, Group, Firewall Rule, URL and Applications.
- (l) Monitoring and Reporting System: Includes reports for Centralized management, Monitoring & Logging, Command line interface. Monitoring Gateways, Monitoring suspicious activity and alerts, Graphical real-time and historical monitoring, email notification of reports, viruses and attacks reports. IPS, Web filter, Antivirus, Anti-spam system reports. IP and User basis report, 45+ Compliance reports and 1000+ drilled down reports on the appliance.
- (m) Five Years for support for Gate Way Antivirus, spyware, Anti-Spam, waf, content and application filtering. IPS and support License period will be counted after activation.

5.12 Unified Threat Management (UTM) for 50 User:

- (a) 6 nos. of 10/100/1000 Ethernet ports & 4GB of Compact Flash
- (b) UTM Appliance Performance Specifications:
 - Firewall throughput of 4000 MBPS.
 - Minimum 1500 MBPS of Antivirus Throughput
 - Minimum 10,00,000 Concurrent sessions
 - Minimum 1500 MBPS of IPS throughput
 - Minimum 850 MBPS UTM throughput
 - Minimum 35000 New Sessions/second
 - Minimum 800 Mbps of IPSec VPN throughput and 400 Mbps of SSL VPN throughput
- (c) OEM should have regional presence for sales & support
- (d) UTM Features:
 - Identity based Firewall
 - Intrusion Prevention System
 - Gateway Anti-virus
 - Inbound and Outbound Gateway Anti-spam
 - Web Content & Application Filtering
 - Bandwidth Management
 - Inbuilt-on Appliance Reporting
 - Network: OSPF, Round Robin load balance, RIPV2, BGP, equal & unequal cost load balance,
 - Support for user authentication over SMS.
 - Country Based Blocking, FQDN support and should support MIX mode deployment
 - 4 Eye Authentication feature for data integrity.
 - High Availability, QoS etc, Round Robin Balance., Server Load Balancing.
- (e) Web and Application Filtering: Checkmark Certified. URL, Keyword, File type block, Block Java applets, cookies, ActiveX, Block malware, phishing, pharming url, block P2P application, anonymous proxies, Customized block on group basis. Minimum of 82 categories with more than 42 million URLs supported with more than 5000 application support
- (f) Gateway Antivirus, Anti-Spyware and Anti-Spam: Checkmark Certified. Virus, Worm, Trojan Detection and Removal, Automatic Virus signature database update, Real-Time blacklist, MIME header check, Redirect spam mails to dedicated email address, image-spam filter, Spam Notification, Zero hour Virus outbreak protection. Recurrent pattern Detection Technology for AS. Self Service Quarantine area.
- (g) Intrusion Prevention System (IPS): Checkmark Certified. For different attacks like Mail Attack, FTP Attack, HTTP Attack, DNS Attack, ICMP Attack, TCP/IP Attack, DOS and DDOS Attack, TelNet Attack. Signatures: Default (3000+), Custom , IPS Policies: Multiple, Custom, User-based policy creation, Automatic real-time updates from CR Protect networks, Protocol Anomaly Detection

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- (h) Web Application Firewall (WAF): Should have on appliance WAF with Positive Protection Module, Protection against SQL Injections, Cross Site Scripting (XSS), Session Hijacking, URL tampering, Cookie Poisoning, Extensive Logging and reporting.
- (i) VPN: IPSec, L2TP, PPTP and SSL as a part of Basic Appliance, VPN redundancy, Hub and Spoke support, 3DES, DES, AES, Twofish, Blowfish, Serpent Encryption, MD5, SHA1 Hash algorithms, IPSec NAT Transversal, VPNC Certified.
- (j) Load Balance: For Automated Failover/Failback, Multi-WAN failover, WRR based Load Balancing. High availability: Active-Active. QoS, OSPF, RIPv2, BGP, Policy routing based on Application and User, support Round Robin Load Balancing.
- (k) Bandwidth Management: Application and user identity based bandwidth management, Multi WAN bandwidth reporting, Guaranteed and Burstable bandwidth policy. Bandwidth for User, Group, Firewall Rule, URL and Applications.
- (l) Monitoring and Reporting System: Includes reports for Centralized management, Monitoring & Logging, Command line interface. Monitoring Gateways, Monitoring suspicious activity and alerts, Graphical real-time and historical monitoring, email notification of reports, viruses and attacks reports. IPS, Web filter, Antivirus, Anti-spam system reports. IP and User basis report, 45+ Compliance reports and 1000+ drilled down reports on the appliance.
- (m) Five Years for support for Gate Way Antivirus, spyware, Anti-Spam, waf, content and application filtering. IPS and support License period will be counted after activation.

5.13 Cabling and Accessories

A. UTP Cabling System

The Bidder shall be required to offer a Category-6 Structured Cabling System using Cables, connectors and Components complying to EIA/TIA 568-C.2, EIA/TIA TSB-36, EIA/TIA TSB-40A and SP-284OA standards and specifications for Category-6. All Cables, cabling accessories Connectors and Components are required to be UL (Underwriters Laboratory) verified for Cat-6. Bidders shall provide necessary protective components in case of outside cabling for protection of equipment against lighting etc.

B. Category-6 UTP CABLES

All Cables supplied by the bidder shall have to be laid as per the requirement of the Owner. It will be the total responsibility of the bidder to erect and lay the ordered cables in PVC conduits/PVC channels within building and in MS Pipes outside the building wherever required or as per the requirements of the Owner. The PVC conduits shall be ISI approved.

The twisted pair cable level 6 type offered by the bidder shall be of solid copper, unshielded twisted pair type with gauge of 24 AWG and impedance of 100 ohms for 100 meters length. The offered cable should meet standards/specifications defined by EIA/TIA-568-C.2, ISO/IEC 11801(2002) and CENELEC EN50173-1 (2002) or latest. The physical and electrical specifications are as listed below:-

C. UTP Cabling System

Type	Unshielded twisted pair cabling system, TIA / EIA 568-C.2 addendum Category 6 Cabling system
Networks Supported	10 / 100/1000 Ethernet, 155 Mbps ATM, 1000 Mbps IEEE 802.3ab Ethernet, and Cat 6 Gigabit Ethernet
TIA / EIA 568-C.2	ETL Verified

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IEEE 802.3ab	Zero-bit Error, ETL verified
Warranty	25-year systems warranty; Warranty to cover Bandwidth of the specified and installed cabling system, and the installation costs
Performance characteristics	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR for 4- connector channel
Site Certification	Site certification to be done by DCCE certified installer for 25 years and certificate to be issued.

D. UTP Cable

Type	Unshielded Twisted Pair, Category 6, TIA / EIA 568- C.2
Material:	
Conductors	23 AWG solid bare copper
Insulation	Polyethylene
Separator	Cross-member fluted member
Jacket	Sheath Fire retardant PVC Compound (FRPVC) Flame Rating : 60 deg. C As per UL 1685 CM/CMR
Approvals	UL tested for TIA/EIA-568 C.2 , 3P, ETL verified to Cat 6,Zero Bit Error verified by ETL.
Operating temperature	-20 Deg. C to +60 Deg. C
Frequency tested up to	600 MHz minimum
Packing	Box of 305 meters
Delay Skew	35ns / 100m MAX.
Impedance	100 Ohms + / - 6 ohms, 1 to 300 MHz.
Performance characteristics	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR
Attenuation	22.8dB/100m at 250MHz 29.4dB/100m at 400MHz 39dB/100m at 600MHz

E. Jack Panel and Jacks

The Bidder shall provide & configure Jack Panel adhering to International design & quality standards. Configuration shall be so structured so as to provide desired number of user ports (as specified in Bill of Quantities). Cat-6 Patch Cords for patching active connections through Patch Panel shall be offered by the bidder.

Jack Panel shall be 19" Rack mountable.

F. UTP Jacks

Type	PCB based, Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2
Durability	
Modular Jack	750 mating cycles
Wire terminal	200 termination cycles
Accessories	Strain relief and bend-limiting boot for cable
	Integrated hinged dust cover using collapsible angular shuttered technology.

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Materials	Spring Contact: 50m" goldover 100m" nickel ROHS compliant
Housing	Poly-phenylene oxide, 94V-0 rated
Wiring blocks	Polycarbonate, 94V-0 rated
Jack contacts	Phosphorous bronze, plated with 1.27micro-meter thick gold
Approvals	UL listed
Performance Characteristics	Attenuation, NEXT, PS NEXT, FEXT and Return Loss

G.UTP Jack Panels

Type	24-port, Modular, PCB based, Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2
Ports	24, upgradeable to intelligent jack panel
Port arrangement	Keystone type. Ports must be individually replaceable
Category	Category 6
Circuit Identification Scheme	Icons on each of 24-ports
Port Identification	9mm or 12mm Labels on each of 24-ports (to be included in supply)
Height	1 U (1.75 inches)
Durability	
Modular Jack	750 mating cycles
Wire terminal (110 block)	200 termination cycles
Accessories	Strain relief and bend limiting boot for cable
Materials	
Housing	Polyphenylene oxide, 94V-0 rated
Wiring blocks	Polycarbonate, 94V-0 rated
Jack contacts	Phosphorous bronze, plated with 1.27micro-meter thick gold
Panel	Black, powder coated steel
Approvals	UL listed ETL and 3P
Termination Pattern	TIA / EIA 568 A and B;
Performance Characteristics	Attenuation, NEXT, PS NEXT, FEXT and Return Loss

H. Information Outlets (I/O) and Patch Cords

I. Information Outlets

Surface Mount Face Plate & Box with CAT6 Work Area Data I/O Outlet (RJ45) adhering to EIA/TIA-568-C.2, ISO/IEC 11801(2002) and CENELEC EN50173-1 (2002) specifications or latest. The outlets may preferably have a spring loaded dust covers.

Type	1-port, White surface box
Material	ABS / UL 94 V-0
No. of ports	One/Two

	High Impact Plastic Body ABS FR Grade 86 x 86 mm Flush mountable or surface mountable with a back mount frame
--	--

J. Patch Cords

Type	Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2
Conductor	24 AWG 7 / 32, stranded copper
Length	2-meter for workstation and 1 Meter for Jackpanel/ equipment
Plug Protection	Matching colored snag-less, elastomer polyolefin boot
Warranty	25-year component warranty
Category	Category 6
Housing	Clear polycarbonate
Terminals	Phosphor Bronze, 50 micron gold plating over selected area and gold flash over remainder, over 100 micron nickel under plate
Load bar	PBT polyester
Jacket	PVC
Insulation	Flame Retardant Polyethylene

5.14 Racks

Bidder shall include 19" wall/Floor mounted Rack of 42U, 24U, 12U & 9U with key lockable doors (for security reasons) for housing the jack panels and Switch stack. Racks shall include power distribution arrangement, fan tray with fans, earthing kit, mounting accessories. 12U Wall Mount Rack with Accessories (Cable Manager = 2, PDU 5 Socket 5 Amp = 1, Mounting Hardware (set of 10 cage nuts) = 2, 2 Fans Top Mount). 9U Wall Mount Rack with Accessories (Cable Manager = 1, PDU 3 Socket 5 Amp = 1, Mounting Hardware (set of 10 cage nuts) = 1, 2 Fans Top Mount).

5.15 Multimode Optical Fibre Cable

- i) The Optical Fibre Cable shall 6/8 Core fiber Cable as specified in schedule of quantities. Each fibre shall be with color coded buffer. The Cable shall be Graded Index Multi-Mode Fibre.
- ii) The Cable shall comply with FDDI, EIA/TIA, IEEE 802 standards and should be UL listed.
- iii) Fibre Cables supplied by the bidder shall have to be laid as per the requirement of the Owner.

5.16 Fiber Cable Components:

All cable interfaces and connectors required shall be included as a part of the contract. This shall include fixing of LIU, SC/T Connectorisation of all cores of fiber, Testing and Certification of Connectors & cables and components. Any other requirements to make the circuits operational shall be complied with and shall constitute the part of above items. No Separate cost will be considered.

5.17 Specifications of SC Connector

Connector Type Provide a field installable Multimode connector to terminate fiber cables from cable to cable , cable to equipment and equipment to equipment, Utilize a PC Polishing on the tip to provide high yield during installation, Meet EIA and IEC standards for repeatability.

5.18 LIU

- Have sufficient slots accommodate SC adapters individually
- Should have fiber management provision onside
- Panel cover should be slide out for easy maintenance

All Active Components must be from same OEM, All passive components must be from same OEM and all wireless components must be from same OEM. All Active, Passive & Wireless components must be compatible for inter-working and inter-operability.

6. Service Level Agreement

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service to be provided by the selected vendor to the department under the inclusive support as mentioned in this tender. SLA defines the terms of selected vendors responsibility in ensuring the timely delivery of deliverables and correctness of the same based on the agreed Performance Indicators as detailed in the agreement. The Vendor has to comply with all Service Level Agreement (SLA) defined below to ensure adherence to the project timelines, Quality and availability of services.

6.1 Service Levels during Maintenance Support

The Bidder should provide the required maintenance support to the Department. The Bidder should enter into a Service Level Agreement (SLA) with Department/SPIC and should adhere to the following service levels and accept the penalties as specified for non-compliance:

SEVERITY			
	PROBLEM DESCRIPTION	RESOLUTION TIME	PENALTY FOR NON-COMPLIANCE
Severity 1	The problem identified is making unavailable the entire system or any modules thereof, hence stoppage of entire or part of operations.	Bidder must provide a resolution within 4 (four) hours from the time of reporting the problem.	1 % of the Performance Guarantee Security per hour beyond 4 hours
Severity 2	The problem identified is affecting the business causing undue delays or malfunctioning of any functionality.	Bidder must provide resolution in 3 (three) calendar days.	0.5 % of the Performance Guarantee Security per day beyond 3 days
Severity 3	The problem identified is not affecting the business but an irritant.	Bidder must provide a solution within 1 calendar week.	0.1 % of the Performance Guarantee Security per week beyond 1 week

The categorization of Severity is at SPIC's/Department's discretion and Bidder must provide the service as agreed in the service contract.

6.2 System Availability: The Bidder must ensure system availability during the warranty period as per the following requirements and accept the penalties as specified for non-compliance:

SYSTEM	REQUIRED AVAILABILITY (COMPUTED QUARTERLY)	PENALTY FOR NONCOMPLIANCE
Active Components at Data Center /Department	99 %	@1 % of the Performance Guarantee Security per %age point below 99 %
Other Items supplied by the Bidder	98 %	@0.1 % of the Performance Guarantee Security per %age point below 98 %

- I. Systems / sub-systems for which the availability is 99 % shall not be down for more than 4 hours in a month, non-compliance of which will attract a monthly penalty of 1 % of the Performance Guarantee Security.
- II. Systems / sub-systems for which the availability is 98 % shall not be down for more than 16 hours in a month, non-compliance of which will attract a monthly penalty of 0.5 % of the Performance Guarantee Security

SECTION-V

BID SCHEDULES

Annexe 5.1.1
(Technical Bid)

BID PARTICULARS

1. Name of the Tenderer -----
2. Full Address of the Tenderer -----
3. Name of the actual signatory -----
4. Tenderer's proposal number and date -----
5. Name & address of the officer to whom all references shall be made regarding
this tender:
Name -----
Address-----
Telephone -----Mobile-----
Fax No. ----- e-mail -----

Witness :

Tenderer :

Signature -----

Signature -----

Name -----

Name -----

Address -----

Designation -----

Company -----

Date -----

Date -----

Company Seal

Technical Bid Letter

To,

The Chief Executive Officer
Entrepreneur Development Centre (EDC) Building, Plot No: 20,
Rajiv Gandhi Chandigarh Technology Park (RGCTP), Chandigarh 160101

Ref : Tender No:

Sir,

We declare that:

1. We are an established Contractor in the area of supply and installation of Networking equipment/ components on turnkey basis.
2. We hereby offer to provide the material and services in line with tender document at the prices and rates mentioned in the Price Bid.
3. We do hereby undertake, that, in the event of acceptance of our bid, the Services shall be provided as stipulated in the Tender document and that we shall perform all the incidental services.
4. We enclose herewith the complete Technical Bid as required by you. This includes:
 - Bid Particulars (Annexe 5.1.1)
 - Bid Letter (Annexe 5.1.2)
 - Proposed Methodology (Annexe 5.1.3)
 - Vendor Profile (Annexe 5.1.4)
5. We agree to abide by our offer for a period of 180 days from the date fixed for opening of the Technical Bids.
6. We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender and we do hereby undertake to provide services as per these terms and conditions. We also understand that no deviations from the Technical Specifications are allowed under this tender.
7. Certified that the tenderer is a company constituted under the Companies Act, 1956 and the person signing the tender is the constituted attorney.
8. Bid Security (Earnest Money) for an amount equal to Rs. 50,000 (Rupees Fifty Thousand only) is enclosed in the Cover containing the letter for Pre-qualifying Requirements in the form specified in Clause 12 of Section II.
9. We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and placement of letter of intent awarding the contract, shall constitute a binding contract between us.

Dated this day of 2017

Signature of Tenderer Name
& Designation: Company
Seal

DETAILED TECHNICAL PROPOSAL

(Detailed technical proposal giving clause-wise compliance to Tender Documents, Bill of Material, make, model, technical data sheets, methodology of cabling and installation work etc. to be given along with all Documentary Proof for pre-Qualification Criteria – Section II Clause No. 18)

Dated this day of 2017

Signature of Tenderer
Name & Designation:
Company Seal

VENDOR PROFILE

1	Name of the Firm/Company	
2	Year Established	
3	Address of Office	
4	Telephone No.	
5	Fax No.	
6	E-mail Address	
7	Website	
8	Names of Govt. Deptt/Public Sector/Pvt. Sector/International clients to whom the tenderer has provided similar services to	
8.A		
8.B		
8.C		
8.D		
8.E		
9	No. of full time Tech. personnel currently on roll	
10	No. of years of Proven experience of providing similar Services in India.	
11	Infrastructure facilities in tri-city Including Manpower & Hardware etc.	
12	Annual turnover Audited Annual turnover of the company in Rs. During last two years	
12.A	Turnover 2014-2015 FY	
12.B	Turnover 2015-2016 FY	
13	List of customers in India and also international customers, as on date, to whom the Tenderer is currently providing Similar services	
14	Any accreditation / rating from an internationally reputed third party rating agency.	
15	Various Ceritifications (ISO Certificaton/Six Sigma/ Nasscom/DOT Registered)	

Dated this day of 2017

Signature of Tenderer
Name & Designation:
Company Seal

Price Bid Letter

To,

The Chief Executive Officer
Entrepreneur Development Centre (EDC) Building, Plot No: 20,
Rajiv Gandhi Chandigarh Technology Park (RGCTP), Chandigarh 160101

Ref : Tender No:

Sir,

Having examined the Tender Document, we, the undersigned, offer to provide material and services in conformity with the Tender Document No. _____ for the sum of.....(Total bid amount in words and figures) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

2. We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Tender Documents.
3. If our bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to 10% percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Purchaser.
4. We understand that you are not bound to accept the lowest or any bid you may receive.
5. We enclose herewith the Price Schedule in the prescribed form
6. We agree to abide by our offer for a period of 180 days from the date fixed for opening of the Technical Bid
7. We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender and we do hereby undertake to provide services as per these terms and conditions without any deviations.
8. Certified that the tenderer is a company and the person signing the tender is the constituted attorney/authorized identity.
9. We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and placement of letter of intent awarding the contract, shall constitute a binding contract between us.

Dated this day of 2017

Signature of
Tenderer Name &
Designation:
Company Seal

Price Schedule

Estimated Bill of Material						
ALL QUANTITIES MENTIONED BELOW ARE INDICATIVE FOR TENDERING PURPOSE ONLY ACTUAL QUANTITIES WOULD BE AS PER SITE CONDITIONS & REQUIREMENTS						
Sr	Items Description	UoM	Qty. (A)	Unit Price (B)	GST/S.TA X on (B) (C)	TOTAL AMOUNT (E=(B+C)X A)
LAN Active Components						
1	Managed Layer 3 Switch with 24 Port	NOS	1			
2	Managed Layer 3 Fibre Switch with 24 Port	NOS	1			
3	Managed Layer 2 Switch with 24 Port (non POE)	NOS	10			
4	Managed Layer 2 Switch with 24 Port (POE)	NOS	10			
5	Managed Layer 2 Switch with 24 Port with 10G uplink	NOS	5			
6	Gigabit EDGE Switch with 24 Port	NOS	30			
7	Managed Layer 2 Switch with 8 Port (POE)	NOS	5			
8	1G multimode Transceiver - LC Connector	NOS	10			
9	1G singlemode Transceiver - LC Connector	NOS	10			
10	10G multimode Transceiver - LC Connector	NOS	10			
11	10G singlemode Transceiver - LC Connector	NOS	10			
12	Appliance based Wireless Controller with support for 50 Access Points (without License)	NOS	1			
13	Wireless Controller License for Access Point	NOS	1			
14	Outdoor Access Point standalone	NOS	10			
15	Indoor Access Point standalone	NOS	10			
Network Security Appliance (UTM)						
16	Security Appliance (UTM) for 50 Users	NOS	1			
17	Security Appliance (UTM) for 300 Users	NOS	1			
18	Subscription for 3 Years for UTM (300 User)	NOS	1			
19	Subscription for 3 Years for UTM (50 User)	NOS	1			
Passive Components - OFC						
20	6 Core Multimode Optical Fiber Cable	Meter	1000			
21	12 Port Rack Mount LIU	NOS	15			
22	1x6 SC Adapter Panel	NOS	10			

Tender Document for empanelment of System Integrator for supply, installation & commissioning of Local Area Networking (LAN) under SWAN in Chandigarh

23	SC Adapter Multimode, Simplex	NOS	10			
24	SC Pigtail Multimode, Simplex	NOS	10			
25	LC-SC Multimode Fiber Patch Cord - 1 Meter	NOS	10			
26	SC Adapter Singlemode, Simplex	NOS	10			
27	SC Pigtail Singlemode, Simplex	NOS	10			
28	LC-SC Singlemode Fiber Patch Cord - 1 Meter	NOS	10			
Passive Components - Copper						
29	Cat6 UTP Cable Box (305 Meter)	Meter	10			
30	Cat6 24 Port Patch Panel-Loaded	NOS	10			
31	Cat6 UTP Patch Cord - 1 Meter	NOS	350			
32	Cat6 UTP Patch Cord - 2 Meter	NOS	300			
33	Cat6 Information Outlet - Jack	NOS	300			
34	Face Plate - Single Port	NOS	300			
35	Surface Mount Box (SMB)	NOS	300			
Networking Racks						
36	24U Floor Mount Rack with Accessories (Cable Manager = 2, PDU 5 Socket 5 Amp = 1, Mounting Hardware (set of 10 cage nuts) = 2, 2 Fans Top Mount)	NOS	10			
37	12U Wall Mount Rack with Accessories (Cable Manager = 2, PDU 5 Socket 5 Amp = 1, Mounting Hardware (set of 10 cage nuts) = 2, 2 Fans Top Mount)	NOS	10			
38	9U Wall Mount Rack with Accessories (Cable Manager = 1, PDU 3 Socket 5 Amp = 1, Mounting Hardware (set of 10 cage nuts) = 1, 2 Fans Top Mount)	NOS	10			
Miscellaneous Items						
39	PLB HDPE Pipe 32 x 26mm	Meter	100			
40	PVC Wiring Channel	Meter	100			
41	1" PVC Conduit (ISI) - LMS	Meter	100			
42	1.5" PVC Conduit (ISI) - LMS	Meter	100			
Services						
43	Laying of UTP Cable	Meter	3000			
44	Laying of PVC Conduit	Meter	100			
45	Laying of Fiber	Meter	100			
46	Laying of HDPE Pipe	Meter	100			
47	Digging of Soft Soil	Meter	100			
48	Digging/Mouling of Hard Soil	Meter	100			
49	Splicing of Pigtail	NOS	100			
50	Fixing & Termination of I/O	NOS	300			

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51	Fixing & Termination of Patch Panel	NOS	10			
52	Fixing of Rack	NOS	30			
53	Project Management Charges including installation & configuration of Active Components and Project Documentation & 3 Years support services	NOS	1			
GRAND TOTAL (to be used to finalizing L1 BID)						
OPTIONAL ITEMS						
1	5 Year comprehensive Annual Maintenance (CAMC) Rates per Year basis	Year	5			

All Figures in Rupees

Total Bid Price In Indian Rupees (In Words Rupees -----)

Note: In case of discrepancy, unit rate will prevail

Dated this day of 2017

Signature of Tenderer
Name & Designation:
Company Seal

BID SECURITY FORM

Whereas ----- (hereinafter called 'the Tenderer') has submitted its bid dated ----- for Local Area Networking (LAN) empanelment for Networking in various departments under Chandigarh Administration (hereinafter called "the Bid").

KNOW ALL MEN by these presents that WE ----- of -
----- having our registered office-----
----- (hereinafter called "the Bank") are bound unto SPIC (hereinafter called "the Purchaser") in the sum of Rs./- for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this-----day of -----2017.

THE CONDITIONS of this obligation are:

1. If the Bidder, withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity.
 - a. fails or refuses to execute the Contract Form, if required; or
 - b. fails or refuses to furnish the Performance Security, in accordance with the instructions to Bidders;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

(Authorized Signatory of the Bank)

PROFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE GUARANTEE BOND

Ref: _____

Date: _____

Bank Guarantee No. _____

To

1. Against contract vide Advance Acceptance of the Tender No : _____ covering _____ (hereinafter called the said 'contract') entered into between the SPIC, EDC Building; RGCTP, Chandigarh (hereinafter called the Client) and _____ (hereinafter called the Vendor) this is to certify that at the request of the Vendor we _____ Bank Ltd., are holding in trust in favour of the Purchaser, the amount of _____ (write the sum here in words) to indemnify and keep indemnified the Purchaser against any loss or damage that may be caused to or suffered by the Purchaser by reason of any breach by the Vendor of any of the terms and conditions of the said contract and/or in the performance thereof. We agree that the decision of the Purchaser, whether any breach of any of the terms and conditions of the said contract and/or in the performance thereof has been committed by the Vendor and the amount of loss or damage that has been caused or suffered by the Purchaser, shall be final and binding on us and the amount of the said loss or damage shall be paid by us forthwith on demand and without demur to the Purchaser.
2. We _____ Bank Ltd, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for satisfactory performance and fulfillment in all respects of the said contract by the Vendor i.e till _____ hereinafter called the said date and that if any claim accrues or arises against us _____ Bank Ltd, by virtue of this guarantee before the said date, the same shall be enforceable against us _____ Bank Ltd, notwithstanding the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been given to us _____ Bank, by the Purchaser before the said date. Payment under this letter of guarantee shall be made promptly upon our receipt of notice to that effect from the Purchaser.
3. It is fully understood that this guarantee is effective from the date of the said contract and that we _____ Bank Ltd, undertake not to revoke this guarantee during its currency without the consent in writing of the Purchaser.
4. We undertake to pay to the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the Vendor in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present bond being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Vendor shall have no claim against us for making such payment.
5. We _____ Bank Ltd, further agree that the Purchaser shall have the fullest liberty, without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the Vendor from time to time or to

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postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Vendor and to forebear or enforce any of the terms and conditions relating to the said contract and we, _____ Bank Ltd., shall not be released from our liability under this guarantee by reason of any such variation or extension being granted to the said Vendor or for any forbearance by the Purchaser to the said Vendor or for any forbearance or omission on the part of the Purchaser or any other matter or thing whatsoever, which under the law relating to sureties, would, but for this provision, have the effect of so releasing us from our liability under this guarantee.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Vendor.
7. This guarantee will be valid up to three years & sixty days from the date of issue .

Date _____

Place _____

Signature

Witness _____

Printed

name

(Bank's common seal)

CONTRACT FORM

THIS AGREEMENT made the..... day of., 2017 Between (Name of purchaser) (hereinafter called "the Purchaser") of the one part and(Name of Supplier) of..... (hereinafter called "the Supplier") of the other part:

Whereas the purchaser is desirous that -----

(Brief Description of Goods and Services) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of..... (Contract Price in Words and Figures) (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Bid and the Price Schedule submitted by the Bidder;
 - (b) the Tender Document including the Technical Specifications and the General Conditions of Contract;
 - (c) the Purchaser's Notification of Award.
 - (d) Correspondence (.....)
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services which shall be supplied/ provided by the Supplier are as under:

	Brief description of goods & services	Quantity to be supplied	Unit price	Total price	Delivery terms	Any other

TOTAL VALUE:

DELIVERY SCHEDULE:

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written. Signed, Sealed and Delivered by the said.....(For the Purchaser) in the presence of:.....

Signed, Sealed and Delivered by the said.....(For the Supplier) in the presence of:.....

Check list

Please check whether following have been enclosed in the respective covers, namely, letter of Pre-qualification, Technical Bid and Price Bid:

A Pre-Qualification Letter

- | | | |
|---|--------|----------------------|
| 1. Bid Security valid up to (date.....) | Yes/No | <input type="text"/> |
| 2. Evidence for experience (Clause 20.1 (ii), Section II) | Yes/No | <input type="text"/> |
| 3. Evidence of Turn over
(Clause 20.1 (iv) Section II) | Yes/No | <input type="text"/> |
| 4. Technical Support facility
details (Clause 20.1 (iii) Section II) | Yes/No | <input type="text"/> |
| 5. MOA, AOA and commencement of Business
Certificate. (Clause 20.1 (v) Section II) | Yes/No | <input type="text"/> |
| 6. Authorization certificates from
OEM (Clause 20.1 (vi) Section II) | Yes/No | <input type="text"/> |

B. Technical Bid

- | | | |
|---|--------|----------------------|
| 1. Bid Particulars (Annexe 5.1.1) | Yes/No | <input type="text"/> |
| 2. Technical Bid Letter (Annexe 5.1.2) | Yes/No | <input type="text"/> |
| 3. Detailed Technical Proposal (Annexe 5.1.3) | Yes/No | <input type="text"/> |
| 4. Vendor Profile (Annexe5.1.4) | Yes/No | <input type="text"/> |
| 5. Pre-qualifying Technical Competence such as
proven experience in providing Similar Services for
determining pre-qualification conditions and Bid
Security | Yes/No | <input type="text"/> |

C. Price Bid

- | | | |
|------------------------------------|--------|----------------------|
| 1. Price Bid letter. (Annexe5.2.1) | Yes/No | <input type="text"/> |
| 2. Price Schedule. (Annexe5.2.2) | Yes/No | <input type="text"/> |