National Institute of Pharmaceutical Education and Research

Sector 67, S.A.S. Nagar - 160062, Punjab (INDIA).

www.niper.gov.in , www.tenderwizard.com/NIPER

E-TENDER NOTICE (Tender No: T5/2017)

National Institute of Pharmaceutical Education and Research (NIPER) invites online e-tenders in two-bid format for "**Installation and upgradation of LAN and Wi-Fi"** at the Institute as per the specifications given in the tender document on turnkey basis. The tender documents and other details can be obtained from the website: www.tenderwizard.com/NIPER and official website of the NIPER http://www.niper.gov.in. The e-Tender is also available on Govt. of India's Central Public Procurement Portal (e-procurement) i.e. http://eprocure.gov.in/.

1	Downloading of e-tender document	Start Date: 05.05.2017 at 09.00 A.M. End Date : 20.06.2017 at 01.00 P.M.
2	Pre Bid Query by email	Last Date : 15.05.2017 at 05.00 P.M.
	Pre Bid Meeting	17.05.2017 at 10.00 A.M.
3	Revised Specifications (if any) – By Corrigendum on the Institute's & www.tenderwizard.com/NIPER website	22.05.2017 at 05.00 P.M
4	Date of submission of e-tender	Start Date : 06.05.2017 at 10.00 A.M. End Date : 20.06.2017 at 03.00 P.M.
5	Physical submission of Tender Fee(if not paid earlier) and EMD	Start Date : 06.05.2017 at 11.00 A.M. End Date : 20.06.2017 at 03.00 P.M
6	Opening of Technical Bid (online)	21.06.2017 at 11.00 A.M.

Director, NIPER reserves the right to reject any or all tenders without assigning any reasons. Corrigendum/Addendum or Cancellation of this advertisement, if any, shall be published on NIPER Website and www.tenderwizard.com/NIPER .

For participating in the above e-tender, the bidder shall have to get themselves registered with **http://tenderwizard.com/NIPER** and get user ID & password. Class 3 Digital Signature Certificate (DSC) is mandatory to participate in the e-tendering process. For any clarification/difficulty regarding e-tendering Process flow please contact on helpdesk numbers 09257209340, 08045628821, 0172-5035950.

Registrar

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Notice Inviting e Tenders

A. Introduction - National Institute of Pharmaceutical Education and Research (NIPER) S.A.S. Nagar (hereinafter referred to as the "Institute"), an Educational Institute of National Importance, invites online e-tender(s) in two-bid format for "Installation and Upgradation of LAN and Wi-Fi" at the Institute as per the specifications given in the tender document on turnkey basis.

Estimated cost of work	Rs. 200 Lacs
Earnest Money Deposit	Rs. 4,00,000/-
Cost of Tender document	Rs. 5000/-

B. Time Schedule -

Availability of Tender Document	**From 05.05.2017 to 20.06.2017**
Pre-Bid Meeting	**17.05.2017 at 10.00 AM /** Conference Room, Administrative Building (All pre BID queries have to be submitted in writing on or before **15.05.2017** by 05:00 PM as per format given in the Instruction to tenderer via email *to* headcc@niper.ac.in *and* arsp@niper.ac.in
Tender Fee, EMD and Bid Submission Start Date	06.05.2017 at 10.00 am onwards
Tender Fee, EMD and Bid Submission End Date	20.06.2017 at 3.00 pm
Opening of Technical Bids (Online)	21.06.2017 at 11.00 A.M.

Note:

A. *It is mandatory to submit the tender fees of Rs Five Thousands only in the form of DD in favour of "Director NIPER" payable at Chandigarh/Mohali to participate in Pre-bid meeting.*
B. *Pre bid queries in respect of only those who will be present at the time of pre-bid meeting will be entertained.*
C. *Tender Documents with addenda's if any after Pre-bid meeting, will be uploaded on NIPER website and www.tenderwizard.com/NIPER.*
D. *No bid will be accepted after the expiry of the above mentioned time scheduled.*

1. The Bidders shall have to submit their Bids online in Electronic Format Digital Signatures. For participation in the e-tendering process, the Bidders need to register themselves at http http:// tenderwizard.com/NIPER and get user ID & password. Class 3 Digital Signature Certificate (DSC) is mandatory to participate in the e-tendering process. **(Helpdesk no. for registration- 09257209340 & 08054628821).**
2. **E-tender processing fee shall be payable to M/s ITI Limited through their e-gateway by credit /debit card, internet banking facility and non-refundable.**
3. No tender will be accepted in physical form and in case it has been submitted in physical, it shall be rejected without any communication to the sender.
4. Bids will be opened online as per time schedule mentioned in tender document.
5. The tenderer are requested to read the tender document carefully and ensure to compliance with all the instructions herein. Non-compliance of the instructions contained in this document will disqualify the tenderer from the tendering exercise.
6. Before submission of online bids, bidders must ensure that scanned copies of all the necessary documents have been uploaded with the bid.
7. Director, NIPER, SAS Nagar will not be responsible for any delay in online submission of bids due to any reason whatsoever.
8. Bidders should get ready with the scanned copies of tender fee and EMD as specified in the tender documents. Related tender fee and EMD amount in the form of a Demand Draft in favour of the Director, NIPER, payable at Chandigarh/Mohali should be submitted to Director NIPER, Sector 67, SAS Nagar so as to reach him on or before the last date for receiving the tenders.
9. The details of tender fee and EMD specified in the tender document should be same as submitted online (scanned copies). Otherwise tender will be rejected summarily.
10. The conditional bids shall not be considered and may be out rightly rejected in the very first instance.
11. The Financial Bid through e-tendering of only those bidders shall be opened who will qualify in the technical bid and are approved by the Technical Committee.
12. The tenderers are required to upload all self-attested copies of the relevant documents required as per Terms & Conditions and Check List, failing which their bids may be summarily/out rightly rejected and will not be considered and no communication in this regard will be entertained.

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Chapter-1

Instructions to Tenderer

NIPER has prepared a deployment plan and tentative number of data ports for up-gradation of LAN and Wi-Fi that covers the desired areas as per Chapter 2. Tenderer is requested to inspect the sites on any working day before quoting for the Tender. Tenderer is free to propose an alternative more efficient plan of campus network. Details of the firms offering this quote must be enclosed by tenderer in prescribed format **(Annexure-III).**

The tenderer will have to propose the Installation Plan, which should include the upgradation of existing network and number and type of Access Points required. Any other Hardware or item required to implement the total solution should be listed separately in the Bill of Material (BOM). The quantity mentioned in the BOM is approximate and given for working lowest quote. All active network components (Switches, wireless controller, Wireless Access Points, NMS) should be from established profitable companies. All passive components should be from the same manufactures except UPS, Racks & Conduits. The tenderer should also submit a detailed un-priced Bill of Material in tabular format with complete product part codes, product description along with page number, quantity, etc.

1.1 Pre–Qualification Criteria –

a) Only manufacturer(s) or their sole authorized distributor / agent are eligible to bid. Authorization Letter in the prescribed format (**Annexure–IV**) from Original Equipment Manufacturer (OEM) in favor of Authorized Agent to bid / negotiate / conclude the order against this tender must be enclosed with technical bid.

b) The last date and time for submission online (through e-tendering only) and receipt of physical submission of tender fee (in case not participated in pre-bid meeting) and EMD by post/courier/in-person related with the tender is 20.06.2017 up to 03:00 PM

c) The tenderer shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs.4,00,000/- (Rupees Four Lacs. only) which is refundable and a non-refundable tender fee for an amount of Rs.5,000/- (Rupees Five Thousand only) by way of demand drafts only. The demand drafts shall be drawn in favour of "Director NIPER" payable at Mohali/ Chandigarh, valid for three months on any Scheduled Bank.

d) The sealed envelope of tender fee and EMD bearing the Tender No. and should be clearly superscribed as " Tender fee and EMD for Installation and upgradation of LAN and Wi-Fi" due on 21.06.2107" should be submitted in the office of Director NIPER, Sector-67, SAS Nagar on or before 20.06.2017 up to 03:00 PM.

e) The tenderer must be reputed System Integrator/ OEM authorized representative and must have average turnover of Rupees 5 Crores annually during last three financial years (viz. FY 2013-14, FY 2014-15, FY 2015-16). Financial statement showing annual turnover certified by Charted Accountant for the last three financial years should be attached.

f) All Switching Components like Core Switch, Distribution Switches, and Access Switches should be of single OEM (same make) and all Wi-Fi Components like WLAN Controllers and Access Points should be of single OEM (same make). All Passive components should be from single OEM (same make) except UPS, Racks and conduits. OEM of passive should have Cat 6A ETL Verified for 4-Connector Channel to ISO/IEC 11801 AMD 1 Class EA, along with channel illustration, and parts numbers. (ETL corticated to be submitted along with the bid). All racks and associated accessories should be from single OEM.

g) The tenderer should be in existence for last 10 years and in business of Networking for the minimum of last 5 years.

h) The tenderer must have at least two OEM certified engineers on company payroll.

i) The tenderer also should have their own after sales support facilities at least in one place in Tri-City (Chandigarh/ Mohali/ Panchkula)/ NCR Region. The support facilities should be fully owned by the tenderer and managed by their permanent employees (company payroll) and not through franchisee(s). (Documentary proof of the same should be attached).

j) The System Integrator/ Tenderer must have a well-placed web based complaint registration system to cater on-line complaint registration and status monitoring or its equivalent mechanism to report online complaint.

k) The System Integrator/ Tenderer/OEM must have successful executed orders of Rupees Fifty Lacs. in any combination like 1 order of 50 lacs , 2 orders of 25 lacs. during last three financial years i.e. 2013-14, 2014-15, and 2015-16 for Wired / Wi-Fi System/Networking components/IP Based components. (Certificate for successful installation and project completion from the client should be enclosed).

l) The offered products in the solution against the supply order shall be latest version and should not be end of life for next 5 years. However if any product which is declared end of life product by OEM during the supply period of material, the tenderer is required to supply/ replace model with the next higher model/version of the product.

m) The tenderer should not be debarred or blacklisted by any Central / State Government Departments of India. An affidavit to this effect on Non-Judicial stamp paper of Rs.100/- duly notarized must be enclosed with the technical bid in prescribed format. The proforma of the affidavit is attached with the tender as (**Annexure–V**).

n) Signed & stamped compliance sheet (**Annexure-VIII**) of the technical specifications of the goods with technical literature along must be uploaded with the technical bid.

o) The tenderer shall submit the copy of the tender document and addenda thereto, if any, with each page signed and stamped to confirm the acceptance of the entire term & conditions of the tender.

p) The tender of any tenderer, who has not complied with one or more of the conditions of prequalification criteria and / or fail to submit the required documents in prescribed format as mentioned / or required / or conditional tender are liable to be summarily rejected without any communication in this regard.

q) Near relatives of any personnel working in NIPER are not eligible to bid. The Bidder or its authorized signatory should certify on (**Annexure-II**) that none of the near relatives of proprietor, or any partner, or any director of the company, working in NIPER SAS Nagar. Due to any breach of this condition by the bidder/contractor at any stage, the bid/contract shall be cancelled at the risk and cost of bidder/contractor, and EMD/performance security shall be forfeited.

r) The supplier shall not create a sub-contract of any description with regards to the contract or any part thereof nor shall assign or transfer his contract or any part thereof in any manner.

s) Payment of all taxes and compliance of all the laws, rule, regulations, orders, etc. will be the sole responsibility of the bidder. In case of non-adherence of any provisions mentioned in this Para, bidder will be fully responsible for all the consequences, arising thereof.

t) NIPER will not have any concern or relation with the employees of Tenderer, either directly and indirectly. NIPER will not be liable to pay any compensation to any of tenderer employee on account of any accident or any other reason.

u) NIPER may utilize the services of the bidder/OEM for recycling/reprocessing of electronic waste (e-Waste) of those items covered in this tender at the end of their useful life. An undertaking in this regard for willingness and confirmation in the tenderer's letter head should be submitted along with the tender.

1.2 Earnest Money Deposit (EMD) - The tenderer shall be required to submit the Earnest Money Deposit (EMD) for an amount of **Rs. 4, 00,000/- (Rupees Four Lacs only)** which is refundable. The demand draft shall be drawn in favour of "Director NIPER" payable at Mohali/Chandigarh.

Any bid found without the demand draft of earnest money deposit will be rejected.

The earnest money deposit of the tenderer, whose tender has been accepted, will be returned on the submission of the performance security. Earnest money deposit of the successful tenderer shall be forfeited, if bidder refuses or neglects to execute the order or fails to furnish the required performance security within the time frame as specified by the Institute. After the award of the contract, the earnest money deposit of the unsuccessful tenderer(s) will be refunded within 30 days.

The Institute will not be liable to pay any interest on such an amount. The earnest money deposit shall be forfeited, if the tenderer withdraws its bid during the period of tender validity.

1.3 Pre-Bid Meeting - A prospective bidder requiring any clarification on the tender document may notify the Institute in writing via email (*headcc@niper.ac.in and arsp@niper.ac.in)*, on or before **15.05.2017** by 05.00 PM in the format given below on the letter head of the company.

Name of Tenderer/OEM submitting query /Request for clarification :						
Full formal address of the Tenderer/ OEM : Tel: Email:						
Sr No	Page No	Clause	Point No.	Subject	Clarification Sought	Remarks

Only two people (OEM / System Integrator) will be allowed to attend the Pre-bid meeting. Interested tenderer may choose to attend pre-bid meeting at their own cost.

No queries will be entertained after this allotted time frame. As a result of the discussion in the pre-bid meeting, if it is considered necessary to modify the technical specifications or any tender conditions, the same shall be carried out. The modified tender documents

will again be uploaded on the www.niper.gov.in and www.tenderwizard.com/NIPER website by 22.05.2017 for the information of all prospective tenderers.

Note: ***It is mandatory to submit the tender fees of Rs Five Thousands only in the form of DD in favour of "Director NIPER" payable at Chandigarh/Mohali to participate in Pre-bid meeting.***

1.4 Tender Evaluation - The Institute will evaluate the entire tenders, strictly on the basis of the terms & conditions incorporated in the tender document and terms, conditions etc. as stipulated by the tenderer(s) in their tender to determine whether these are compliance in all respects, as specified in the tender document.

During the evaluation / scrutiny of the tenders, at any stage, if it is found that any of the tenderer(s) terms and conditions are not compliance with tender document, Institute may seek the clarification within the specified target time and if the tenderer fails to reply / or not agree / accept the terms and conditions, their tender will be treated as unresponsive and it is liable for rejection. Evaluation of the proposals shall be done in two stages as:

1.4.1. Stage – I (Technical Evaluation) - Technical evaluation of the proposals shall be done in two stages as:

Sub-Stage –1 A (Essential Pre-Qualification Criteria)

- Institute will examine all the bid(s) to determine whether tenderer has submitted the EMD and technical bid along with all the documents as mentioned / or required in the tender document. Further whether all the documents are in prescribed format and have been properly numbered, signed & stamped and complete and generally in order.
- Tender(s) which will not qualify Sub-Stage–A are to be treated as unresponsive and will be rejected.

Sub-Stage –1 B (Technical Specification)

A. The tenderer should clearly specify and state the methodology to implement the project. The entire time schedule, with specific landmarks must also be furnished in the technical bid:
   i. Solution Architecture Design.
   ii. Implementation methodology along with Racks, Node & connectivity details. cabling plan and design of work to be provided

iii. Issues, Suggestions & Risks, if any.
iv. Project time schedule as per clause no 1.10.
v. Integration & Acceptance Test.
vi. Certificate of completeness of solution within the scope of work to be provided.

B. The Institute will examine the detailed technical specification of the quoted model, whether these are complying with the specifications as mentioned in of tender document.

C. The tender which is not compliance with the tender specifications will be summarily rejected.

After the evaluation of technical bid(s), a list of the tenderer(s) who qualify the technical evaluation (Sub – Stage – A & B) shall be made. Shortlisted tenderer(s) shall be informed for the date, time and place of opening of the financial bid(s) and they may depute their representative/s to attend the opening of the financial bid(s). The financial bid(s) of the only technically qualified tenderer(s) will be opened.

1.4.2 Stage – II (Financial Evaluation)

- Financial bid(s) of the only technically qualified tenderer(s) will be opened for financial evaluation. Prices should be inclusive of Taxes & duties as applicable. The financial bid(s) will be evaluated on the basis of the total cost as quoted. The quoted rates should be applicable for Educational Institutions and if any cost advantage received in lieu thereof should be passed on to the Institute.
- The rates should be quoted online in Indian Rupees (INR) and FOR at destination site basis as per financial bid (**Annexure–IX**) with complete description. Name of the manufacturer, model number etc must be indicated clearly in bid, failing which the same shall be liable for rejection.
- Online financial bids not quoted as per the format given by NIPER SAS Nagar will be rejected straightway.

1.5 Validity - Quoted rates must be valid for a period of 180 days from the date of the closing of the tender. The overall offer for the assignment and tenderer quoted price shall remain unchanged during the period of validity. If the tenderer quotes the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

In case the tenderer withdraws his offer during the validity period, the tender is liable to be rejected and the earnest money deposited shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original proposal.

1.6 Warranty - Tender must be quoted with the Five (05) years comprehensive onsite Warranty. Five years on-site warranty will start after final acceptance from the Institute and tenderer also give the warranty declaration in prescribed format as attached with tender as (**Annexure–VI**) and must be enclosed with the technical bid.

Free onsite comprehensive (including all Hardware, Software, Racks, network cabling for all types of defects and problems) maintenance services shall be provided by the Supplier / OEM during the period of warranty. Moreover this warranty may be for all reasons other than damage from tornadoes, hurricanes, floods, or other natural disasters. The tenderer shall have a well-established support infrastructure for call reporting & logging, escalation, on-site support as well as remote support using telephonic & remote login using web/Internet. The tenderer should preferably have a number on which problems and calls may be lodged. The tenderer should submit complete details pertaining to such support infrastructure in a separate sheet clearly indicating the support structure and escalation matrix.

During the warranty period, the firm shall provide one resident Engineer for onsite support. The on-site resident engineer should report on all working days including Saturday from 9.00 a.m. to 5.30 p.m. Resident Engineer will be responsible to configure all active and passive components including Server for best performance and checking of unnecessary network traffic. Resident engineer must be a qualified certified network engineer. He will report to Head Computer Centre or their authorized Officer and submit report on a regular basis in a mutually decided format with following options: Daily Report, Weekly Report, Monthly Report etc. All the documents relate to qualification & experience of resident engineer shall be deposited before joining to the Institute.

Preventive Maintenance should be performed twice every year during the first week of December / January and June / July during the 5 year on-site comprehensive warranty period and submit the report to Head, Computer Centre within a week of Preventive Maintenance schedule. NIPER will not provide or do any troubleshooting at its end.

In case the System Integrator fails to rectify the problem within 1 working day then OEM shall be required to provide second level support, service to rectify the problem or replace the faulty system or part thereof during the warranty period. In case supplier fails to repair / or rectify the equipment during the warranty period. Institute may employ or pay other person for the repairing of the equipment, all such damages, loss and expenses shall be recoverable from the supplier.

Downtime: The downtime should be less than 5 hours. Downtime will be counted from the date and time of the filing of complaint within the business hours. During the warranty the equipment along with accessories has to be maintained 5% local stocking components at NIPER (as decided by NIPER).

1.7 Fall Clause - The tenderer undertakes that he has not supplied/is not supplying the similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/ Department of the Government of India or PSU and if it is found at any stage that the similar product/ systems or sub-system was supplied by the tenderer to any Ministry/ Department of the Government of India or PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the tenderer to NIPER SAS Nagar, if the contract has already been concluded.

1.8 Training of Personnel - The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises on administration and troubleshooting of the network and services, immediately after completing the installation of the equipment for a minimum period of two weeks at the cost of company NIPER SAS Nagar. Training is only considered to be completed on the basis of satisfactory report from the concerned staff.

1.9 Award of Contract - After due evaluation of the financial bid(s), the Institute will award the contract to the lowest evaluated responsive tenderer (hereinafter referred to as the "Supplier") as per Chapter 3. However, the Institute also does not bind itself to accept the lowest or any tender or assign any reason for non-acceptance.

1.10 Delivery & Installation - Delivery schedule is given as below and it will be ready to use within 24 weeks on faultless working condition from the date of the issue of the purchase order or within such time as may be extended by the Institute.

S. No.	Activity	Schedule
1	Preparation and submission of Site Survey report	3 Weeks
2	Submission of report on placement and relocation of active components for better design & usage	1 Weeks
3	Approval of Site Survey , placement & relocation Reports	2 Weeks
4	LAN design, cabling diagram and cable identification.	3 Weeks
5	Approval of LAN design, cabling diagram and cable identification.	1 Weeks
6	Supply of Active & Passive components	4 Weeks
7	Cable laying, Termination, IO fixing	8 Weeks
8	Testing of the laid cable	1 Week
9	Rectification of faults Configuration and testing of Active Components	1 Week 1 Week
10	Installation, connectivity and testing of the LAN,UTM,AAA, Integration with Server, Nodes	2 Weeks
11	NMS configuration for Network management and submission of reports	1 Week
12	Network audit/submission of all Test reports	1 Week
13	Final inspection by NIPER SAS Nagar	
14	Posting of one resident engineer for five year from date of acceptance	Immediately after Final Inspection
15	Training of Staff	Immediately after Final Inspection
16	Final Acceptance by NIPER SAS Nagar	Two month trouble free operation form Date of final inspection
17	25 years Certification from authorized passive OEM	Within 3 months of Final acceptance

Satisfactory Installation: Satisfactory installation / commissioning and handing over of the equipment mean the faultless functioning of the equipment for a minimum period of 90 days after satisfactory installation.

Liquidated Damages (LD): If the supplier fails to perform the satisfactory installation and commissioning of the equipment and/ or which is not ready to use within stipulated time then penalty at the rate of 1% per week subject to maximum of 10% of the order value will be deducted.

Extension of Delivery & Installation Period: If the supplier is unable to complete the project / order within the stipulated time, for which the supplier is responsible, it is

required to request for the extension of the delivery period, it may be extended by competent authority if so desired.

In case the supplier fails to complete the order / project within the stipulated time, Institute reserves the right to cancel the contract / order and performance security / EMD may be forfeited.

1.11 Termination of Insolvency - Institute may at any time terminate the contract by giving written notice to the supplier, without compensation to the supplier, if the supplier becomes bankrupt or otherwise insolvent, as declared by the competent court provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Institute.

1.12 Termination for Default - The Institute may without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate this contract in whole or in part, if the supplier fails to deliver any or all the goods within the time period(s) specified in the contract, or any extension thereof granted by the purchaser pursuant to relevant Clause fails to perform any other obligation(s) under the contract; and in either of the above circumstance(s), does not remedy his failure within a period of 30 days (or such longer period as the purchaser may authorize, in writing) after receipt of the default notice from the purchaser. In the event the purchaser terminates the contract in whole or in part, pursuant to Clause above, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the supplier shall be liable to the purchaser for any excess cost for such similar goods. However, the supplier shall continue the performance of the contract, to the extent not terminated.

1.13 Performance Security - After the award of work, the supplier shall be required to submit the performance security in the form of irrevocable bank guarantee in the prescribed format (**Annexure–VII**) issued by any Nationalized Bank / or Fixed Deposit Receipt, for an amount equal to the 10% of order value within a period of 15 days after the award of contract and it will be kept valid for a period of 60 days beyond the date of completion of warranty period.

1.14 Payment Terms:

I. 40% payment of the ordered value shall be released after the receipt of material in good condition at the Institute premises after inspection in phase wise manner.

II. 40% of the ordered value shall be released after satisfactory installation/ commissioning and handover of the equipment in faultless working condition for period of 90 days from the date of satisfactory installation and submission of the test report.

III. 10% of the ordered value shall be released after submitting all the reports (cabling reports, network diagram, user manuals, etc.) As well as satisfactory training report from the NIPER staff.

IV. Balance 10% of the ordered value shall be released after 180 days after successful running of the Network.

V. Payment for all miscellaneous items like GI pipe, HDPE pipe, Chambers, UPS and PVC Conduit shall be made on actual basis as per measurement at site.

VI. No advance payment will be made under any circumstances.

1.15 Tender Preparation Expenses and Site Preparation- All costs incurred by the tenderer in the preparation of the tender, presentation and of negotiating the contract including the site visits etc. will be borne by the tenderer themselves and in no case will be reimbursable by the Institute. The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre installation requirements.

1.16 Force Majeure - Any delay due to Force Majeure will not be attributable to the tenderer. Force Majeure events shall mean one or more of the following acts or events: Acts of God or events beyond the reasonable control of the Affected Party which could not reasonably have been expected to occur, exceptionally adverse weather conditions, lightning, earthquake, cyclone, flood, volcanic eruption or fire or landslide; Radioactive contamination or ionizing radiation etc.

1.17 Inspection and Tests - The Institute or his bona fide representatives shall have the right to inspect the works, offices, showrooms, service centres of any bidder, for verification of facts furnished by the bidder in support of his bid documents, and the bidder is bound to answer any query made by the purchaser. The purchaser or his representative shall have the right to inspect and test the goods as per prescribed test

schedules for their conformity to the specifications. Where the purchaser decides to conduct such tests in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance like testing instruments and other test gadgets including access to drawing and production data shall be furnished to the inspectors at no charge to the institute.

1.18 Check List - Checklist has been included in the Bid document. This has been designed to help the bidders in submitting complete offers. The bidders must fill this check List and submit along with their offer in their own interest.

1.19 Jurisdiction - All disputes shall be subject to the jurisdiction of the Court of Law at S.A.S. Nagar, Punjab.

Read and accepted.

(Signature and seal of the Tenderer)

Name:

Designation:

Contact No:

E-Mail ID:

Chapter-2

Schedule of Requirements & Scope of the Work

The scope of the work shall consists of supply, installation, up-gradation, and preparation of design, drawings, test and commissioning of LAN / Wi Fi system in all respects and its maintenance during warranty period to the following (to be extended as per requirement) :

1. Supply and installation of servers , switches, indoor/outdoor access points, Wireless LAN controllers, UTM, related accessories and software as per the specifications outlined in the tender document and its maintenance and management for five years by providing one Resident Engineer at site. The vendor shall carry out requisite steps to integrate the existing bandwidth connectivity.
2. All hardware and software must be IPv6 compliant. Existing hardware and software must be checked for IPv6 compliance.
3. Be centrally manageable across all sites. All the proposed solution should be managed from a centralized location. Space for centrally managed would be provided by the NIPER SAS Nagar.
4. Prepare Detailed Network Layout plan in form of rack wise cable diagrams and switch port wise excel sheets.
5. Ensuring that the solution/ system are available 24x7 as per tender document.
6. Proper tagging of all cables including uplink with number is prepared by supplier & the copy of the same is submitted to the Institute.
7. Solution must support Zero Configuration on end-user device (e.g. DHCP).
8. The System Integrator / Tenderer shall provide complete end to end solution, configuration, administration and operational documentation of overview, implementation instructions, backup procedures etc. It shall be short, simple and shall include pictures showing operator procedures, if necessary. Network Documentation along with Labeling of Cables, I/Os, Jack Panel, Switches and Access Points positioning, Penta scanning, OTDR and OLTS test reports needs to be submitted.
9. Repair/Refurnishing work owing to damage caused due to cabling or any other work related to this Project. There should not be any hanging or uncovered wire.
10. Configuration of VLANS, Users Policies, Complete Management Software Monitoring & Management
11. Network segmentation and Network Monitoring though management Software for wired and wireless in such a fashion that there shall be seamless integration of Wireless & Wired infrastructure. No open source tools / software should be used.
12. Design of wireless systems for all the location of access points as to provide coverage as outlined in the documents. The coverage criteria shall be:
    a) At least -65dBm at 95% of the intended coverage locations
    b) At least -70dBm at 100% of the intended coverage locations.
    c) Ensure intranet bandwidth 40 Mbps

    (If failed, extra access points to be added at their own cost to meet the NIPER requirements.)In hostels and residential area, Wi- Fi must cover all rooms, mess, and common area.

13. Design of multiple VLANs and IP addressing scheme for the wired and wireless network and configure the wired and wireless to implement the design.
14. Design and Implementation of wired and Wireless LAN security and authentication system for providing secure access to students, faculty and guests.
15. Proper physical protection to be given to all the access points.
16. The firm shall be responsible to draw complete site plan and network layout in the form of diagram or chart of work done and the equipment installed at the site. Complete Network Architecture in detail shall be submitted by the firm to the NIPER in soft as well as hard copy.
17. Records of software licenses and versions of software installed.
18. The solution must support retaining of usage specific data such as:
    a) Information identifying the user of the session.
    b) Identity of the device used of the session – Source IP and Port, NAS ID, MAC Address etc.
    c) Session start and end time. (Time Stamp)
    d) IP address used
    e) Protocol used
    f) The location connected from.
    g) URL Information
    h) User Authentication details (provided at the time of authentication).
19. Be scalable for future expansion without capacity throughput, or other performance constraints. The proposed system should be scalable.
20. The system should be able to provide network and internet access to any device which is Wi-Fi enabled. The user can access the internet on any of their smart devices such as Smart Phones, Laptops and Tablets etc. regardless of software browser and operating system.
21. Solution shall provide individual usage statistics including but not limited to:
    a) Number of network users on the system at any time
    b) Average time duration for which the internet was utilized
    c) Number of users who attempted to access black listed sites and a list of site sites they attempted to access
    d) Reporting of the URL accessed by the users.
22. Testing may also be carried out at the discretion of the Institute, from the lot of finished product brought at site by the supplier. In case such tests have been carried out by the principal manufacturer at its testing facility, the same will be provided by the supplier for consideration. Also provide any certification carried out on the cabling.
23. All Uplinks cables to be punched in patch panel with different color code.
24. All CAT 6A copper cable components should be tested by ETL for minimum frequency of 500 MHz and complete copper solution should be shielded solution. The report should be submitted in .FLW & PDF format.

2.1 Tentative Ports Requirement

Building Information	Total Ports required
Administrative Bhawan	47
Cafeteria	2
Central Animal Facility	6
Central Seminar Hall	3
Central Store	3
Community Centre	1
Convention Centre	12
Engg. Section	8
Guest House	35
Heritage Centre	12
Centre for Infectious Diseases	14
Lecture Hall-1	1
Lecture Hall-2	1
Library & Information Centre	49
MBA	45
NBC/CR	29
New TDC	2
NIPER Dispensary	2
NIPER Main Gate	3
NPFL	10
NTC	10
Research Block A	355
Research Block B	85
Research Block C	40
Research Block D	55
Research Block E	80
Research Block F	61
Research Block G	13
Research Block H	20
Research Block I	39
Secretariat	33
Swimming Pool/Gymnasium	2
TDC	7
Residential Area/Hostels	**Houses/Rooms**
Hostel Beas	202
Hostel Chenab	164
Hostel Married	18
Hostel Raavi	182
Hostel Satluj	120
House Director	1
House Type II	12
House Type III	36
House Type IV	30
House Type V	42
House Type VI	12

Note: In hostels and residential area, Wi- Fi must cover all rooms, mess, and common area.

S. No	Departments/Sections	Data Ports/ Access Points
1	Research Block A	355
2	Research Block B	85
3	Research Block C	40
4	Research Block D	55
5	Research Block E	80
6	Research Block F	61
7	Research Block G	13
8	Research Block H	20
9	Admin Bhawan	47
10	Convention Centre	12
11	Engg. Section	8
12	MBA	45
13	New TDC	2
14	NIPER Main Gate	3
15	NPFL	10
16	NTC	10
17	Secretariat	33
18	TDC	7
19	Research Block I	39
20	Central Animal	6
21	Seminar Hall	3
22	Central Store	3
23	Lecture Hall-1	1
24	Lecture Hall-2	1
25	House Type II	3
26	Hostel Married	9
27	Canteen	2
28	Heritage Centre	12
29	C for Inf Diseases	14
30	Library	49
31	NBC/CR	29
32	Community Centre	2
33	Guest House	7
34	NIPER Dispensary	2
35	Swimming/Gym	2
36	Hostel Chenab	20
37	Hostel Raavi	28
38	Hostel Satluj	20
39	Hostel Beas	30
40	House Director	1
41	House Type III	18
42	House Type IV	15
43	House Type V	15
44	House Type VI	12
45	Misc Locations outdoor AP	5

Annexure-I

Letter of Authorisation for attending Bid Opening

(On company letter head)

Shri/Km./Smt. _____

Son/daughter/wife of Shri _____Proprietor / Partner/Director/Authorised signatory/Representative of M/s _____ _____ (Name and address of the bidder) (Registration No. _____) whose specimen signatures are given below is hereby authorized to attend the Bid Opening/Opening of Techno-commercial/Opening of Financial Bid. He/ She is also competent to accept and sign any document in connection with tender regarding "Installation and Up gradation of LAN and Wi Fi at NIPER S.A.S Nagar" on our behalf. We undertake to abide by any acceptance given by him/her under his/her signature.

1._____ 2._____

3._____

(Specimen Signatures of Authorised Representative)

Name and Address of Authorised Representative

_____

Date:

Signature of Authorised Person

Full Name:

Place:

Address:

Sign and Stamp of Tenderer

Annexure-II

DECLARATION & CERTIFICATE ON NON-PARTICIPATION OF NEAR RELATIVES IN THE TENDER

(on company letter head)

I,.....son/daughter of Shri …….. signatory authority of …….. (Name and address of the bidder) (Company Registration No. ……) is competent to sign this declaration and execute the tender document regarding "Tender for installation and Up gradation of LAN and Wi Fi at NIPER. I, ... resident of ……, hereby certify that neither I nor any of the of my, Proprietor, Partner, Director, Authorised signatory of the company , excluding any nominee appointed by the Government, financial institution, near relatives as defined, is/are employed in NIPER as per details given in tender document. In case at any stage it is found that the information given by me is false /incorrect the purchaser shall have the absolute right to take any action as deemed fit/without any prior information to me. I have carefully read and understood all the terms and conditions of the tender document and undertake to abide by the same. I also undertake that our firm will observe all legal formalities or/and obligations under the contract well within time. In case of failure to observe any of the legal formalities or/and obligations. I shall be personally liable under the appropriate law. The Information/documents furnished, along with the tender document are true and authentic to the best of my knowledge and belief. I am well aware of the fact that furnishing of any false information/fabricated documents would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

Date: ……..

Signature of Authorized Signatory

Full Name:

Place:

Address:

Sign and Stamp of bidder

ANNEXURE–III

"DETAILS OF THE FIRM OFFERING THIS QUOTE"

(on company letter head)

(Write or print or type in block letters and please answer all the questions)

1. Name of the firm

2. Date of incorporatio

3. Nature of the company-Government/Public/Private Company / Partnership / Proprietorship:

4. Specify the number of years in this line of activity by the Company:

5. Average Turnover in the last three years (Figures should be in Indian Rupees in Lakhs):

6. Provide the registered address, telephone & fax numbers, and email address:

7. Provide the postal address, telephone & fax numbers, and email address of the nearest service center.

8. A) Number of service engineers in the above location trained on the product quoted along with their educational qualification, certification and designation (applicable only for instruments) and B) Assured response time for service calls in hours:

(A)	(B)

9. On Manufacturer's Side to whom NIPER S.A.S. Nagar has to contact in case of delayed supply and other issues committed by the authorized dealer / distributor / reseller:

Contact Person Name: Address: E-mail ID: Telephone / Cell Phone:

11.PAN /GIR No _____ (enclose Photocopy)

12. TIN No _____(enclose Photocopy)

13. Service Tax Registration No _____(enclose Photocopy)

14. Earnest Money details:- DD No_____ Dated_____ Rs_____

Drawn on _____

DECLARATION

I/We have not tampered/modified the tender documents in any manner. In case, if the same is found to be tampered/modified, I/We understand that my/our tender will be summarily rejected and full Earnest Money Deposit (EMD) will be forfeited and I/We am/are liable to be banned from doing business with NIPER, S.A.S. Nagar and /or prosecuted.

Signature of the Tenderer:……

Name and Designation : ……

Business Address :……

……

Place:

Date: **Seal of the Tenderer's Firm**

ANNEXURE–IV

FORMAT FOR MANUFACTURER'S AUTHORISATION LETTER TO AGENT

(on company letter head)

Ref. No. Date:

To

The Director

National Institute of Pharmaceutical Education and Research

SAS Nagar, Mohali-160062, Punjab.

Sub.: Authorization Letter.

Dear Sir,

We,_____, who are established and reputed manufacturers of_____, having factory at_____, hereby authorize M/s._____ (name & address of Indian distributor /agent) to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the tender / contract / agreement negotiated by the said M/s. _____, jointly and severely.

We ensure that we would also support / facilitate the M/s _____on regular basis with technology / product updates for up-gradation / maintenance / repairing / servicing of the supplied goods manufactured by us, during the warranty period.

In case duties of the Indian agent / distributor are changed or agent / distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian Agent / distributor.

Yours faithfully,

[Name & Signature]

For and on behalf of M/s. _____ [Name of manufacturer]

Note: This letter of authorisation should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer. A copy of notarised power of attorney should also be furnished.

ANNEXURE–V

DECLARATION REGARDING BLACKLISTING/DEBARRING FOR TAKING PART IN TENDER

(To be executed &attested by Public Notary / Executive Magistrate on Rs.100/- non-judicial Stamp paper by the Tenderer)

I / We _____ Manufacture / Partner(s)/ Authorized Distributor /agent of M/S. _____ hereby declare that the firm/company namely M/s._____has not been blacklisted or debarred in the past by Union / State Government or organization from taking part in Government tenders in India.

Or

I / We _____ Manufacture / Partner(s)/ Authorized Distributor / agent of M/s. _____hereby declare that the Firm/company namely M/s._____ was blacklisted or debarred by Union / State Government or any Organization from taking part in Government tenders for a period of _____ years w.e.f. _____ to _____.

The period is over on _____and now the firm/company is entitled to take part in Government tenders.

In case the above information found false I/we are fully aware that the tender/ contract will be rejected/cancelled by Director, NIPER , SAS Nagar , and EMD/ Performance Security shall be forfeited.

In addition to the above Director, NIPER SAS Nagar will not be responsible to pay the bills for any completed / partially completed work.

DEPONENT

Name_____

Address _____

_____

Attested:

(Public Notary / Executive Magistrate)

ANNEXURE – VI

CERTIFICATE OF WARRANTY (on letter head)

I / We certify that the warranty shall be given for a period of five (05) years starting from the date of the final acceptance. During the warranty period, I / we shall provide the "after sale service" and the replacement of defective / or any part(s) of the equipment or rectification of defects of work of the equipment free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. Moreover, this warranty will be for all reasons. The benefit of change in dates of the guarantee / warranty period shall be in the interest of the user organization.

During the warranty period, we shall provide resident engineer.

Qualification and experience for personnel proposed

Positions	**Name**	**Qualification**	**Work**	**Experience in proposed position**

Uptime Guarantee: During the guarantee / warranty period, we will be responsible to maintain the equipment including all the accessories in the satisfactory faultless working conditions for a period 364 days (i.e. 99% uptime) in a block of 365 days.

- All complaints will be attended by us within time of receipt of the complaint in our residence engineer.
- In case there is delay of attending the complaint from our side then the Institute can count the number of days in excess of the permissible response time in the downtime. The above said response time of attending to a complaint by us will not be counted in the downtime.
- Penalty: We shall pay a penalty equivalent to 0.5 % of the order value of the equipment for every day or part thereof delay in rectifying the defect.

No deduction or advantage of any kind on account of Sundays, half days or Public / Govt. holidays observed by the Institute shall be allowed from the total down time permissible as defined above. The right to accept the reason(s) for delay and

consider reduction or waive off the penalty for the same shall be at the sole discretion of the Institute.

I / We shall try to repair the equipment at Institute premises. However, in case it is not possible to repair the equipment at Institute premises, we will take out the equipment to our site on our own expenses. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till the equipment is rehabilitated to the Institute after repair. If any loss of equipment occurred during our custody, we will restore it / compensate to Institute for such losses till the equipment is rehabilitated to the Institute after repair..

I / We guarantee that in case we fail to carry out the maintenance work within the stipulated period, the Institute reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs / maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of the Performance Bank Guarantee, the same shall be recoverable from us with / without interest in accordance with the circumstances.

I / We undertake to perform calibration after every major repair / breakdown / taking the equipment out for repair from the Institute premises.

I / We guarantee that we will supply spare parts, if and when required on agreed basis.

I / We guarantee to the effect that before going out of production of the spare parts, we will give the adequate advance notice to Institute so that Institute may undertake to procure the balance of the life time requirements of the spare parts.

Authorized signatory of the company with seal

ANNEXURE–VII

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

This deed of guarantee made this _____ day of _____, 2017, between Director NIPER, SAS Nagar (hereinafter called the Purchaser) (which expression shall unless excluded by or repugnant to the context include his successors and assignees) of one part and _____ (herein after called the Bank) (which expression shall unless excluded by or repugnant to the context include its successors and assignees) of the other part.

Where the Purchaser accepted the tender of M/s _____ (hereinafter called the Contractor) to supply goods to the Purchaser, as per Purchase Order No. _____ Dated _____ (hereinafter referred to the as the Contract).

And whereas the Contract provides that Contractor shall furnish bank guarantee to the extent of 10% of the value of the Contract as and by way of security for the due observance and performance of the terms and conditions of the Contract. And whereas at the request of the Contractor, the Bank has agreed to execute these presents. Now the deed is witnessed and it is hereby declared by and between the parties hereto as follows

1. The Bank hereby irrevocably and unconditionally guaranties to the Purchaser that the contractor shall render all necessary and efficient services which may be required to be rendered by the Contractor in connection with and/or performance of the Contract, and further guaranties that the goods supplied by the Contractor under the Contract shall actually be performing the work required of it to the satisfaction of the Purchaser and shall be free from any defect arising from faulty material, designs and workmanship, such as corrosion of the equipment due to inadequate quantity of materials, inadequate contact protection, deficiencies in circuit design and/or otherwise whatsoever, and in the event Contractor failing or neglecting to render necessary services as aforesaid and/or in the event of goods failing to give satisfactory performance or proving and particularly warranty clause mentioned therein, the Bank shall indemnify and keep the Purchaser indemnified to the extent of Rs. _____ against any loss or damage that

may be caused to or suffered by the Purchaser by reason of any breach by the Contractor of any of the aforesaid terms and conditions and the Bank further undertake to pay to the Purchaser, such sum not exceeding Rs. _____ on demand and without demur, in the event of Contractor's failure to perform and discharge aforesaid several duties and obligations on his part to be observed and perform under the Contract and/or deficiencies and defects in the satisfactory performance of the goods and the equipment. Tender No. _____)

Sign and Stamp of Tenderer

2. The decision of the Purchaser as to whether the Contractor has failed to or neglected to perform or discharge his duties and obligation as aforesaid and/or whether the goods are free from deficiencies and defects and are capable of performing the work required and as to the amount payable to the Purchaser by the Bank herein, shall be final and binding on the Bank.

3. The responsibility of the Bank under this guarantee shall be as of Principal Debtor.

4. The guarantee herein contained shall remain in full force and effect during the period that would be taken for performance of the aforesaid terms of the Contract and it shall continue to be enforceable 60 months after the equipment have been taken over, all the dues of the Purchaser under or by working of Contract have been fully paid, ratified or discharged, or till it is certified by the Purchaser that the terms and conditions of the Contract have been fully and properly carried out by the Contractor and a No Demand Certificate submitted to this effect by the Contractor.

5. The Bank further agrees that the guarantee herein contained shall remain in full force and effect for a period of 60 months from the date hereof and also that the extension of this guarantee will be provided for by the Bank for such period beyond the period of 12 months as the Purchaser may feel necessary in this behalf. Provided further that if any claim accrues or arises against the Bank before the expiry of the said 12 months or an extension thereof, the same shall be enforceable

against the Bank notwithstanding the fact the same is enforced after the said period of 12 months or any extension thereof.

6. The guarantee herein contained shall not be affected by any change in the constitution of the Contractor or the Bank and shall be a continuing one.

7. The Purchaser has fullest liberty without affecting the guarantee to postpone for anytime and from time to time any of the powers exercisable by it against the Contractor and either to enforce or forebear any of the terms and conditions of the Contract and the Bank shall not be released from its liability under this guarantee by any exercise by the Purchaser of the liberty with reference to the matter referred aforesaid or by the reasons time being given to the Contractor or any other forbearance, act or the omission on the part of the Purchaser or any indulgence by the Purchaser to the Contractor or by any other matter or thing whatsoever which under the law relating to sureties shall but for this provision have the effect of so releasing of from its such liability.

8. The Bank undertakes not to revoke this guarantee during its currency except with the previous consent of the Purchaser in writing.

In witness thereof the parties have executed these presents, the day and year therein above.

_____

_____

Signed and Delivered by the Constituted Attorney for and on behalf of the Contractor in presence of

_____

_____

Signed and Delivered by the Constituted Attorney for and on behalf of the Bank in presence of

1. _____

2. _____

Full Address of the Contractor/Bidder

Tel. No.

Email

Annexure-VIII

Technical Compliance Sheet

TECHNICAL SPECIFICATION FOR SWITCHING , WIRELESS , UTM, AAA AND SERVERS			
Sr. No.	**SWITCHING COMPONENTS**	**COMPLIANCE Yes/No**	**DOCUMENTARY PROOF AT PAGE NO**
A	**CORE SWITCH**		
A.1	Core switch (Chassis/virtual chassis) configured in Active mode with support for Virtual Port Channel (vPC) or equivalent.		
A.2	Each core switch has to be configured with redundancy in all key components like power supplies and fans, so that there is no single point of failure in the switch.		
A.3	The Switch should be configured to provide Wire-Speed Non-Blocking Switching and Routing Performance at Layer 2 and Layer 3 on all ports.		
A.4	Each Core Switch should have min 48 ports of 1G/10G SFP/SFP+ wire speed for L2 and L3 at 64 byte packet sizes		
A.5	The ports on each core switch should be capable of supporting 1000Base-TX, 1000Base-SX and 1000Base-LX SFP and 40 Gbps Direct-Attached Copper/Equivalent dedicated stack ports, 10G SR and 10G LR SFP+		
A.6	Each Core Switch should have min 4 ports of 40G for Inter-connecting two Core switches WITH 40G QSFP+ WITH DAC CABLES or equivalent		
A.7	Switch Should Support IPV4 and IPV6 from day one		
A.8	Each Core Switch should have minimum switching capacity of 1.28 Tbps and minimum forwarding capacity of minimum 952 Mpps or more.		
A.9	The Core Switches should support min 128K MAC addresses and min 4000 active VLAN. It should support Unicast, Multicast routing and IPv4 and IPv6 routes.		
A.10	The Core Switches should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2/v3 from day 1.		
A.11	Switch Should support IEEE 801.1 aq		

A.12	The Core Switches should support full Layer 3 features like PIM-DM, PIM-SM, RIPv1/v2, OSPF, BGP, VRRP and PBR from day 1.		
A.13	Should support Broadcast multicast and unknown unicast rate limiting.		
	IOS should be full service image supporting all services and protocols from day 1.		
A.14	Should support MAC address filtering based on source and destination addresses.		
A.15	The Core Switches should support full IPv6 features like RIPng, MLD v1/v2, OSPFv3, VRRPv3 and IPv6 management from day 1.		
A.16	Should support configuration and manageability using an Element or Network Management System.		
A.17	The Switch should support In-service Software upgrade (ISSU).		
A.18	The Switch Should have SNMP , NTP and RMON features		
A.19	The Switch Should be Web based ,SSH ,SCP ,telnet to manage the device		
A.20	The Switch should be quoted with 5 years supplier / OEM 24X7 TAC support including new bug fix & patches and hardware replacement.		
B	**FIBER DISTRIBUTION SWITCH 24 PORT**		
B.1	The Distribution Switch has to be configured with redundant power supplies, so that there is no single point of failure in the switch.		
B.2	The Distribution Switch should be configured to provide Wire-Speed Non-Blocking Switching and Routing Performance at Layer 2 and Layer 3 on all ports.		
B.3	The Distribution Switch should have min 24 ports of 1G Base X Fiber.		
B.4	The Distribution Switch should have 2 ports of 10G SFP+ for uplink to Core		
B.5	The Switch should have min2 ports of 10G SFP+ from day-1 for stacking		
B.6	The Switch should provide Non-Blocking switch fabric capacity of 128 Gbps or more.		
B.7	The Distribution Switch should provide wire-speed packet forwarding of 95 Mpps or more for IPv4 and IPv6.		

B.8	The Switch should support 4 switches in the stack		
B.9	The Switch should support min 16K MAC addresses and min 4000 active VLANs.		
B.10	The Distribution Switch should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2/v3 from day 1.		
B.11	The Access Switch should support basic Layer 3 features like static routing, RIPv1/v2 and VRRP from day 1.		
B.12	The Switch should support Openflow/Netflow/jFlow/Sflow programmable interface for SDN.		
B.13	The Switch should be quoted with 5 years supplier / OEM 24X7 TAC support including new bug fix & patches and hardware replacement.		
C	**ACCESS SWITCH 24 PORT**		
C.1	The Switch should be configured to provide Wire-Speed Non-Blocking Switching and Routing Performance at Layer 2 and Layer 3 on all ports.		
C.2	The Switch should have min 24 ports of 10/100/1000 BaseT.		
C.3	The Access Switch should have 2 ports of 10G SFP+ for uplink to Core		
C.4	The Access Switch should have min2 ports of 10G SFP+ from day-1 for stacking		
C.5	Switch Should Have option for Redundant power Supply		
C.6	The Access Switch should provide Non-Blocking switch fabric capacity of 128 Gbps or more.		
C.7	The Switch should provide wire-speed packet forwarding of 95 Mpps or more for IPv4 and IPv6.		
C.8	The Access Switch should support 4 switches in the stack		
C.9	Switch Should Support IPV4 and IPV6 from day one		
C.10	The Access Switch should support min 16K MAC addresses and min 4000 active VLANs.		

C.11	The Switch should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP / IEEE 802.3ad , ACL, QoS and IGMPv1/v2/v3 from day 1.		
C.12	The Access Switch should support basic Layer 3 features like static routing, RIPv1/v2 and VRRP from day 1.		
C.13	The Access Switch should support Openflow /netflow/Sflow/jflow programmable interface for SDN		
C.14	The Switch should be quoted with 5 years supplier / OEM 8X5 TAC support including new bug fix & patches and hardware replacement.		
D	**ACCESS SWITCH 24 PORT POE+**		
D.1	The access switch should be configured to provide Wire-Speed Non-Blocking Switching and Routing Performance at Layer 2 and Layer 3 on all ports.		
D.2	The Switch should have min. 24 ports of 10/100/1000 BaseT		
D.3	The Access Switch should have 2 ports of 10G SFP+ for uplink to Core		
D.4	The Access Switch should have min2 ports of 10G SFP+ from day-1 for stacking		
D.5	Switch Should Have option for Redundant power Supply		
D.6	The Access Switch should provide Non-Blocking switch fabric capacity of 128 Gbps or more.		
D.7	The Switch should provide wire-speed packet forwarding of 95 Mpps or more for IPv4 and IPv6.		
D.8	The Access Switch should support 4 switches in the stack		
D.9	The Access Switch should support min 16K MAC addresses and min 4000 active VLANs.		
D.10	The access Switch should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2/v3 from day 1.		
D.11	The Access Switch should support basic Layer 3 features like static routing, RIPv1/v2 and VRRP from day 1.		
D.12	The Access Switch should support Openflow /netflow/Sflow/jflow		

	programmable interface for SDN		
D.13	Switch Should Support IPV4 and IPV6 from day one.		
D.14	Access switch should Support for IEEE 802.3af as well as IEEE 802.3at-compliant PoE		
D.15	Access switch should have 370W of POE Power Budget		
D.16	The access switch should support Energy efficient Ethernet IEEE 802.3az (Hardware ready)		
D.17	The Switch should be quoted with 5 years supplier / OEM 8X5 TAC support including new bug fix & patches and hardware replacement.		
E	**ACCESS SWITCH 8 PORT POE+**		
E.1	The Access Switch should offer Wire-Speed and Non-Blocking Switching for 8 ports of 10/100/1000base TX RJ45 POE+		
E.2	Switch should have additional 2 ports of 1G SFP with support for SX, LX, TX and Long Haul Transceivers for uplink purpose		
E.3	Switch should IEEE 802.3af as well as IEEE 802.3at PoE compliant		
E.4	Should provide Non-Blocking switch fabric capacity of 20 Gbps or more and forwarding throughput of 35 Mpps or more		
E.5	Should support 16,000 MAC addresses or more and min 256 active VLANs		
E.6	Switch should support DHCP snooping, RADIUS and TACACS/TACACS+		
E.7	The access Switches should support full Layer 2 features like STP, RSTP, MSTP/PVST, LACP/IEEE802.3ad, ACL, QoS and IGMPv1/v2/v3 snooping from day 1.		
E.8	The switch should support Unidirectional Link Detection (UDLD) or equivalent.		
E.9	Should support Broadcast multicast and unknown unicast rate limiting.		
E.10	Should support faster ring convergence		
E.11	The Access Switches should support Energy Efficient Ethernet IEEE 802.3az (hardware Ready)		
E.12	Should support configuration and manageability using an Element or Network Management System.		
E.13	Switch should have SNMP , NTP and RMON		

	feature		
E.14	Switch should be web based , SSH , Telnet to manage the device		
E.15	Access switch Support for IEEE 802.3af as well as IEEE 802.3at-compliant PoE		
E.16	Access switch should have minimum 110W of POE Power Budget		
E.17	The Switch should be quoted with 5 years supplier / OEM 8X5 TAC support including new bug fix & patches and hardware replacement.		
F	**NETWORK MANAGEMENT SOFTWARE**		
F.1	The Network Management Software shall provide secured web-based consoles to monitor 150 devices and should have scalability to manage up to 500 devices.		
F.2	The Network Management Software should provide a customizable at-a-glance summary of all discovered devices , including inventory and event summary information used to proactively identify problem areas and help prevent network downtime		
F.3	The Network Management Software should be able to discover, configure, monitor, manage, and deploy configurations to dynamically update groups of devices		
F.4	The Network Management Software should allow flexible definitions of administrator roles and responsibilities with RBAC (Role based Access Control) for different teams.		
F.5	The Network Management Software should provide an interface to configure and deploy Command Line Interface (CLI) based configuration templates across one or more IP devices.		
F.6	The Network Management Software should enable performance management by providing customizable dashboards and historical data visibility		
F.7	The Network Management Software should be able to generate reports designed to summarize utilization of and traffic patterns on network interfaces.		
F.8	The Network Management Software should be able to provide real-time network monitoring and troubleshooting capabilities without impacting network performance.		

F.9	The Network Management Software should allow administrators to track device configuration changes, enabling viewing, retrieval, and restoration of configuration files, and monitoring of configuration drift for troubleshooting purposes		
F.10	It should be quoted with 5 years supplier / OEM 24X7 TAC support including new bug fix & patches and software replacement.		
G	**SFP-GIG-LX**		
G.1	Gigabit SFP Optical Transceiver.		
G.2	Connector types LC		
G.3	Standards supported 802.3z, SFP MSA		
G.4	Connections supported 1000Base-LX		
G.5	Fiber Type SMF		
G.6	Wavelength 1310 nm		
G.7	Optical Power Output -9.5 to -3 dBm		
G.8	Receiver Sensitivity -14.5 dBm		
G.9	Transmission Distance 10 km		
H	**SFP-10G-LR**		
H.1	10-Gigabit SFP+ Optical Transceiver.		
H.2	Connector Type LC		
H.3	Standards Supported 802.3 Clause 52		
H.4	Connections supported 10GBase-LR		
H.5	Fiber Type SMF		
H.6	Wavelength 1310 nm		
H.7	Optical Power Output -8.2 to 0.5 dBm		
H.8	Receiver Sensitivity -10.3 dBm		
H.9	Transmission Distance ~ 10 km		
H.10	Maximum Power Consumption 1 W		
H.11	Digital Diagnostic Monitoring Supported		
I	**SFP-1G BASE-T**		
I.1	SFP-GIG-T		
I.2	Gigabit SFP Copper Transceiver.		
I.3	Connector Type RJ-45		
I.4	Standards Supported 802.3z, SFP MSA		
I.5	Connections supported 10/100/1000Base-T		
I.6	Cable Type CAT5, CAT5e, CAT6		
I.7	Transmission Distance ~100 m		
J	**WIRELESS CONTROLLER**		
J.1	Must be compliant with CAPWAP or		

	equivalent for controller-based WLANs.		
J.2	WLAN Management Device must be Software controller/hardware controller/cloud controller and should support upto 1000 Access Points without any License.		
J.3	Controller must be work on Distributed Network base and in case of centralized network it should be non-blocking.		
J.4	Controller should support 802.11a/b/g/n and 802.11ac Wave Stands or higher from day 1		
J.5	Controller must support IPV4 and IPV6 from day 1		
J.6	Controller must Auto approve APs across Network		
J.7	Controller must support auto AP discovery and provisioning and auto IP assignment.		
J.8	Controller AP should be able to scan for rogue access points and Software controller/hardware controller/cloud controller should be able to locate them on a Floor map and be able to send a notification to the administrator when a rogue AP has been detected.		
J.9	AP Cluster Management		
J.10	Device must have AP status and wireless client monitoring.		
J.11	Device must have the feature for wireless traffic and usages statistics for monitoring from day 1.		
J.12	Device must have the feature for AP Radio settings, device name editing and remote rebooting from day 1.		
J.13	Device should support fast roaming, fast handover, traffic shaping and band steering		
J.14	Device should have option of Guest Networks and client limiting per AP.		
J.15	Device must have minimum 8 SSID for VLANs.		
J.16	Must support RF Management with 20/40/80 MHz channels with 802.11a/b/g/n and 802.11 ac standards from the day 1.		

J.17	Device should support Rapid Spanning tree, CoS based on 802.1p priority, physical port, DHCP and 802.1X port based Access control.		
J.18	Device must have the of port security, Storm Control and port Isolation.		
J.19	Device should support Access control list and Attack prevention.		
J.20	Device Should support Secure control messaging and SSL certificate.		
J.21	Wireless Security (WEP, WPA / WPA2, Enterprise, WPA-PSK / WPA2-PSK)		
J.22	Must be able to set a maximum per-user bandwidth limit on a per-SSID basis.		
J.23	Must support user load balancing across Access Points.		
J.24	Device should support Bulk Firmware upgrade.		
J.25	Device should support Unified configuration import and export.		
J.26	Device should support intelligent diagnostics.		
J.27	Device should support WEB User Interface Support non-IE Browsers as Chrome, Safari and Firefox		
J.28	Device should support separate Guest SSID		
J.29	Guest SSID should support upto 500 Client Device with Captive Portal facility		
J.30	Guest SSID should include DHCP server.		
J.31	It should be quoted with 5 years supplier / OEM 24X7 TAC support including new bug fix & patches and software/hardware replacement.		
K	**ACCESS POINTS – OUTDOOR**		
K.1	Dual Band Wireless Managed outdoor Access Point must have Gigabit LAN port with 802.3af/at PoE Power support.		
K.2	Access Points proposed must include radios for both 2.4 GHz and 5 GHz.		

K.3	Must include dual band MIMO antennas to support both the 2.4GHz and 5GHz operations simultaneously.		
K.4	Access Point Should be IP 67/68 waterproof and should have flexibility in mounting at outdoor environment		
K.5	Access Point Should Be 802.11 a/b/g/n and 802.11 ac Wave Standards		
K.6	Must support 3x3 MIMO		
K.7	Must support data rates upto 300 Mbps on 802.11b/g/n and 1.3 Gbps on 802.11ac wave or higher		
K.8	Must support maximum power of 29dbm as limited by Wireless Planning & Commission (WPC)		
K.9	Device should Support fast roaming and fast handover option.		
K.10	Device must support IPV4 and IPV6 from day 1		
K.11	Device should support Client limits per AP and band steering.		
K.12	Guest Network and Client Status supported.		
K.13	WEP/WPA/WPA2 Wireless encryption support.		
K.14	MAC Address filtering and client isolation support.		
K.15	Should Support PMKSA for Mobility.		
K.16	Effective and flexible bandwidth management support		
K.17	Must support Controller-based and standalone (autonomous) deployments		
K.18	Device must support IPV4 and IPV6		
K.19	Device must support PING Test, Trace route test and speed test.		
K.20	Must support minimum 8 WLANs per AP for SSID deployment flexibility.		
K.21	Must support telnet/SSH/HTTP/SNMP/CLI		
K.22	shall have the support of 802.11e and WMM		
K.23	Support system specific reboot periodically.		

K.24	Should support Email alerts and Syslog		
K.25	Minimum 50 clients support by each AP.		
K.26	Device should be support separate SSID for each band and Guest		
K.27	Must support Power over Ethernet, PoE Kit and OEM mounting kit.		
K.28	Access Point must be having integrated internal or external antenna		
K.29	Device should be properly mounted in pole or wall with kensington security lock options		
K.30	Must should be certified by WiFi Alliance/UL 2043/WPC.		
K.31	It should be quoted with 5 years supplier / OEM 24X7 TAC support including new bug fix & patches and software/hardware replacement.		
L	**ACCESS POINTS – INDOOR**		
L.1	Dual Band Wireless Managed Indoor Access Point. Access Point must Have Gigabit LAN port with 802.3af/at PoE Power support.		
L.2	Access Points must include radios for both 2.4 GHz and 5 GHz from day 1		
L.3	Must include dual band MIMO antennas to support both the 2.4GHz and 5GHz operations simultaneously.		
L.4	Mounting kit should be standard which shall be used for mounting access point without any additional cost.		
L.5	Access Point Should Be 802.11 a/b/g/n and 802.11ac wave standards		
L.6	Must support minimum data rates of 300 Mbps on 2.4 GHz (as per 802.11n standard) & minimum data rates 1.3 Gbps on 5 GHz(as per 802.11ac Wave or higher as per standards) with backward compatibility.		
L.7	Must support 3x3 multiple-input multiple-output (MIMO) with two spatial streams.		
L.8	Must support maximum 26dbm of transmit power as limited by Wireless Planning & Commission (WPC) rules for indoor AP's		
L.9	Device should Support fast roaming and		

	fast handover option.		
L.10	Device should support Client limits per AP and band steering.		
L.11	Guest Network and Client Status supported.		
L.12	WEP/WPA/WPA2 Wireless encryption support.		
L.13	MAC Address filtering and client isolation support.		
L.14	Should Support PMKSA for Mobility.		
L.15	Effective and flexible bandwidth management support		
L.16	Must support Controller-based and standalone (autonomous) deployments		
L.17	Device must support IPV4 and IPV6 from day 1		
L.18	Device must support PING Test, Trace route test and speed test.		
L.19	Must support minimum 8 WLANs per AP for SSID deployment flexibility.		
L.20	Must support telnet/SSH/HTTP/SNMP/CLI		
L.21	shall have the support of 802.11e and WMM		
L.22	Support system specific reboot periodically.		
L.23	Should support Email alerts and syslog		
L.24	Minimum 50 clients support by each AP.		
L.25	Must support Power over Ethernet, PoE Kit and OEM mounting kit.		
L.26	Access Point must be having integrated internal or external antenna		
L.27	Device should be support separate SSID for each band for Guest purpose with different subnet IP facility.		
L.28	Device should be ceiling or wall mounts with Kensington security lock option.		
L.29	Must should be certified by WiFi Alliance/UL 2043/WPC		
L.30	It should be quoted with 5 years supplier / OEM 24X7 TAC support including new bug fix & patches and software/hardware replacement.		
M	**ACCESS POINT – INDOOR (RESIDENCE)**		
M.1	AP should have to support 2.4 GHz concurrent users with 802.11 b/g/n capability.		

M.2	AP should have Gigabit Ethernet port with IEEE 802.3 of standard PoE support.		
M.3	AP Should have effective and flexible bandwidth management on per SSID		
M.4	AP should be able to power up using standards 802.3af POE input, and at the same time operate in full MIMO mode. It must have option to power through 12 VDC power Adaptor also.		
M.5	AP should provide maximum of 26 dBm Transmit power for 2.4Ghz. (Maximum EIRP should be limited as per govt. regulation for indoor AP's).		
M.6	AP should have -96 dB or better Receiver Sensitivity.		
M.7	Access Points can perform encryption / decryption on itself so as not to bottleneck the controller		
M.8	SSID support : 8 BSSID		
M.9	Must support data rates upto 300 Mbps on 802.11b/g/n		
M.10	The access point should support 802.1q VLAN tagging on LAN Ports and Wireless SSIDs Antenna: 2 Nos. Integrated omni-directional, with min 5 dBi Gain for 2.4Ghz.		
M.11	AP should have technique to provide better reception for hard to hear clients and consistent performance while clients change their orientation i.e. beam forming/ polarization.		
M.12	Should support the operating temp 0° to 40° C and Humidity: 0% to 95% non-condensing.		
M.13	The access point should support following security mechanism: WEP, WPA-PSK, WPATKIP, WPA2 AES, 802.11i , EAP/TLS and PEAP clients		
M.14	System should support Authentication via 802.1X, Local (controller based) authentication database, support for RADIUS and Active Directory.		
M.15	Management - Web User Interface (HTTP/S) • CLI (Telnet/SSH), SNMP v1, 2, 3 - SNMP MIB I, MIB II, 802.11 MIB, Reset button.		
M.16	Should Support PMKSA for Mobility.		
M.17	Should be managed by Controller or standalone if required.		

M.18	Device should be support separate SSID for Guest purpose.		
M.19	Should support syslog (local and remote) - store 1000 entries locally and forward log to remote log server.		
M.20	Must be certified by WiFi Alliance/UL 2043/WPC.		
M.21	It should be quoted with 5 years supplier / OEM 24X7 TAC support including new bug fix & patches and software/hardware replacement.		
N	**UTM**		
N.1	General Features		
N.1a	Should be appliance based and rack mountable Identity based Firewall		
N.1b	High Availability of hardware should be there to support the appliances in cluster.		
N.1c	Must have Intrusion Prevention System		
N.1d	Should have Gateway Anti-virus		
N.1e	Should have Inbound and Outbound Gateway Anti-spam		
N.1f	Should have Web Content & Application Filtering		
N.1g	Should have Web Application Firewall		
N.1h	Network: OSPF, Round Robin load balance, RIPv2, BGP, equal & unequal cost load balance, High Availability, QoS, etc. Round Robin Balance, Server Load Balancing.		
N.1i	2factor Authentication feature for vpn. The proposed Content Filtering should have URL, Keyword, File type block, Block Java applets, cookies, ActiveX, Block malware, phishing, pharming URL, block P2P application, anonymous proxies, and Customized block on group basis.		
N.1j	ICSA certification and NSS recommendation for firewall		
N.1k	Bidder /OEM should provide External Appliance for Reporting (Mention Name for External Appliance : _____)		
N.2	Appliance Throughput		
N.2.a	Firewall throughput of 35 Gbps.		
N.2.b	Minimum 8 Gbps of NGFW Throughput		
N.2.c	Minimum 10,000,000 Concurrent sessions		

N.2.d	Minimum 9 Gbps of IPS throughput		
N.2.e	Minimum 1,75,000 New Sessions/second		
N.2.f	Minimum 10 Gbps of VPN throughput.		
N.2.g	6 x 10/100/1000 interfaces along with 500GB built-in hard disk		
N.2.h	Minimum one slot to support upgrade of 4 x10GE SFP or 4 x 1 Gb SFP in same box if required in future.		
N.3	Intrusion Prevention System (IPS)		
	The proposed IPS should support different attacks like Mail Attack, FTP Attack, HTTP Attack, DNS Attack, ICPM 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 Protect networks, Protocol Anomaly Detection. IPsec, L2TP, PPTP and SSL as a part of Basic Appliance		
N.4	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, Compliance reports and 1200+ drilled down reports on the appliance. External logging appliance need to be quoted with support for 3Gb logs /day		
N.7	License for UTM (Unified Threat Management)		
	Five Years for Gate Way Antivirus, spyware, Anti-Spam, Web content and application filtering. IPS, Web & Application Firewall and support with Advance hardware replacement of hardware. License period will be counted after activation		
O	**Authentication, Authorization, and Accounting**		
O.1	Interfaces: Ethernet 1 GBE ports – Minimum 10 nos. , Configurable Internal/HA/WAN Ports, Console Port (RJ45)- Minimum 1 no., 1 GBE SPF Ports Minimum 4 Nos.		
O.2	System: Concurrent Session– Minimum35,00,000, Concurrent Users –		

	2000, Throughput of appliance-- minimum 500 Mbps		
O.3	AAA Modules: Quota Management Module, Online Payment for renewal and registration, SMS integration for sending SMS to end users.		
O.4	Authentication: WISPr Support , External Captive Portal support , HTTP or HTTPS captive portal redirection , QOS authorization, HTTP based Login/Logout , Reauthorization , Thermal Printer support for instant voucher , LDAP or ADS integration support, Social Media authentication support , Third party AAA integration support, Smart Client Support		
O.5.	DNS: DNS redirection, Custom Domain, DNS forwarders.		
O.6.	Gateway: Multiple Gateway load balancing & fail over, Source Based Static Route.		
O.7.	VLAN Capability: Capable of creating VLAN interfaces based on VLAN Tag		
O.8.	IP Pool Management: Many to One Public NATTING, MAC based leasing – Login Once.		
O.9.	Management: DHCP relay support , User Wise ACL rights , Should support IPV4 & IPV6 Ready		
O.10.	Security: Blacklists and Whitelists IP and Domain, VPN Pass through Session rate Limit, Should support Walled garden.		
O.11.	Reporting: Web Surfing Reports-UserName, IP, Data & Time based surfing Report, MIS Reports --- Number of Registration/Renewal.		
O.12.	Compliance: CE & FCC		
O.13.	License: It should be quoted with 5 years license support including new bug fix & patches and software and hardware replacement.		
P	**SERVERS (03 Nos.)**		
P1.a	Intel® Xeon® ® E5-2603v4 (1.7GHz/6-core/15MB/85W)		
P1.b	Intel® C610 Series Chipset		
P1.c	32 GB Internal and expandable Capacity (RDIMM) 256GB (8 x 32GB RDIMM @2400MHz)		
P1.d	Minimum 4 LFF HDD Bays and 2x2 TB		

	NLSAS HDD inbuilt		
P1.e	RAID Controller with 1 GB Cache supporting RAID 0,1,5,6,10,50,60		
P1.f	4 USB ports (standard); Front: 1xUSB 2.0 std; Rear: 2xUSB 3.0 Internal: 1x USB 3.0 1 VGA, Ethernet 1Gb 2-port Adapter		
P1.g	System should be configured with 2 drive bays for installing Hard Drives. It should support SAS and SATA		
P1.h	Integrated Graphics Matrox G200eH2 video standard		
P1.i	1 PCIe3 x16 and 1 PCIe3 x8		
P1.j	Redundant Plantium Supply Hot Plug		
P1.k	Rack Mountable, 1U or better.		
P1.l	Support for Microsoft Windows Server, Red Hat Enterprise Linux (RHEL),SUSE Linux Enterprise Server (SLES)VMware		
P1.m	Preloaded Windows Server 2012Standard		
P1.n	Rack mounts kit as well.		
P1.o	Management software should have below features as standard or if any license is required for below features should be provided. • System management tools should be from the same OEM. • Should support Unattended, Local and Remote installation. • Event Management, Threshold management, Asset Management, Performance Management. • Pre failures and analysis, Automatic System Recovery and restart. • Monitoring and control power consumption • Raid Management, Storage management. • Update Management (Bios and Firmware), Online Diagnostics, • Single sign on and Role based access control should be provided. •Power Consumption Monitoring, Power Consumption Control should be provided. •Power Consumption history for at least 1		

	year should be available.		
P1.p	5 years onsite warranty by OEM		
P2.a	**Dual Intel Xeon processor, E5-2620v4 (2.14 GHz, 8 GT/s QPI) with 8 core**		
P2.b	20 MB L3 Cache		
P2.c	64 GB PC3-10600 2100 MHz ECC DDR4 Memory expandable upto 768GB		
P2.d	OEM Mother board based		
P2.e	3 x 300 GB 15K RPM 2.5" SAS HDD		
P2.f	3 PCI-Express Slots 2 No x16 with x16 bandwidth, 1 Nos. of X16 with x8 bandwidth		
P2.g	Server RAID controller with Cache supporting RAID 0,1,5,6,10,50,60		
P2.h	10 Bays 2.5" SSF SAS		
P2.i	On Board Dual 10 Gigabit Ethernet Card		
P2.j	17" LCD Monitor TCO-03 Certified		
P2.k	104-key keyboard (USB)		
P2.l	Mouse (USB)		
P2.m	Combo Drive		
P2.n	RACK Based		
P2.o	All required cables		
P2.p	Redundant platinum Power Supply		
P2.q	Support for WIN-2012 Server, Red Hat & SUSE Linux OS support		
P2.r	FCC & UL Certified, MS Certification, RoHS Certified		
P2.m	Pre-loaded Windows Server 2012 Standard		
P2.n	5 years onsite comprehensive warranty		
S.NO	**TECHNICAL SPECIFICATION FOR PASSIVE COMPONENTS**		
	ITEM WISE SPECIFICATION		
A	**CATEGORY 6A Cable**		
A.1	Cat 6A Shielded Twisted Pair cable U/FTP or F/UTP		
A.2	Transmission frequency of 500 MHz		

	(Minimum)		
A.3	Should be 4 pair, 23 AWG		
A.4	Cable should be CM rated		
A.5	Jacket: LSZH (Low smoke zero halogen)		
A.6	Should be ETL verified (ETL certificate to be enclosed along with the bid)		
B	**FACE PLATE**		
B.1	Single Gang square plate, 86mmx86mm		
B.2	Plug in Icons – Icon tree – to be supplied with plate		
B.3	Write on labels in transparent plastic window – supplied with plate		
B.4	Material : ABS Plastic		
C	**INFORMATION OUTLET**		
C.1	Category 6A, EIA/TIA 568-C.2		
C.2	All shielded information outlets for 22-24 AWG copper		
C.3	Should be UL Listed/ETL verified		
D	**24 PORT JACK PANEL UNLOADED**		
D.1	Should Be made of cold rolled steel		
D.2	Should terminate 24 UTP CAT 6A (4 pair) Cables		
D.3	Should have integral cable management Metal shelf.		
E	**MOUNTING CORDS CAT 6A (0.5 , 1 ,2,3 METER)**		
E.1	Should be 4 Pairs 26 AWG copper cables.		
E.2	The Outer Jacket should be Low Smoke Zero Halogen		
E.3	26 AWG stranded bare copper or better		
E.4	Should be shielded		
F	**BRANCH OPTICAL FIBER CABLE ARMORED SINGLE MODE**		
F.1	Should be ISO.IEC 11801 - 2nd Edition and ITU-T REC G 652D		
F.2	Tube Identification : Single tube/Multitube		
F.3	Fibre protection(Tube) : Polybutylene Terephthalate (PBT)		
F.4	Water Blocking: Thixotropic Gel (Tube) and Petroleum Jelly (Interstices)		
F.5	Core Wrapping: Polyethylene Terephthalate		
F.6	Armouring : Corrugated Steel Tape Armour (ECCS Tape)		

F.7	Peripheral Strength Member: Two Steel wires/Two FRP rods/FRP Central Strength member		
F.8	Sheath : UV Stabilized Polyethylene (HDPE)		
F.9	Maximum Tensile Strength-Short Term: 1250 Newton or better		
F.10	Minimum Cores 8 or more		
G	**MAIN OPTICAL FIBER CABLE ARMORED SINGLE MODE**		
G.1	Should be ISO.IEC 11801 - 2nd Edition and ITU-T REC G 652D		
G.2	Tube Idenification: Multitube		
G.3	Fibre protection(Tube): Polybutylene Terephthalate (PBT)		
G.4	Water Blocking : Thixotropic Gel (Tube) and Petroleum Jelly (Interstices)		
G.5	Core Wrapping : Polyethylene Terephthalate		
G.6	Armouring : Corrugated Steel Tape Armour (ECCS Tape)		
G.7	Peripheral Strength Member: FRP Central Strength member		
G.8	Sheath: Double sheathed (HDPE)		
G.9	Maximum Tensile Strength-Short Term: 2650 Newton or Better		
G.10	Minimum Cores: 48 or more		
H	**LIU LOADED FOR 24 LC PORTS WITH SPLICE TRAY AND LC ADAPTORS**		
H.1	Have sufficient slots to accommodate 24 LC Ports in any form Single/Duplex/Quad/6 Pak adaptor Plate		
H.2	Should have fiber management provision inside		
H.3	Have earthing lugs and other accessories.		
H.4	Provide self-adhesive, clear label holders for labeling		
H.5	Should be rack mountable 1U		
H.6	Should have Separate Splice holder for minimum 24 Fiber cores and adapters to be included.		
H.7	Should be made of Cold Rolled Steel		
H.8	Blank Plates/Blanks to be included for filling vacant ports		
I	**LIU LOADED FOR 48 LC PORTS WITH SPLICE TRAY AND LC ADAPTORS**		
I.1	Have sufficient slots to accommodate 48		

	LC Ports in any form Single/duplex/Quad/6 Pak adaptor Plate		
I.2	Should have fiber management provision inside		
I.3	Have earthing lugs and other accessories.		
I.4	Provide self-adhesive, clear label holders for labeling		
I.5	Should be rack mountable 1U		
I.6	Should have Separate two numbers Splice holder for minimum 24 Fiber cores and adapters to be included.		
I.7	Should be made of Cold Rolled Steel		
I.8	Blank Plates/Blanks to be included for filling vacant ports		
J	**OPTICAL FIBER PIGTAILS SINGLE MODE LC**		
J.1	Precision ferrule end face geometry LC type		
J.2	Factory polished, tested and serialized.		
J.3	Buffer Diameter: 900um tight buffer		
J.4	Minimum bend radius: install: 30 mm		
J.5	Retention Strength: 100N		
J.6	Cable: 900um Tight Buffered		
K	**OPTICAL FIBER EQUIPMENT CORDS (MINIMUM 3 METER)**		
K.1	All optical fiber patch leads shall comprise of Single mode 9/125µm OS2 fiber LC -LC		
K.2	Jacket should be LSZH sheath		
K.3	Connector: Zirconia ceramic ferrule		
K.4	Cable: 9/125, SM Strength member: Aramid Yarn		
L	**CAT 6 OUTSIDE PLANT CABLE (OUTDOOR APPLICATION)**		
L.1	TYPE: 4 pair CAT 6 outdoor cable with Two Jackets Primary and secondary/Outside Plant armored cable with Grounding provision		
L.2	CONDUCTORS Wire gauge: 23 AWG solid copper		
L.3	CROSS FILLER: Star cross fillers to separate the individual pairs		
L.4	OPERATING TEMPERATURE: -40 Deg C to + 60 Deg C		
L.5	Should be suitable for outdoor installation		
M	**9U WALL MOUNT RACK**		
M.1	Racks manufactured out of MS sheet punched, formed, welded and Powder		

	coated		
M.2	Rack OEM should be ISO 14001-2004 Certified		
M.3	Standard for Racks configuration will be welded frame integrated with side panel and vented top cover		
M.4	Rack should have Front Toughened Glass Door with lock & Key and Back Cover		
M.5	Rack should have provision to mount racks on wall.		
M.6	Rack should be 550MM Width, 500MM Depth and should be of 9U Height.		
M.7	Rack should have Adjustable mounting depth,		
M.8	Rack should have Numbered U positions,		
M.9	Rack should have Proper Grounding & Bonding		
M.10	Rack should have Fan module Mount Provision on top Cover		
M.11	Rack should have 1 Nos. Cantilever Shelf for mounting NON Rack mountable Equipments		
M.12	Rack should have 1 Nos. of Power Distribution Units with 5/6 Nos. of Octagonal Universal Pin with 16A Rating and MCB		
M.13	Rack should have 1 Nos. Horizontal Cable Organizer with Plastic Loops.		
M.14	Rack should have provision for cable entry Exit from Both top & Bottom.		
M.15	Rack should have 1 Packet of Mounting hardware, Pack of 20		
N	**15U WALL MOUNT RACK**		
N.1	Racks manufactured out of MS sheet punched, formed, welded and Powder coated		
N.2	Rack OEM should be ISO 14001-2004 Certified		
N.3	Standard for Racks configuration will be welded frame integrated with side panel and vented top cover		
N.4	Rack should have Front Toughened Glass Door with lock & Key and Back Cover		
N.5	Rack should have provision to mount racks on wall.		
N.6	Rack should be 550MM Width, 500MM		

	Depth and should be of 15U Height.		
N.7	Rack should have Adjustable mounting depth,		
N.8	Rack should have Numbered U positions,		
N.9	Rack should have Proper Grounding & Bonding		
N.10	Rack should have Fan module Mount Provision on top Cover		
N.11	Rack should have 1 Nos. Cantilever Shelf for mounting NON Rack mountable Equipments		
N.12	Rack should have 1 Nos. of Power Distribution Units with 5/6 No. of Octagonal Universal Pin with 16A Rating and MCB		
N.13	Rack should have 1 No Horizontal Cable Organizer with Plastic Loops.		
N.14	Rack should have provision for cable entry Exit from Both top & Bottom.		
N.15	Rack should have 1 Packet of Mounting hardware, Pack of 20		
O	**27U RACK**		
O.1	Racks manufactured out of steel sheet punched, formed, welded and Powder coated		
O.2	Rack OEM should be ISO 14001-2004 Certified		
O.3	Standard for Racks configuration will be welded frame with side panel and vented top cover		
O.4	Rack should have Front Glass Door OR Convex Perforated Door and Metal Door OR Dual Perforated door at Rear.		
O.5	Rack should have 2 Nos. of removable side panel with slam latch.		
O.6	Rack should have provision to mount racks on Floor		
O.7	Rack should be 27U (1U=44.45 mm) in height.		
O.8	It should be 800MM Wide, 800MM Deep and Overall height 27U		
O.9	Rack should include adopter kit 1 no (loop type)		
O.10	Rack should Conforms to DIN 41494 or Equivalent EIA/ ISO/ EN Standard		
O.11	Rack should have Adjustable mounting		

	depth.		
O.12	Rack should have 4 Nos. adjustable, 19" verticals with punched 9mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.		
O.13	Rack should have Numbered U positions.		
O.14	Rack should have 100% assured compatibility with all equipments conforming to DIN 41494 (General industrial standard for equipments)		
O.15	Powder coated finish with seven Tanks pretreatment process meeting IS		
O.16	Rack should have Proper Grounding & Bonding		
O.17	Rack should have Fan module Mount Provision on top cover		
O.18	Rack should have Fan tray with 4 Nos. 90 CFM Fan		
O.19	Rack should have 1 No. Fixed Shelf with 565mm depth for mounting NON Rack mountable Equipments		
O.20	Rack should have 2 Nos. Power Distribution Units with 12 Nos. 5/15 Indian Round Pin with 32A Rating		
O.21	Rack should have provision for cable entry Exit from both top & bottom.		
O.22	Rack should have 1 Packet of mounting hardware, Pack of 20.		
P.	**42U RACK**		
P.1	The rack should be designed to provide secure store and stream line IT equipments.		
P.2	The unit should confirm to DIN 41494 or Equivalent EIA/ ISO/ EN Standard		
P.3	The Rack should have 2 Post, 6mm Tapped Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offering greater mounting flexibility, with numbered U positions.		
P.4	The Tapped hole should be Free from paint for Easy screw fixing Grounding of equipments.		
P.5	Rack OEM should be ISO 14001-2004 Certified.		

P.6	The OEM should include 100 Nos. of Mounting hardware for equipment fixing.		
P.7	Rack should have 8 Inch High density Vertical Cable Organizers		
P.8	Vertical Cable Organizer to be designed for High density cabling required to be mounted on floor.		
P.9	Vertical Cable Organizer to be double sided with minimum of 20 inch Depth for stability and handling volumes Cables		
P.10	The front and rear doors should be Dual Hinge to allow easy access and Detachable.		
P.11	Cable Organizer Fingers will be spaced as Per U Spacing of Open Rack		
P.12	OEM should provide Spool on 8 inch Onwards to Management of cable		
P.13	Centre member of Cable Organizer should have necessary Opening for cable movement from Front to Back Section and Punched hole s for Cable Dressing		
P.14	Cable Organizer should have Necessary Opening for cable movement from Front to Back Section and Punched hole s for Cable Dressing		
P.15	Rack should have two nos. of octagonal PDU Universal 6 socket		
Q	**1 KVA ON-LINE UPS SYSTEM**		
Q.1	Technology: True on-Line UPS with double conversion Microprocessor/DSP based technology and Generator compatible		
Q.2	Diagnostic Indications: Fully Automatic control for Battery low, Auto restart, Auto recovery from mains, Under voltage and Over voltage trip, Automatic return from bypass on recovery from overload requires no manual attention. Ready status and Fault diagnostics with LED/LCD display.		
Q.3	UPS Should be rack mount with standard back up		
Q.4	Warranty, Service & Support (Onsite) – 5 years including batteries. Complete set of batteries shall be replaced after 3 years irrespective of performance.		
R	**POLE FOR WIRELESS ACCESS POINTS**		
R.1	1.5" Pole 6 Mtr. GI (ISI mark) with Cable Hole at Bottom & Top and T Junction at Bottom including Fixing with Concrete		

	Foundation		
S	**HDPE PIPE**		
S.1	HDPE pipe should be permanently lubricated type with coefficient of friction between the pipe and OFC to the level of 0.06. The Specifications will be as under: Size 40/33 mm, (OD=40+0.4mm), Wall thickness=3.5mm, PE rating=80, PN rating 10.(Documentary proof to be submitted along with Bid)		

Annexure–IX

Financial Bid

(To be submitted online)

Ref. No. **Dated:**

S.No.	Product Description	Make and Model No.	UOM	QTY
1	Core Switch with associated accessory		Nos	02
2	Direct Attached Cables 40Gbps		Nos	04
3	Fiber Distribution Switch		Nos	03
4	Access Switch 24 Port		Nos	49
5	Access Switch POE+ 24 port		Nos	25
6	Direct Attached Cables 10Gbps		Nos	70
7	Access Switch 8 Port POE+		Nos	31
8	NMS as per the specs		Nos	01
9	10G LR SM Module @1310 nm		Nos	116
10	1G LX SM Module @1310 nm		Nos	70
11	1G Base T RJ 45 Module		Nos	10
Wireless				
12	Wireless Controller with associated accessories		Nos	02
13	Access Points – Outdoor		Nos	14
14	Access Points – Indoor		Nos	206

15	Access Points – Indoor (Residence)		Nos	47
Gateway Devices				
16	Unified Threat Management		Nos	02
17	Access Authorization and Authentication		Nos	01
Servers				
18	Server as per specs P1		Nos.	02
19	Server as per specs P2		No	01
Passive Material UTP				
19	Cat 6A Shielded Cable		Meter	76000
20	Cat 6A Patch Panel Unloaded with Rear Cable Manager		Nos	110
21	Cat 6A Information outlet		Nos	2700
22	Cat 6A Patch Cords 0.5 mtrs		Nos	500
23	Cat 6A Patch Cords 1.0 mtrs		Nos	160
24	Cat 6A Patch Cords 2.0 mtrs		Nos	1700
25	Cat 6A Patch Cords 3.0 mtrs		Nos	400
26	Face Plate with Back Box 3x3		Nos	1350
27	Cable Managers 1 U with plastic rings		Nos	110
28	Cat 6 Outside plant cable roll of 305 meters		Box	15
Fiber Material SM OS2				
29	Branch Optical Fiber Cable Armored Single Mode		Mtrs	12000

30	Main Optical Fiber Cable Armored Single Mode		Mtrs	1000
31	LIU loaded For 24 LC Ports with Splice tray		Nos	57
32	LIU loaded For 48 LC Ports with Splice trays		Nos	12
33	Pigtails Singlex SM LC		Nos	728
34	Patch Cords LC -LC SM 3 mtrs		Nos	190
Other Misc. Items				
35	Chamber 3x3 RCC ring type		Nos	30
36	HDPE pipe PLB 40 mm outer Dia and 33 mm inner Diaas per TEC Specs with accessories		Mtrs	9000
37	GI Pipe 50mm with accessories		Nos	500
38	PVC Pipe 32 mm ISI-Mark with accessories		Mtrs	20000
39	Rack 42U Open Frame with Accessories		Nos	02
40	Rack 27U		Nos	12
41	Rack 9U		Nos	33
42	Rack 15U		Nos	13
43	1 KVA Online-UPS		Nos	30
44	Pole (as per Specs)		Nos	10
Services				
45	Installation of Copper point on Cat 6A which includes termination, jack panel installation, testing, Feruling, Labeling, Dressing, Rack installation, switch mounting, AP		Nos	1380

	Mounting, Patching, Penta testing, Site Certification, documentation and conducting.			
46	Laying of Fiber		Mtrs	13000
47	Splicing Per Core with OTDR from Both Sides		Nos	888
48	Laying of HDPE Pipe (in Trenches/HDD/Wall/Roof)		Mtrs	9000
49	Installation of Chambers		Nos	30
50	High Density Drilling		Mtrs	8000
51	Trenching Soft/Hard Soil		Mtrs	600
52	Installation of GI Pipe		Mtrs	500
53	Other charges, if any			
	Total			
54	Additional Item			
55	Additional Item			

Note:

1. I/We have gone through the entire terms & conditions as stipulated in the tender enquiry document and confirm to accept and abide the same.
2. Tenderer may add and quote for additional items (with proper Justification) which they deem necessary to make the solution complete. While evaluating technical their justification may be considered and evaluated. Cost of additional items will not be included in the total price. If tenderer do not add any items then missing item (if any) shall be considered to be included in the bid.
3. No other charges would be payable by the Institute. The payments are on actual quantities or BoM whichever is lower.

4. Tenderer must clearly indicates in BoM, if more quantities are required. Financial Bids will be evaluated on these quantities as mentioned in **Annexure-IX.**
5. OEM part codes for support of each product should be quoted clearly.
6. All supplied OEM Products should accompanied with OEM test certificate mentioning the project name and technical specification and should be sign and stamped by OEM account manager responsible for NIPER SAS Nagar Project.
7. The Institute is registered with DSIR for duty free imports under duty exemption certificate and DSIR certificate will be provided, if required.

Date:

Authorized signatory with name and company seal

Place:

Annexure–X

UNDERTAKING OF RATES

(To be on company letter head and enclosed with the financial bid)

Dated:-

The Director,
National Institute of Pharmaceutical Education and Research,
Sector-67, S.A.S. Nagar-160062, Mohali, Punjab (INDIA).

We M/s _____ do hereby confirm that:

The rates quoted against this offer are lowest possible and as on date we have not quoted less rates to any other customer than the rates quoted herein. In case, we quote less rates than this offer to any other customer within 1 month of the due date of this offer, then double of the difference in amount will be refunded to Institute. We also confirm that in case our Company/principal officially reduce the price before the delivery or within 15 days from the date of delivery, then the benefit for the same will be passed to Institute.

Authorized Signatory(s) [In full and initials]: _____

Name and Title of Signatory(s): _____

Name of Bidding Company/Firm: _____

Address: _____

(Affix the Official Seal of the Bidding Company)

Annexure–XI

MANDATE FORM

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)/REAL-TIME GROSS SETTLEMENT (RTGS) FACILITY FOR RECEIVING PAYMENT

A. DETAIL OF ACCOUNT HOLDER:-

NAME OF ACCOUNT HOLDER	
COMPLETE CONTRACT ADDRESS	
TELEPHONE NUMBER/FAX/EMAIL	

B. BANK ACCOUNT DETAILS:-

BANK NAME	
BRANCH NAME WITH COMPLETE ADDRESS	
TELEPHONE NUMBER/FAX/EMAIL	
WHETHER THE BRANCH IS COMPUTERISED?	
WHETHER THE BRANCH IS RTGS ENABLED? (IF YES, THEN WHAT IS THE BRANCH`S IFSC CODE)	
IS THE BRANCH ALSO NEFT ENABLED?	
TYPE OF BANK ACCOUNT (SB/CURRENT/CASH CREDIT)	
COMPLETE BANK ACCOUNT NUMBER (LATEST)	
MICR CODE OF THE BANK	

DATE OF EFFECT:-

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the user Institution responsible. I have read the option

invitation letter and agree to discharge responsibility expected of me as a participant under the scheme.

(----------)

Signature of Customer

Date:

Certified that the particulars furnished above are correct as per our records.

(Bank`s Stamp)

(----------)

Signature of Customer

Date:

1. Please scan a photocopy of cheque along with the verification obtained from the bank.
2. In case your Bank Branch is presently not "RTGS enabled" then upon its up gradation to "RTGS Enabled" branch, please submitted the information again in the above proforma to the Department at earliest.

Check List for Submission of Bid

S. No.	Chapter / Annexure No.	Para/ Sub Clause No.	Particulars	Enclosed (Yes/ No)	Page No.
1.	Chapter 1	1.2	Tender Document Fee Details : (scanned copy) DD No.: Dated: Amount (Rs.):		
2.	Chapter 1		EMD Details: (scanned copy) DD No.: Dated: Amount (Rs.)		
3.	-------	1.1(I)	All pages of tender document as well as enclosures should be paged numbered and signed in token of having accepted all terms and conditions of tender document.		
4.	Chapter-1	1.1(C)	Financial statement certified by chartered accountant for the last three financial years as per tender documents.		
5.	Chapter 1	1.1(e)	Certificate of Existence of last 10 Years along with minimum 5 years in Networking Business		
6.	Chapter 1	1.1(f)	Documentary Proof of two OEM Certified Engineers (on Company Payroll)		
7.	Chapter-1	1.1(g)	Documentary proof for support facilities at Tri-City/NCR Region should be fully owned by the tenderer and managed by their permanent employees (company payroll) and not through franchisee(s).		
8.	Chapter-1	1.1(h)	Documentary proof for two successful order and acceptance of the same as per Tender Document		
9.	Chapter-1	1.1(s)	Undertaking for providing the services of recycling/reprocessing of electronic waste (e-Waste)		
10.	Annexure-I	-	Letter Authorizing the Representative to Attend Bid-opening has been enclosed.		
11.	Annexure-II	-	Declaration and certificate on non-participation of near relative in the tender.		
12.	Annexure-III	-	Details of the Firm offering this quote along with scanned copies of PAN /GIR No, TIN No. and Service Tax No.		
13.	Annexure-IV	-	Manufacturer's Authorization Letter to Agent		
14.	Annexure-V	-	Declaration Regarding Blacklisting/ Debarring for taking part in Tender		
15.	Annexure-VI	-	Certificate of Warranty		
16	Annexure-VIII	-	Technical Compliance Sheet		
17	Annexure-XI		Mandate Form (Electronic Clearing Service (Credit Clearing)/Real Time Gross Settlement (RTGS) Facility For Receiving Payment) ((enclosed with Technical bid)		

(All copies of the relevant documents required as per Tender document will be uploaded after signed and stamped, failing which the tender will be rejected.)

Date: **Seal and Signatory of Tenderer**

TERMINOLOGY USED IN THE TENDER DOCUMENT

The definitions of terms used in this document are as under.

a. The **Purchaser** means the Director NIPER S.A.S Nagar.
b. The **Bidder/Tenderer** means the individual, firm or company, whether incorporated or not, who participates in this tender and submits his/her/its bid, and shall include legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
c. The **Supplier/Contractor** means the individual, firm or company supplying the goods and services after finalization of the contract.
d. The **Goods** means all the materials that the contractor is required to supply to the purchaser under the contract.
e. The **Services** means all the jobs that the contractor is required to perform under the contract.
f. The **Advance Purchase Order** means the intention of the purchaser to place a Purchase Order on the successful the bidder.
g. The **Purchase Order** means the contract finalized by the purchaser and contractor, including all attachments and appendices thereto and all documents incorporated by reference therein.
h. The **Contractor** means the individual, firm or company, whether incorporated or not, undertaking the contract and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
i. The **Contract Price** means the price payable to the contractor under the agreement for the full and proper performance of his contractual obligations.
j. The **Validation** is a process of testing the equipment as per the tender specifications to ascertain proper functioning of the network.