

Maulana Azad
National Institute of Technology Bhopal- 462 003

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



TENDER DOCUMENT
FOR
*SUPPLY OF EQUIPMENTS, INSTALLATION, TESTING &
COMMISSIONING OF INTERNET NETWORKING IN HOSTEL NO-10*

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Maulana Azad
National Institute of Technology Bhopal- 462 003

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

No. MANIT/S&P/2017:418

Date:21/09/2017

NOTICE INVITING TENDERS

Sub: ***Supply of equipments, Installation, Testing & Commissioning of Internet Networking in Hostel No-10.***

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).

Tenders in two bid system are invited for *Supply & Installation, Testing & Commissioning of Internet Networking in Hostel No-10*. Interested Manufacturers/Authorized Partner/Agencies may log on Institute website www.manit.ac.in for further details. Tender Document can be downloaded from Institute website and the duly completed forms should be address to Chairman-Networking, Maulana Azad National Institute of Technology- Bhopal- 462 003.

Last date of receipt of complete tender document is **12/10/2017** up to 15.00 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	
Tender No & Date	No. MANIT/ S&P/2017:418 Date: 21/09/2017
Scope of Tender	<i>Supply of equipments, Installation, Testing & Commissioning of Internet Networking</i>
Location of Supplies & Installation	APJ Abdul Kalam Boys Hostel No-10.
Tender Document	Tender Document can be downloaded free of cost from Institute Website: www.manit.ac.in
Date & Time of Pre- Bid Meeting	09/10/2017 at 15:00 hours Institute Committee Room
Earnest Money Deposit (EMD)	Rs. 100000.00 (One Lacs Only) by way of Demand Draft in favour of Director- MANIT Bhopal
Last Date & Time of Submission of Tender	12/10/2017 up to 15:00 hours
Date & Time of Opening of Technical Bids	12/10/2017 at 15:30 hours
Date & Time of Opening of Price Bids	30/10/2017 15:00 hours
Venue for Opening of Technical Bids and Price Bids	Institute Committee Room
Details of Contact Persons for Technical Query	
Dr. Praveen Kaushik Chairman- 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 Harish Vaidya- Asstt. Registrar 0755- 4051040 harishvaidya@manit.ac.in

CHAPTER-I	
INSTRUCTIONS TO BIDDERS	
1	<p>Location of Supply & Installation:</p> <p>a APJ Abdul Kalam Boys Hostel No-10.</p> <p>b 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> <p>c It will be imperative on each bidder to fully acquaint himself with the site conditions and factors which would have any effect on the performance of the contract and / or the cost.</p>
2	<p>Scope of Supplies:</p> <p>a The Networking Equipments shall be supplied as per the bill of Material ANNEXURE-A and specifications mentioned in ANNEXURE-B</p> <p>b The Specifications of the Networking Equipments as mentioned in the ANNEXURE-B 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 as mentioned in the ANNEXURE-A, the bidder has to execute its installation at the designated location. No extra cost shall be paid for this reason.</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 thirty (30) days from the date of issue of supply order. However, the bidder has an option to submit the best delivery time, but in any case the delivery should be before forty five (45) days 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 (thirty) 30 days from the date of arrival of goods at destination shall notify the bidder of any loss or damage to the goods.</p>
4	<p>Warranty & After Sales Services:</p> <p>a The bidder shall offer on-site comprehensive warranty of Networking Equipments for three (3) years from the date of successful commissioning of Networking Equipments at the designated location & shall cover each and every part of the Networking Equipments including parts having limited life etc. The purchaser is not liable to pay any extra charges on any account during warranty period.</p> <p>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.</p> <p>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.</p> <p>d During the warranty period, expert(s) shall be deputed at site by the bidder</p>

		within three working days from the date of request from purchaser, to rectify and fixing the defects of Networking Equipments at the location where Networking Equipments supplied. 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 will depute their engineer within three working days to attend the service call received in writing from purchaser.		
5	Tender Documents:			
	a	The tender document can be downloaded free of cost from our website www.manit.ac.in from 21/09/2017 to 12/10/2017.		
6	Clarification of Tender Documents			
	a	A prospective bidder requiring clarification on the tender document may notify to the Chairman-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.		
7	Amendment of Tender Document:			
	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 site & Institute website only.		
	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.		
8	Authorization for Submission of Tender :			
	a	The original and all copies of the bid shall be signed by a person duly authorized to sign on behalf of the Bidder. The written confirmation of authorization (in form of letter on the bidder's letter head) to sign on behalf of the bidder confirming the signature as a person duly authorized to sign should be attached with the Technical bid of the tender.		
	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.		
9	Earnest Money Deposit:			
	a	The EMD shall be submitted in the first envelope super-scribed as "Technical Bid", of prescribed amount of Rs. 100000.00 (One Lacs Only) by way of Demand Draft drawn in favour of "Director-MANIT", payable at Bhopal only for the Networking Equipments quoted by the Bidder. No cash towards EMD shall be accepted. The offers without EMD from the Bidders shall be rejected.		
	b	The other option for payment RTGS/NEFT is also available and bank details of purchaser are as under:		
		Account Name	Bank Name	Bank A/c No.
		Director MANIT Bhopal	State Bank of India	10020150107
		Bank IFS Code		
		SBIN0001608		
		The Bidder is instructed to attach the RTGS/ NEFT Slip along with Technical Bid, to prove the transfer of payment to the purchaser's Account.		
	d	The Purchaser shall not be liable for payment of any interest on EMD		

	e	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.
	f	The EMD will be returned to the unsuccessful bidders soon after the orders are placed on the successful bidder.
10	Withdrawal, Substitution and modification of Tender:	
	a	The Bidder, after submitting the tender, is permitted to withdraw, substitute or modify tender in writing without forfeiture of EMD, provided these are received duly sealed and marked like the original tender, up to the date and time of receipt of the tender. Any such request received after prescribed date and time of receipt of tender will not be considered. No bid may 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 other sanctions.
11	Submission of Tender:	
	a	The Bidder is expected to examine all instructions, forms, terms and specifications in the Tender Document and to furnish with its bid all documents or information as required by Tender document.
	b	Two Cover System for this tender is proposed. i.e. Technical Bid and Price Bid.
	c	<p>The tender must be placed in a properly sealed bigger envelope addressed to The Director, Maulana Azad National Institute of Technology- Bhopal-462003 and the said bigger envelope shall contain two sealed envelopes containing Technical Bid & Price Bid.</p> <p>The bigger envelope must be super-scribed "<i>Tender for the Supply of equipments, Installation, Testing & Commissioning of Internet Networking in Hostel No-10.</i>" with tender inquiry number and its due date. The two sealed envelopes inside the bigger envelope must be super-scribed as:</p> <p><i>Envelope No-1: The said envelope is for Technical bid & shall be super-scribed as "Tender for the Supply of equipments, Installation, Testing & Commissioning of Internet Networking in Hostel No-10-Technical Bid"</i></p> <p><i>Envelope No-2: The said envelope is for Price bid & shall be super-scribed as "Tender for the Supply of equipments, Installation, Testing & Commissioning of Internet Networking in Hostel No-10 - Price Bid".</i></p>
	d	If both or either of the envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the bid.
	e	All the columns of the tender shall be duly, properly and exhaustively filled in. Any cutting/over writing etc. in the tender must be signed by the person who is signing the tender.
	f	Tenders received in open covers/ letters/ fax/ email will not be considered.
12	Technical Bid Submission:	
		Bidder should submit technical bid consisting of followings:
	a	ANNEXURE-A duly signed and accepted.
	b	ANNEXURE-B duly filled & signed.
	d	ANNEXURE-C duly filled and signed.
	e	ANNEXURE-E undertaking for participation.
	f	Copy of Certificate of Registration of Company/ firm/ Agency.

	g	Copy of valid GST No:
	h	Demand Draft or RTGS/ NEFT slip of Rs. 100000.00 towards Earnest Money Deposit
	i	Copy 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, 2017
	j	ANNEXURE-F authorization Certificate from Original Equipment Manufacturer in case where bidder is not OEM.
	k	Declaration in this regard that OEM / Bidder has clean track record and has not been black listed by any Government or Quasi- Government organization or Government Under taking companies in India at any point of time.
	l	Copy of Balance Sheets of last three years for assessing turnover.
	m	Copy of Income Tax Returns of last three years
	n	Copy valid ISO certificate from Original Equipment Manufacturer.
13	Price Bid Submission:	
	a	The bidder would have to quote the prices for the total scope of work in the ANNEXURE-D
	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.
	c	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 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 and shall include all applicable taxes. Any variation in the taxes, duties, levies etc. till installation of Networking Equipments to the location shall be to the bidder's account.
	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
14	Date of Submission of Tender:	
	a	The tender must reach the office of the Assistant Registrar- Stores & Purchase, Maulana Azad National Institute of Technology, Bhopal by 12/10/2017 up to 15.00 hours
	b	The purchaser 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 Purchaser 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.

	c	The purchaser shall not consider any bid that arrives after the deadline for submission of bids. Any bid received by the Purchaser after the deadline for submission of bids shall be declared late, rejected and returned unopened to the Bidder.
15	Opening of Technical Bid:	
	a	The Technical bid of tenders will be opened at Institute Committee Room on - 12/10/2017 at 15.30 hours. The Bidder or their authorized representative (One person only) may be present at the time of opening of the tender.
16	Opening of Price Bid:	
	a	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 Telephonically/ email, after the evaluation of Technical Bid or while opening of Technical Bid.
17	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 said period of 90 days.
	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.
18	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.
19	Causes of Rejection of Tender:	
	a	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.
	B	If any Bidder stipulates any condition of his own, such conditional tender is liable to be rejected.
20	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 –A & B 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. vi. The successful bidder does not submit Indemnity Bond within the prescribed time.
21	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 <i>Supply of equipments, Installation, Testing & Commissioning of Internet Networking</i> with the details of selected location.
22	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.
23	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% of value

		of the order per week of delay would be levied subject to maximum 4 weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 4 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.
24	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 OFC and other cables, upon inspection Report signed by Networking Committee of purchaser.
	b	The 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 Bank Guarantee of 10% total Work Order value for a period of three years. ANNEXURE-F
	c	All the payment to bidder shall be made by crossed account payee Cheque/ RTGS/ NEFT for which the bidder shall sent 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 Chairman- Networking. 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.
25	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.
We confirm with our acceptance to the instructions (S.No-1 to 25 above) as given above.		
Date:		BIDDER'S NAME & SIGNATURE WITH SEAL
<i>These duly signed "Instructions to the Bidders" as under shall be attached with Technical bid of the tender as a mark of acceptance of bidder and any tender not confirming the instructions as under is liable to be rejected.</i>		

CHAPTER-II

ELIGIBILITY & QUALIFICATION CRITERIA

1	Bidder should have experience in successfully implementing works of similar nature in any Central/State government organizations, PSU's, Universities, Hospitals, government research Institute or other government organizations in India. (Bidder to submit copy of PO/Completion Certificate from the Client).
2	The Bidder should be OEM or Authorized Dealer/Distributor/System Integrator of the OEM of the offered product (Bidder to submit documentary proof).
3	The bidder should be in networking business for a period of Minimum 5 years.
4	The average financial turnover during the last three consecutive financial years should be at least Rs. 10000000.00 (One Crore) per year.
5	The OEM / Bidder should have a clean Track record, i.e. The OEM/ Bidder should not have been black listed by any Govt. or Quasi- Govt/ Govt. Under taking companies in India at any point of time. (Declaration in this regard to be submitted along with Technical bid).
6	The Bidder shall have been assessed by the income tax department of India during last 3 financial years, supporting copies should be enclosed.
7	The OEM/ Bidder should give an undertaking that service & spare support will be provided for at least 3 years, after the specified warranty period on separate commercial terms.
8	All active networking Components (switches, Access points, wireless controllers, etc.) Shall be from same OEM.
9	Bidder should be single party, consortium will not be accepted
10	The Bidder is required to quote for the complete BoM. Partial quote are liable to be rejected
11	Bidders who have refused to execute any work order issued by MANIT in the past are disqualified from participating in this tender.
12	The Original Equipment Manufacturers shall possess ISO Certificate for their establishment. The copy of the valid ISO Certificate shall be placed with the Technical Bid.

CHAPTER-III	
GENERAL CONDITIONS OF CONTRACT	
1	<p>Abbreviations & Acronyms:</p> <p>a Abbreviations & Acronyms and Definitions used in this tender document shall be in accordance with GFR 2017 and Manual for procurement of Goods 2017.</p>
2	<p>Language of Bids:</p> <p>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.</p>
3	<p>Standards of Performance:</p> <p>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.</p>
4	<p>Force Majeure:</p> <p>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.</p>
5	<p>Code of Ethics:</p> <p>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.</p>
6	<p>Address for communication:</p> <p>a All the communication with respect to the tender shall be addressed to: The Chairman- Networking Computer Science Engineering Department Maulana Azad National Institute of Technology Bhopal- 462 003</p>
7	<p>Jurisdiction:</p> <p>a In the event of any dispute the legal matter shall be subjected to the jurisdiction of Bhopal Court only.</p>

		ANNEXURE- A
Bill of Material		

Ref:	Tender document No: S&P/2017/418 date:21/09/2017
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Item No	Description of Item	Quantity
1(a)	6 Core 9/125 Single Mode Fiber cable with laying (overhead laying Poll to Poll)	500 mtr
1(b)	6 Core 50/125 Multi-Mode Fiber cable with laying (overhead laying Poll to Poll)	600 mtr
1(c)	Fiber splicing	48 Nos.
2(a)	Fiber patch cord single mode SC-LC	02 Nos.
2(b)	Fiber patch cord Multi mode SC-LC	10 Nos.
3(a)	CAT6 cable 305m Box	20 box
3(b)	Installation of CAT6 Laying	6100 meter
4 (a)	Rack 18U wall mount	01 Nos.
4(b)	Rack 6U	06 Nos.
4(c)	Installation of Rack (18U and 6U)	7 Nos.
5(a)	12 port LIU fully loaded with SC Connector	02 Nos.
5(b)	6 port LIU fully loaded with SC Connector	03 Nos.
5(c)	LIU installation of 6 Port and 12 Port	05 Nos.
6	RJ 45 connector (one Box)	01 Nos.
7	Supply and installation of ½ inch casing capping	1600 mtr
8	Flexible pipe 1” inch	50 mtr
9	Wall mounted Iron grided Cage with lock (having single Key for all locks) for wireless Access safety with installation	56 Nos.
10	Wireless .ac wave 1 Access point with 3 years warranty	56 Nos.
11	Wireless controller with 56 Access Point license with 3 years warranty	01 Nos.
12(a)	8-port switch POE with 3 years warranty	04 Nos.
12(b)	1 G SFP multi-mode (Multi mode transceiver)	08 Nos.
13(a)	24 port- POE L2 managed switch 10/100/1000 Mbps with 4 1G module Modules with 3 years warranty	04 Nos.
13(b)	1 G SFP Single-mode (Single mode transceiver module)	02 Nos.
Note:		
1	All the Accessories/Components/ Software/ IOS/ License which are provided by default by the manufacturer must be supplied along with the devices.	
2	3 years onsite warrantee is required to cover all devices	

		ANNEXURE- B
Details of Technical Specifications of Networking Equipments (Active & Passive both)		

Ref:	Tender document No: S&P/2017/418 date:21/09/2017
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Item No. 1(a) (6 Core 9/125 SM Fiber cable with laying cost (overhead laying Pole to Pole))			
S. No.	Specification	Complied (Y/N)	If No, Remark
1	Fiber cable should have 6 core of 9/125um with single mode		
2	Installation of Fiber cable pole to pole laying overhead		
Item No. 1(b) (6 Core 50/125 micron MM Fiber cable with laying cost (overhead laying Pole to Pole))			
S. No.	Specification	Complied (Y/N)	If No, Remark
1	Fiber cable should have 6 core of 50/125 micron with multi mode		
2	Installation of Fiber cable pole to pole laying overhead		
Item No. 1(c) (Fiber splicing)			
S. No.	Specification	Complied (Y/N)	If No, Remark
1	Joining fiber cable core at both end		
Item No. 2(a) (Fiber patch cord single mode SC-LC)			
S. No.	Specification	Complied (Y/N)	If No, Remark
1	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:		
2	Optical Fiber – Corning Single Mode		
3	Connector: Zirconia ceramic ferrule		
4	Pre-radiuses and pre-polished ferrule		
5	Color-coded Yellow for SM		
6	Insertion Loss - <0.2 db		
7	Cable: 9/125, SM		
8	Repeatability - < 0.2 db		
9	Durability – 1000 mating cycle		
10	Working Temp : -40 deg C.to + 85 deg. C		
11	Standard : G652D, G 657A & G 657B		
Item No. 2(b)(Fiber patch cord Multi mode SC-LC)			
S. No.	Specification	Complied (Y/N)	If No, Remark
1	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:		
2	Optical Fiber – Corning Multi Mode		
3	Connector: Zirconia ceramic ferrule		
4	Pre-radiuses and pre-polished ferrule		
5	Color-coded Orange for MM		
6	Insertion Loss - <0.2 db		
7	Cable: 9/125, MM		
8	Repeatability - < 0.2 db		
9	Durability – 1000 mating cycle		
10	Working Temp : -40 deg C.to + 85 deg. C		
11	Standard : G652D, G 657A & G 657B		

Item No. 3(a) (CAT6 cable 305m)			
S. No.	Specification	Complied (Y /N)	If No, Remark
1	CAT 6 Boc 305mtr roll,4-pair unshielded twisted pair (UTP) cable with 23 AWG solid copper, Verified compliant with EIA/TIA standards		
Item No. 3(b) (Installation of CAT6 Laying)			
S. No.	Specification	Complied (Y /N)	If No, Remark
1	Cable connection from switches to access point		
Item No. 4(a) (Rack 18U wall mount)			
S. No.	Specification	Complied (Y /N)	If No, Remark
1	Racks Size: Height - 18U		
2	The rack shall be Conforms to DIN 41494 OR equivalent ISO Standards		
3	Adjustable 19" equipment mounting verticals provide the better mounting flexibility, and maximizes the usable mounting space		
4	The rack shall have Depth adjustable mounting slots		
5	The rack shall Top and bottom Panel with ventilation and cable entry facility		
6	The rack shall have provision to mount the cooling fans on the top panel		
7	The rack shall be powder coated finish.		
8	Grounding and Bonding Options.		
9	The Rack should be equipped with Cooling Fans, Cantilever Shelf, Cable Organizers, Power Distribution Units, Grounding Kit		
10	Front Door should be Lockable Toughened Glass Door		
Item No. 4(b) (Rack 6U)			
S. No.	Specification	Complied (Y /N)	If No, Remark
1	Racks Size: Height - 6U		
2	The rack shall be Conforms to DIN 41494 OR equivalent ISO Standards		
3	Adjustable 19" equipment mounting verticals provide the better mounting flexibility, and maximizes the usable mounting space		
4	The rack shall have Depth adjustable mounting slots		
5	The rack shall Top and bottom Panel with ventilation and cable entry facility		
6	The rack shall have provision to mount the cooling fans on the top panel		
7	The rack shall be powder coated finish.		
8	Grounding and Bonding Options.		
9	The Rack should be equipped with Cooling Fans, Cantilever Shelf, Cable Organizers, Power Distribution Units, Grounding Kit		
10	Front Door should be Lockable Toughened Glass Door		
Item No. 4(c) (Installation of Rack (18U and 6U))			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	Fixing of 18U and 6U rack with wall		
Item No. 5(a) (LIU 12 port fully Loaded)			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	Have sufficient slots accommodate Simplex/duplex SC.		
2	LIU should be loaded with plates & adapter and 1m SC Single mode pigtailed.		

3	Aluminum base material for light mounting		
4	Should have Splice Tray & Cable Spool provision inside		
5	Accessory kit consists of cable ties, mounting ear screw earthing and spiral wrap tube.		
6	Panel cover should be slide out for easy maintenance		
7	Can Include 48 LC,24SC,24 ST and 24 FC Terminations		
8	Removable Rear & Front cover for better access to interior of LIU		
Item No. 5(b) (LIU 6 port fully Loaded)			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	Have sufficient slots accommodate Simplex/duplex SC.		
2	LIU should be loaded with plates & adapter and 1m SC Single mode pigtails.		
3	Aluminum base material for light mounting		
4	Should have Splice Tray & Cable Spool provision inside		
5	Accessory kit consists of cable ties, mounting ear screw earthing and spiral wrap tube.		
6	Panel cover should be slide out for easy maintenance		
7	Can Include 48 LC,24SC,24 ST and 24 FC Terminations		
8	Removable Rear & Front cover for better access to interior of LIU		
Item No. 5(c) (Installation of LIU 12 port and LIU 6 port fully Loaded)			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	Installation of 12 port and LIU 6 port fully loaded rack within 18U rack		
Item No. 6 (RJ 45 connector (one Box))			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	Connector required for connecting CAT6 cable with switch port		
Item No. 7 (Supply and installation of ½ inch cashing capping)			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	Supply 1/2" cashing pipe for CAT6 cabling		
2	Fixing of cashing and capping		
Item No. 8 (Flexible pipe 1" inch)			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	Supply 1" cashing pipe for CAT6 cabling		
2	Fixing of cashing and capping		
Item No. 9 (Wall mounted Iron grilled Cage with lock for wireless Access Point safety with installation)			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	wall mounted iron grilled cage with installation in wall		
2	wall mounted iron grilled cage with lock for access point security		
3	All wall mounted iron grilled cage should have common single key		
Item No. 10 (Wireless .ac wave 1 Access point with 3 years warranty)			
S. No.	Specifications	Complied (Y /N)	If No, Remark
1	Access Points proposed must include radios for both 2.4 GHz and 5 GHz.		
2	Access point must have two Ethernet ports.		
3	Access point should have serial/console port		
4	An access point must include a standard OEM provided Mounting brackets for mounting on Ceiling or Roof top.		

5	Must support 3X3 multiple-input multiple-output (MIMO)		
6	Must support simultaneous 802.11ac on 5 GHz radios and 802.11n on 2.4GHz Radio.		
7	Access point must support a minimum of 1 Gbps user throughput including both the radios		
8	Must support 40 and 80 MHz wide channels in 5 GHz.		
9	Must support minimum of 22dbm of transmit power in both 2.4GHz and 5GHz radios. And should follow the WPC norms.		
10	The AP must be capable of optimizing the SNR exactly at the position where 802.11a/g/n/ac client is placed (beam forming) without requiring any support from clients, hence it should work with all 802.11a/g/n/ac clients.		
11	Should have capability to detect and classify non-Wi-Fi wireless interferences while simultaneously serving network traffic		
12	Must support AP enforced load-balance between 2.4GHz and 5GHz band.		
13	Must have -100 dB or better Receiver Sensitivity.		
14	Must incorporate radio resource management for power, channel, coverage hole detection and performance optimization		
15	The APs shall provide fast roaming for data and voice clients. There will be no deterioration of voice for clients roaming from one AP to another, roaming from one controller to another.		
16	Must support Management Frame Protection.		
17	Must operate as a sensor for wireless IPS		
18	Access Points shall have a hardware based encryption between Client and the Access point.		
19	Access Points must support Hardware-based encrypted user data and management traffic between controller and Access point for better security.		
20	Must support Spectrum analysis including @ 80 MHz		
21	Same model AP that serves clients must be able to be dedicated to monitoring the RF environment.		
22	Should support mesh capabilities for temporary connectivity in areas with no Ethernet cabling.		
23	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.		
24	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.		
25	Mesh should support QoS for voice over wireless.		
26	Must be plenum-rated (UL2043).		
27	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.		
28	Must support 16 WLANs per AP for SSID deployment flexibility.		
29	Must support telnet and/or SSH login to APs directly for troubleshooting flexibility.		
30	Must support Power over Ethernet, power adaptor, and power injectors.		
31	802.3af (15.4W) - The access point can be powered by any 802.3af/802.3at -compliant device		
32	WiFi Alliance Certification for WMM and WMM power save		

33	The wireless infrastructure should support intelligent multicast handling mechanisms. The APs shall support IGMP snooping and IGMP pruning. APs should not broadcast multicast packets if no multicast client is present. The controller shall support unicast and multicast delivery methods for delivering the multicast traffic down to the APs.		
34	Must support QoS and Video Call Admission Control capabilities.		
Item No. 11 (Wireless controller with 56 Access Point license with 3 years warranty)			
	Wireless Architecture	Complied (Y /N)	If No, Remark
S. No.	Specifications		
1	Wireless deployment should be on a centralized controller-based architecture providing seamless scalability		
2	The architecture should be scalable to support 1500 APs in the campus		
3	Solution should support application visibility and control		
4	Should support Band Steering/Band Select to force clients with dual band support to register to only 5Ghz, thus freeing up capacity in 2.4Ghz		
5	Supports complete local AAA authentication and including 802.1x as primary or backup to a centralized AAA server		
6	It should have functionality to create guest user id and password with lobby ambassador help/IT helpdesk including support for external CP		
7	The WLAN must support either internal RADIUS server or external RADIUS servers for user authentication		
8	Solution should support Campus or Public Cloud mode of management for Management and Control		
9	The solution must have guest portal handling capabilities.		
10	Solution should also support Hotspot 2.0 (IEEE 802.11u)		
11	Should support IEEE 802.1x with multiple EAP types (TLS or EAP/MSCHAP or TTLS or equivalent)		
12	Wireless system should support IPv6 from Day 1		
13	Radio Resource Management capabilities for radio self-test and healing shall be supported by the solution		
14	Wireless solution shall support IEEE 802.1q – VLAN Tagging		
15	Wireless solution shall support IEEE 802.1p – Layer 2 Traffic Prioritization		
16	Wireless solution shall support IPv6 Control for an increased wireless device density through control of unnecessary IPv6 traffic on IPv4-only networks		
17	Solution must have capabilities to set a maximum per-user bandwidth limit on per-SSID basis		
	WIRELESS CONTROLLER		
18	The controller shall have two 10Gb ports		
	The controller shall support 1500 access points without hardware change		
	Shall support 15,000 users.		
	Shall support 1+1 ,N+1 ,N+N redundancy models		
	The primary controller should have the capabilities to cater all the APs independently and incase of any failure the secondary/redundant controller should take entire load		
	WLAN controller management features		
19	Shall support spectrum analysis from day one - to detect and mitigate non Wi-Fi interference		
20	Shall support band navigation/band select functionality to enables redirection of 5Ghz clients to 5Ghz radio		

21	Shall support VLAN pooling which ensures assignment of VLANs to SSID		
22	Shall support AP grouping to enables an admin to easily apply AP-based or radio-based configurations to all the AP that are in the same group		
23	Controller/Solution should have basic profiling capabilities		
24	Controller should support deep packet inspection for all user traffic across Layer 4-7 network to analyses information about applications usage, peak network usage times for all access points from day one in a central and local switching mode		
	WLAN controller security features		
25	Shall support integrated system of detection for wireless intrusion.		
26	Controller should support Rogue AP detection and classification and should have WIPs signatures		
	WLAN controller performance features		
27	Shall support layer 3 roaming and fast roaming		
28	Shall support airtime fairness		
29	Shall support client load balancing based on sessions and traffic load		
30	Shall support bandwidth limiting per SSID		
	WIRELESS LAN MANAGEMENT		
31	WMS should support following broad life cycle management features:		
32	WMS should support following key features:		
33	WMS dashboard should provide real time summary of status and activity based on parameters such as:		
34	It should be possible to drill down to individual AP station(s) for troubleshooting and proactive station monitoring, alerting on errors, rates, signal levels		
35	It should be possible to Assign and configure newly discovered Wireless APs with default or pre-selected policies & Configuration templates applied to individual or AP groups		
36	Solution should support Layer 2 and Layer 3 roaming		
37	It should be possible to locate function in map showing station location &		
38	Use signal from multiple APs for location identification & should also display station/rogue details		
39	WMS should have ability to display heat maps and clients		
40	Wireless solution should support techniques for automation of configuration and service provisioning & also simplify adds, moves, and changes of authenticated and authorized network endpoints		
41	Wireless solution should support complete AAA authentication, including 802.1x, as primary or backup to a centralized AAA server		
42	WMS Software should be installable on an VM environment or appliance		
43	WMS should have functionality to generate graphical maps showing wireless coverage heat maps, devices and location		
44	Solution should support troubleshooting tools, packet capture and reports to resolve connectivity and performance issues		
45	Solution should allow automated deployment of new software image to one or more APs, or groups of APs for centralized management through controller		
46	Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID		
47	Web access (https) for configuration, SNMP v1, v2c, v3		
48	Syslog support for system monitoring		

Item No. 12(a) (8-port switch POE with 3 years warranty)			
Item	Specifications	Complied (Y /N)	If No, Remark
1	Switch should have minimum 8 10/100 Base-T ports with additional 2 Nos. of SFP Based ports or 2 x 1G copper		
2	Switch should support IEEE Standards of Ethernet: IEEE 802.1d, 802.1s, 802.1w, 802.3ad, 802.3x, 802.1D, 802.1p, 802.1Q, 802.3, 802.3u, 802.3ab, 802.3z, 1000BASE-T, 1000BASE-X (mini-GBIC/SFP), 1000BASE-SX, 1000BASE-LX/LH		
3	Switch should support Auto MDI/MDIX		
4	All SFP based ports should be hot swappable		
5	The switch should have IPV4 & IPV6 support from day one		
6	Switch should have minimum 10 Gbps switching bandwidth capacity (Gbps) per switch		
7	Switch should have minimum 4 Mpps throughput per switch		
8	It shall support IEEE 802.1s Multiple Spanning Tree Protocol and provide		
9	Legacy support for IEEE 802.1d STP and IEEE 802.1w RSTP and static routes.		
10	It shall support Jumbo packets up to 9,216-byte frame size to improve		
11	Performance of large data transfers.		
12	Should support IEEE 802.1Q VLAN encapsulation and up to 250 active & 4000 vlan id		
13	VLANs per switch		
14	Switch should support Voice VLAN		
15	Should be able to discover the neighboring device of the same vendor		
16	giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems		
17	It shall support protected ports to isolate specified ports from all other		
18	Ports on the switch.		
19	It shall support port security, MAC lockdown and MAC lockout.		
20	Switch Should support VLAN Based, Port Based ACLs.		
21	It shall support IEEE 802.1X user authentication using an IEEE 802.1X		
22	Supplicant in conjunction with a RADIUS server.		
23	It shall support BPDU port protection preventing forged BPDU attacks.		
24	It shall support TACACS+ or RADIUS authentication for secure switch CLI		
25	Logon.		
26	It shall support management access (CLI, Web, MIB) securely encrypted		
27	through SSHv2, SSL, and SNMPv3.		
28	Per-port storm control for preventing broadcast, multicast, and unicast storms		
29	It shall support IEEE 802.1AB Link Layer Discovery Protocol (LLDP)		
30	It shall support IEEE 802.1p traffic prioritization delivering data to devices based on the priority and type of traffic.		
31	Shall have strict priority queuing or high strict priority queue		
32	Should Support for IGMP v1, v2 and v3, MLD V1, V2 & IGMP Snooping		
33	It shall support SNMPv1/v2c/v3.		

34	It shall support RMON providing advanced monitoring and reporting		
35	Capabilities for statistics, history, alarms, and events.		
36	It shall have full-featured console port providing complete control of the		
37	Switch with a familiar command-line interface (CLI).		
38	Switch should support Debugging via cli via console, telnet, ssh		
39	Switch should support Traffic mirroring (port, vlan)		
Item No. 12(b) (Optical Transceiver-1GBASELR module)			
S. No.	Generic Requirements	Complied (Y/N)	If No, Remark
1	Vendor should provide a transceivers meeting the following requirements as a minimum:		
2	Transceiver shall support Multimode mode 1Gbps communication		
3	Must be from the same OEM for switching solution		
4	Operating Temperature: 0° C to +40° C (32° F to 104° F)		
5	Operating Humidity: 10% to 93% non-condensing		
Item No. 13(a) (24 port- POE L2 managed switch 10/100/1000 Mbps Modules with 3 years warranty. Each switch should be populated with 3 No. of 10 km Single Mode Fiber Modules.)			
S. No.	Generic Requirement	Complied (Y/N)	If No, Remark
1	The switch should support a minimum of 24 nos. 10/100/1000 Ethernet Ports		
2	The switch should support a minimum of 4 SFP Uplinks		
3	The switch should support a total of 28 Ports		
4	The switch should support Forwarding bandwidth of 100 Gbps or more		
5	The switch should support Full-duplex Switching bandwidth of 200 Gbps or more		
6	The switch should support 64-Byte Packet Forwarding Rate of 71.4 Mbps		
7	The switch should support a Dual Core CPU		
8	The switch should support 512 MB of DRAM		
9	The switch should support 4096 VLAN IDs		
10	The switch should support 16000 Unicast MAC addresses or more		
11	The Switch should be 1RU		
12	The switch should support Stacking up to 8 switches with dedicated stacking port		
13	Stacking should support 80 Gbps or more of throughput		
14	The switch should support PoE+ (IEEE 802.3at)		
15	The switch should support flexible power allocation across all ports		
16	The switch should support 24 ports up to 15.4W		
17	The switch should support 12 ports up to 30W		
18	The switch should support Per port PoE power sensing to measure actual power being drawn		
19	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)		
20	The switch should support IEEE 802.1x, IEEE 802.1ab (LLDP), IEEE 802.3ad Link Aggregation Control Protocol (LACP)		
21	The switch should support Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors		
22	The switch should support IEEE 802.1Q VLAN encapsulation		
23	The switch should support Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically		

24	The switch should support Spanning-tree root guard to prevent other edge switches becoming the root bridge.		
25	The switch should support IGMP filtering		
26	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.		
27	The switch should support Per-port broadcast storm control to prevent faulty end stations from degrading overall systems performance		
28	The switch should support Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN		
29	The switch should support Local Proxy Address Resolution Protocol (ARP) working in conjunction		
30	The switch should support Configurable IGMP Leave Timer		
31	The switch should support IPv4 unicast Static Routing		
32	The switch should support 16 IPv4 Static routes or more		
33	The switch should support diagnostic commands to debug issues		
34	The switch should support system health checks within the switch		
35	The switch should support 4 egress queues per port to enable differentiated management		
36	The switch should support scheduling techniques for QoS		
37	The switch should support Weighted tail drop (WTD) to provide congestion avoidance		
38	The switch should support Standard 802.1p CoS field classification		
39	The switch should support Differentiated services code point (DSCP) field classification		
40	The switch should support Control- and Data-plane QoS ACLs		
41	The switch should support Strict priority queuing mechanisms		
42	The switch should support Rate Limiting function to guarantee bandwidth		
43	The switch should support rate limiting based on source and destination IP address		
44	The switch should support rate limiting based on source and destination MAC address		
45	The switch should support rate limiting based on Layer 4 TCP and UDP information		
46	The switch should support availability of up to 256 aggregate or individual polices per port or more.		
47	Switch should support 802.3az for energy efficient Ethernet		
48	The switch should support taking of action based on business rules to reduce power consumption		
49	The switch should support IEEE 802.1x to allow dynamic, port-based security, providing user authentication.		
50	The switch should support Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.		
51	The switch should support SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.		
52	The switch should support TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.		
53	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.		
54	The switch should support Port security to secure the access to an access or trunk port based on MAC address.		

55	The switch should support Multilevel security on console access to prevent unauthorized users from altering the switch configuration.		
56	The switch should support Private VLAN		
57	The switch should be on the approved list of IPv6 Ready Logo phase II - Host		
58	The switch should support IPv6 unicast Static Routing		
59	The switch should support 16 IPv6 Static routes or more		
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		
Item No. 13(b) (Optical Transceiver-1GBAsLR module)			
S. No.	Generic Requirements	Complied (Y/N)	If No, Remark
1	Vendor should provide a transceivers meeting the following requirements as a minimum:		
2	Transceiver shall support single mode 1Gbps communication		
3	Must be from the same OEM for switching solution		
4	Operating Temperature: 0° C to +40° C (32° F to 104° F)		
5	Operating Humidity: 10% to 93% non-condensing		

		ANNEXURE- C
PRIMARY COMPLIANCE STATEMENT		
Ref:	Tender Document No: S&P/2017/418 dated 21/09/2017	

SI No	Institute Requirement as per tender document	Compliance		Deviation if any
		Yes/ No	Ref Page No	
1	Undertaking for participation As per ANNEXURE-E			
2	Copy of Certificate of Registration of Company/ firm/ Agency			
3	Copy of valid GST No:			
4	EMD of Rs. 1,00,000.00			
5	Copy of Purchase order/ work Completion certificate			
6	Authorization Certificate from Original Equipment Manufacturer ANNEXURE-F			
7	Declaration for clean track record			
8	Copy of Balance Sheets of last three years.			
9	Copy of Income Tax Returns of last three years			
10	Copy valid ISO certificate OEM.			

Seal & Signature of Bidder

		ANNEXURE- D
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/2017/418 dated 21/09/2017
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SI No	Make & Product No	Product Description	Single Product price	Quantity	Total price
1	2	3	4	5	6(4*5)
Total					
Total (In Words)					

The followings things are confirmed and undertake by us that:	
a	The price quoted above are inclusive of basic price, statutory levies and taxes, duties, Transportation, Incidental services (including Insurance, Loading/ unloading, Packing & Forwarding charges, Installation etc.) at site.
b	We will not charge any additional/ increase in rate of taxes occurring during the period of delivery.
c	Offer price shall be valid for a period of 90 days from the date of opening of Technical bid of this tender
d	We will be agreed to offer services for on-site comprehensive warranty on the Networking Equipments supplied through this tender for three (3) years
e	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- E
	(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/2017/418 due for opening of Technical bid on 12/10/2017.
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Dear Sir,

HAVING EXAMINED AND PERUSED THE FOLLOWING DOCUMENTS	
1	Notice Inviting Tender
2	Instruction to Bidders
3	Bill of Material (Annexure-A)
4	Technical Specifications of Networking Equipments (Annexure-B)
5	Primary Compliance Statement with reference to Technical Bid (Annexure- C)
6	Price Bid (Annexure- D)
<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- F
MANUFACTURERS AUTHORIZATION FORM		
No:	Date:	
To,		

Ref:	Tender document No: S&P/2017/418 dated:21/09/2017
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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 Clause4 of the Chapter-1 (Instructions to Bidders) Contract for the goods and services offered for supply by the above firm against this Tender.</p> <p style="text-align: right;">Yours Faithfully,</p> <p style="text-align: right;">(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. It should be included by the Bidder in its bid.

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

Form of Performance Bank Guarantee/Bank Guarantee

BG No:	To,
Date:	The Director
From	Maulana Azad National Institute of Technology
The Name of the Bank	Bhopal- 462 003

In consideration of the Maulana Azad National Institute of Technology, Bhopal- 462 003 (hereinafter called “The INSTITUTE”) having offered to accept the terms and conditions of the proposed agreement between The Institute.....and..... (Hereinafter called “the Contractor(s)” for the work..... (Hereinafter called “the said agreement”) having agreed to production of an irrevocable Bank guarantee for Rs... (Rupees.....only) as a security/guarantee form the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We (Hereinafter referred to as the ‘Bank’) hereby undertake to

(Indicate the name of the Bank) Pay to the Institute an amount not exceeding Rs..... (Rupees only) on demand.

2. We... (Indicate the name of the Bank) Do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the Institute stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs..... (Rupees only).

3. We, The said Bank, further undertake to pay to the Institute any money so demanded notwithstanding any disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under, and the contractor(s) shall have no claim against us for making such payment.

4. We (indicate the name of the Bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement, and it shall continue to be enforceable till all the dues of the Institute under or by virtue of the said agreement have been fully paid, and its claims satisfied or discharged, as per the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s), and accordingly discharges this guarantee.

5. We.....(name of the bank)..... further agree with the Institute that the Institute shall have the fullest liberty without our consent, and without effecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Institute against the said contractor(s), and to forbear or enforce any of the terms and conditions relating to the said agreement, and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said not be relieved from our liability by reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the Institute or any indulgence by the Institute to the said contractor(s) or by any such matter or thing whatsoever

which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This Guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We (Name of the bank)..... lastly under take not to revoke the Guarantee except with the previous consent of the Institute in writing. This bank Guarantee on the Bank or its successors or permitted assigns.

8. We..... (Indicate the name of the Bank)..... lastly undertake not to revoke this Guarantee except with (indicate the name of the Bank) the previous consent of the Institute extended on demand by the Institute. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs..... (Rupees.....only), and unless a claim/demand is made on the bank in writing on or beforeall your rights under the Guarantee will be forfeited and we shall be relieved and discharged from all liabilities there under.

Authorized Signatories of the Bank with name and Seal

Name of the Officer:

Designation:

Code if any:

Date:

Place: