

Maulana Azad

National Institute of Technology Bhopal- 462 003

(An Institution of National Importance under MHRD, Govt. of India)



E-TENDER DOCUMENT

FOR

*SUPPLY OF EQUIPMENTS, INSTALLATION, TESTING &
COMMISSIONING FOR REVAMPING OF INSTITUTE INTERNET
NETWORKING:PHASE-2*

Website www.manit.ac.in
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National Institute of Technology Bhopal- 462 003

(An Institution of National Importance under MHRD, Govt. of India)

No. MANIT/S&P/2018: 06

Date: 25/10/2018

NOTICE INVITING e-TENDER

Sub: Supply of equipments, installation, testing & commissioning for revamping of Institute Internet Networking: Phase-2

Maulana Azad National Institute of Technology (MANIT) is one of the leading institutions of national importance in the area of technical education, established with the objective of developing a “Centre of Excellence” in the central region. Its aim at becoming a multi-disciplinary Centre for technical education by strengthening both teaching and research activities besides contributing to the needs of rural community, society and industry at large.

Institute is fully funded by Ministry of Human Resource Development, Government of India and is governed as per provisions made under the National Institute of Technology, Science Education and Research Act 2007. (NITSER Act 2007).

E-Tenders in (two bid system) are invited for *supply of equipments, installation, testing & commissioning for revamping of institute internet networking: Phase-2*. Interested Manufacturers/Authorized Partner/Agencies may log on Institute website www.manit.ac.in for further details. Tender Document can only be downloaded after registration of bidder on the website <https://eprocure.gov.in/eprocure/app>.

Last date of receipt of complete tender document is 29/11/2018 up to 11.00 hours. The Director of the Institute reserves the right to accept or reject any or the entire tender in full or in part without assigning any reason whatsoever.

Registrar

Maulana Azad
National Institute of Technology Bhopal- 462 003

IMPORTANT INFORMATION AT A GLANCE	
e-Tender No & Date	No. MANIT/ S&P/2018:06 Date: 25/10/2018
Scope of Tender	<i>Supply of equipments, installation, testing & commissioning for revamping of institute internet networking:Phase-2</i>
Location of Supplies & Installation	MANIT- Bhopal & its premises.
Tender Document	Tender document can only be obtained free of cost after registration of bidder on the website: https://eprocure.gov.in/eprocure/app .
Date & Time of Pre-bid Meeting	19/11/2018 at 16:30 hours Institute Committee Room
Earnest Money Deposit (EMD)	Rs. 15,00,000.00 (Fifteen Lacs Only) by way of RTGS/NEFT or bank deposition only
Last Date & Time of Submission of Tender	29/11/2018 up to 11:00 hours
Date & Time of Opening of Technical Bids	30/11/2018 at 12:00 hours
Date & Time of Opening of Price Bids	Shall be informed after evaluation of Technical bid through website https://eprocure.gov.in/eprocure/app
Details of Contact Persons for Technical Query	
Dr. Praveen Kaushik Professor I/c- Networking 0755- 4051303 kaushikp@manit.ac.in	Shri H. S. Chouhan Senior Technical Assistant 0755- 4051322 hschouhan1@rediffmail.com
Details of Contact Person for Commercial Query	
Shri Prashant Bhatnagar Sr. Superintendant 0755-4051055 prashantmanit1@yahoo.co.in	Shri Harish Vaidya Asstt. Registrar- Stores & Purchase 0755- 4051040 harishvaidya@manit.ac.in

CHAPTER-I	
INSTRUCTIONS TO BIDDERS	
1	<p>Location of Supply & Installation:</p> <p>a MANIT- Bhopal & its premises.</p> <p>b Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (So far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The bidder should make a comprehensive site survey in order to learn existing backbone infrastructure of the Institute in a large perspective so that the procured components must be fully compatible with existing network infrastructure.</p>
2	<p>Scope of Supplies & Work:</p> <p>a The Networking equipments & accessories shall be supplied as per the Bill of Quantity (BoQ) ANNEXURE-3 and Technical Specifications mentioned in ANNEXURE-4.</p> <p>b The specifications of the networking equipments as mentioned in the ANNEXURE-4 are the requirements of tender, however higher specifications of networking equipments may be considered subject to their cost economics competitiveness in the financial terms for the particular location.</p> <p>c After the supply of networking equipments & accessories as mentioned in the ANNEXURE-3, the bidder has to execute its installation at the designated location(s) looking to synchronization and integrate seamlessly with MANIT existing networking infrastructure comprising of CISCO/Juniper or other make router, switches (core/ distribution/ access) Firewall, wireless controller, various type of WPN Links, devices, operating system/ Software etc. Scope of work include re-route of existing fiber laying (3km) as per diagram provided by MANIT with splicing (150 No.) to form double ring network in addition to bill of quantity annexure(3). No extra cost shall be paid for these reasons. Bidders are advised to survey the site before quoting price.</p>
3	<p>Delivery of Supplies & Installation:</p> <p>a The purchaser interested for complete delivery of networking equipments along with Installation by bidder within 90 days (Ninety) from the date of issue of supply order. However, the bidder has an option to submit the best delivery with installation time, but in any case that should be before 150 days (One hundred fifty) from the date of issue of supply of order by purchaser.</p> <p>b The material shall be inspected on receipt at site and bidder shall be responsible for any damage during the transit of networking Equipments.</p> <p>c The insurance cover including insuring the goods against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery/ installation shall be obtained by bidder in his own name and not in the name of purchases. The purchaser will as soon as possible but not late than 45 days</p>

		(forty five) from the date of arrival of goods at destination shall notify the bidder of any loss or damage to the goods.		
4	Warranty & After Sales Services:			
	a	The bidder shall offer on-site comprehensive warranty of networking equipments for 05 years (Five) from the date of successful commissioning of equipments at the designated location & shall cover each and every part of the equipments including parts having limited life etc. The purchaser is not liable to pay any extra charges on any account during warranty period.		
	b	The bidder shall pay to the purchaser such compensations that may arise by reasons of the warranty there in contained but not attended by the bidder.		
	c	Any part or parts fail or proved defective within the on-site warranty period specified above, owing to defect in design, material or workmanship, the bidder shall have to replace them at the place of installation without asking for any charges.		
	d	During the warranty period, expert(s) shall be deputed at site by the bidder within three working days from the date of request from purchaser, to rectify and fixing the defects of equipments at the location where equipments installed. The cost of deputation of expert(s) and any other associated expenditure shall be borne by the bidder.		
	e	The bidder shall ensure to render after sales services during the warranty period to the satisfaction of purchaser.		
	f	The bidder should ensure to extend service & spare support at least for 03 years, after the specified warranty period at separate commercial terms mutually agreed upon.		
	g	The bidder will depute their engineer (s) within three working days to attend the service call received from purchaser.		
5	Tender & its Clarification:			
	a	The tender document can only be downloaded free of cost after registration of bidder on website: https://eprocure.gov.in/eprocure/app between start date and end date of tender.		
	b	A prospective bidder requiring clarification on the tender document may notify to the Professor I/c-Networking in writing, well before the due date of submission of bids, and a response will be sent in writing to the clarifications sought prior to the date of opening of the tenders after obtaining approval from competent authority.		
6	Amendment & Corrigendum:			
	a	At any time prior to the date submission of bids, the Purchaser, may, for any reason, whether at its own initiative or in response to a clarification sought by a prospective bidder, amend bid document by issuing corrigendum.		
	b	The corrigendum will be notified/ published in e-tendering website https://eprocure.gov.in/eprocure/app & Institute website only. Any corrigendum, addendum etc issued shall be part of this tender document and shall be made available on this e-tending portal.		
	c	In order to afford prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser may, at its discretion, extend the last date for the receipt of bids if required.		
7	Earnest Money Deposit:			
	a	The EMD of Rs. 15,00,000.00 (Fifteen Lacs Only) shall be remitted through RTGS/NEFT/ Bank deposition into Institute bank account as under:		
	Account Name	Bank Name	Bank A/c No.	Bank IFS Code

	Director MANIT Bhopal	State Bank of India	10020150107	SBIN0001608
	The bidder is instructed to submit the RTGS/ NEFT/ Bank deposition slip in along with Technical Bid to prove the transfer of payment to the purchaser's Account. The offers without EMD from the bidders shall be rejected.			
	b	The Purchaser shall not be liable for payment of any interest on EMD.		
	c	Any request by the bidders to consider their EMD already furnished by them to any of the other office of the purchaser, for any other contract/ tender will not be considered as EMD for this tender.		
	d	The EMD will be returned to the unsuccessful bidders soon after the orders are placed on the successful bidder.		
8	Submission of Tender :			
	a	The copies of the bid document shall be signed by owner or an authorized person with rubber stamp.		
	b	The person signing the tender form or any other documents on behalf of the bidder shall be deemed to warrant that he has authority to bind the bidder. If it subsequently comes to light that the person so signed had no authority to do so, the purchaser may without prejudice to any other civil & criminal remedies cancel the tender and hold the bidder liable for all costs, charges and damages.		
	c	The bidder is expected to examine all instructions, Forms, Terms & Conditions and Specifications in the tender document and to furnish with its bid all documents or information as required in tender document through e-tendering website i.e. https://eprocure.gov.in/eprocure/app . No documents shall be submitted in hard copy (s).		
	d	The bidder is instructed to give their online offer through two bid system for this tender. i.e. Technical Bid and Price Bid.		
	e	The Technical bid cover shall include/ certain all technical details & technical specifications, and also the commercial documents as mentioned in tender document for the supplies to be made and the services to be rendered EXCLUDING ANY PRICE DETAILS THEREOF.		
	f	The Price bid cover shall certain only prices of the equipments offered for supply and the charges for the services to be rendered.		
	g	Tenders received in open covers/ letters/ fax/ email will not be considered.		
	h	Complete & concise bids (Technical & Price) must be uploaded on the website https://eprocure.gov.in/eprocure/app within the stipulated time frame of the tender.		
	i	The Institute may, at its discretion, extend the deadline for the submission of bids by amending the tender documents, in which case all rights and obligations of the Institute and bidders previously subject to the deadline shall thereafter be subject to the deadline as extended. The prospective bidders are advised to remain in touch with website for any update in respect of their tender.		
9	Technical Bid Submission:			
	Bidder should submit following documents sequentially duly signed along with technical bid:			
	a	ANNEXURE-1 & 2 duly filled & signed.		
	b	ANNEXURE-3 & 4 duly signed and accepted.		
	d	ANNEXURE-6 undertaking for participation.		
	e	Copy of Certificate of Registration of Company/ firm/ Agency.		
	f	Copy of valid GST Number and Income Tax PAN & TAN both.		
	g	Proof of RTGS/ NEFT/ Bank deposition slip of Rs. 15,00,000.00 (Fifteen Lacs		

		Only) towards Earnest Money Deposit.
	h	Copies of Purchase order/ work Completion certificate from any Central/State government organizations, PSU's, Universities, Hospitals, Government research Institute or other government organizations in India during the last 5 years ending 31st March, 2018.
	i	ANNEXURE-7 Authorization Certificate from Original Equipment Manufacturer for Active components.
	j	Authorization Certificate from Original Equipment Manufacturer for Passive Components.
	k	Copy of Profit & Loss Account / Chartered Accountant Certificate of last three years for assessing turnover.
	l	Copy valid ISO certificate from OEM & bidder both.
10	Price Bid Submission:	
	a	The bidder would have to quote the prices for the total scope of work in the ANNEXURE-5 . Partial quote are liable to be rejected.
	b	Purchaser (being a research Institution) is registered with the Department of Scientific & Industrial Research (DSIR) for the purpose of availing custom duty exemption in terms of GoI Notification No. 51/96-Customs dated 23 July 1996. The bidder should quote their prices considering the exemption certificate. If any certification needed by bidder, may be given to avail this benefit. In case of goods being of foreign origin, bidder is free to quote in Indian INR or foreign currency or both. In case of foreign currency, quoted price shall be of CIF basis. Further, for conversion RBI notified rate on date of price bid shall be applicable.
	c	The bidder shall take into account all costs including unloading at the location of purchaser, cartage etc. for giving delivery of material at site(s) before quoting the rates. In this regard no claim what so ever shall be entertained.
	d	The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted unit prices. Discount of any type, indicated separately, will not be taken into account for evaluation purpose. However, in the event of such an offer, without considering discount, is found to be the lowest, the purchaser shall avail such discount at the time of award of contract.
	e	The price quoted in price bid shall be firm but subject to change in rate of applicable taxes if any.
	f	No extra payment shall be paid on account of any discrepancy in nomenclature of items. The bidder shall seek clarifications if any before submitting the tender.
	g	No representation for the enhancement of the prices of the accepted tender or alteration of the terms and conditions will be entertained till supplies are completed to the designated location.
11	Opening of Technical & Price Bid	
	a	The Technical Bid of tenders will be opened on 30/11/2018 at 12.00 hours.
	b	The Price bid of only technically qualified bidders will be opened on the stipulated due date. The date & time for opening of Price Bid shall be intimated to the technically qualified bidders through website https://eprocure.gov.in/eprocure/app or telephonically or email, after the evaluation of Technical Bid.

12	Withdrawal & re-submission:	
	a	The bidder, after submitting the tender, is permitted to withdraw and re-submission as per laid down the procedure given on Government CPPP up to the date and time of the tender through on-line only. Any such request received after prescribed date and time of receipt of tender will not be considered. No bid shall be withdrawn in the interval between the deadline for submission of bids and expiration of the period of bid validity. Withdrawal of bid during this period will result in forfeiture of the bidder's EMD and imposition of other sanctions.
13	Evaluation of Bids:	
	a	If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected.
	b	If there is an error in a total corresponding to the addition or subtraction of sub totals, the subtotals shall prevail and the total shall be corrected.
	c	If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
	d	To assist in the examination, evaluation, comparison of the bids and qualification of the bidders, the purchaser may, at its discretion, ask any Bidder for a clarification of its bid. Any clarification submitted by a bidder in respect to its Bid and that is not in response to a request by the purchaser shall not be considered. The purchaser's request for clarification and the response shall be in writing only.
	e	If a bidder does not provide clarifications of its bid by the date and time set in the purchaser's request for clarification, its bid may be rejected.
	f	The purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to supply order, without thereby incurring any liability to bidders. In case of annulment, all bids submitted and specifically bid document, EMD deposits shall be promptly returned to the bidders.
	g	The purchaser shall compare the evaluated prices of all substantially responsive bids to determine the lowest evaluated bid for a particular location. The comparison shall be on the basis of landed cost at individual destination.
	h	At the time the contract is awarded, the purchaser may increase the quantity of Equipments without any change in the unit prices or other terms & conditions of the bid and the bidding documents subject to the acceptance of bidder in writing for the same.
	i	The purchaser have right to verify the particulars furnished by the bidder independently.
14	Validity of Tender:	
	a	The tender shall be valid for a period of 90 days from the date of opening of the Technical Bid of tender. Terms and financial details submitted in the bid shall be treated as firm during the 90 days period.
	b	In exceptional circumstances, prior to the expiry of the bid validity period, the purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing.

15	Causes of rejection of Tender:	
	a	The bidder must be a single company, consortium will not be allowed.
	b	While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected.
	c	If any bidder stipulates any condition of his own, such conditional tender is liable to be rejected.
16	Forfeit of Earnest Money Deposit:	
	a	If any bidder withdraws his tender before the period of 90 days from the date opening of Technical Bid or makes any modifications in the terms and the conditions of the tender which are not acceptable to the purchaser, then the purchaser shall, without prejudice to any other rights or remedy, be at liberty to forfeit the EMD.
	b	The EMD will also be forfeited in following cases: <ul style="list-style-type: none"> i. If the bidder fails to accept the order based on his offer (bid) and within the prescribed time. ii. If the bidder fails to supply the Equipments with specifications as mentioned in Annexure –3 & 4 iii. If the bidder delays supplies beyond a reasonable time resulting in disruption of project. iv. Bidder for any reason whatsoever withdraws the tender after it is accepted or become unable or fails to execute the orders within stipulated delivery period. v. Submission of misleading/contradictory/false statement or information and fabricated/invalid documents is detected before or after the issue of order to execute the supplies.
17	Notification of Award:	
	a	Prior to the expiry of the period of bid validity, the purchaser shall notify the successful bidder, in writing, that its bid has been accepted. The notification letter shall specify the sum that the purchaser will pay to the bidder in consideration of the supply of equipments, installation, testing & commissioning for revamping of institute internet networking with the details of selected location.
18	Packing of Equipments:	
	a	The bidder shall provide packing of the equipments, as is required to prevent their damages or deterioration during the transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit. In case the consignment received with damaged packaging, the purchaser would not accept the delivery.
	b	The equipments shall be securely boxed, crated and protected from mechanical damage, moisture etc. suitable for both storage and transit according to the nature of the material and mode of transport. The bidder shall be responsible for any loss/ damage to material during transportation to the designated location.
19	Time Limit for Supply of Equipments, Installation, & Commissioning:	
	a	The bidder shall indicate the period within which the ordered quantity will be supplied along with Installation & Commissioning of Equipments. The bidder shall note that in case bidder fails to do so within the period of delivery indicated by the bidder in Technical Bid of this tender, penalty @ 1.00% of value of the order per week of delay would be levied subject to maximum 20

		weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 20 weeks after expiry of scheduled delivery date. After that the supply order shall be cancelled and EMD will be forfeited and bidder will be debarred from participation in any future tenders.
	b	The successful Bidder shall, within a week from the date of receipt of communication of acceptance of quotes from purchaser shall intimate his acceptance of the order. The successful bidder shall complete supplies strictly as per the accepted delivery period.
20	Terms of Payment:	
	a	The 60% payment of total bill will be made by purchaser after supply and installation of networking equipments along with proper laying of cable upon inspection report signed by Committee.
	b	Remaining 40% payment of total bill along with EMD deposit will be released to bidder after one month from the date of installation of networking equipments on submission Security Deposit of 10% total work order value for a period of five years by way of Bank Guarantee/ FDR/DD.
	c	All the payment to bidder shall be made by crossed account payee Cheque/ RTGS/ NEFT for which the bidder shall send bills in duplicate (Original + copy) giving the reference number of the purchase order along with copies of delivery note & satisfactory report on the Installation of networking Equipments, from Networking committee of the institute. The details about the authorized person to take the delivery of networking equipments shall be informed to the successful bidder through the supply order placed for the supply of networking equipments
21	Claims:	
	a	If the specification of supplied networking equipments are found to be lower than those stipulated in the accepted offer, the purchaser shall have right to totally reject the supplied networking equipments to claim for compensation from bidder. The bidder shall reimburse to purchaser, the claim lodged in writing within 15 (fifteen) days of its demand. The bidder shall also compensate for losses, if any, sustained by purchaser due to defective packing and/or wrong marking of the networking equipments.
	b	The bidder shall be responsible for arranging the rejected networking equipments to be removed at his cost from purchaser premises.

CHAPTER-II	
ELIGIBILITY & QUALIFICATION CRITERIA	
1	The bidder should be a Company/Partnership firm/ Proprietary firm/ Agency with registered office in India and operation from at least 05 (Five Years) as on 31/03/2018
2	The Original Equipment Manufacturers (OEM) and bidder both must have ISO certification for their establishment. The copy of the valid ISO Certificate shall be attached with the Technical Bid.
3	The average financial turnover during the last three consecutive financial years should be at least Rs. 25,00,00,000.00 (Twenty five Crores) per year and should have positive net worth. Relevant supporting document like Profit & Loss Account/ CA certification must be submitted.
4	The EMD of Rs. 15,00,000.00 (Fifteen Lacs Only) shall be remitted through RTGS/NEFT/ Bank deposition into Institute bank account.
5	The bidder must have Income Tax PAN & TAN and GST Number. Copy of the same shall be attached.
6	The bidder should have experience in successfully execution/ executing work of similar nature during last 05 (five) years in any Central/State government organizations, PSU's, Government research Institute or other government organization in India. (Bidder must submit copy of PO/Work Completion Certificate from the Client in following manner. <ul style="list-style-type: none"> 1. One similar work costing not less than 05 Crores. OR 2. Two similar work costing not less than 3.5 Crores. OR 3. Three similar work costing not less than 2.5 Crores.
7	The bidder should be OEM or Authorized Dealer/Distributor/System Integrator of the OEM of the offered product. Authorization Letter from OEM specific to this tender need to be submitted.
9	All active networking components (Switches, Wireless Access points, SFP etc.) shall be from same OEM. Similarly, all passive components (Fiber, cable, IO box, LIU etc. shall be from one OEM.
10	The bidder/ OEM must have its own service/ support centre round the clock (24*7) for attending complaints / suggestions
11	The bidder should have a clean Track record, i.e. The Bidder should not have been black listed by any Govt. or Quasi- Govt/ Govt. Under taking companies in India at any point of time.
12	The bidders who have refused to execute any work order issued by MANIT in the past are disqualified from participating in this tender.
13	Bidder must have qualified & certified network Engineers/ Technician for implementation on their roll. No bidder is allowed to sub-contract any part of the work to any firm/party.

CHAPTER-III	
GENERAL CONDITIONS OF CONTRACT	
1	Abbreviations & Acronyms:
a	Abbreviations & Acronyms and Definitions used in this tender document shall be in accordance with GFR 2017 and Manual for procurement of Goods 2017.
2	Language of Bids:
a	The bids prepared by the bidder and documents relating to the bids exchanged by the bidder and the Purchaser, shall be written in the English language only. Moreover, the printed literature/Technical details may be furnished in English/Hindi.
3	Standards of Performance:
a	The bidder shall perform the Services and carry out its obligations under the contract with due diligence, efficiency and economy, in accordance with generally accepted techniques and practices used in the industry and with professional engineering and consulting standards recognized by international professional bodies and shall observe sound management, engineering practices. It shall employ prudent technical and engineering practices. It shall employ advanced technology and safe and effective equipment, machinery, material and methods. The bidder shall always act, in respect of any matter relating to this contract, as faithful advisors to the client and shall, at all times, support and safeguard the client's legitimate interests in any dealings with third Parties.
4	Force Majeure:
a	In the event of any unforeseen circumstances directly interfering with the supply of goods/work/service arising during the execution of order such as war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, floods, earthquakes, explosions, epidemics, quarantine restrictions, strikes, lockouts, or acts of God, the bidder shall, within a week from the commencement thereof, notify the same in writing to the Purchaser with reasonable evidence thereof. Either party shall have the option to terminate the contract on expiry of 90 days of commencement of such force majeure by giving 14 days "notice to the other party in writing. In case of such termination, no damages shall be claimed by either party against the other.
5	Code of Ethics:
a	The purchaser as well as the Bidder shall observe the highest standard of ethics including laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988", during the Supply & Installation or execution of such contracts. If the bidders are found in bid pooling or against law against fraud and corruption then their firms may be blacklisted.
6	Address for communication:
a	All the communication with respect to the tender shall be addressed to: The Professor I/c- Networking Computer Science Engineering Department Maulana Azad National Institute of Technology- Bhopal- 462 003
7	Jurisdiction:
a	In the event of any dispute the legal matter shall be subjected to the jurisdiction of Bhopal court only.

**BIDDER INFORMATION
FORM**

	Name of Agency→			
	Registered Complete Address→			
Year of Establishment→				
Type of Agency→ Company / Partnership Firm/ /Proprietary Firm/				
Name of Owner / Authorized Person→				
Contract No with e-mail ID→				
Details of Statutory compliances and its valid Numbers:				
SN	Particular	Number	Remarks	
1.	Bidder's Registration Gumasta License →			
2.	Income Tax PAN→			
3.	Income Tax TAN→			
4.	GST Number→			
Details of Bank Account :				
Beneficiary Name				
Bank Name		Branch		
Account Number		IFSC		

DECLARATION

It is certified that the information furnished in this form is complete and correct to the best of our knowledge & belief.

Signature of authorized Person and Seal

		ANNEXURE- 2	
PRIMARY COMMERCIAL COMPLIANCE STATEMENT			
Ref:	Tender Document No: S&P/2018/06 dated 25/10/2018		
SN	Institute Requirement as per tender document	Compliance	Deviation if any
		Yes/ No	
1	Copy of Certificate of Registration of Company/ Firm/ Agency		
2	Copy of valid PAN & TAN and GST No:		
4	EMD of Rs. 15,00,000.00 (Fifteen Lacs only)		
5	Undertaking for participation ANNEXURE-6		
6	Authorization Certificate from Original Equipment Manufacturer for components ANNEXURE-7		
7	Authorization Certificate from Original Equipment Manufacturer for Passive Components(ANNEXURE-7)		
8	Copy valid ISO certificate OEM and Bidder		

Details of all ongoing & completed contracts during the last three years as per eligibility & qualification criteria in Chapter-II. (Copies of Purchase order / Work Completion Certificate must be attached)					
SN	Name of the organization with address	Period of Contract		Nature of Work	Value of Contract
		From	To		
1					
2					
3					
4					
5					
Details of financial Turnover during last three year Rs. 25,00,00,000.00 (Twenty five Crores Only) (Please attach copy of P&L Accounts/ CA Certificate)					
Financial Year		Amount (in Lakhs)		Remarks, if any	
2016-17					
2015-16					
2014-15					

Seal & Signature of Bidder

Bill of Quantity

Ref: Tender document No: S&P/2018/06 dated: 25/10/2018

Item No	Description of Item	Quantity	Technical Specification reference
1(a)	L2 Access Switch 48-port <ul style="list-style-type: none"> The switch should support 2x10 Gigabit Ethernet Uplinks Lifetime warranty with RMA support from the OEM. 	70 nos.	Annexure 4(a) enclosed
1(b)	L2 access switch 24-port <ul style="list-style-type: none"> The switch should have a minimum of 2 SFP+ Uplinks Lifetime warranty with RMA support from the OEM. 	100 nos.	Annexure 4(b) enclosed
1(c)	L2 access POE switch 24-port <ul style="list-style-type: none"> The switch should have a minimum of 2 SFP+ Uplinks Lifetime warranty with RMA support from the OEM. 	75 nos.	Annexure 4(c) enclosed
1(d)	Wireless Access point including power supply adapter with license <ul style="list-style-type: none"> Lifetime warranty with RMA support from the OEM. 	425 nos.	Annexure 4(d) enclosed
1(e)	1 Gig Single Mode SFP	130 nos.	Annexure 4(e) enclosed
1(f)	Split AC 2 Ton with voltage stabilizer 5 year warranty	04 nos.	Annexure 4(f) enclosed
1(g)	Server With 5 year warranty and onsite support	01 no.	Annexure 4(g) enclosed
1(h)	Online 2 KVA UPS with battery with electrical wiring ,switch and socket as desired	12 no.	Annexure 4(h) enclosed
1(i)	Online 5 KVA UPS with battery with electrical wiring ,switch and socket as desired	01 nos.	Annexure 4(i) enclosed
2	Passive Components with Five Years warranty		Annexure 4(j) enclosed
2-i(a)	24- port Patch Panel	96 nos.	
2-i(b)	24- port Patch Panel installation & labor charge	96 nos.	
2-ii(a)	CAT-6 Cable (305 meter box)	230 box	
2-ii(b)	CAT-6 Cable Laying, installation & labor charge (in meter)	70150 meter	
2-iii(a)	I/O Box	2300 nos.	
2-iii(b)	I/O box installation & labor charge	2300 nos.	
2-iv.	Fiber Patch Cord SC-LC	50 nos.	
2-v.	CAT-6 Patch Cord 1 meter	2300nos.	

2-vi(a).	Casing & Capping 1”	6000 Meter	
2-vi(b)	Casing & Capping 1” installation & labor charge (in meter)	6000 meter	
2-vii(b)	Casing& Capping 2”	2000 meter	
2-vii(b)	Casing& Capping 2” installation & labor charge (in meter)	2000 meter	
2-viii (a).	Casing & Capping 4”	2500 meter	
2-viii(b)	Casing & Capping 4” installation & labor charge(in meter)	2500 meter	
2-ix(a)	Fully Loaded Rack 9U	55 nos.	
2-ix(b)	9U Rack installation & labor charge	55 nos.	
2-x(a)	Fully Loaded Rack 12U	08 nos.	
2-x(b)	12U Rack installation & labor charge	08 nos.	
2-xi(a)	Fully loaded Rack 18U	08nos.	
2-xi(b)	18U Rack installation & labor charge	08 nos.	
2-xii(a)	Fully loaded LIU 6-port	15 nos.	
2-xii(b)	6 port fully loaded LIU installation & labor charge	15 nos.	
2-xiii(a)	Fully loaded LIU 12-port	12 nos.	
2-xiii(b)	12 port fully loaded installation & labor charge	12 nos.	
2-xiv(a)	12 Core 9/125 SM Fiber cable	3000 meter	
2-xiv(b)	12 Core 9/125 SM Fiber cable laying, splicing, installation and labor charge (in meter) with helix angle and fiber ring	3000 meter	
2-xv(a)	6 Core 9/125 SM Fiber cable	4000 meter	
2-xv(b)	6 Core 9/125 SM Fiber cable laying, splicing, installation and labor charge (in meter) with helix angle and fiber ring	4000 meter	
2-xvi	RJ 45 Connector	21 Box	
2-xvii.	Wire laying channel	200 meter	
2-xviii.	Cable manager	200	
2-xix	Electrical modular board	38	
2-xx	Fiber splicing for shifting existing network	100 nos.	
2-xxi	Fiber Patch Cord SC-SC	20 nos.	
2-xxii	Fiber Patch Cord LC-LC	20 nos.	
2-xxiii (a)	Fully loaded LIU 96-port	02 nos.	
2-xxiii (b)	96 port fully loaded LIU installation & labor charge	02 nos.	
2-xxiv	Iron grilled Cage with lock	425	
3-i	Smart 49/55” TV	01	Annexure 4(k) enclosed
Note:			
1	All the Equipments/Accessories/Components/ Software/ License which are provided by default by the manufacturer must be supplied along with the devices.		
2	Five years (05) on-site warranty is required to cover all devices.		

Details of Technical Specifications of Networking Equipments
(Active & Passive Both)

Ref: Tender document No: S&P/2018/06 dated: 25/10/2018

Annexure 4(a)

L2 access switch 48-port

SN	Generic Requirement Compliance	Compliance (Yes/No)	Make & Model No	Specification/Data Sheet/ brochure, if any
1	Make / Model Proposed			
2	The wireless Access Points and Switches as asked in the RFP should be from the same OEM			
3	The switch should have a minimum of 48 nos. 10/100/1000 Ethernet Ports			
4	The switch should have a minimum of 2 SFP+ Uplinks			
5	The switch should support a total of 50 Ports			
6	The switch should support Forwarding bandwidth of 100 Gbps or more			
7	The switch should support Full-duplex Switching bandwidth of 200 Gbps or more			
8	The switch should support 64-Byte Packet Forwarding Rate of 130 Mpps or more			
9	The switch should support a Dual Core CPU			
10	The switch should support 512 MB of DRAM			
11	The switch should support 4096 VLAN IDs			
12	The switch should support 16000 Uni-cast MAC addresses or more			
13	The Switch should be 1RU			
14	The switch should have Stacking support of up to 8 switches with dedicated stacking port along with necessary cables			
15	Stacking should support 80 Gbps or more of throughput			
16	The switches should support Software defined network approach for building up campus wide network automation			

17	The should support capability to allow users on Wired mediums to be assigned to an unique Security Group across the network.			
18	The switches support ability for automation with plug and play application			
19	The switches should minimum have following features for automation support Full Flexible NetFlow, Plug-and-Play, Discovery, Management, Inventory, Topology visualization, software image management, Device 360.			
20	The switch should support IEEE 802.1D Spanning Tree Protocol, IEEE 802.1p, IEEE 802.1Q Trunking, IEEE 802.1s Multiple Spanning Tree (MSTP), IEEE 802.1w Rapid Spanning Tree (RSTP)			
21	The switch should support IEEE 802.1x, IEEE 802.1ab (LLDP), IEEE 802.3ad Link Aggregation Control Protocol (LACP)			
22	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors			
23	The switch should support IEEE 802.1Q VLAN encapsulation			
24	The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically			
25	The switch should support Spanning-tree root guard to prevent other edge switches becoming the root bridge.			
26	The switch should support IGMP filtering			
27	The switch should support discovery of the neighboring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.			
28	The switch should support Per-port broadcast storm control to prevent faulty end stations from degrading overall systems performance			
29	The switch should support Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN			
30	The switch should support Local Proxy Address Resolution Protocol (ARP) working in conjunction			
31	The switch should support Configurable IGMP Leave Timer			

32	The switch should support IPv4 uni-cast Static Routing			
33	The switch should support 16 IPv4 Static routes or more			
34	The switch should support diagnostic commands to debug issues			
35	The switch should support system health checks within the switch			
36	The switch should support 4 egress queues per port to enable differentiated management			
37	The switch should support scheduling techniques for Qos			
38	The switch should support Weighted tail drop (WTD) to provide congestion avoidance			
39	The switch should support Standard 802.1p CoS field classification			
40	The switch should support Differentiated services code point (DSCP) field classification			
41	The switch should support Control- and Data-plane QoS ACLs			
42	The switch should support Strict priority queuing mechanisms			
43	The switch should support Rate Limiting function to guarantee bandwidth			
44	The switch should support rate limiting based on source and destination IP address			
45	The switch should support rate limiting based on source and destination MAC address			
46	The switch should support rate limiting based on Layer 4 TCP and UDP information			
47	The switch should support availability of up to 256 aggregate or individual polices per port or more.			
48	Switch should support 802.3az for energy efficient ethernet			
49	The switch should support 802.3az standard for Energy Efficient Ethernet for reducing power consumption.			
50	The switch should support IEEE 802.1x to allow dynamic, port based security, providing user authentication.			
51	The switch should support Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.			
52	The switch should support SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.			
53	The switch should support TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.			

54	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.			
55	The switch should support Port security to secure the access to an access or trunk port based on MAC address.			
56	The switch should support Multilevel security on console access to prevent unauthorized users from altering the switch configuration.			
57	The switch should support Private VLAN			
58	The switch should be on the approved list of IPv6 Ready Logo & USGv6			
59	The switch should support IPv6 uni-cast Static Routing			
60	The switch should support IPv6 MLDv1 & v2 Snooping			
61	The switch should support TACACS+ over IPv6			
62	The switch should support NTPv4 over IPv6			
63	Flexibility and scalability of flow data beyond traditional Net- Flow which can improve network anomaly and security detection			
64	The OEM should be in Leaders Quadrant in the latest - Wired and Wireless LAN Infrastructure 2017			
65	The proposed Switch should come with Lifetime warranty with Return Merchandise Authorization (RMA) support from the OEM.			
66	The proposed switches should be from same OEM as of Wireless Access Point			

				Annexure 4(b)
		L2 access switch 24-port		
SN	Generic Requirement Compliance	Compliance (Yes/No)	Make and Model No.	Specification/Data Sheet/brochure, if any
1	Make / Model Proposed			
2	The wireless Access Points and Switches as asked in the RFP should be from the same OEM			

3	The switch should have a minimum of 24 nos. 10/100/1000 Ethernet Ports			
4	The switch should have a minimum of 2 SFP+ Uplinks			
5	The switch should support a total of 26 Ports			
6	The switch should support Forwarding bandwidth of 100 Gbps or more			
7	The switch should support Full-duplex Switching bandwidth of 200 Gbps or more			
8	The switch should support 64-Byte Packet Forwarding Rate of 90 Mpps or more			
9	The switch should support a Dual Core CPU			
10	The switch should support 512 MB of DRAM			
11	The switch should support 4096 VLAN IDs			
12	The switch should support 16000 Uni-cast MAC addresses or more			
13	The Switch should be 1RU			
14	The switch should have Stacking support of up to 8 switches with dedicated stacking port along with necessary cables			
15	Stacking should support 80 Gbps or more of throughput			
16	The switches should support Software defined network approach for building up campus wide network automation			
17	The should support capability to allow users on Wired mediums to be assigned to an unique Security Group across the network.			
18	The switches support ability for automation with plug and play application			
19	The switches should minimum have following features for automation support Full Flexible NetFlow, Plug-and-Play, Discovery, Management, Inventory, Topology visualization, software image management, Device 360.			
20	The switch should support IEEE 802.1D Spanning Tree Protocol, IEEE 802.1p, IEEE 802.1Q Trunking, IEEE 802.1s Multiple Spanning Tree (MSTP), IEEE 802.1w Rapid Spanning Tree (RSTP)			
21	The switch should support IEEE 802.1x, IEEE 802.1ab (LLDP), IEEE 802.3ad Link Aggregation Control Protocol (LACP)			
22	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors			
23	The switch should support IEEE 802.1Q VLAN encapsulation			

24	The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically			
25	The switch should support Spanning-tree root guard to prevent other edge switches becoming the root bridge.			
26	The switch should support IGMP filtering			
27	The switch should support discovery of the neighbouring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.			
28	The switch should support Per-port broadcast storm control to prevent faulty end stations from degrading overall systems performance			
29	The switch should support Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN			
30	The switch should support Local Proxy Address Resolution Protocol (ARP) working in conjunction			
31	The switch should support Configurable IGMP Leave Timer			
32	The switch should support IPv4 uni-cast Static Routing			
33	The switch should support 16 IPv4 Static routes or more			
34	The switch should support diagnostic commands to debug issues			
35	The switch should support system health checks within the switch			
36	The switch should support 4 egress queues per port to enable differentiated management			
37	The switch should support scheduling techniques for QoS			
38	The switch should support Weighted tail drop (WTD) to provide congestion avoidance			
39	The switch should support Standard 802.1p CoS field classification			
40	The switch should support Differentiated services code point (DSCP) field classification			
41	The switch should support Control- and Data-plane QoS ACLs			
42	The switch should support Strict priority queuing mechanisms			
43	The switch should support Rate Limiting function to guarantee bandwidth			
44	The switch should support rate limiting based on source and destination IP address			
45	The switch should support rate limiting based on source and destination MAC address			

46	The switch should support rate limiting based on Layer 4 TCP and UDP information			
47	The switch should support availability of up to 256 aggregate or individual polices per port or more.			
48	Switch should support 802.3az for energy efficient ethernet			
49	The switch should support taking of action based on business rules to reduce power consumption			
50	The switch should support IEEE 802.1x to allow dynamic, port based security, providing user authentication.			
51	The switch should support Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.			
52	The switch should support SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.			
53	The switch should support TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.			
54	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.			
55	The switch should support Port security to secure the access to an access or trunk port based on MAC address.			
56	The switch should support Multilevel security on console access to prevent unauthorized users from altering the switch configuration.			
57	The switch should support Private VLAN			
58	The switch should be on the approved list of IPv6 Ready Logo & IPv6			
59	The switch should support IPv6 uni-cast Static Routing			
60	The switch should support IPv6 MLDv1 & v2 Snooping			
61	The switch should support TACACS+ over IPv6			
62	The switch should support NTPv4 over IPv6			
63	Flexibility and scalability of flow data beyond traditional Net Flow which can improve network anomaly and security detection			

64	The OEM should be in Leaders Quadrant in the latest - Wired and Wireless LAN Infrastructure 2017			
65	The proposed Switch should come with Lifetime warranty with RMA support from the OEM.			
66	The proposed switches should be from same OEM as of Wireless Access Point			

		Annexure 4(c)		
		L2 24-port POE Switch		
S N	Generic Requirement Compliance	Compliance (Yes/No)	Make and Model No.	Specification/ Data Sheet/brochure ,if any
1	Make / Model Proposed			
2	The wireless Access Points and Switches as asked in the RFP should be from the same OEM			
3	The switch should have a minimum of 24 nos. 10/100/1000 Ethernet POE Ports			
4	The switch should have a minimum of 2 SFP+ Uplinks			
5	The switch should support a total of 26 Ports			
6	The switch should support Forwarding bandwidth of 100 Gbps or more			
7	The switch should support Full-duplex Switching bandwidth of 200 Gbps or more			
8	The switch should support 64-Byte Packet Forwarding Rate of 90 Mpps or more			
9	The switch should support a Dual Core CPU			
10	The switch should support 512 MB of DRAM			
11	The switch should support 4096 VLAN IDs			
12	The switch should support 16000 Uni-cast MAC addresses or more			
13	The Switch should be 1RU			
14	The switch should have Stacking support of up to 8 switches with dedicated stacking port along with necessary cables			
15	Stacking should support 80 Gbps or more of throughput			

16	The switches should support Software defined network approach for building up campus wide network automation			
17	The should support capability to allow users on Wired mediums to be assigned to an unique Security Group across the network.			
18	The switches support ability for automation with plug and play application			
19	The switches should minimum have following features for automation support Full Flexible NetFlow, Plug-and-Play, Discovery, Management, Inventory, Topology visualization, software image management, Device 360.			
20	The switch should support PoE (IEEE 802.3af)			
21	The switch should support PoE+ (IEEE 802.3at)			
22	The switch should support flexible power allocation across all ports			
23	The switch should have 370W of Available PoE Power			
24	The switch should support 24 ports up to 15.4W			
25	The switch should support 12 ports up to 30W			
26	The switch should support Per port power consumption to specify maximum power setting on an individual port			
27	The switch should support Per port PoE power sensing to measure actual power being drawn			
28	The switch should support protocol to allow switch to negotiate a more granular power setting of IEEE classified devices			
29	The switch should support a PoE MIB to get visibility into power usage			
30	The switch should support a PoE MIB to set different power-level thresholds			
31	The switch should support IEEE 802.1D Spanning Tree Protocol, IEEE 802.1p, IEEE 802.1Q Trunking, IEEE 802.1s Multiple Spanning Tree (MSTP), IEEE 802.1w Rapid Spanning Tree (RSTP)			
32	The switch should support IEEE 802.1x, IEEE 802.1ab (LLDP), IEEE 802.3ad Link Aggregation Control Protocol (LACP)			
33	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors			
34	The switch should support IEEE 802.1Q VLAN encapsulation			

35	The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically			
36	The switch should support Spanning-tree root guard to prevent other edge switches becoming the root bridge.			
37	The switch should support IGMP filtering			
38	The switch should support discovery of the neighbouring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.			
39	The switch should support Per-port broadcast storm control to prevent faulty end stations from degrading overall systems performance			
40	The switch should support Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN			
41	The switch should support Local Proxy Address Resolution Protocol (ARP) working in conjunction			
42	The switch should support Configurable IGMP Leave Timer			
43	The switch should support IPv4 uni-cast Static Routing			
44	The switch should support 16 IPv4 Static routes or more			
45	The switch should support diagnostic commands to debug issues			
46	The switch should support system health checks within the switch			
47	The switch should support 4 egress queues per port to enable differentiated management			
48	The switch should support scheduling techniques for Qos			
49	The switch should support Weighted tail drop (WTD) to provide congestion avoidance			
50	The switch should support Standard 802.1p CoS field classification			
51	The switch should support Differentiated services code point (DSCP) field classification			
52	The switch should support Control- and Data-plane QoS ACLs			
53	The switch should support Strict priority queuing mechanisms			
54	The switch should support Rate Limiting function to guarantee bandwidth			
55	The switch should support rate limiting based on source and destination IP address			
56	The switch should support rate limiting based on source and destination MAC address			

57	The switch should support rate limiting based on Layer 4 TCP and UDP information			
58	The switch should support availability of up to 256 aggregate or individual polices per port or more.			
59	Switch should support 802.3az for energy efficient ethernet			
60	The switch should support taking of action based on business rules to reduce power consumption			
61	The switch should support IEEE 802.1x to allow dynamic, port based security, providing user authentication.			
62	The switch should support Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.			
63	The switch should support SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.			
64	The switch should support TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.			
65	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.			
66	The switch should support Port security to secure the access to an access or trunk port based on MAC address.			
67	The switch should support Multilevel security on console access to prevent unauthorized users from altering the switch configuration.			
68	The switch should support Private VLAN			
69	The switch should be on the approved list of IPv6 Ready Logo & IPv6			
70	The switch should support IPv6 uni-cast Static Routing			
71	The switch should support IPv6 MLDv1 & v2 Snooping			
72	The switch should support TACACS+ over IPv6			
73	The switch should support NTPv4 over IPv6			
74	Flexibility and scalability of flow data beyond traditional Net Flow which can improve network anomaly and security detection			

75	The OEM should be in Leaders Quadrant in the latest - Wired and Wireless LAN Infrastructure 2017			
76	The proposed Switch should come with Lifetime warranty with RMA support from the OEM.			
77	The proposed switches should be from same OEM as of Wireless Access Point			

				Annexure 4(d)
		Wireless Access Point with license		
SN	Generic Requirement Compliance	Compliance (Yes / No)	Make and Model No.	Specification/Data Sheet/brochure ,if any
1	Make / Model Proposed			
2	The wireless Access Points and Switches as asked in the RFP should be from the same OEM			
3	Access Points proposed must include radios for 2.4 GHz and 5 GHz with 802.11ac Wave 2			
4	Must support external antenna options.			
5	Mounting kit should be standard from OEM directly.			
6	The Access Point should have a capability to handle high density environment with more number of concurrent users by having more memory and CPU of 1Gb RAM and 1.8 GHz of processor respectively.			
7	Access point must support flexible Dynamic Frequency Selection across 20Mhz, 40Mhz, 80MHz and 160Mhz wide channels to combat performance problems due to wireless interference. And when radar is detected, it should able to identify the exact 20 Mhz channel & should able to block that channel only			
8	Access point must have an additional USB port for future use.			
9	Access point should have 2x10/100/1000 Ethernet and serial/console port			
10	Must have atleast 4 dBi Antenna gain on both 2.4 Ghz and 5Ghz			
11	Must support 4X4 multiple-input multiple-output (MIMO) with three spatial streams			
12	Must support the physical rate of 2.6 Gbps on 5GHz radios.			

13	The access point should have a capability to enable both the radios on 5Ghz for serving the client thereby increasing the bandwidth capacity to 5.2 Gbps per access point.			
14	Must support minimum of 23dbm of transmit power on both 2.4 Ghz & 5GHz Radio.			
15	The AP must be capable of optimizing the SNR exactly at the position where 802.11a/g/n/ac client is placed (beamforming) without requiring any support or feedback from clients, hence it should work with all 802.11a/g/n/ac clients.			
16	Should have detecting and classifying non-Wi-Fi wireless transmissions while simultaneously serving network traffic			
17	Should support configuring the access point as network connected sensor to access any network location covered by the access point to get real-time Spectrum analysis data.			
18	Must support AP enforced load-balance between 2.4Ghz and 5Ghz band.			
19	Must incorporate radio resource management for power, channel, coverage hole detection and performance optimization			
20	Must have -90 dB or better Receiver Sensitivity.			
21	Must support Proactive Key Caching and/or other methods for Fast Secure Roaming.			
22	Must support Management Frame Protection.			
23	Should support locally-significant certificates on the APs using a Public Key Infrastructure (PKI).			
24	Must operate as a sensor for wireless IPS			
25	Should support non-Wi-Fi detection for off-channel rogues and Containment for both radio while serving the client simultaneously.			
26	Access Points must support a distributed encryption/decryption model.			
27	Access Points must support Hardware-based encrypted user data and management traffic between controller and Access point for better security.			
28	AP model proposed must be able to be both a client-serving AP and a monitor-only AP for Intrusion Prevention services.			
29	Mesh support should support QoS for voice over wireless.			
30	Must be plenum-rated (UL2043).			
31	Must support 16 WLANs per AP for SSID deployment flexibility.			

32	Must continue serving clients when WAN link to controller is back up again, should not reboot before joining			
33	The APs must support centralized wireless mode with the use of a controller, but the APs must also support operation in autonomous mode without the presence of any controller, when needed.			
34	When operated in remote AP mode, the AP must not disconnect any clients when the connection to the controller fails or in the case the failed connection has been restored again.			
35	When operated in remote AP mode, the AP must be able to authenticate new users with local radius server directly at the AP itself in case of link failure to controller.			
36	Access point should able to do the spectrum scanning for WiFi and non-WiFi interference for both on-channel and off-channel at all 20Mhz ,40Mhz, 80Mhz and 160Mhz channels			
37	Must support telnet and/or SSH login to APs directly for troubleshooting flexibility.			
38	Must support Power over Ethernet)/ power injectors.			
39	802.11e and WMM			
40	Must support Reliable Multicast to Unicast conversion to maintain video quality at AP level			
41	Must support QoS and Video Call Admission Control capabilities.			
42	The AP license along with required support should be given with all the Access Points. All the proposed access points should be compatible with existing wireless LAN controller and should seamlessly integrate on the same network			
43	The AP licenses (to be installed on the existing wireless LAN controller) should be provided along with the Access Points as part of the solution.			
44	The proposed Switch should come with Lifetime warranty with RMA support from the OEM.			
45	The OEM should be in Leaders Quadrant in the latest - Wired and Wireless LAN Infrastructure 2017			

				Annexure 4(e)
		1 Gig Single Mode SFP		
SN	Generic Requirement Compliance	Compliance (Yes/No)	Make and Model No.	Specification/Data Sheet/brochure ,if any
1	Make / Model Proposed			
2	Operating Temperature: 0° C to +40° C (32° F to 104° F)			
3	Must be from the same OEM for switching solution			
4	Transceiver shall support single mode 1Gbps communication			
5	Operating Humidity: 10% to 85% non-condensing			
6	The OEM should be in Leaders Quadrant in the latest - Wired and Wireless LAN Infrastructure 2017			

				Annexure 4(f)
		Split AC 2 Ton with voltage stabilizer		
SN	Specifications	Compliance (Yes/No)	Make and Model No.	Specification/Data Sheet/brochure ,if any
1	Type of Air conditioner: High wall split AC			
2	Technology of Ac :Inverter (Variable speed)			
3	Nominal cooling capacity in Ton/(Kcal/hr) :2.0 Ton/6000 Kcal/hr			
4	Coil Material: Copper			
5	Eco-friendly refrigerant: True			
6	Minimum length of copper pipe and suitable connecting electrical cable, switch socket, installation and commissioning with minimum 10 meter			
7	BEE star Rating: 5 star			
8	Conformity to Indian standard: latest IS1391			

		Annexure 4(g)		
		Server		
SN	Specifications	Compliance (Yes/No)	Make and Model No.	Specification/Data Sheet/brochure ,if any
1	Form factor: 2U rack			
2	Dimensions: H: 8.73 cm (3.44 in), W: 44.40 cm (17.49 in), D: 68.40 cm (26.92 in)			
3	Processor: Intel® Xeon® processor E5-2600 v4 product family			
4	Processor sockets: 2			
5	Cache: 2.5MB per core; core options: 8 core			
6	Chipset: Intel C610 series chipset			
7	Memory1: minimum 3TB: 32GB DDR4 RAM			
9	RAID controllers: Internal controllers: PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P External HBAs (RAID): PERC H830 External HBAs (non-RAID): 12Gbps SAS HBA			
10	Drive bays: Internal hard drive bay and hot-plug backplane: Up to 16 x 2.5" HDD: SAS, SATA, near line SAS SSD: SAS, SATA Up to 8 x 3.5" HDD: SAS, SATA, near line SAS SSD: SAS, SATA			
11	Maximum internal storage: HDD: SAS, SATA, near line SAS SSD: SAS, SATA 16 x 2.5" – up to 29TB via 1.8TB hot-plug SAS hard drives 8 x 3.5" – up to 64TB via 8TB hot-plug NL SAS hard drives			
12	Embedded NIC: 2 x 10+2GbE NDC			
13	Power supplies: Titanium efficiency 750W AC power supply; 1100W DC power supply; Platinum efficiency 495W, 750W, 1100W AC power supply			
14	Availability: ECC memory, hot-plug hard drives, hot-plug redundant cooling, hot-plug redundant power, internal dual SD module, single device data correction (SDDC), spare rank, tool-less chassis, support for high availability clustering and virtualization, proactive systems management alerts, iDRAC8			

	with Lifecycle Controller			
15	Remote management:			
16	Systems management: IPMI 2.0 compliant Open Manage Essentials Open Manage Mobile Open Manage Power Center Open Manage Integrations: • Open Manage Integration Suite for Microsoft® System Center •Open Manage Integration for VMware®vCenter™			
17	Operating systems: Microsoft Windows Server 2008/2012 R2, x64 (includes Hyper-V)			

		Annexure 4(h)		
		Online 2 KVA UPS with battery		
SN	Specifications	Compliance (Yes/No)	Make and Model No.	Specification/Data Sheet/brochure ,if any
1	Rating:2KVA			
2	Input voltage range:160-300VAC			
3	Nominal output voltage:230VAC			
4	Frequency:50Hz,			
5	Battery DC input voltage:96V DC			
6	Supplied with SMF battery for up to 120 mins (2 hours) backup & M. S Rack			

		Annexure 4(i)		
		Online 5 KVA UPS with battery		
SN	Specifications	Compliance (Yes/No)	Make and Model No.	Specification/Data Sheet/brochure ,if any
1	Rating:5KVA			

2	Input voltage range:160-300VAC			
3	Nominal output voltage:230VAC			
4	Frequency:50Hz,			
5	Battery DC input voltage:192V DC			
6	Supplied with SMF battery for upto 120 mins (2 hours), backup & M. S Rack			

		Passive Components			Annexure 4(j)
SN	Item	Specification	Compliance (Yes/No)	Make and Model No.	Specification/Data Sheet/brochure ,if any
i	24-port Patch panel	CAT 6 component-rated patch panel provides excellent performance for data networks requiring maximum speed and bandwidth			
		Backwards compatible to all lower rated category components			
		Fits standard 19" EIA rack mount width			
		1 rack mount space (RMS)			
		Includes both TIA-568A and TIA-568B color wiring diagrams			
		Engineering to provide 110 IDC termination reducing installation time			
		Exceeds ANSI/TIA-568-C.2 Category 6 connecting hardware requirements			
		Enhanced crosstalk cancellation reduces Return Loss and improves performance by rejecting noise and unwanted signals			
ii	CAT-6 Cable	CAT 6 Box 305mtr roll,4-pair unshielded twisted pair (UTP) cable with 23 AWG solid copper, Verified compliant with EIA/TIA standards, At least 30 box out of total order (250 box) must have different color for provisioning uplink from switch to			

		switch			
iii	I/O Box	CAT 6 cable RJ 45 Key stone with Face plate and back box			
iv	Fiber Patch Cord SC-LC	All optical fiber patch leads shall comprise of Single mode 9/125µm fiber with SC-LC fiber connectors terminated at each end. The optical fiber patch leads shall comply with the following applications:			
		Optical Fiber – Corning Single Mode			
		Connector: Zirconia ceramic ferrule			
		Pre-radiuses and pre-polished ferrule			
		Color-coded Yellow for SM			
		Insertion Loss - <0.2 db			
		Cable: 9/125, SM			
		Repeatability - < 0.2 db			
		Durability – 1000 mating cycle			
		Working Temp : -40 deg C.to + 85 deg. C			
		Standard : G652D, G 657A & G 657B			
v	CAT-6 Patch Cord 1meter	Patch cables have stranded copper conductors for flexibility			
		Patch cables & boots are the same color			
		Category 6 UTP cable wired straight through. 24 AWG, gold plated 8x8 (RJ45) plugs			
		Used to connect your network card to any of the following: <ul style="list-style-type: none"> ▪ 10GBASE-T Ethernet ▪ 1000BASE-T Gigabit Ethernet ▪ 100BASE-T Ethernet ▪ 100BASE-TX Fast Ethernet ▪ 10BASE-T Ethernet 			
vi	Casing &Capping	Supply 1" casing pipe for CAT6 cabling			
		Material: PVC			

	1”	Length: 2 METER./PIECE			
		Usage: For Open Wiring, For Ducting In False Ceiling.			
		Should Have ISI mark			
vii	Casing &Capping 2”	Supply 2" casing pipe for CAT6 cabling			
		Material: PVC			
		Length: 2 METER./PIECE			
		Usage: For Open Wiring, For Ducting In False Ceiling.			
		Should Have ISI mark			
viii	Casing &Capping4”	Supply 4" casing pipe for CAT6 cabling			
		Material: PVC			
		Length: 2 METER./PIECE			
		Usage: For Open Wiring, For Ducting In False Ceiling.			
		Should Have ISI mark			
ix	Rack 9U	Rack Size: Height - 9U, Depth – 64 cm			
		The rack shall be Conforms to DIN 41494 OR equivalent ISO Standards			
		Adjustable 19” equipment mounting verticals provide the better mounting flexibility, and maximizes the usable mounting space			
		The rack shall have Depth adjustable mounting slots			
		The rack shall Top and bottom Panel with ventilation and cable entry facility			
		The rack shall have provision to mount the cooling fans on the top panel			
		The rack shall be powder coated finish.			
		Grounding and Bonding Options.			
		The Rack should be equipped with Cooling Fans, Cantilever Shelf, Cable Organizers, Power Distribution Units, Grounding Kit			
		Front Door should be Lockable Toughened Glass Door			

x	Rack 12U	Rack Size: Height - 12U, Depth – 64 cm			
		The rack shall be Conforms to DIN 41494 OR equivalent ISO Standards			
		Adjustable 19” equipment mounting verticals provide the better mounting flexibility, and maximizes the usable mounting space			
		The rack shall have Depth adjustable mounting slots			
		The rack shall Top and bottom Panel with ventilation and cable entry facility			
		The rack shall have provision to mount the cooling fans on the top panel			
		The rack shall be powder coated finish.			
		Grounding and Bonding Options.			
		The Rack should be equipped with Cooling Fans, Cantilever Shelf, Cable Organizers, Power Distribution Units, Grounding Kit			
		Front Door should be Lockable Toughened Glass Door			
xi	Rack 18U	Rack Size: Height - 18U, Depth – 64 cm			
		The rack shall be Conforms to DIN 41494 OR equivalent ISO Standards			
		Adjustable 19” equipment mounting verticals provide the better mounting flexibility, and maximizes the usable mounting space			
		The rack shall have Depth adjustable mounting slots			
		The rack shall Top and bottom Panel with ventilation and cable entry facility			
		The rack shall have provision to mount the cooling fans on the top panel			
		The rack shall be powder coated finish.			
		Grounding and Bonding Options.			
		The Rack should be equipped with Cooling Fans, Cantilever Shelf, Cable Organizers, Power Distribution Units, Grounding Kit Front Door should			

		be Lockable Toughened Glass Door			
xii	LIU 6-port	Have sufficient slots accommodate Simplex/duplex SC.			
		LIU should be loaded with plates & adapter and 1m SC Single mode pigtails.			
		Aluminum base material for light mounting			
		Should have Splice Tray & Cable Spool provision inside			
		Accessory kit consists of cable ties, mounting ear screw earthing and spiral wrap tube.			
		Panel cover should be slide out for easy maintenance			
		Can Include 48 LC,24SC,24 ST and 24 FC Terminations			
		Removable Rear & Front cover for better access to interior of LIU			
xiii	LIU 12-port	Have sufficient slots accommodate Simplex/duplex SC.			
		LIU should be loaded with plates & adapter and 1m SC Single mode pigtails.			
		Aluminum base material for light mounting			
		Should have Splice Tray & Cable Spool provision inside			
		Accessory kit consists of cable ties, mounting ear screw earthing and spiral wrap tube.			
		Panel cover should be slide out for easy maintenance			
		Can Include 48 LC,24SC,24 ST and 24 FC Terminations			
		Removable Rear & Front cover for better access to interior of LIU			
Xiv	12 Core 9/125 SM Fiber cable	Fiber cable should have 12 core of 9/125um with single mode			
		Joining fiber cable core at both end			
		Color: other than black			
xv	6 Core 9/125	Fiber cable should have 6 core of 9/125um with			

	SM Fiber cable	single mode			
		Joining fiber cable core at both end			
		Color: other than black			
xvi	Rj 45 Connector	RJ45 connector for joining CAT6 cable			
Xvii	Wire laying channel	Iron/steel cable duct with 100mm x100mm x100mm (HxWxL)			
Xviii	Cable manager	Smart rack 1U horizontal cable manager figure duct with cover			
xix	Electric modular board	Electrical modular Board With electrical wiring, two switches and two 15Amp socket			
Xx	Fiber splicing for shifting existing network	For joining fiber cable core to core			
Xxi	Fiber Patch Cord SC-SC	All optical fiber patch leads shall comprise of Single mode 9/125µm fiber with SC fiber connectors terminated at each end. The optical fiber patch leads shall comply with the following applications:			
		Optical Fiber – Corning Single Mode			
		Connector: Zirconia ceramic ferrule			
		Pre-radiuses and pre-polished ferrule			
		Color-coded Yellow for SM			
		Insertion Loss - <0.2 db			
		Cable: 9/125, SM			
		Repeatability - < 0.2 db			
		Durability – 1000 mating cycle			
		Working Temp : -40 deg C.to + 85 deg. C			
Standard : G652D, G 657A & G 657B					
Xxii	Fiber Patch Cord LC-LC	All optical fiber patch leads shall comprise of Single mode 9/125µm fiber with LC fiber connectors terminated at each end. The optical fiber patch leads			

		shall comply with the following applications:			
		Optical Fiber – Corning Single Mode			
		Connector: Zirconia ceramic ferrule			
		Pre-radiuses and pre-polished ferrule			
		Color-coded Yellow for SM			
		Insertion Loss - <0.2 db			
		Cable: 9/125, SM			
		Repeatability - < 0.2 db			
		Durability – 1000 mating cycle			
		Working Temp : -40 deg C.to + 85 deg. C			
		Standard : G652D, G 657A & G 657B			
Xxiii	Fully loaded LIU 96-port	Have sufficient slots accommodate Simplex/duplex SC.			
		LIU should be loaded with plates & adapter and 1m SC Single mode pigtailed.			
		Aluminum base material for light mounting			
		Should have Splice Tray & Cable Spool provision inside			
		Accessory kit consists of cable ties, mounting ear screw earthing and spiral wrap tube.			
		Panel cover should be slide out for easy maintenance			
		Can Include 48 LC,24SC,24 ST and 24 FC Terminations			
		Removable Rear & Front cover for better access to interior of LIU			
Xxiv	Wall mounted Iron grilled Cage with lock for wireless Access Point safety with installation	wall mounted iron grilled cage with installation in wall			
		wall mounted iron grilled cage with lock for access point security			
		All wall mounted iron grilled cage should have common single key			

		Smart TV 49/55"			
SN	Parameters	Specifications	Compliance (YES / NO)	Make and Model No	Specification Data Sheet
1	Technology	LED Direct			
2	Size in inches	49"			
3	Native Resolutions	1920x1080 (FHD) or better			
4	Dynamic Contrast Ratio	1,000,000:1 (DTV Label only)			
5	Brightness	400 Nits or above			
6	Viewing angle	178° x 178° or more			
7	Minimum inbuilt Ports Required	2-USB ports ,1-HDMI (MHL-Compatible),1-RJ45 (Ethernet),AV-In,1-Audio Input,Analog (PAL/SECAM),1-IR Receiver,1- Rs-232(D-Sub 15 pin) PC,2-RF-In			
8	Orientation	Portrait & Landscape			
9	Audio (Capacity of Speaker)	Minimum 10 Watts x 2 or more			

10	Additional Features	Sound Syn/Bluetooth,Smart Energy Saving mode,Fail Over Feature/Auto Selection,Real time clock,Auto Brightness Sensor, Wi-Fi built-in ,USB Cloning, Contents Scheduling,Web OS(3.5), Pre-loaded Apps (You Tube only),Web Browser,Screen Share (Miracast),Smart Share (DLNA)			
11	Power Supply	100 - 240 Volt, 50-60 Hz			
12	Power Consumption (Type)	115 Watts or less			
13	Energy Saving Technology	Required			
14	Wall mounted Kit with all accessories required	Required free of cost at the time of installation at each site.			
15	Guaranteed Operation Hours	16 Hours per day			
16	Certification	BIS ,FCC,UL, Energy Star 6			
17	Warranty	3 years On-Site Comprehensive Warranty			
18	Box Should Contain	LED Display unit, Base Standard Stand, Remote Control, Power Cable, etc.			

FORMAT FOR SUBMISSION OF PRICE BID

From,	To,
	The Director
	MANIT- Bhopal- 462 003

Sub: **Price Bid with reference to Tender Document No: S&P/2018/06 dated 25/10/2018**

SN	Description of Material	Make & Product No	Quantity	Discounted Unit Price	Basic Price	Custom Duty	GST	Total Price
1	2	3	4	5	6 (4*5)	7	8	9(6+7+8)
Gross Total →Net offered Price→								

Net offered Price (In Words)

The followings things are confirmed and undertake by us that:

a	The total price quoted above are inclusive of basic price, statutory duty & taxes, Transportation, Incidental services (including Insurance, Loading/ unloading, Packing & Forwarding charges, Installation etc.) at site.
b	Offer price shall be valid for a period of 90 days from the date of opening of Technical bid of this tender
c	We will be agreed to offer services for on-site comprehensive warranty on the Networking Equipments supplied through this tender for five (05) years.
d	We agree with the terms and conditions specified in "Instructions to Bidders" and if selected, the execution of supplies would be made in compliance.

Date:	Signature of Authorized Bidder with proper rubber stamp
	Name:
	Designation:
	Mobile No:

		ANNEXURE- 6
	(Undertaking from Bidder on their official stationery)	
To,		
The Director		
Maulana Azad National Institute of Technology		
Bhopal- 462 003		

Sub:	Undertaking for the participation in the tender No: S&P/2018/06 dated 25/10/2018.
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Dear Sir,

HAVING EXAMINED AND PERUSED THE FOLLOWING DOCUMENTS	
1	Notice Inviting Tender
2	Instruction to Bidders Chapter-I,II and III
3	Primary Commercial Compliance Statement (Annexure- 2)
4	Bill of Quantity (Annexure-3)
5	Technical Specifications of Networking Equipments (Annexure-4)
6	Price Bid (Annexure- 5)
<p>I/Wedo hereby submit the above tender in prescribed formats duly completed in all respects in accordance with the conditions applicable. If this tender is accepted, I/We agree to abide by and fulfill all the terms and conditions in the tender documents.</p> <p>I/We hereby distinctly and expressly declare and acknowledge that before the submission of this tender, I/We have carefully followed the instructions and I/We have understood the existing system of supply at the location of purchaser including the scope and nature of duties expected from the bidder.</p> <p>I/We distinctly agree that I/We would hereafter make no claim or demand upon the purchaser based upon or arising out of any alleged misunderstanding or misconceptions or mistake on my/our part of the said stipulations, restrictions and conditions.</p>	
<p>I/ We declare that our unit has never made any default in supplying the Networking Equipments / equipment to Government / Semi Government/ Central or State Public Sector Enterprise(s) in terms of quality and financial agreed supply conditions.</p>	
<p>I/We fully understand the terms and conditions in the tender documents.</p>	
<p>I/We understood that the purchaser is not bound to accept any proposal that it may receive without assigning any reason.</p>	
Date:	Authorized Signatory

		ANNEXURE- 7
AUTHORIZATION LETTER FROM ORIGINAL EQUIPMENT MANUFACTURER		
No:	Date:	
To,		

Ref:	Tender document No: S&P/2018/06 dated: 25/10/2018
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<p>Dear Sir,</p> <p>We _____ who are established and reputable manufacturers of <i>(name and description of goods offered)</i> having factories at _____ <i>(address of factory)</i> do hereby-authorized M/s _____ <i>(Name and address of Agent)</i> to submit a bid, and sign the contract with you for the goods manufactured by us against the above tender and they are in the supply and maintenance of our products since _____ years.</p> <p>We hereby extend our full guarantee and warranty as per terms & Conditions of Contract for the goods and services offered for supply by the above firm against this Tender.</p>
<p>Yours Faithfully,</p> <p style="text-align: center;">(Name of the manufacturer)</p>

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

Modifying this format suitably in case where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited.