

**Tender Fee: Rs.2,000/- (Inclusive of GST)
(Non-Refundable)**

विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान, नागपुर-४४००१०(भारत)

VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR-440 010 (INDIA)



TENDER DOCUMENT FOR

Providing LAN/Network/Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur

TENDER NO.: VNIT/STR/PLAN/2018-19/2 Dt. 19. 09.2018

DATE OF ISSUE OF TENDER : 19th September 2018
LAST DATE OF SUBMISSION OF TENDER : 18th October 2018 UP TO 3.00 P.M.
DATE OF OPENING OF TENDER : 18th October 2018 at 3.30 P.M.



VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR- 440 010 (INDIA)

TENDER NOTICE Advt. No: VNIT/STR/PLAN/2018-19/2 Dt. 19.09.2018

Tenders in Sealed Envelope are invited for

**Providing LAN/Network /Internet connectivity for
Newly constructed Boys and Girls Hostels at VNIT, Nagpur**

For complete details visit our website: www.vnit.ac.in. The bidders can download the tender form/ documents from **19/09/2018 to 18/10/2018** from Institute's website and send self addressed Envelope, invariably along-with bank draft of Rs.2,000/- (**Inclusive of GST**) (Rs. Two Thousand Only, **Non Refundable**) drawn in favour of The Director, VNIT, Nagpur, towards the cost of **TENDER ITEM FORM** to stores section along with the cost of each tender form. V.N.I.T will not be responsible for postal delay/ non-receipt of tender form/ D.D, sent through the post. Tender forms duly filled in all respect in Only original prescribed format, supplied by the VNIT, duly super-scribed, should reach office of the Stores officer, VNIT, Nagpur -440010, on or before **18/10/2018 upto 3.00 p.m**. The tenders are likely to be opened at **3.30 p.m** on the same day. The Director, VNIT reserves the right to accept or reject any or all tender offer.

For Enquiry contact Stores office, VNIT, Tele No : 0712-2801243, 2801369



विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान, नागपुर 440 010 (भारत)

निविदा सुचना क : VNIT/STR/PLAN/2018-19/2 Dt. 19.09.2018

निम्नलिखित मदो की खरीदी हेतु मुहरबंद आमंत्रित है ।

**Providing LAN/Network /Internet connectivity for
Newly constructed Boys and Girls Hostels at VNIT, Nagpur**

संपुर्ण जानकारी के लिए इच्छुक विक्रेता संस्थान कि वेबसाइट www.vnit.ac.in पर जा सकते हैं । इच्छुक विक्रेता निविदा प्रपत्र दि. **19.09.2018** से **18.10.2018** तक संस्थान कि वेबसाइट से डाउनलोड कर के स्वयं के पते युक्त लिफाफा भेजकर विज्ञापनक्र.उल्लेख कर के निविदा मद प्रपत्र के मुल्य हेतु रु. २०००/- (**Inclusive of GST**) (Non Refundable) बैंक ड्राफ्ट निदेशक वी.एन.आय.टी., नागपुर, के साथ निविदा प्रपत्र भंडार अनुभाग में भेज सकते हैं । डाक द्वारा विलंब होने पर / निविदा दस्तावेज न मिलने पर/ D.D न मिलने पर, वी.एन. आय. टी. (वि. रा .प्रो.सं) जवाब देह नहीं होगा । संस्थान द्वारा प्रदत्त केवल वास्तविक निर्धारित प्रपत्र को पूर्ण रुप से भर कर दि.**18.10.2018** के अपरान्ह **3.00 बजे** तक या इससे पूर्व भंडार अनुभाग (वि. रा .प्रो.सं) नागपुर मेजमा करे। निविदा उसी दिन अपरान्ह 3.30 बजे खोली जाएगी । किसी भी या सभी निविदाओ को अस्वीकृत करने का अधिकार निदेशक का होगा।

For Enquiry contact Stores office, VNIT, Tele No : 0712-2801243, 2801369

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

INVITATION of QUOTATION/TENDER for
Providing LAN/Network/Internet connectivity for
Newly constructed Boys and Girls Hostels at VNIT, Nagpur

Dear Vendor,

Sub: Tender Enquiry for Procurement of "**Providing LAN/Network/Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur**"

VNIT herewith invites tender / bid in sealed envelope for procurement of equipment "**Providing LAN/Network /Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur**". Interested bidders are requested to submit the most competitive bid / quotation, details below:-

Description of the Goods / Equipment	Specifications	Unit / Quantity	Delivery Period & Place of Delivery	Price	Earnest Money Deposit (EMD) Amount in Rs	Installation
Please refer enclosed "QFA/Bill of Material" for complete details	As per QFA/Bill of Material	As per QFA/Bill of Material	06 Weeks from the Date of award of PO / Contract	F.O.R. VNIT, Nagpur	Rs. 4,21,870=00 (Four Lakh Twenty One Thousand Eight Hundred & Seventy only) in form of DD / Pay Order/BG drawn on any of Nationalized Bank drawn in favor of the Director, VNIT, Nagpur [To be enclosed with the quotation in separate envelope]	Good(s)/Equipment(s) to be / installed / commissioned at place of Delivery by the bidder at Free of Cost

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

Schedule & Instructions for Tender/Bid Submission

Tender Ref. No: VNIT/STR/PLAN/2018-19/2 Dt. 19.09.2018

Item: Procurement of ""Providing LAN/Network/Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur

Date of Issue	:	19.09.2018
Last Date of Submission	:	18.10.2018 up to 3.00 pm
Tender Fee	:	Rs 2,000/- (inclusive of GST) through DD drawn in favor of Director, VNIT, Nagpur
Amount of EMD	:	Rs.4,21,870/-payable through DD /BG drawn in favor of Director, VNIT, Nagpur
Tender Opening Date& Time	:	19.10.2018 up to 3.30 pm

Submission of Bid

"**TWO BID**" viz. **Technical /Qualifying Bid** and **Price/Commercial Bid** Systems will be followed for this tender.

The Technical bid and the Financial bid should be sealed **in separate covers both duly super-scribed** and both these sealed covers are to be put **in a bigger cover** which should also be sealed and **duly super-scribed** with for "**Providing LAN/Network/Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur.**

For Technical /Qualifying Bid - Envelope to be super-scribed with "**TECHNICAL /QUALIFYING BID for Providing LAN/Network/Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur**" and should be submitted with prescribed Tender Fee & EMD and the associated supporting documents. Bill of material (**without any price**), indicating the compliance of technical specification should also be included with the qualifying bid. The Tender Fee & EMD(DD/BG) to be put in separate envelope.

For Price/Commercial Bid - Envelope to be super-scribed with "**PRICE/COMMERCIAL BID for Providing LAN/Network/Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur**" The Price should be indicated in the prescribed format in the Price/Commercial Bid only. Any other format will lead to disqualification.

Both above sealed covers are to be put **in a bigger envelope** which should also be sealed and **duly super-scribed** with - Tender Enquiry for "**Providing LAN/Network/Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur.**

The sealed envelope super-scribed with - Tender Enquiry for "**Providing LAN/Network/Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur**" and to be sent to **Dy. Registrar (Stores), VNIT, South Ambazari Road, Nagpur 440 010**. Sealed envelope can also be submitted in person in the "**Tender / Quotation Box**" kept in The Stores Section. VNIT, Nagpur. The last date of submission is **18th October 2018 by 3.00 P.M.**

Tender received after the last date / time of submission (as mentioned in tender notice) will not be considered and will lead to rejection.

Each envelope / cover should also indicate clearly the name and address of the bidder.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

General Instructions, Terms & Conditions for the Bidder/Vendor

1. Price Bid

- a) The Prices should be quoted F.O.R. VNIT, Nagpur
- b) The price/rates quoted by the bidder shall be FIRM & FIXED and shall not be variable on any account.
- c) The price bid shall be valid for a period of 180 days from the date of opening
- d) The duties, taxes and other levies payable by the vendor shall be shown separately in bidding document. The basic price per unit should be separately mentioned in price bid in the given format.
- e) Duties & taxes viz. Custom, GST, Freight / Transportation, Packing & Forwarding, Insurance, Price Ex-Works etc. shall be indicated separately in the given format only.
- f) **The bidder is requested for special educational discount to the Institute.**
- g) The contract shall be for the full quantity as described in QFA/Bill of Material. Correction if any, shall be made out by crossing out, initialling, dating and re-writing.
- h) In case of price quoted in foreign currency, its conversion rate to INR on the date of opening the quotation/tender shall be considered

2. Technical Bid

- a) The good/s offered must meet / comply with the Technical Specifications detailed in "**Technical/Qualifying Bid**" given in tender. In case of deviation if any, the firm's bid is liable to be treated as non – responsive.
- b) VNIT has the sole discretion to accept or reject tenders / bids based on deviations, if any, from the technical specification.
- c) The price bids of the bidders who **do not conform** to the Technical Specifications & Eligibility Criteria given in Technical/Qualifying bid will not be opened. The EMD of such bidder/s will be returned in due course.

3. Bid Evaluation

The Purchaser will evaluate and compare the bids determined to be substantially responsive i.e. which

- a) Are properly signed, and
- b) Confirm to the general terms and conditions, special conditions, and technical specifications.

4. Each Bidder shall submit only one bid.

5. **The Quotations would be evaluated in "QFA/Bill of Material" for all items together. Vendor should quote for each item as per "QFA/Bill of Material" failing which the bid will be treated as non-responsive.**

6. **Institute reserves the right to place the order on full items/quantity OR selected items/quantity**

7. Bidder shall submit Firm's registration certificate, GST registration certificate, PAN, Delivery Period, Warranty/Guarantee, others etc with the bid

8. Bidder shall furnish the information in the prescribed format of Technical and Price Bid only (as applicable). Any other format will lead to disqualification. Each and every document submitted with Technical and Price Bid should be duly signed & stamped. **Incomplete or Conditional Bid(s) will not be accepted.**

9. **Tender Fee:** The Tender fee of **Rs. 2000/- (Inclusive of GST)** in the form DD drawn in f/o Director VNIT, Nagpur should be sent along with technical bid. Firm/Vendor registered with the NSIC or MSME or SSI are having exemption from submission of tender fees. Firm/Vendor registration certificate in above respect will be essential to claim exemption.

10. **Earnest Money Deposit (EMD):** Bidder shall submit EMD in form of Demand Draft / Fixed Deposit Receipt / Bank Guarantee in favor of "**Director, VNIT Nagpur**" payable at Nagpur. The EMD to be submitted strictly in a separate envelope super scribed with Vendor / Firm's name & address & also on back side of DD with stamp. **Bid received without EMD will be summarily rejected.** Firms / Vendors registered with the NSIC or MSME or SSI are having exemption from submission of EMD. Firms / Vendors registration certificate in above respect will be essential to claim exemption.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

11. **Specification and Make:** Bid should be given for the exact specification and make as shown in the tender enquiry against Sr. No. of the item / good. The bid which is not as per our tender enquiry will be treated as non responsive.
12. **Client List:** Bidder shall furnish information of Client list along with the order copy of similar good/s / equipment supplied to any IIT/NITs/ any Govt. Organization including details of price & all other charges / duties with the bid.
13. **ISI Certification:** Where ISI certification marked goods /items are available in market, procurement should generally be limited to goods with those or equivalent marking only.
14. **Authorization Certificate:** Bidder should enclose latest authorization certificate from their principal / original equipment manufacturer (OEM).
15. **Taxes:** GST or any other taxes as per Govt. norms shall be applicable from time to time. The % of Tax must be indicated separately in the bid.
16. **Valid Period of Quotation/offer:** The bidder should clearly mention the valid period of quotation/offer in the bid. The quotation/offer shall be normally valid for a period of 180 days from the date of opening the tender.
17. **Rate Contract:** If the Good/s under enquiry is mentioned under the Govt of India, DGS & D rate contract, Vendor shall supply the good/s at DGS & D contract rate as VNIT Nagpur is Government of India's Institute of National Importance under the Ministry of HRD.
18. **Installation:** Goods / Equipments shall be delivered / installed at concerned laboratory / department of VNIT by the Bidder at free of cost.
19. **Service centre:** Vendor shall provide the details of Service Centre in Nagpur or other region with name of contact person, their contact nos. & address.
20. **Payment:** Institute will release the full & final (100%) payment after delivery of items and its successful installation/ demonstration at concerned department / laboratories of VNIT Nagpur. The vendor will be required to submit the bills in triplicate along with delivery memo. Payment will be made through Crossed Cheque / ECS / NEFT / RTGS/Letter of Credit (LC). For electronic payment mode, Firm / Company bank details on letter head will be required.
21. The quantity may increase / decrease as per requirement and payment will be made as per actual supply on the rates quoted by your firm.
22. Ref. No. of this tender / quotation enquiry must be mentioned on envelope / cover containing quotation.
23. Vendor shall enclose copies of all essential certificates / documents, failing which the bid is liable to be disqualified. Each document enclosed with bid should be duly self-attested with stamp/seal by the vendor, failing which submitted quotation will be treated as non-responsive.
24. Any certificate / document above submitted by the vendor are found to be incorrect / false/ forged/ fake, intentionally / un-intentionally at any stage, will lead to disqualification of vendor. Institute shall be free to take any action by blacklisting the vendors firm.
25. Incomplete or conditional quotation/bid shall be summarily rejected
26. **Educational Discount:** VNIT, Nagpur is a Govt of India's Institute of National Importance engaged in education & research of National & International repute, the Vendors shall give / offer the special educational discount on quoted rates.
27. The vendor shall take full responsibility in case of any damage, loss or injury to any person / building or to any part thereof, and shall repair / and make good the loss, at his own cost.
28. **Turnover:** Balance sheet, profit & loss account for the preceding 3 financial year must be enclosed as an evidence of the financial requirement.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

29. Guarantee or Warranty & Delivery of Goods

- a) **Guarantee/Warranty:** Normal comprehensive **Warranty/ Guarantee of 7 years** shall be applicable to the supplied goods. In case any part or whole of the equipment is found to be defective during the guarantee period, then the same will have to be replaced/repaired free of cost at our premises. The Vendor should guarantee that the good/s and its accessories supplied are complete in every respect and confirm to the technical specification mentioned in the Bill of Material
- b) **Performance Guarantee:** A performance guarantee of 10% of the total invoice value for good/s costing 10 Lacs & above, and valid for Seven years & Six months covering the entire warranty period will be required from the vendor executing the purchase order. In case of violation of any of the conditions of guarantee / warranty (for Seven years), the aforesaid performance guarantee shall be invoked by VNIT.
- c) **Delivery of Goods –**
- i) Vendor shall deliver/supply the goods within **06 weeks** period.
- ii) Goods shall be supplied / delivered by the bidder at the installation site in concerned laboratory/ department of VNIT, Nagpur at free of cost on working days. Vendor shall strictly be adhered to above, failing which **Liquidated Damages Clause** will be applicable.
- iii) Goods should be securely, safely and adequately packed and dispatched at the risk of supplier. Purchase order Ref. No. & Date must be mentioned/should be kept in all packing's.
- iv) Bidder shall deliver the goods in concerned laboratory/department perfectly before 4.00 pm on any working day/s. Delivery of goods will not be accepted on Saturdays, Sundays and Institute Holiday.

30. Liquidated Damages Clause:

Penalty may be imposed as per P.O. terms and conditions. Goods should be securely, safely and adequately packed and dispatched at the risk of supplier and packing costs quoting this order reference should be kept in all package. Firms are requested to deliver the goods in our stores/section/department before 4.00 pm on any working day/s.

- i) The Director, V.N.I.T. Nagpur reserves the right to recover from the vendor, liquidated damages a sum equivalent to 1/2 percent of the price of the undelivered stores at the stipulated rate for each week or part thereof, during which the delivery of such stores, may be delayed subject to, a maximum limit in the case of an order exceeding Rs. One Lakh in value, upto **10** percent and in the case of an order not exceeding Rs. One Lakh in value upto **5** percent of the stipulated price, of the stores so undelivered.
- ii) To purchase elsewhere, on vendor's accounts, at his risk, the stores etc. undelivered, or other of a similar description, where others exactly employing with the particulars, are in the opinion of the Director, Visvesvaraya National Institute of Technology, Nagpur are not readily procurable, without cancelling the contract, in respect of consignment not yet due for delivery.
- iii) If the Supplier fails to deliver the material/goods within the stipulated delivery period, then Amount of EMD given by the Vendor shall be forfeited. In case of Supplier [registered with MSME/NSIC/SSI etc.] not required to submit the EMD, the Institute reserves the right to initiate action including reporting to principal Govt authorities.
- i) To cancel the contract.
- In the event of action being taken under (b) or (c) above, the vendor shall be liable to make good for any loss, which the Institute may sustain, by reason of higher price of stores, so purchased or the otherwise, howsoever :
- The decision of the Director, Visvesvaraya National Institute of Technology, Nagpur shall be final as regards to the acceptability of stores supplied by the seller and the Director, Visvesvaraya National Institute of Technology, Nagpur, shall not be required to give any reason in writing or otherwise at any time for the rejection of stores.

31. Award of Purchase Order / Work Contract

- a) Notwithstanding the above, the Purchaser reserves the right to accept or reject any bid and to cancel the bidding process and reject all bids at any time prior to the award of contract.
- b) The Purchaser will issue the **Purchase Order / Work Contract** to the vendor / bidder whose bid has been determined to be substantially responsive and who has offered the lowest evaluated bid price. The terms of the accepted offer shall be mentioned in the purchase order.
- c) On receiving of order by vendor, the vendor shall deliver / supply / install the good/s at free of cost up to installation site of concerned department of VNIT, Nagpur, failing which cost of delivery / installation will be deducted from the Vendors bill payment.
- d) After receiving of the Purchase Order / award of contract, it will be Vendor's obligation / responsibility to supply or delivery of the good/s as per specifications within specified time schedule.
- e) Expression of vendor's inability for the supply or delivery of good/s as per specifications will lead to cancellation of PO and EMD (as submitted) will be forfeited. Further Institute may also disqualify / debar the Vendor from participating in any of its future enquiries for a period as recommended by institute authorities.

32. Post Delivery / Installation Warranty & Support:

- a) The Vendor should have their office or authorized representative / dealer in Nagpur. They should mention in detail their support infrastructure by which minimum downtime will be ensured.
- b) The Vendor shall submit details of Service Centres / Factory and information on service support facilities that would be provided after warranty period [Form].
- c) The Vendor will have to give undertaking that in case of any breakdown / damages during warranty period the goods / equipment will be restored back to its original status within **twelve hours** (This may include replacing some spares also).

33. Any corrigendum / amendment regarding this tender enquiry will be issued on institute website only. [<http://stores.vnit.ac.in>]

34. Director, VNIT, Nagpur reserves the right to accept or reject or cancel any or all enquires or bids/PO at any stage without assigning any reason thereof.

35. For any disputes, the place of jurisdiction shall be Nagpur, Maharashtra (India) only

36. It will be presumed that the vendor has read carefully all the above mentioned instructions, terms & conditions and abide by same.

37. All Communication are to be addressed to –
Director
Visvesvaraya National Institute of Technology,
South Ambazari Road,
Nagpur 440 010
Maharastara (India)

38. We look forward to receiving your bids and thank you for your interest in this project.

**Sd/-
Dean (P & D)
VNIT, Nagpur**

**TECHNICAL/
QUALIFYING BID**

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

Technical Specifications and Eligibility Criteria**[A] Technical Specifications****QUOTATION FORMAT ANNEXURE (QFA)**

REF NO.: VNIT/STR/PLAN/2018-19/2 Dt. 19.09.2018

A) Technical Specification – Quotation Format Annexure (QFA):

Name and Specification of the Quotation Item							
A	Active Components		Total Qty	Rate	Amount	GST	Total Amount
1	a) Edged switches (Details as per Annexure-I) b) Edged Switches (Details as per Annexure-I-a)	U	90				
2	Wireless Controller with support of 1000 AP (including Configuration and installation) a) License for 60 APs b) License for 500 APs c) License for 1000 Aps Note: Any one option(from a to c) will be selected by the VNIT, The quoted rate must be valid upto one year for procurement of new AP License) Details as per Annexure-V) The Institute may opt for the second controller to connect in HA with required license, so the bidder must quote the price for the 2nd controller with HA License, if any. It is not mandatory for the institute to procure the second controller. The price of second controller will be considered for qualifying the L1 bidder.(details as per Annexure-V except HA connection)		1				
			1 with HA License (optional)				
3	Indoor Access Points With 4 Nos. external Antenna with PoE power supply (With all required accessories to connect in network) Details as per Annexure-VI)		60				
4	1Gbps Fiber Module Single Mode		5				
B	Passive Components						
B-i	UTP Components						
	LAN/Network Connectivity (Fixing of Rack , switch , patch panel, Cat- 6 UTP Cable - Patch cord 1 Meter, Patch Panel 48 port with required PVC conduit and Casing, if any and other required accessories and labelling. All switches should have uplink properly on each floor from the central switch connected in Hostel where the fiber will be terminated. All switches must have unique IP address to manage centrally through core switch from Network Center) (Cabling system as per Annexure-II & IV)	U	Connectivity (for 2400 points)				
	NOTE: The UTP cable termination from the room till the rack position had already done. The vendor has to connect the switch via patch panel in the rack. Labeling and identification mark for the switch/Port/Rack need to done properly. The network connection should be done thoroughly in order to get network/internet access in the hostel rooms. The switch should able to connect with network center Core switch. Payment will be done as per actual.						

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

	I/O Box (Kindly quote the rate, This rate should be valid till 7 years)		50				
	Fibre link(s) from 1. HB10 to newly constructed Boys Hostel (including 12 Single Mode core armored OFC and related accessories with digging and HDPE pipe. 2) Kalpana Building girls hostel to newly constructed Girls Hostel (including Single Mode 12 core armored OFC and related accessories with digging and HDPE pipe.		1				
			1				
	NOTE: The number of switches and APs may vary depending upon the requirement. So the number may increase or decrease as per requirement), payment will be done according to supply. Switches acquired by any other company will not be acceptable.						
C	Network Rack						
1	12 U Network Rack (As per Annexure-III) (considering 2 racks in each floor, hostel have two wings- Wing A and Wing B)		50				
D	Network Monitoring Systems with required hardware (and required software/patches, if any) for 300 devices from day one, which should be capable of managing 1000 devices in future with required licenses. (Which includes monitoring of existing devices as well as new devices procured later. It should be able to access all make of devices like switches, APs and controllers,etc.). One time License. Firmware and software upgradation, installation and maintenance will be the scope of the bidder till the service and support contract.		1				
						Grand Total	

Annexure -I

Annexure – I (Technical Specification for 48 Port Switch with 4 SFP managed Switch)	
1	The switch should have at least 48 nos. of 10/100/1000 Base T ports and 4 nos. of SFP ports(Slots)
2	Shall support 1000 Base-SX, LX, LH (Optional) and optics should be from the same OEM. The distance between the Junction Box and Hostel Block switch is not more than 10 Km. The switch must be of IEEE standards and of enterprise level
3	The Switch should be 1U 19" or less in size and Rack-Mountable
4	104 Gbps or higher Switching and Throughput (Mpps)minimum 77 Mpps Wire Speed or higher
5	MAC Address table size of at least 16000 entries or more
6	Should support static routing for both IPv4 networks& IPv6 networks
7	Shall Support port security allowing access only to specified MAC address
8	Shall support SNMP v1/v2c/v3
9	Shall have full-featured console port providing complete control of the switch with familiar command-line interface (CLI)
10	Shall support IEEE 802.1p Traffic prioritization delivering data to devices based on the priority and type of traffic priority and type of traffic

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

11	Switch should have DRAM of minimum 512 MB or more and Flash minimum 120 Mb or above
12	8*7 replacement warranty for 7 Years for switch and its accessories with full support (NBD. Failure, if any for replacement, deduction of 3% will be made from the Bank guarantee/Security Deposit (10 % of P.O. value)
13	Bidder should submit authorization letters from OEMs for switch and related components, otherwise the bid will be rejected.
14	Local technical support is essential with 24*7 availability along with stand by replacement for emergency.
15	Vendor has to configure, install and commission all the switches by his own expenses as per the VNIT requirement. The installation details and accessories (CD's, cables,etc.) should be handed over to Network Centre, VNIT Nagpur.
16 *	Prior Survey should be done by vendor to ascertain the working environment of VNIT required for installation
17	Make: HPE/Cisco/Juniper/Fortinet/Huawei/Brocade//Ruckus/Arista/Mojo Networks/Dell NOTE: All the switches, Controller and Access Points should be of Enterprise Level
18.	Warranty and support: 8*7 replacement warranty for 7 years from the date of commission

Annexure – I-A

Annexure – I-A (Technical Specification for 48 Port Switch with 4 SFP managed Switch)	
1	The switch should have at least 48 nos. of 10/100/1000 Base T ports and 4 nos. of SFP slots (ports) which should also support SFP+
2	Shall support 1000 Base-SX, LX, LH (Optional) and optics should be from the same OEM. The distance between the Junction Box and Hostel Block switch is not more than 10 Km. The switch must be of IEEE standards and of enterprise level
3	The Switch should be 1U 19" or less in size and Rack-Mountable
4	176 Gbps or higher Switching and Throughput (Mpps)minimum 77 Mpps or higher Wire Speed
5	MAC Address table size of at least 16000 entries or more
6	Should support static routing for both IPv4 networks& IPv6 networks
7	Shall Support port security allowing access only to specified MAC address
8	Shall support SNMP v1/v2c/v3
9	Shall have full-featured console port providing complete control of the switch with familiar command-line interface (CLI)
10	Shall support IEEE 802.1p Traffic prioritization delivering data to devices based on the priority and type of traffic priority and type of traffic
11	Switch should have DRAM of minimum 512 MB or more and Flash minimum 120 Mb or above
12	8*7 replacement warranty for 7 Years for switch and its accessories with full support (NBD. Failure, if any for replacement, deduction of 3% will be made from the Bank guarantee/Security Deposit (10 % of P.O. value)
13	Bidder should submit authorization letters from OEMs for switch and related components, otherwise the bid will be rejected.
14	Local technical support is essential with 24*7 availability along with stand by replacement for emergency.
15	Vendor has to configure, install and commission all the switches by his own expenses as per the VNIT requirement. The installation details and accessories (CD's, cables,etc.) should be handed over to Network Centre, VNIT Nagpur.
16 *	Prior Survey should be done by vendor to ascertain the working environment of VNITrequired for installation
17	Make: HPE/Cisco/Juniper/Fortinet/Huawei/Brocade/Ruckus/Arista/Mojo Networks/Dell NOTE: All the switches, Controller and Access Points should be of Enterprise Level
18.	Warranty and support: 8*7 replacement warranty for 7 years from the date of commission

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(Authorized Signatory)

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Annexure II,

Annexure –II					
Cabling System and Component Specifications (Make - Commscope, AMP, Dlink, Molex, Legrand)					
S.No.	Specifications of UTP Cabling System		Compliance Yes/No	Page No/ Index No	Remark
A	The specification of UTP Cabling system should be meet standards as specified below:				
1	Type	Unshielded twisted pair cabling system, TIA / EIA Category 6 Cabling system			
2	Networks Supported	Proposed Cat 6 Gigabit Ethernet			
3	Manufacturer	All passive cabling must be from same OEM (UTP and Fiber and its accessories)			
B	The specification of UTP Jacks should be meet standards as specified below:				
1	Type	Unshielded Twisted Pair, Category 6			
2	Accessories	Strain relief and bend-limiting boot for cable			
3	Dust cover	Integrated hinged dust cover			
4	Approvals	UL listed			
5	Performance Characteristics to be provided with bid	Attenuation, NEXT, PS NEXT, FEXT and Return Loss			
C	The specification of UTP Jack Panels LOADED should be meet standards as specified below:				
1.	Type	48-port, Keystone type, PCB based, Unshielded Twisted Pair, Category 6,			
2.	Ports	48 Ports loaded keystone.			
3.	Port arrangement	Individual keystone type			
4.	Category	Category 6			
5.	Circuit Identification Scheme	Icons on each of 48-ports			
6.	Port Identification	9 mm or 12 mm Labels on each of 48-ports (to be included in supply)			
7.	Height	1U or 2U			
8.	Accessories	Strain relief and bend limiting boot for cable			
9.	Panel	Fully powder coated			
10.	Approvals	UL listed			
11.	Termination Pattern	TIA / EIA 568 A and B			
12.	Performance Characteristics to be provided along with bid	Attenuation, NEXT, PS NEXT, FEXT and Return Loss			
D	The specification of Workstation / Equipment Cords should be meet standards as specified below:				
1.	Type	Unshielded Twisted Pair, Category 6			
2.	Length	1 meter for Jack panel/equipment			
3.	Warranty	7 years			
4.	Jacket	PVC			

Annexure III,

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Annexure – III (Technical Specification For 12U RACK)	
S.No	
1.	Mounting Space for 6 modules minimum required
2.	Top and Bottom covers provide with cable entry cut-outs at the rear fitted with a cover plate
3.	Front section with glass door and lock.
4.	Adjustable 19" (or less) rails in the front and rear' as per the space available. Also ensure that the 48-port should be adjusted in the rack.
5.	cantilever shelves 01 Nos.
6.	4 Nos or 6 Nos 5A power sockets distribution box
7.	2 Nos cooling fans along with fan tray or 2 fans fitted over a sliding module
8.	2 Nos. cable managers (IU) (for cable routing purpose)
9.	Make - Valrack, APW, WQ, Rittal, Dlink
10.	Installation at site
11.	OEM Authorization certificate required
12.	Bidders local office at Nagpur

Annexure IV

S.No	Annexure –IV UTP and Fiber, Scope of work	Compliance Yes/No	PageNo / Index No.	Remarks
1.	Site survey is compulsory. Site survey form is provided with tender document. After completion of site survey bidder will fill the form and take the sign and stamp from authorized person of VNIT on the same form and submit one copy to authorized person of VNIT and attach another copy with tender Technical bid document. Failure to comply with this will lead to rejection of the bid.			
2.	Outdoor UTP Cable Laying, if any, through 1" PVC Pipe 1.5 mm thickness including all materials (Gujje, screw, saddle, bend, PVC flexible, T, Junctions box etc.)			
3.	Indoor UTP Cable Laying, if any, through 1" PVC Casing Capping and PVC pipe sizes are 25mm, 32mm, 50mm, 60mm including all materials (Gujje, screw, saddle, PVC flexible, etc.). All PVC pipes are ISI marks, If any required			
4.	Saddling and drilling for PVC pipe and casing should be in every 1 or 1.5 feet If any required			
5.	Laying and Termination of CAT6 UTP Cable, if any. All cabling must be "structured"			
6.	UTP cable spare minimum 1 feet at I/O location and 6 feet at Rack locations, if required			
7.	Labeling of Cables, I/Os, Jack Panel, Switches for new connections, if required			
8.	Ferruling at both the ends of UTP cable			
9.	All Installation should be with proper fitting			
10.	Provide Network diagram for each Rack and connected LAN points with room no's as well OFC laying diagram.			
11.	Digging for Soft soil 3 ft. with back filling of soft soil			
12.	Digging for Hard Soil 1 feet with back filling of hard soil			
13.	Digging of TAR road, if necessary(prior permission is required) 1 feet with back filling of cement concreting, Road Crossing should be covered with half round RC Hume pipes			
14.	The HDPE Pipe will be 32 mm or 40 mm made of polyethylene (HDPE) . ISI Mark			
15.	OFC laying work done through HDPE conduit. HDPE conduit must possess warranty certificate in the name of VNIT, Nagpur. During digging, if any damage occurred, the maintenance work & its loss has to be borne by vendor only. If digging near to the sewage line, water line, electricity line or any sensitive /important area is required, then all the necessary permissions to be taken by the vendor.			
16.	Fix OFC route marker in every 10 Meter Distance			

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17.	There should not be any hanging or uncovered wire. Repair/Refurbishing work owing to damage caused due to cabling or any other work related to this Project or If any damaged is caused to the existing network then it will be the responsibility of the bidder/vendor to repair it by his own cost.			
18.	The bidder shall also be responsible for deputing qualified personnel for installation, testing, commissioning and other services under his scope of work as per this specification. All required tools and tackles for completing the scope of work as per the specification is also the responsibility of the bidder. All required tools & tackles should be brought by the vendor only. VNIT will not provide necessary tools to complete the work.			
19.	The bidder should ensure while installation of LAN, day-to-day functioning of official work and existing network setup/connectivity/internet connectivity, if any should not get disrupted.			
20.	Configuration of the equipment as per the requirements of VNIT including Network segmentation and Network Monitoring through existing network management s/w.			
21.	Bidders are required to quote for all items along with installation for all passive and active components			
22.	Bidder should quote for the entire BoQ, No part quote will be accepted			
23.	Bidder should submit authorization letters from OEMs for each component like switch, rack, and UTP cabling components, if applicable, otherwise the bid will be rejected			
24.	The rack locations inside the building will be specified and marked by VNIT			
25.	There should be no drilling or holes in slabs and pillars for wiring			
26.	For wiring within the building at wall corners and pillars, use bends and not flexible pipes			
27.	The bidder has to provide service for Network connectivity if any fault / failure occurs till 7 years during warranty period free of cost except natural calamity or someone has forcefully damaged the LAN point. Failure rate may be 1.2 % in a year.			
28.	All documents should be properly indexed and must provide the page number in the compliance sheet. Highlight the information on the page for which page number is provided on compliance sheet. If he fails to submit those tenders would not be evaluated. All pages should be duly signed & sealed by the vendor.			
29.	The work should be completed within 1 to 2 months after the PO is issued.			
30.	25 years Site Certification must be submitted by the bidder, where required			
31.	Warranty Certificate must be provided by the OEM in the name of VNIT. The certificates must be handover to the VNIT from day one			
32.	The bidder must have local office at Nagpur			
33.	Project Management and Documentation should be proper and must submitted to the Network Center, VNIT			
34.	OEM should provide certificate that all the specification is being fulfilled.			
35.	The quoted price should be clearly mentioned rate, amount, GST, any other taxes, educational discount if any by the vendor. The vendor has to be delivered all the products/items to Network Centre, VNIT or at the actual work site and this cost should be included in the quoted price. No extra cost will be paid for the delivering of products /equipments/items.			
36.	All the products should be compatible with the existing VNIT Network.			

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Annexure V

S.N.	Annexure – V (Technical Specification for Wireless Controller WLC with support of 1000 APs)	
1.	Controller must be capable of managing 1000 managed APs	
2.	Proposed Controller should be ready for supporting 60 AP's from day one with scalability for 1000 AP support in future without adding any new hardware component.	
3.	Controller must managed 10000 or more Users or concurrent devices	
4.	Dual hot-swappable AC or DC power supply	
5.	Interface : Must have at least – (minimum requirement) a) 2 ports interface of 10G OFC i.e. SFP+, b) 2 ports interface of 1Gbps SFP c) Required for failover 2 x 1 Gigabit Copper or 2x SFP/SFP+ port interface, d) For maintenance : 1 x RJ45 port or console port	Points a and b are must and required for core switch and controller to be connected in HA (both) in future within one or two year, Point c is required as a redundancy for any of the port failover. For failover , the bidder may provide 2 port of 1 gigabit copper or two ports of SFP or 2 ports of SFP+ ports
6.	Command line management based on SSH/Telnet/Console and Web management HTTP based GUI and SNMPv2/v3	
7.	Wireless protocols support like : IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11k, 802.11n, 802.11ac, 802.11r	
8.	Built-in and external DHCP server supportable	
9.	Should be IPv4 and IPV6 supportable from day 1	
10.	Wireless roaming : Layer 2 and Inter-VLAN Layer 3 roaming	
11.	Routing protocols: RIP, OSPF, BGP, and IS-IS	
12.	Support Virtual Router Redundancy Protocol (VRRP)	
13.	Support High Availability features	
14.	Support Wireless security and authentication (OEM should provide letter specifying that all the features mentioned below are present along with additional features, if any)[The features mentioned below must be highlighted with yellow marker on OEM's letter]. All these features must be available from day one.	
	1. Authentication and encryption: • OPEN/WEP/PSK/WPA(2) + 802.1x /PKI • WEP/TKIP/AES(CCMP)	
	2. User authentication and control : • MAC address authentication, Portal authentication ,SACG and 802.1x authentication • MAC + Portal authentication • Should support all identity protocol like PEAP/TLS/MD5/CHAP,PAP/CHAP/EAP-MD5,EAP-PEAP-MSCHAPv2,EAP-TLS/EAP-TTLS-PAP/EAP-PEAP-GTC	
	• Supports anonymous authentication, account authentication, certificate authentication, AD/LDAP authentication, third-party database authentication, and RADIUS relay authentication.	
	• Supports two-factor authentication (user name and password + mobile phone verification code).	
	• Supports social media authentication (like Google+ as student have mail IDs in Google).	
	• Supports an escape mechanism. When an AD/LDAP server breaks down, users directly pass authentication.	
	NOTE: Kindly note LDAP server have to be configured in the server provided by the VNIT. Employees' email IDs currently are in separate entity like Linux based server (or in future it may change the platform) and students have email IDs on Google environment. Email integration of both (Employee and students)with LDAP will be the scope of the bidder. Also the integration of SMS gateway will be the scope of work for the bidder. SMS gateway Package will be procured by the VNIT. The bidder will provide the separate hardware and software for AAA as per the requirement.	
	3 Security and defence • ACLs based on interface, users, and user groups • Isolation based on VAPs and user groups • IP source guard for STAs • Detection of unauthorized APs and alarm function • User blacklist and white list	

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	<ul style="list-style-type: none"> Supports authorization based on user groups, accounts, roles, SSIDs, time ranges, terminal IP addresses, terminal device groups, access device groups, and terminal compliance check results.
	<ul style="list-style-type: none"> Supports authorization based on the dynamic ACLs, static ACLs, VLANs, user groups, and security groups.
	<ul style="list-style-type: none"> Supports online duration control to limit the one-time online duration and accumulated online duration of terminals.
	<ul style="list-style-type: none"> TACACS (Terminal Access Controller Access Control System) like functionality should be able to verify the identity of network administrators before they access devices, should supports fine-grained authorization for command lines.
	<p>4. AAA</p> <ul style="list-style-type: none"> Local authentication/local accounts (MAC addresses and accounts)/RADIUS Authentication/ Multiple authentication servers, features as applicable in VNIT network
15.	<p>The solution should be able to provide a web-based application that allows non-technical staff to create Guest accounts with validity for fixed duration like hours or days. Further the solution must:</p> <ol style="list-style-type: none"> Allow the IT Administrator to view and delete individual Guest passes Allow for batch generation of Guest passes Provide customizable Guest portal and guest pass instructions. <p>System should be able to send password direct through Email and SMS to the user.</p>
16.	System should provide DOS attacks and Intrusion Detection & Prevention and Control for any Rough Access Points.
17.	System should support user management features like Rate limiting based on time based WLAN Access & User profile per WLAN etc.
18.	The controller should provide a Guest Login portal in order to authenticate users that are not part of the organization.
19.	The controller should able to stores the logs and other reporting on a separate device. The reporting data to be stored may be of one year and date wise. And it should be in readable format like text, pdf word document, etc from day one. No other format will be acceptable. It should also able to take the backup of users ID creation data and policies defined, if any.
20.	The controller should be rack-mountable. Required accessories for rack mounting to be provided.
21.	<ul style="list-style-type: none"> Controller and APs should be managed through the web-based tool or a separate tools. And the license, (if any required), for the same must be provided. Controller Should support WLAN Software portability to various Models of Controllers for future use and investment protection
22.	Does the Controller supportable with hybrid APs(This point will not disqualify the vendor)
23.	Warranty and support: 8*7 replacement warranty for 7 years from the date of commission.
24.	Local technical support is essential with 24*7 availability along with stand by replacement for emergency.
25.	Make: Cisco//Fortinet/Aruba/Huawei/Ruckus/Mojo Networks/Dell
	NOTE: All the switches, Controller and Access Points should be of Enterprise level.
26.	OEM Authorization Certificate-Bidder should submit authorization letters from OEMs for controllers and related components and items.

Annexure VI

S.N.	Annexure – VI (Indoor Wireless Access Point)
1.	Interface : 2 x 10/100/1000M auto sensing RJ45, 1 x Management console port (RJ45), 1 x USB interface for storage
2.	Antenna : 4 Nos External dual-band antennas (Operation in dual band radio is essential)
3.	Support IEEE 802.11 a/b/g/n/ac/ac Wave 2
4.	WEP authentication/encryption using a 64-bit, 128-bit, or 152-bit encryption key
5.	Power input : PoE power supply(Power injector with AP for PoE)
6.	DHCP client, obtaining IP addresses through DHCP(IPv4 and IPv6 Supportable)
7.	AP supports 4 x 4 MIMO and four spatial streams and provides a rate of up to minimum 2.53 Gbit/s or higher
8.	Dual Ethernet interfaces support link aggregation and traffic load balancing to ensure link reliability.
9.	In some small isolated environments the AP should be able to function as a full-fledged standalone access point without the requirement of a controller.
10.	Security mechanisms should be in place to protect the communication between the controller and the Access Points.
11.	Smart roaming technology is based on the 802.11k , 802.11v and 802.11r

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12.	Mechanism for physical device locking using padlock /Kensington lock / equivalent preferred
13.	The access points should be centrally managed.
14.	Warranty and support 8*7 replacement warranty for 7 Years from the date of commission,
15.	Local technical support is essential with 24*7 availability along with stand by replacement for emergency.
16.	Warranty Certificate must be provided by the OEM in the name of VNIT. The certificates must be handover to the VNIT from the date of commission.
17.	Make – Fortinet/ Huawei/ Cisco/Aruba/Ruckus/Mojo Networks/Dell
18.	OEM Authorization Certificate- Bidder should submit authorization certificate from OEM for APs & related items
19.	NOTE: All the switches, Controller and Access Points should be of Enterprise level.
20.	Bidders Local Office at Nagpur

NOTE:

- A. Institute reserves the right to raise the order on full items/quantities or on selected items/quantities. However the technical bid and price bid will be evaluated on full items as per QFA mentioned in Tender.**
- B. The successful L1 bidder will have to install Wired LAN and W-LAN using managed-secured controller based wireless access point (Indoor), all the access points will be connected through 8 ports POE+ switches or PoE injector power supply (supply and installation will be the bidder scope) and W-LAN controller should be installed in existing Rack/New rack of the Network Center server room / floor.
- C. Following note is applicable for Annexure I, I-A, V, and VI**
- The other Make or company Switches/Controller/APs (even acquired by the companies mentioned in the tender document) will not be considered.
 - All switches, Controllers and APs should be enterprise Level.
 - The hardware equipment(s) mentioned in QFA-2 and D should be installed in Network Center Server Room, rest of the equipment's should be in Boys and girls Hostels

C. Eligibility Criteria for bidder

- 1) The Bidder should be OEM or authorized representative / supplier of the OEM. In case of authorized representative/supplier, the authorization letter from the OEM is essential.
- 2) The Bidder should be able to supply / manufacture the good/s of the most recent series models incorporating the latest developments and meeting technical specifications given in this tender.
- 3) The Bidder must have supplied & satisfactorily installed / commissioned the similar Good/s as specified in "QFA/Bill of Material" in the preceding 3 years (2015-16, 2016-17, 2017-18) period. Please attach necessary documents in support of above. Bidder should have executed at least two orders amounting to Rs. 20 Lakhs each OR atleast one order amounting to Rs. 30.00 Lakhs or more on similar work (as specified in QFA/Bill of Material or having better configuration, supply and installation) in any of the last three financial years (i.e. FY 2015-16, 2016-17, 2017-18) or till date for any Govt./Semi. Govt./State Govt/PSU/Private Sector corporate office. Copy of Purchase Order along with Customer details (Ph. No., Address, Mail ID etc.) should be enclosed.
- 4) Kindly enclosed the OEMs Purchase order of last three years providing the similar product(similar brand/Make for which he is bidding/quoting) as mentioned in the QFA of the tender in any of the government sectors, if bidder has not supplied the same to any government organizations of the same cost or above as mentioned in point no. 4. The purchase orders should be in separate envelop and sealed. On the top of the envelop, the following line should be superscripted with RED:
"CONFIDENTIAL: NOT TO OPEN/DISCLOSE THE INFORMATION OF THIS ENVELOP TO ANY BIDDER"
- 5) The bidder must have local office at Nagpur. Kindly provide the address and letter head of the bidder's office as a proof.
- 6) OEM must have testing LAB/center (similar like NSS Lab or other) in INDIA. Kindly provide the testing LAB details (like Name of the LAB/Center, address and contact details of any higher authority person)

Signature of Bidder
(Authorized Signatory)

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- 7) The Bidder shall furnish brief write-up, backed with adequate data, explaining firm's present capacity and experience (both technical and commercial) for the manufacture and supply of the required Good/s within the period specified for time of completion after meeting all their current commitments.
- 8) The bidder shall clearly confirm the manufacturing unit / factory information and their in-house testing facilities and same will be available for the inspection.

D. Technical Qualification of the Service Engineers of the Bidder:

- a) The company should have at least two technical professionals having graduate degree and networking specializations certification(s) with at least 3 years of experience working in the same field as mentioned in QFA (Kindly enclosed the resume of each service engineer with this bid).

E. Warranty/Guarantee:

- 1) The service Contract Number is required for every active components in the name of VNIT, by the OEM for 7 years. (Limited Lifetime warranty not acceptable)
- 2) The bidder should submit the warrantee and guarantee certificate for the service and support for both active and passive components.
- 3) The period will be from the date of commissioned after PO is issued.
- 4) Both the certificates should be provided at the time of Invoice Bill submission.

F. Scope of the work for the bidder. The bidder should provide the following certificate.

G.

<p>SCOPE OF WORK</p> <p>(To be submitted with technical bid duly signed)</p> <p style="text-align: right;">Date:</p> <p>The scope of work includes as below:</p> <ol style="list-style-type: none"> 1. Supply installation and commissioning of wired and wireless networking products as per tender. 2. Configuration of the equipment as per the requirements and instructions of Network Centre, VNIT. 3. The bidder shall also be responsible for deputing qualified personnel (as mentioned in point D of "Technical Qualification of the Service Engineers of the bidder" for the tender) for installation, testing, commissioning and other services under his scope of work as per this specification. All required tools for completing the scope of work as per the specification is also the responsibility of the bidder. 4. The bidder should ensure while installation of LAN, day-to-day functioning of official work and existing network setup/connectivity/internet connectivity should not get disrupted. 5. The bidders are required to quote for all items along with installation. 6. The bidder should quote for the entire BOQ; no part quote will be accepted. 7. To facilitate secured operation the successful bidders have to install and maintain as follows: <ol style="list-style-type: none"> 1. LDAP Integration/ Active directory server for VNIT users (currently 5000 users and may increase in future) in campus 2. Creation of AAA server, for minimum 5000 users in campus(Kindly provide the license cost if any required) 3. Network monitoring software server. Network monitoring will include new procurement material/equipment or device and existing network device. The total number of devices to be configured is around 300. 4. The institute will provide server for LDAP/AD Server 8. The bidder is responsible to integrate the new system with the existing network infrastructure in campus. There should be the communication between controller, switches, Access Points, firewalls and core switch. 9. The bidder has to provide the monitoring tools for managing controller, access points and switches (other make switches also) from the single window. 10. The bidder will also do the work mentioned as per all the Annexures. <p style="text-align: right; margin-top: 20px;">Sign and seal of the bidder Name Company name</p>
--

H. The tentative details of the HOSTEL Rooms is as follow:

<p>Boys Hostel Floors: G+ 10 Total 540 Rooms from second floor to 10th Floor Each floor – 60 rooms 2 students in each room Sub-Total : 1080 Guest Rooms Ground Floor: 24 First Floor: 34 Rooms</p>	<p>Girls Hostel Floors: G+ 11 Total 520 Rooms from second floor to 11th Floor Each floor – 52 rooms 2 students in each room Sub-Total : 1040 Guest Rooms Ground Floor: 20 First Floor: 30 Rooms</p>
<p>NOTE: Request to Vendor/Bidder →To visit both the Hostels and check the exact number of connections in Guest Rooms</p>	

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

Site Survey Form

Tender No. **Ref No. VNIT/STR/PLAN/2018-19/2 Dt. 12.09.2018**

Subject:-

General Information (must be completed)

Date when this survey was conducted _____

This site survey was conducted by:

Vendor Name _____

Engineer Name _____

Country: _____

Telephone _____ Mobile _____

Fax: _____ Email: _____

Vendor Contact Details (must be completed)

Organization _____

Address: _____

City _____ Zip Code _____

Country/State: _____

Telephone _____

Contact Name: _____

Telephone _____ Mobile _____

_____ Fax: _____

Email: _____

Remark: We confirm that we have done the survey along with VNIT staff. The scope of work ,estimated BoQ and working conditions is acceptable to us and feasible for completion of this project

Authorized person Signature of VNIT: 1) _____

name , Mobile Number and signature)

2) _____

Bidders/Vendor's Signature and stamp
& Date

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 1

Check List of documents for QUALIFYING BID**Ref No. VNIT/STR/PLAN/2018-19/2 Dt. 19.09.2018**Read the **Instructions** below:

Please fill in details of certification / compliance enclosed in respect of this tender enquiry in the following format (Yes / No) only. **Any other format will lead to disqualification.** Any reference to product brochure without filling **appropriate** entry as “**Yes/No**” in the column will lead to disqualification.

If there is any deviation from the required specification then, it should be clearly specified in the “**Remarks**” column and appropriate documentary proof, may be enclosed without fail. **Please arrange all enclosures in following order only. Numbered the pages & mentioned on the specified format**

Sr. No.	Requirement	Details of Certification Enclosed Mention - YES/NO	Page No.	Remarks
			Certification/proof attached	
1.	EMD of ₹4,21,870/-			
2.	Latest Manufacturer's / OEM Authorization Letter			
3.	Service Centre Details with Address & Telephone Nos.			
4.	Order Copies of preceding 3 financial Years (2015-16,2016-17, 2017-18) duly certified, indicating details of Order Value executed (Enclose Proof)			
5.	Product Literature / Information Brochure			
6.	Preferably Vender / OEM should have ISO 9000 or similar Certification for Quality			
7.	Certificate of Incorporations			
8.	Registration Certificate			
9.	Company Profile			
10.	Customer List / Client List			
11.	Technical Manpower Employed with Qualifications & Experience & their tenure			
12.	PAN			
13.	GST Registration Certificate			
14.	Methodology of Warranty Support			
15.	Brief History of the Company/ Firm with credentials if any			
16.	Warranty/ Guarantee (7 years)			

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

Check List of documents for TECHNICAL BID
(Annexure-I,III,V,VI)

	Annexure – I (Technical Specification for 48 Port Switch with 4 SFP managed Switch)	Compliance Yes / No	PageNo/ Index No.	Remark
1	The switch should have at least 48 nos. of 10/100/1000 Base T ports and 4 nos. of SFP ports(Slots)			
2	Shall support 1000 Base-SX, LX, LH (optional) and optics should be from the same OEM. The distance between the Junction Box and Hostel Block switch is not more than 10 Km. The switch must be of IEEE standards and of enterprise level			
3	The Switch should be 1U 19" or less in size and Rack-Mountable			
4	104 Gbps or higher Switching and Throughput (Mpps)minimum 77 Mpps Wire Speed or higher			
5	MAC Address table size of at least 16000 entries or more			
6	Should support static routing for both IPv4 networks& IPv6 networks			
7	Shall Support port security allowing access only to specified MAC address			
8	Shall support SNMP v1/v2c/v3			
9	Shall have full-featured console port providing complete control of the switch with familiar command-line interface (CLI)			
10	Shall support IEEE 802.1p Traffic prioritization delivering data to devices based on the priority and type of traffic priority and type of traffic			
11	Switch should have DRAM of minimum 512 MB or more and Flash minimum 120 Mb or above			
12	8*7 replacement warranty for 7 Years for switch and its accessories with full support (NBD. Failure, if any for replacement, deduction of 3% will be made from the Bank guarantee/Security Deposit (10 % of P.O. value)			
13	OEM Authorization Certificate required, otherwise the bid will be rejected.			
14	Local technical support is essential with 24*7 availability along with stand by replacement for emergency.			
15	Vendor has to configure, install and commission all the switches by his own expenses as per the VNIT requirement. The installation details and accessories (CD's, cables, etc) should be handed over to Network Centre, VNIT Nagpur.			
16	Prior Survey should be done by vendor to ascertain the working environment of VNIT required for installation			
17	Make: HPE/Cisco/Juniper/Fortinet/Huawei/Brocade/Arista/Mojo Networks/Dell			
	a) Make			
	a) Specify model no. along with details			
	(Attached datasheet and highlight with yellow color the model no. --> Mandatory). NOTE: All the switches, Controller and Access Points should be of Enterprise Level			
18	Warranty and support: 8*7 replacement warranty for 7 years from the date of commission			
19	Bidders Local Office at Nagpur			

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

Annexure – I-A			
(Technical Specification for 48 Port Switch with 4 SFP managed Switch)			
1	The switch should have at least 48 nos. of 10/100/1000 Base T ports and 4 nos. of SFP slots (ports) which should also support SFP+		
2	Shall support 1000 Base-SX, LX, LH(optional) and optics should be from the same OEM. The distance between the Junction Box and Hostel Block switch is not more than 10 Km. The switch must be of IEEE standards and of enterprise level		
3	The Switch should be 1U 19" or less in size and Rack-Mountable		
4	176 Gbps or higher Switching and Throughput (Mpps)minimum 77 Mpps or higher Wire Speed		
5	MAC Address table size of at least 16000 entries or more		
6	Should support static routing for both IPv4 networks& IPv6 networks		
7	Shall Support port security allowing access only to specified MAC address		
8	Shall support SNMP v1/v2c/v3		
9	Shall have full-featured console port providing complete control of the switch with familiar command-line interface (CLI)		
10	Shall support IEEE 802.1p Traffic prioritization delivering data to devices based on the priority and type of traffic priority and type of traffic		
11	Switch should have DRAM of minimum 512 MB or more and Flash minimum 120 Mb or above		
12	8*7 replacement warranty for 7 Years for switch and its accessories with full support (NBD. Failure, if any for replacement, deduction of 3% will be made from the Bank guarantee/Security Deposit (10 % of P.O. value)		
13	OEM Authorization Certificate required, , otherwise the bid will be rejected		
14	Local technical support is essential with 24*7 availability along with stand by replacement for emergency.		
15	Vendor has to configure, install and commission all the switches by his own expenses as per the VNIT requirement. The installation details and accessories (CD's, cables,etc) should be handed over to Network Centre, VNIT Nagpur.		
16	Prior Survey should be done by vendor to ascertain the working environment of VNIT required for installation		
17	Make: HPE/Cisco/Juniper/Fortinet/Huawei/Brocade/Arista/Mojo Networks/Dell		
	a) Make		
	b) Specify model no. along with details		
	(Attached datasheet and highlight with yellow color the model no. --> Mandatory). NOTE: All the switches, Controller and Access Points should be of Enterprise Level		
18	Warranty and support: 8*7 replacement warranty for 7 years		
19	Bidders Local Office at Nagpur		

S.No	Annexure – III (Technical Specification For 12U RACK)	Compliance Yes / No	Page No/ Index No.	Remarks
1.	Mounting Space for 6 modules minimum required			
2.	Top and Bottom covers provide with cable entry cut-outs at the rear fitted with a cover plate			
3.	Front section with glass door and lock.			
4.	Adjustable 19" (or less) rails in the front and rear' as per the space available. Also ensure that the 48-port should be adjusted in the rack.			
5.	cantilever shelves 01 Nos.			
6.	4 Nos or 6 Nos 5A power sockets distribution box			
7.	2 Nos cooling fans along with fan tray or 2 fans fitted over a sliding module			
8.	2 Nos. cable managers (IU) (for cable routing purpose)			
9.	Make - Valrack, APW, WQ, Rittal, Dlink			
	a) Make			
	b) Specify model no. if any, along with details			
	(Attached datasheet and highlight with yellow color the model no. --> Mandatory).			
10.	Installation at site			
11.	OEM Authorization certificate required			
12.	Bidders local office at Nagpur			

S.N.	Annexure – V (Technical Specification for Wireless Controller WLC with support of 1000 APs)	Compliance Yes / No	PageNo/ Index No.	Remarks
1.	Controller must be capable of managing 1000 managed APs			
2.	Proposed Controller should be ready for supporting 60 AP's from day one with scalability for 1000 AP support in future without adding any new hardware component			
3.	Controller must managed 10000 or more Users or concurrent devices			
4.	Dual hot-swappable AC or DC power supply			
5.	Interface : Must have at least – (minimum requirement) a) 2 interface of 10G OFC i.e. SFP+, b) 2 interface of 1Gbps SFP c) Required for failover 2 x 1 Gigabit Copper or 2x SFP/SFP+ interface, d) For maintenance : 1 x RJ45 port or console port	Points a and b are must and required for core switch and controller to be connected in HA (both) in future within one or two year, Point c is required as a redundancy for any of the port failover. For failover , the bidder may provide 2 port of 1 gigabit copper or two ports of SFP or 2 ports of SFP+ ports		
6.	Command line management based on SSH/Telnet/Console and Web management HTTP based GUI and SNMPv2/v3			
7.	Wireless protocols support : IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11k, 802.11n, 802.11ac, 802.11r			
8.	Built-in and external DHCP server supportable			
9.	Should be IPv4 and IPV6 supportable from day 1			
10.	Wireless roaming : Layer 2 and Inter-VLAN Layer 3 roaming			
11.	Routing protocols: RIP, OSPF, BGP, and IS-IS			

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

12.	Support Virtual Router Redundancy Protocol (VRRP)			
13.	Support High Availability features			
14.	Support Wireless security and authentication (OEM should provide letter specifying that all the features mentioned below are present along with additional features, if any)[The features mentioned below must be highlighted with yellow marker on OEM's letter]. All these features must be available from day one.			
	1. Authentication and encryption:			
	<ul style="list-style-type: none"> • OPEN/WEP/PSK/WPA(2) + 802.1x /PKI • WEP/TKIP/AES(CCMP) 			
	2. User authentication and control :			
	<ul style="list-style-type: none"> • MAC address authentication, Portal authentication, SACG and 802.1x authentication • MAC + Portal authentication • Should support all identity protocol like PEAP/TLS/MD5/CHAP,PAP/CHAP/EAP-MD5,EAP-PEAP-MSCHAPv2,EAP-TLS/EAP-TTLS-PAP/EAP-PEAP-GTC 			
	<ul style="list-style-type: none"> • Supports anonymous authentication, account authentication, certificate authentication, AD/LDAP authentication, third-party database authentication, and RADIUS relay authentication. • Supports two-factor authentication (user name and password + mobile phone verification code). • Supports social media authentication (like Google+ as student have mail IDs in Google). • Supports an escape mechanism. When an AD/LDAP server breaks down, users directly pass authentication. 			
	NOTE: Kindly note LDAP server have to be configured in the server provided by the VNIT. Employees' email IDs currently are in separate entity like Linux based server (or in future it may change the platform) and students have email IDs on Google environment. Email integration of both (Employee and students) with LDAP will be the scope of the bidder. Also the integration of SMS gateway will be the scope of work for the bidder. SMS gateway Package will be procured by the VNIT. The bidder will provide the separate hardware & software for AAA as per the requirement			
	3 Security and defence			
	<ul style="list-style-type: none"> • ACLs based on interface, users, and user groups • Isolation based on VAPs and user groups • IP source guard for STAs 			
	<ul style="list-style-type: none"> • Detection of unauthorized APs and alarm function • User blacklist and white list 			
	<ul style="list-style-type: none"> • Supports authorization based on user groups, accounts, roles, SSIDs, time ranges, terminal IP addresses, terminal device groups, access device groups, and terminal compliance check results. • Supports authorization based on the dynamic ACLs, static ACLs, VLANs, user groups, and security groups. • Supports online duration control to limit the one-time online duration and accumulated online duration of terminals. • TACACS(Terminal Access Controller Access Control System) like functionality should be able to verify the identity of network administrators before they access devices, should Supports fine-grained authorization for command lines. 			

	<p>4. AAA</p> <ul style="list-style-type: none"> Local authentication/local accounts (MAC addresses and accounts), /RADIUS authentication/ Multiple authentication servers, features as applicable in VNIT Network 			
15.	<p>The solution should be able to provide a web-based application that allows non-technical staff to create Guest accounts with validity for fixed duration like hours or days. Further the solution must:</p> <ul style="list-style-type: none"> d) Allow the IT Administrator to view and delete individual Guest passes e) Allow for batch generation of Guest passes f) Provide customizable Guest portal and guest pass instructions. <p>System should be able to send password direct through Email and SMS to the user.</p>			
16	System should provide DOS attacks and Intrusion Detection & Prevention and Control for any Rough Access Points.			
17	System should support user management features like Rate limiting based on time based WLAN Access & User profile per WLAN etc.			
18	The controller should provide a Guest Login portal in order to authenticate users that are not part of the organization.			
19	The controller should able to stores the logs and other reporting on a separate device. The reporting data to be stored may be of one year and date wise. And it should be in readable format like text, pdf, word document, etc. from day one. No other format will be acceptable. It should also able to take the backup of users' ID Creation data and policies defined, if any.			
20	The controller should be rack-mountable. Required accessories for rack mounting to be provided.			
21	<ul style="list-style-type: none"> Controller and APs should be managed through the web-based tool or a separate tools. And the license, (if any required), for the same must be provided. Controller Should support WLAN Software portability to various Models of Controllers for future use and investment protection 			
22	Does the Controller supportable with hybrid Aps(This point will not disqualify the vendor)			
23	Warranty and support: 8*7 replacement warranty for 7 years from the date of commission			
24	Local technical support is essential with 24*7 availability along with stand by replacement for emergency			
25	Make: Cisco/Fortinet/Aruba/Huawei/Ruckus/Mojo Networks/Dell			
	a) Make			
	c) Specify model no. if any, along with details			
	(Attached datasheet and highlight with yellow color the model no. --> Mandatory).			
	NOTE: All the switches, Controller and Access Points should be of Enterprise Level			
26	OEM Authorization Certificate			
27	Bidders local office at Nagpur			

S.N.	Annexure – VI (Indoor Wireless Access Point)	Compliance Yes / No	Page No / Index No.	Remarks
1.	Interface : 2 x 10/100/1000M auto sensing RJ45, 1 x Management console port (RJ45), 1 x USB interface for storage			
2.	Antenna : 4 Nos External dual-band antennas (Operation in dual band radio is essential)			
3.	Support IEEE 802.11a/b/g/n/ac/ac Wave 2			
4.	WEP authentication/encryption using a 64-bit, 128-bit, or 152-bit encryption key			
5.	Power input : PoE power supply(Power injector with AP for PoE)			
6.	DHCP client, obtaining IP addresses through DHCP(IPv4 and IPv6 Supportable)			
7.	AP supports 4 x 4 MIMO and four spatial streams and provides a rate of up to minimum 2.53 Gbit/s or higher			
8.	Dual Ethernet interfaces support link aggregation and traffic load balancing to ensure link reliability.			
9.	In some small isolated environments the AP should be able to function as a full-fledged standalone access point without the requirement of a controller.			
10.	Security mechanisms should be in place to protect the communication between the controller and the Access Points.			
11.	Smart roaming technology is based on the 802.11k , 802.11v and 802.11r			
12.	Mechanism for physical device locking using padlock /Kensington lock / equivalent preferred			
13.	The access points should be centrally managed.			
14.	Warranty and support 8*7 replacement warranty for 7 Years from the date of commission			
15.	Local technical support is essential with 24*7 availability along with stand by replacement for emergency			
16.	Warranty Certificate must be provided by the OEM in the name of VNIT. The certificates must be handover to the VNIT from the date of commission.			
17.	Make – Fortinet/ Huawei/ Cisco/Aruba/Ruckus/Mojo networks/Dell a) Make d) Specify model no. if any, along with details			
	NOTE: All the switches, Controller and Access Points should be of Enterprise Level			
18.	OEM Authorization Certificate- Bidder should submit authorization certificate form OEM for APs & related items			
19.	Bidders local office at Nagpur			

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 2

MANUFACTURERS (OEM) AUTHORIZATION LETTER

REF No.

Date

To

Dear Sir,

We who are established and reputable manufacturers of (*Name and description of goods offered*) having factories at (*address of factory*) do hereby authorize M/s (*Name and address of Agent*) to submit a bid, and sign the contract with you for the goods manufactured by us against the above IFB No.VNIT/STR/. We hereby extend our full guarantee and warranty of 7 years for the goods and services offered for supply by the above firm against this IFB.

Yours truly,

(Name with Stamp/Seal of Competent Authority)

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.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 3

SERVICE SUPPORT DETAILS

LOCATION OF NEAREST SERVICE CENTER:-

Phone No.	Fax / Telex No.	Status of Office working Days & Hours	Number of Engineers	Value of Min. Stock Available at all times	List of Models & Types of Equipment under Service during last 2 years	Name of the Organization where the equipment are currently under AMC/ Service

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 4

PERFORMANCE STATEMENT

(From 2015-16 onwards)

Name of the Firm _____

Order placed by (Complete Address of Purchaser)	Purchase Order No. & Date	Description and Quantity of ordered equipment	Value of order	Date of completion of delivery		Remarks indicating Reasons for late delivery, if any	Has the equipment been satisfactorily Functioning (Attach a certificate from the Purchaser /Consignee)
				As per Contract	Actual date of supply		
1	2	3	4	5	6	7	8

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 5
CAPABILITY STATEMENT (CS)

1. Name & Address of the Bidder:

2. Phone:

3. Classification

- (1) Manufacturer : Y/N
(2) Authorized Agent: Y/N
(3) Dealer : Y/N
(4) Other (Please specify)

4. Plant:

Location:

Description, Type & size of building:

Is property on lease or free hold? If on lease, indicate date of expiry of lease in such case:

5. Type of equipment(s) manufactured and supplied during last 2 years.

Name of Equipment	Capacity/Size	Quantity Manufactured	Nos. of Purchase Orders on hand

6. Types of Equipment(s) supplied during last 2 years other than those covered under 5 above.

Name of Equipment	Capacity / Size & Model	Name of Manufacturer & Country of origin	Total Nos. of Equipment(s) Supplied in India	No. of orders on hand

7. Turnover for similar equipments sold in last two years:

8. Details of Testing facilities available :

- i) List of Testing Lab, (Name , address, contact details (email ID)
ii) List of testing equipment available.
iii) Give details of type tests, which can be carried out using testing equipment.
iv) Details of the staff available for testing.

Personnel/Organization: Give Organization chart for following indicating clearly the No. of employees at various levels.

Quality assurance

Production

Marketing

Service

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

Spare parts

Administrative

9. Nearest Service Centres to each of the destination of installations:

Location

Phone No.

Year of Establishment

10. Details of Organization (Enclose details of Organization Chart & Span of Control) at Service Centre:

No. of skilled employees

No. of Unskilled employees

No. of Engineering employees

No. of Administrative employees

List of special repair/workshop Facilities available
(Specify Details of Equipments And Test(s) those which are performed)

The storage space available for spare parts (Sq.m)

Value of minimum stock of spares available at all the service centre in Respective currency

Value of the models/types by number of equipment serviced by the centre in the last two years

11. Enclose details of services provided duly authenticated by certification from the user in each case
12. Names of two buyers to whom similar equipment was supplied in the past and to whom reference may be made by the Purchaser regarding the bidder's technical and delivery ability.

Buyer 1; Address & Contact No

Buyer 2; Address & Contact No

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

**PRICE/
COMMERCIAL BID**

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

PRICE / COMMERCIAL BID

REF No.: VNIT/STR/PLAN/2018-19/2

Date: 19.09.2018

Item : Providing LAN/Network /Internet connectivity for newly constructed Boys and Girls Hostels at VNIT, Nagpur

Sr. No	Item with Specifications	Qty	Basic Rate P.U. (Rs.)	GST % & Amount P.U. (Rs.)	Total Amount (Rs.)
1	Providing LAN/Network /Internet connectivity for Newly constructed Boys and Girls Hostels at VNIT, Nagpur (As per given specification))				
	Educational Discount				
	Total Cost F.O.R. V.N.I.T. Nagpur				

[Note - The bidder should offer / quote special educational discount for the Institute.]**[A] DUTIES & TAXES (if applicable):**

1. Custom Duty if any : _____
2. GST @ _____% : _____
3. Freight/ Transportation : _____
4. Insurance @ _____% : _____
5. Packing & Forwarding : _____
6. Others, (if any) : _____
7. **Final Offer (Including Installation Charges & Taxes) FOR VNIT Nagpur** : _____

[B] Others Details (Enclosed)

1. EMD No. & Amount : No.: _____ Dt. ___/___/2018
2. Specification as per Requirements : Yes / No
3. Warranty/Guarantee : _____ Years
4. Delivery period : _____
5. Firms Registration Certificate : _____
6. Authorization Certificate : _____
7. Details of client lists : _____
8. GST Registration Certificate : _____
9. PAN / GST No. : _____
10. Others, (if any) : _____

Note: Price/Commercial Bid & other details should be furnished as per Institute's prescribed format if failed, the Price / Commercial Bid is treated as unresponsive and will be disqualified.

The Firm/Company agrees to supply the above items for **final offer price (Rs. _____/- [In Words Rs.....])** inclusive of duties & taxes at [A] above within the period specified in the Invitation for Quotations. We also confirm that the normal commercial warranty /guarantee of **07 years** shall apply to the offered goods.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 6**FORMAT OF QUOTATION / BILL OF MATERIAL**

REF No.: VNIT/STR/PLAN/2018-19/2

Date:19.09.2018

Sr. No.	Description of Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs. /	Total Amount	
						In Figures	In Words
	Please refer enclosed "QFA/Bill of Material" for complete details.	As per "QFA/Bill of Material"					
						GST %	
						GST Amt.	

Gross Total Cost : Rs.

We agree to supply the above Goods/Equipment/Software in accordance with the technical specifications for a total contract price of(In figure) (In word Rs) within the period specified in the Invitation for Quotations. We also confirm that the normal commercial warrantee /guarantee of **07 years** shall apply to the offered goods.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 7**PRICE SCHEDULE**

REF No.: VNIT/STR/PLAN/2018-19/2

Dt.19.09.2018

1	2	3	4	5					6	7	8
Schedule No	Item Description	Country of Origin	Quantity & Unit	Price for each unit					Unit Price	Total Price	GST (%) & Amount payable
				Ex-factory, Ex-ware House, Ex-Show Room, Off the shelf	Custom Duty, as per actual	Packing & Freight	Inland transportation insurance and other local Costs Incidental to delivery	Incidental services			(To be mentioned clearly as Extra)
				(a)	(b)	(c)	(d)	(e)	a+b+c +d+e	4 x 6	

Note: In case of discrepancy in unit price and total price, the unit price shall prevail.

Total Bid Price in figure _____

In word _____

Signature of Bidder _____

Name _____

Business Address _____

Place:

Date:

Signature of Bidder
(Authorized Signatory)

Stamp:

Date: