



**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, VISHNUPURI, NANDED (MAHARASHTRA)**

(Established on 17 September 1994 – Recognized by the UGC U/s 2(f) and 12(B),
NAAC Re-accredited with 'B++' Grade)

ESTATE DEPARTMENT, S. R. T. M. UNIVERSITY, VISHNUPURI, NANDED

E-TENDER DOCUMENT

REF.NO. ESTATE/FIBER OPTIC/COMPUTER CENTER/SRTMUN/ET-50-2025

**E-TENDER NO.50-2025 FOR SUPPLY, INSTALLATION,
TESTING, COMMISSIONING AND CONFIGURATION OF OPTICAL
FIBER CABLE (OFC) BACKBONE NETWORK INCLUDING
ACTIVE AND PASSIVE NETWORKING COMPONENTS FOR
INTERCONNECTING ALL SCHOOLS AND UNIVERSITY
BUILDINGS OF SRTM UNIVERSITY, NANDED-431 606
(MAHARASHTRA)**

**REGISTRAR,
S.R.T.M.UNIVERSITY, NANDED**

**FOR MORE DETAILS VISIT THE PORTAL OF
<https://mahatenders.gov.in> or www.srtmun.ac.in**



INDEX

E-TENDER NO.50-2025 FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND CONFIGURATION OF OPTICAL FIBER CABLE (OFC) BACKBONE NETWORK INCLUDING ACTIVE AND PASSIVE NETWORKING COMPONENTS FOR INTERCONNECTING ALL SCHOOLS AND UNIVERSITY BUILDINGS OF SRTM UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

Sr.No.	Details of Contents	Page Nos.	
01	E-Tender Notice	03	03
02	Brief e-Tender Notice	04	04
03	Instructions for filling of Tender	05	07
04	General Terms & Conditions and Scope of Work	08	12
05	Bidder's Declaration, Undertaking & General Information of Bidder	13	13
06	Compliance Report (Appendix-I)	14	34
07	Appendix-II	35	36
08	Tender Schedule	37	37
09	Detail Specification	38	39
10	Site Visit & Visit Report	40	40
11	BOQ	41	43



Swami Ramanand Teerth Marathwada University, Nanded
E-Tender No.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025

E-TENDER NOTICE

The Registrar, S.R.T.M. University, Nanded invites Tender for "Supply, Installation, Testing, Commissioning and Configuration of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components for Interconnecting All Schools and University Buildings of SRTM University, Nanded" from Manufacturer / Distributors / Authorized Dealers to participate in the competitive bidding process. For the detailed Tender document, interested bidders should visit <https://mahatenders.gov.in> / www.srtmun.ac.in

The filled tender booklet will be accepted on or before **06-04-2026 up to 3.00 p.m.** The said e-Tender will be online open as per schedule if possible. Extension of Tender, Corrigendum or change in schedule will not be published in News paper; it will be published only at www.srtmun.ac.in / mahatenders.gov.in website only

Ref.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025/578

Date: 18/03/2026

Registrar

Copy to:

- 1) The Public Relation Officer, This University – With a request to publish the said e-Tender Notice in "Hindustan Times (Maharashtra)", "Dainik Deshonatti (Marathwada)" and "Dainik Udyacha Marathwada (Local)" News paper.
- 2) The Senior Programmer,
Estate Department, This University – With a request to upload the said Tender Booklet on our University web site.
- 3) Notice Board, Administrative Building, S.R.T.M. University, Nanded.
- 4) Notice Board, Estate Department, S.R.T.M. University, Nanded.


 Registrar
 Swami Ramanand Teerth
 Marathwada University, Nanded.
 (Maharashtra State) INDIA-431606



Swami Ramanand Teerth Marathwada University, Nanded

E-Tender No.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025

BRIEF E-TENDER NOTICE

The Registrar, S,R.T.M.University, Nanded invites e-Tender for "Supply, Installation, Testing, Commissioning and Configuration of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components for Interconnecting All Schools and University Buildings of SRTM University, Nanded" from Manufacturer / Distributors / Authorized Dealers may submit the tender as per specifications, which are given in BOQ. The e-Tender Booklets are available on <https://mahatenders.gov.in> & our University website (www.srtmun.ac.in) from 19.03.2026 to 06.04.2026 up to 03.00 pm online payment of Rs.60,000/- (Rupees Sixty thousand only) (Non-refundable) as the cost of tender form. The last date for online submission of e-Tender on or before 06.04.2026 up to 03.00 p.m. The said e-Tender will be online open as per schedule if possible.

The Registrar, S.R.T.M.University, Nanded reserves the right to accept any tenders or reject the lowest or any other or all tenders without assigning any reasons what so ever. Extension of tender, Corrigendum or change in schedule will not be published in News paper; it will be published only at www.srtmun.ac.in / <https://mahatenders.gov.in> website only.

Ref.: Estate/Fiber Optic/Computer Center/SRTMUN /ET-50-2025/ **578**

Date:18 /03/2026

Registrar

Registrar

Swami Ramanand Teerth
Marathwada University, Nanded,
(Maharashtra State) INDIA-431601



Instructions for filling of E-Tender

The Registrar, Swami Ramanand Teerth Marathwada University, Nanded invites E-Tender for “ **Supply, Installation, Testing, Commissioning and Configuration of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components for Interconnecting All Schools and University Buildings of SRTM University, Nanded**” from **Manufacturer / Distributors / Authorized Dealers**. The details in this regard are given below.

1. Procedure to submit the tender:

The vendors should provide two “Bid system which are as given below

Envelop No.1 (Technical Bid):

- a) The bidder must submit the **Tender Fee of ₹60,000/- (Rupees Sixty Thousand only)** through **online payment mode**. The tender fee shall be **non-refundable**.
- b) The bidder must submit an **Earnest Money Deposit (EMD) of ₹3,50,000/- (Rupees Three Lakh Fifty Thousand only)** through **online mode**. The EMD shall be **refundable in accordance with the terms and conditions of the tender**.
- c) The bidder must submit a **copy of the Registration Certificate under the Shop Act or Company Act or SSI or MSME**.
- d) The bidder shall submit **copy of the valid GST Registration Certificate** along with latest return copy.
- e) The bidder shall upload a **copy of the PAN Card**.
- f) Last three years Income Tax Annual return. (Assessment year 2023-24, 2024-25, 2025-26).
- g) The bidder must have an average annual turnover of at least 50% of the estimated tender cost during the last three financial years. The bidder shall submit a certificate from a Chartered Accountant (C.A.) in support of the turnover with UDIN Number Chartered Accountant.
- h) Only Manufacturer, Authorized Distributor & Authorized Dealer should submit this Tender. If you have Distributor or Dealer, then you have to submit Authorization letter from Principal Manufacturing Company certifying your Distributorship/ Dealership.
- i) Bidder's Declaration for Acceptance of Terms & Condition of the tender (P.No.13 in Tender Document)
- j) The bidder shall upload a **scanned copy of the duly filled and signed Technical Compliance Statement (Appendix-I)** as part of the technical bid.
- k) The bidder must upload a scanned copy of Appendix-II (Page No.35) duly filled, indicating the Company/Brand name and Model Number of the **Active and Passive Networking Components** proposed to be supplied under this tender.
- l) The bidder must submit self-attested Xerox copies of valid ISO 9001:2015 and ISO 27001 Quality Certifications. The bidder must hold these certifications to be eligible to participate in this tender.
- m) During the last three years, the bidder must have successfully completed at least one networking project of minimum value ₹1 Crore or at least two networking projects of minimum value ₹50 Lakhs each. The bidder shall upload scanned copies of the Work Order and Completion Certificate as documentary evidence.
- n) Site Visit & Visit Report: The bidder shall mandatorily visit the project site at Swami Ramanand Teerth Marathwada University (SRTMU), Nanded before submitting the bid. The bidder must upload a scanned copy of the site visit report duly signed by the concerned university authority as documentary evidence **Page No.40**.
- o) Manufacturer's Authorization Form (MAF): The bidder shall submit a valid Manufacturer's Authorization Form (MAF) issued by the Original Equipment Manufacturer (OEM) authorizing the bidder to participate in the tender and to supply,

install, commission, and provide support for the offered networking equipment. The scanned copy of the MAF must be uploaded with the technical bid.

- p) The quoted product should not be declared End-of-Life (EOL) at the time of bid submission, and the End-of-Support (EOS) date shall not fall within the warranty period. The bidder shall submit an undertaking from the Original Equipment Manufacturer (OEM) confirming the same along with the technical bid.

Envelop No. 2 (Financial Bid)-:

The tendering authority will first open the Technical Bid documents of all bidders and after scrutinizing these documents will shortlist the Bidders who are eligible for Financial Bidding process. Otherwise the tender may be disqualified. Financial bid should be submitted online by Vendor in Appendix- A & B in the form of **BOQ** excel sheet given over www.mahatender.gov.in, The supplier shall fill up the column of rate per unit offered by him.

Terms & conditions:

1. Bidder should have valid Digital Signature Certificate (DSC) obtained from any Certifying Authorities.
2. The specifications/details of the **"Supply, Installation, Testing, Commissioning and Configuration of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components for Interconnecting All Schools and University Buildings of SRTM University, Nanded"** provided in the tender document.
3. The Financial offers shall be submitted online as per the schedule.
4. University has the right to split the purchase order to more than one vendor/firms quoting lowest tender amount. Although before this, supplier will be invited for negotiations in University, if needed/required.
5. The Bidders are strictly advised to follow the dates and times allocated to each stage. As indicated in the time schedule. All the online activities are time tracked and the Electronic Tendering System enforces time-locks that ensure that no activity or transaction can take place outside the Start and End Dates and Time of the Stage as defined in the tender schedule. At the sole discretion of the Tender Authority, the time schedule of the Tender stages may be extended.
6. University reserves the right to increase or decrease of Active and Passive Networking Components which was mentioned in This Tender/BOQ.
7. **Quantity of said Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components mentioned in this Tender document is estimated. It may be increase or decrease, Bidder should Supply the said Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components as per Quantity mentioned in Purchase order.**
8. Rate to be quoted should be mentioned in figures as well as in words at appropriate place in provided in Schedule (BOQ) by the bidder, more over the rate should not be quoted anywhere else in the tender booklet as well as in the blank pages.
9. The university reserves the right to decide whether to open or not open the commercial Bid of the supplier and no objection of any supplier shall be entertained on any ground whatsoever it may be regarding this.
10. No Bidder shall be accepted without payment by online earnest money deposit and cost of tender.
11. The rate should be inclusive of GST, duties, packing, transportation, loading and unloading charges and delivery of material and installation on SRTMU Nanded campus as per Survey Report under supervision of **"Computer Center, S.R.T.M.University, Nanded"**.



- 12. The rate should be offered for only the item as mentioned in the Schedule.
- 13. The rate quoted by the bidder should inclusive of GST, duties, Shipment, CIE, Cargo, packing, LBT/Octroi, Installation & Commissioning, Insurance, transportation, Warranty, loading & unloading charges and installation should be expressed in the rate accompanied in Schedule (BOQ).
- 14. The rates quoted for the items other than make & specification specified in the tender form shall not be considered for comparison of rate.
- 15. The University is not to bind to accept lowest tenders and reserve the right to accept/cancel any or all tenders without assigning any reason.
- 16. Final total lowest rate will be consider L1.
- 17. It is Mandatory to quote rate for all items.

Registrar



[Handwritten Signature]
Registrar
 Swami Ramanand Teerth
 Marathwada University, Nanded.
 (Maharashtra State) INDIA-431606

General Terms & Conditions

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1. Tender fills up only Manufacturer/distributors/dealers of **“Supply, Installation, Testing, Commissioning and Configuration of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components for Interconnecting All Schools and University Buildings of SRTM University, Nanded”**
 2. The earnest money deposit amount of **Rs.60,000/- (Sixty Thousand only)** is required to be submitted online along with tender. Otherwise submitted tender will not be considered. The vendor/firm will not be liable to get interest on this earnest money deposit amount, when refunded.
 3. The bidder to whom the purchases order to be given shall be informed about the same. The bidder should deposit an appropriate amount i.e. 5% of purchase order as security deposit within 3 days from the date of Letter of intent, after which the purchase order will be issued. The security deposit will not carry any interest which shall be refunded after completion of warranty and NOC from concern Department. If the bidder fails or is incapable to keep the security deposit, then the second lowest quoted bidder will be issued the similar purchase order or the University with holds the total authority for the necessary action to be taken.
 4. The successful bidder is required to execute an agreement on Rs. 500/- stamp paper. The e-tender Notice shall form part of the tender agreement.
 5. The conditional tenders shall not be accepted.
 6. If the supplier fails to abide by any of the terms & conditions mentioned herein EMD/Security Deposit shall be forfeited and appropriate action will be taken against supplier.
 7. F.O.R.- The rates to be quoted – F.O.R. – should be for our **“Computer Center, S.R.T.M.University, Nanded”**. The rate quoted by the bidder should inclusive of GST and other charges if any. The mention of Fare, Packing, Forwarding, Installation as well as Insurance and other charges should be expressed in the rate accompanied in Schedule.
 8. Validity Period: The rate quoted by the bidder should be valid up to 180 days from the date of submitting the tender.
 9. Award of Contract:
University reserve right to issue Award of Contract by the recommendation of **“Dean, Faculty of Science & Technology, S.R.T.M.University, Nanded”** for said Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components. Decision of said Department will be final.
 10. Site Visit & Visit Report
 - The Bidder shall mandatorily visit the project site at Swami Ramanand Teerth Marathwada University (SRTMU), Nanded.
 - The Bidder must obtain a Site Visit Report duly signed by the Dean, Science and Technology, SRTMU Nanded.
 - The purpose of the visit is to ensure that the Bidder clearly understands the actual onsite requirements for installation of the equipment/items.
 - The signed Visit Report must be uploaded along with the tender document.
 - Failure to submit the Visit Report may lead to outright rejection of the bid.
 - All expenses related to the site visit and installation shall be borne by the Bidder/Supplier.



11. **Manufacturer's Authorization Form (MAF)**
 - The Bidder must obtain a valid Manufacturer's Authorization Form (MAF) from the Approved OEMs mentioned in the tender.
 - Only certified system integrators authorized by the respective OEMs are eligible to participate in the bidding process.
 - The MAF must clearly specify the tender reference number and product details.
12. **Financial Turnover**
The bidder must have an average annual turnover of at least 50% of the estimated tender cost during the last three financial years. The bidder shall submit a certificate from a Chartered Accountant (C.A.) in support of the turnover with UDIN.
13. **Quality Certifications**
The Bidder must hold valid ISO 9001:2015 and ISO 27001 certifications to be eligible to participate in the tender.
14. **During the last three years, the bidder must have successfully completed at least one networking project of minimum value ₹1 Crore or at least two networking projects of minimum value ₹50 Lakhs each. The bidder shall upload scanned copies of the Work Order and Completion Certificate as documentary evidence.**
15. **Delivery Period:**
The said "Supply, Installation, Testing, Commissioning and Configuration of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components for Interconnecting All Schools and University Buildings of SRTM University, Nanded" must be delivered as per agreement and terms and conditions of purchase order.
16. **Duration of the project completion: 105 days from the date of Work Order.**
17. **Procedure for Refund of E.M.D. Amount:**
Refund of Earnest money deposit to the Unsuccessful Bidders will be get online after upload of Award of Contract (AOC) to the Successful Bidders. University will not responsible for delay in refund of E.M.D. amount after uploading of AOC. Thereafter, Bidders should contact to officials of Mahatenders regarding refund of E.M.D.
18. **Refund of Security Deposit:**
Security Deposit shall be refunded after successful completion of warranty and No objection certification (NOC) from concerned Department.
19. **The bidder is held responsible for replacement of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components in case there occurs any kind of loss or damage or liquidity damages of any part of the Active and Passive Networking Components during transportation and installation at the site.**
20. **Extension of Delivery Period:**
Delivery period mentioned in the purchase order may be extended only in case of Special approval from University officials for extension if require and natural calamities.
21. **Payments of the Bill:**
Payment of the bill will be made after satisfactorily delivery & satisfactory Installation report from Technical Committee and Sample committee of this University.
22. **Income Tax:**
The Income Tax/TDS as per rules and surcharge thereon shall be deducted from bill amount, advance payment.

23. **Cancellation of Purchase:**

University reserves the right to cancel the purchase order under the following conditions in case bidder fails to supply the **“Supply, Installation, Testing, Commissioning and Configuration of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components”** within the stipulated or extended time, The University reserves the right to go for next lowest tender or other appropriate action will be taken.

- a) Due to the above mentioned reason if the tender is cancelled, earnest money and security deposit shall be forfeited and also the tender may be allotted to the next lowest tender or the university reserves the right to take appropriate decision.

24. Custom & clearing charges is also borne by Suppliers.

25. **Scope of Work**

The scope of work under this tender includes the Supply, Installation, Testing, Commissioning and configuration of a complete Optical Fiber Connectivity along with Switching infrastructure (Active and Passive Networking Components) at Swami Ramanand Teerth Marathwada University (SRTMU), Nanded, as detailed below:

1. Installation Coverage

- Installation of Optical Fiber cables and network switches at designated locations as per the Proposed network layout.
- Connectivity shall be provided to all specified buildings and departments as per the proposed network layout and project requirements.
- Proper routing, termination, dressing, labelling, testing, and documentation of fiber and network components shall be carried out.
- All installed Optical Fiber links and switches shall be integrated and connected with the existing network infrastructure, Layer-3 (L3) and Layer-2 (L2) switches to ensure seamless connectivity and optimal network performance.

2. Supply & Commissioning

- Supply, installation, testing, and commissioning of all items as specified in the Bill of Materials (BoM) on F.O.R. destination basis.
- All materials supplied shall be new, genuine, and compliant with relevant industry standards.
- Warranty certificates and supporting documentation for all supplied products shall be issued in the name of **SRTMU, Nanded**.
- Successful testing and commissioning reports shall be submitted to the university authorities.

3. Networking & Connectivity

- Optical Fiber connectivity shall be established from the Core or Distribution layer switches as per the proposed network architecture.
- Proper integration with existing network infrastructure shall be ensured.
- The proposed solution shall support both local and centralized monitoring capabilities.
- SRTMU officials shall be able to securely access live network feeds and monitoring data remotely through authorized portable or fixed devices.

4. Demonstration & Training

- Upon successful commissioning, the complete Optical Fiber Connectivity (OFC) and Switching system shall be demonstrated to the concerned user department.
- The demonstration shall ensure that designated officials are fully familiar with the operation, monitoring, and basic troubleshooting of the system.



- The vendor shall provide on-site training covering configuration overview, network monitoring, and routine maintenance procedures.
- Necessary training materials and user manuals shall be handed over to the department.
- The University reserves the right to conduct a third-party audit, if required, to ensure satisfactory compliance by the vendor

5. Vendor Responsibility

- Upon issuance of the Purchase Order, it shall be the sole responsibility of the vendor to execute and complete the project in all respects and make the entire OFC and Switching system fully functional.
- The vendor shall ensure proper integration with the existing network infrastructure, including Core and Layer-3 and Layer-2 switches.
- Any additional material, service, configuration, or cost required for successful completion of the project, if not included in the initial bid, shall be borne entirely by the vendor without any additional financial implication to Swami Ramanand Teerth Marathwada University (SRTMU), Nanded.
- The vendor shall be responsible for rectifying any defects observed during installation, testing, commissioning, and the warranty period.

6. Project Documentation & Handover

- Upon completion of the project, the successful bidder shall submit comprehensive documentation of the entire Optical Fiber Connectivity (OFC) and Switching system, including but not limited to:
 - As-built layout diagrams indicating OFC routes, switch locations, rack layouts, and equipment positioning.
 - Detailed IP addressing scheme and complete network configuration details, including VLAN and Layer-3 configurations (if applicable).
 - Device inventory list specifying make, model number, serial number, and warranty details.
 - OTDR reports (for fiber), testing reports, commissioning reports, and OEM certificates.
 - Backup copies of configuration files and licensed software (if applicable).
- All documentation shall be submitted in both hard copy and soft copy (digital format) at the time of project handover.
- The project shall be considered complete only after successful submission, verification, and formal acceptance of all documentation by Swami Ramanand Teerth Marathwada University (SRTMU), Nanded.
- Completion Certificate: Work Completion certificate shall be issued only after completion of work in all respect as per RFP and to the entire satisfaction of SRTMU NANDED.
- Training: Upon completion of the installation & commissioning, the Successful Bidder shall provide the hands-on training on the installed equipment to the concerned officials along with the training materials on the equipment installed at SRTMU NANDED.
- Optical Fiber cables, Fiber Patch Cords & LIUs shall carry a minimum warranty of twenty-five (25) years of OEM Certificate.

7. Warranty Period & Support Conditions: (on site 5 year Comprehensive warranty)

- The offered equipment/items shall be covered under a Comprehensive On-site Warranty for a period of Five (5) Years from the date of successful installation, testing, commissioning, and acceptance by the University.
- The comprehensive warranty shall include:
 - All hardware components, accessories, and associated software (if any).
 - Free replacement/repair of defective parts including spare parts.





- Labour charges, service charges, and transportation charges.
- Firmware/software updates and patches (wherever applicable).
- Service Support
 - The bidder/OEM shall provide on-site support during the warranty period.
 - Complaint must be attended within 24 hours of reporting.
 - Resolution/rectification shall be completed within 48 hours (or next working day).
 - In case the equipment cannot be repaired within the stipulated time, equivalent standby equipment shall be provided without additional cost.
- The vendor will liaison on behalf of SRTMU NANDED, with other different OEMs for repairing or replacing of equipment(s) and all other accessories during warranty period.
- All warranty certificates shall be issued in the name of Registrar, Swami Ramanand Teerth Marathwada University (SRTMU), Nanded and submitted at the time of project handover.

8. Bidders should share all the relevant firmware/OS/Patches etc. as and when they are released by OEM during entire warranty period at no cost to SRTMU NANDED.

26. In case of any dispute it will be addressed subject to Nanded district jurisdiction only.


Registrar
Swami Ramanand Teerth
Marathwada University, Nanded.
(Maharashtra State) INDIA-431606

Bidder's Declaration**E-TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND CONFIGURATION OF OPTICAL FIBER CABLE (OFC) BACKBONE NETWORK FOR INTERCONNECTING ALL SCHOOLS AND UNIVERSITY CAMPUS, SRTM UNIVERSITY, NANDED-431 606 (MAHARASHTRA)**

E-Tender No.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025/

I hereby certify that, I have gone through all the information and Terms & Conditions of the tender booklet and I accept the same. Further, I certify that, our firm is not blacklisted, debarred or prohibited by Government of India or any other State Government, Union Territory, Authority or Organization. I also declare that, no case/s, criminal or Civil or Enquires of any kind are pending against our organization. For further correspondence I provide here under the address and contact details.

Tenderer/ Name of Firm, Signature / seal

Name : _____

1. Name of Proprietor and complete address :
2. Telephone Numbers :
3. Office :
4. Residence :
5. Mobile :
6. Fax :
7. Email :

Signature / Seal of the Bidder

E-TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND CONFIGURATION OF OPTICAL FIBER CABLE (OFC) BACKBONE NETWORK INCLUDING ACTIVE AND PASSIVE NETWORKING COMPONENTS FOR INTERCONNECTING ALL SCHOOLS AND UNIVERSITY BUILDINGS OF SRTM UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

E-Tender No.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025/

COMPLIANCE REPORT (APPENDIX-I)

Technical Specifications (Compliance)

1. Supply, Installation, Testing, Commissioning and Configuration of 8X10G, 8XSFP+ Managed Switch (Distribution) (Qty.- 11*)

S.No.	Technical Specifications		Compliance (YES / NO)
1	Physical Interfaces	8 # 1/10G Base-X Fiber SFP+ Ports	
2		8 # 1/10G Base-T Copper Ports	
3		Ethernet: Out-of-band 1G port (Front)	
4		Console: RJ45 RS232 (Front)	
5		Console: Mini-USB (Front)	
6		Storage: USB (Front)	
7		Half-width 1-unit 1U rack mount	
8	CPU/ Memory	CPU: 800 MHz	
9		RAM: 1 GB	
10		Packet buffer memory: 32 MB	
11		Flash: 256 MB	
12	Performance	Stack height: 8 switches	
13		Switching fabric: 320 Gbps Line-Rate (non blocking fabric)	
14		Throughput: 357 Mpps	
15		Forwarding mode: Store-and-forward	
16		Address database size: 16,000 MAC addresses (48-bit MAC address)	
17		Number of VLANs: 4,093 (IEEE 802.1Q) simultaneously	
18		Number of multicast groups= 2K IPv4	
19		Number of multicast groups= 2K IPv6	
20		ARP/NDP= 2K	
21		Number of LAGs (802.3ad): 128 LAGs with up to 8 ports per group	
22		Number of hardware queues for QoS: 8 (Standalone)	
23		Number of routes: 512 IPv4 Unicast routes	
24		Number of routes: 256 IPv6 Unicast routes	
25		Jumbo frame support: up to 9K packet size	
26		Mean time between failures (MTBF): 192,898 hours (~22 years)	
27		sFlow=416 samplers, 416 pollers, 8 receivers	
28	L2 Services	Protocol based VLAN	
29		IP Subnet	
30		IPX	
31		ARP	
32		Subnet based VLAN	
33		MAC based VLAN	



34		Voice VLAN	
35		Private Edge VLAN	
36		Private VLAN	
37		Guest VLAN	
38		Double VLAN Tagging (QoQ)	
39		GARP with GVRP/GMRP	
40		MVR (Multicast VLAN Registration)	
41		Multiple Registration Protocol (MRP)	
42		Multicast VLAN Registration Protocol (MVRP)	
43		LAG Hashing	
44		LAG Member Port Flaps Tracking	
45		UDLD support	
46		Distributed Link Aggregation	
47		Storm Control	
48		Link Dependency	
49		Spanning Tree Protocol	
50		Per VLAN STP (PVSTP) with FastUplink and FastBackbone	
51		Per VLAN Rapid STP (PVRSTP)	
52		STP Loop Guard	
53		STP Root Guard	
54		BPDU Guard	
55		STP BPDU Filtering	
56		STP BPDU Flooding	
57		IGMP v2/v3 Snooping support	
58		MLD v1/v2 Snooping support	
59		Expedited Leave Function	
60		Static L2 Multicast Filtering	
61		MLDv1/2 Snooping Support	
62		IGMPv2/3 Snooping Support	
63		Audio Video over IP with pre-configured L2 Multicast	
64		Pro Audio Video deployments with IGMP Plus automatic L2 multicast	
65	L3 Services	IGMP Proxy	
66		MLD Proxy	
67		Any Source Multicast (ASM)	
68		Source Specific Multicast (SSM)	
69		Multicast streams routing between subnets, VLANs	
70		Multicast Static Routes (IPv4, IPv6)	
71		DVMRP	
72		Neighbor discovery (IPv4, IPv6)	
73		PIM-DM (IPv4, IPv6)	
74		PIM-SM (IPv4, IPv6)	
75		PIM multi-hop RP support	
76		IPMC replication (hardware support)	
77		DHCP Client (IPv4, IPv6)	
78		DHCP Server (IPv4, IPv6)	
79		DHCP Snooping (IPv4, IPv6)	
80		DHCP/ BootP Relay (IPv4, IPv6)	
81		DHCP options 66, 67, 150, and 55, 125	
82		Static Routing (IPv4, IPv6)	
83		Port based Routing	
84		ECMP Static Routing	
85		Port Based Routing	

86		VLAN Routing	
87		RIP v1 and v2	
88		OSPF v2 and v3	
89		OSPF Flood Blocking	
90		Route Redistribution	
91		VRRP	
92		VRRP Route/Interface Tracking	
93		Loopback Interfaces	
94		Tunnel interfaces	
95		Router Discovery	
96		IP Helper	
97		IP Source Guard	
98		IP Event Dampening	
99		ECMP	
100		Proxy ARP	
101		Multinetting	
102		ICMP v4 and v6	
103		IPv4/IPv6	
104		DNS v4 and v6	
105		IPv6 Routing	
106		Configured v6-over-v4 tunnels	
107		Automatic (6to4) tunnels	
108	QoS	IEEE 802.1p CoS	
109		DiffServ QoS	
110		WRED (Weighted Deficit Round Robin)	
111		Single Rate Policing	
112		Strict Priority queue technology	
113		Auto-VoIP	
114		iSCSI Flow Acceleration	
115		IP DSCP	
116		IP Precedence	
117		IP TOS	
118		L3 IPv6 Flow Label	
119		Interface Traffic Shaping	
120		PHB Support	
121		Minimum Bandwidth per-interface	
122	Security	Broadcast, Multicast and Unicast Network Storm Protection	
123		CPU Protection	
124		DoS attack protection	
125		ICMP throttling	
126		Management ACL	
127		Radius accounting	
128		TACACS+	
129		L2/L3/L4 Access Control List (ACL)	
130		MAC, IPv4, IPv6, TCP, UDP ACL	
131		Protocol based ACL	
132		ACL over VLAN	
133		Dynamic ACL	
134		IEEE 802.1x Radius Port Access Authentication	
135		802.1x MAC Address Authentication Bypass (MAB)	
136		Port Security	
137		Dynamic ARP Inspection	
138		MAC Filtering	



139		Port MAC Locking	
140	IEEE Network Protocols	IEEE 802.3 10Base-T	
141		IEEE 802.3 Ethernet	
142		IEEE 802.3i 10BASE-T	
143		IEEE 802.3u 100BASE-T	
144		IEEE 802.3ab 1000BASE-T	
145		IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX	
146		IEEE 802.3ae 10-Gigabit Ethernet	
147		IEEE 802.3ad Trunking (LACP)	
148		IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)	
149		IEEE 802.1D Spanning Tree (STP)	
150		IEEE 802.1s Multiple Spanning Tree (MSTP)	
151		IEEE 802.1w Rapid Spanning Tree (RSTP)	
152		IEEE 802.1p Quality of Service	
153		IEEE 802.1Q VLAN tagging	
154		IEEE 802.1v protocol-based VLAN	
155		IEEE 802.1X Radius Network Access Control	
156		IEEE 802.3x flow control	
157		GMRP — Dynamic L2 multicast registration	
158		GVRP — Dynamic VLAN registration	
159	GARP -Generic Attribute Registration Protocol		
160	Management	ISDP (Industry Standard Discovery Protocol)	
161		Switch should have audio video over IP preconfigured profiles	
162		Out of band Management	
163		802.1ab LLDP and LLDP-MED	
164		SNMP v1, v2 and v3	
165		RMON 1, 2, 3, 9	
166		sFlow	
167		Command Line Interface (CLI)	
168		Web-based graphical user interface (GUI)	
169		Admin access control via Radius and TACACS+	
170		Telnet	
171		IPv6 Management	
172		Dual Software (Firmware) images	
173		Dual Configuration file (Text-based)	
174		Radius accounting	
175		Malicious Code Detection	
176		SNTP	
177		XMODEM	
178		Port Mirroring	
179		Cable Test Utility	
180		SSH v1/v2	
181		SSL/HTTPS and TLS v1.0 for web-based access	
182		File Transfer (uploads, downloads) through TFTP/HTTP	
183		SCP/ SFTP/ HTTPS	
184		Syslog	
185		Non disruptive Config Management	
186		Remote Port Mirroring (RSPAN)	
187		Persistent log supported	
188		Switch should have capability to manage by centralized controller application	
189		Centralized controller application should be provide with the switch	





190	Network Traffic	Access Control Lists (ACLs) L2 / L3 / L4	
191		Time-based ACLs	
192		ACL over VLANs	
193		IPv6 RA Guard Stateless Mode	
194		Network Authentication Successive Tiering	
195		802.1x MAC Address Authentication Bypass (MAB)	
196	LEDs	Per port: Speed, link, activity	
197		Power, Fan, Stack Master, Stack ID	
198	Environmental	Operating Temperature: 32° to 122°F (0° to 50°C)	
199		Operating Humidity: 90% maximum relative humidity, non-condensing	
200		Storage Temperature: - 4° to 158°F (-20° to 70°C)	
201		Storage Humidity: 95% maximum relative humidity, non-condensing	
202	Certifications	CE mark, commercial	
203		FCC Part 15 Class A, VCCI Class A	
204		Class A EN 55022 (CISPR 22) Class A	
205		Class A C-Tick	
206		EN 50082-1	
207		EN 55024	
208		CSA certified (CSA 22.2 #950)	
209		UL listed (UL 1950)/cUL IEC 950/EN 60950	
210	Warranty and Support	Lifetime Hardware replacement warranty	
211		Lifetime free latest firmware support	
212		Replacement with New Product Only No refurbished Products.	
213		Certified by Mandatory Testing and Certification of Telecommunication Equipment portal, submit TEC certificate	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

2. Supply, Installation, Testing, Commissioning and Configuration of 10G Single Mode Duplex LC Module (QTY.-134*)

S.No.	Technical Specifications		Compliance (YES / NO)
1	SFP+ Module	10GBase-LR Fiber SFP+	
2		LC duplex connector	
3		1310nm Wavelength	
4		2m - 10km for 9/125 um SMF	
5		Single Mode Fiber	
6		ROHS Compliant	
7		Compliant with SFP+ Transceiver MSA specification	
8		Compliant with Specifications for IEEE 802.3ae 10-Gigabit Ethernet Over Fiber	
9		Compliant with Industry Standard RFT Electrical Connector and Cage	
10		Operating Temperature 32 -158° F (0 - 70°C)	
11		MTBF 4,986,536 hr (569 years)	
12		Power Consumption <1.5w	
13		UL 1950 CSA 22.2 No. 950	
14	Warranty and Support	5 Years Hardware replacement warranty	

15		Replacement with New Product Only No refurbished Products.	
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*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

3. Supply, Installation, Testing, Commissioning and Configuration of 1G Single Mode Duplex LC module (QTY.-22*)

S.No.	Technical Specifications		Compliance (YES / NO)
1	SFP Module	1000Base-LX Fiber SFP	
2		LC duplex connector	
3		1310 nm, for distances up to 10 km	
4		Single Mode Fiber	
5		ROHS Compliant	
6		Compliant with SFP Transceiver MSA specification	
7		Compliant with Specifications for IEEE 802.3z/Gigabit Ethernet	
8		Compliant with Industry Standard RFT Electrical Connector and Cage	
9		Single + 3.3V Power Supply and TTL Logic Interface	
10		Laser Class 1 Product which comply with the requirements of IEC 60825-1 and IEC 60825-2	
11	Warranty and Support	5 Years Hardware Replacement Warranty	
12		Replacement with New Product Only No refurbished Products.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

4. Supply, Installation, Testing, Commissioning and Configuration of 10G 4-Port Gigabit Ethernet Smart Switch with 4 10G SFP+ Ports (10G Uplink) (QTY.-54*)

S.No.	Technical Specifications		Compliance (YES / NO)
1	Physical Interface	Should support 24 port 1Gbps Copper & 4x10G SFP+ (fiber) uplinks or better, Included with 2 x 10G SFP+ modules & accessories	
2		Should have built-in USB A port to facilitate upload and download of configuration file via pen drive	
3		Should support Minimum CPU 800MHz ARM A55 Single Core, 512MB DDR RAM with 64MB FLASH or higher.	
4		The switch should support Temperature- and load-based fan-speed control combines accurate monitoring with minimized system acoustic noise.	
5		Should support Switch Mean time between failures (MTBF): 382,249 hours or better	
6		Should have Switching fabric more that 128 Gbps & Throughput of 83.52 Mpps or higher.	
7		Should have min 512 multicast groups.	
8		MAC address database size is 16K or better	
9		The number of VLAN supported is 256	
10		Switch should support Advanced features such as IPv4/IPv6 Layer 3 static routing,	
11	L2 Services - Availability	Broadcast, multicast, unknown unicast storm control, STP, RSTP, MSTP & Layer 2 DHCP Relay	
12	L2 Services - Multicast	IGMP snooping v1/v2/v3, MLD snooping support v1/v2, IGMP snooping querier v2, MLD snooping querier v1 &	



	Filtering	Multicast VLAN Registration (MVR)	
13	L3 Services	DHCP snooping, Static routing, VLAN routing	
14	Link Aggregation	IEEE 802.3ad - LAGs (LACP), Manual LAG	
15		Network Monitoring and Discovery Services - 802.1ab LLDP, SNMP v1/v2/v3, RMON group 1/2/3/9	
16	Network Security	802.1x, ACL, DoS attacks prevention, Network storm protection, Port Security, Dynamic ARP inspection	
17	Quality of Service (QoS)	Port-based rate limiting, Port-based QoS, DiffServ, COS, DSCP, ToS, WRR, Auto-VoIP VLAN / Auto-Voice VLAN	
18		Incase of multiple locations deployments all switches should be manageable remotely in single console without any application or onprime controller	
19		Should Natively support Voice VLAN with SIP and LLDP-MED IP phones automatic QoS and VLAN configuration	
20		Should be CE, FCC Class A, RCM, ICES Class A, VCCI, KC, BSMI, UKCA, CB, CSA, RCM, KC, BSMI certified	
21		Should have ISO certified ODM vendor and certificates should be shared.	
22		Firmware update scheduler should be available to minimize downtime and human error.	
23	Warranty and Support	Should support Lifetime Warranty on hardware of the product.	
24		Should support Lifetime firmware upgrade without any charges.	
25		Should support replacement with New Product Only No repair or refurbished Products.	
26		Should be manageable through remotely over cloud for easy monitoring and configuration. (include licenses from day1)	
27	Management, Monitoring & Troubleshooting	Cloud/Remote management through Mobile app & browser, SNMP, Port mirroring, Cable test utility	
28	Operating Temperature	0° to 50°C (32° to 122°F)	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

5. Supply, Installation, Testing, Commissioning and Configuration of 1G 24 Port Gigabit Smart manage switch with 2 SFP (1G Uplink) (QTY.-05*)

S. No.	Technical Specifications		Compliance (YES / NO)
1	Interfaces	24 RJ-45 connectors for 10BASE-T, 100BASE-TX and 1000BASE-T (Auto Uplink on all ports)	
2		2 Dedicated 100/1000X Fiber SFP ports	
3	Performance specifications	Bandwidth: 52 Gbps	
4		Packet buffer: 2MB	
5		Priority queues: 8	
6		Priority queuing: Weighted Round Robin (WRR)	
7		Address database size: 16,000 media access control (MAC) addresses per system	
8		Addressing: 48-bit MAC address	
9		Multicast groups: 512	
10		Number of static routes: 32	
11		Number of VLANs: 256	

12		ACL: 100 shared for MAC, IP and IPv6 ACLs	
13		Jumbo frame: 9K	
14		Mean time between failures (MTBF): 1,999,946 hrs (228 years)	
15		Fanless	
16	L2 Services	Protocol based, MAC, Voice & Guest VLANs	
17		RADIUS based VLAN assignment via .1x	
18		Broadcast, Unicast, Multicast Storm Protection	
19		DoS Attacks	
20		Dynamic ARP inspection	
21		IGMP Snooping (v1, v2 and v3)	
22		MLD Snooping Support (v1 and v2)	
23		Multicast VLAN Registration	
24	L3 Services	Static Routing	
25		DHCP Snooping	
26		VLAN Routing	
27		IP Source Guard	
28	Protocols	IEEE 802.1Q VLAN Tagging	
29		IEEE 802.3x Full-Duplex Flow Control	
30		IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX	
31		IEEE 802.3ad Trunking (LACP)	
32		IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)	
33		IEEE 802.1p Class of Service	
34		IEEE 802.1D Spanning Tree (STP), MSTP & RSTP	
35		IEEE 802.1X Radius network access control	
36	Security	L2 / L3 / L4 Access Control Lists (ACLs)	
37		MAC lockdown	
38		Dynamic VLAN Assignment	
39		Dynamic ARP inspection	
40	Quality of Service (QoS)	Support for IPv6 fields	
41		DiffServ QoS	
42		Dst MAC and IP	
43		IPv4 and v6 DSCP	
44		IPv4 and v6 TOS	
45		WRED (Weighted Deficit Round Robin)	
46		Strict Priority Queue Technology	
47	Management and Monitoring	Cloud based remote management configuration and monitoring	
48		Configurable Management VLAN	
49		Admin Access Control via Radius and TACACS+	
50		Web-based Graphical User Interface (GUI)	
51		IPv6 Management	
52		Dual Software (firmware) Image	
53		Dual Configuration File	
54		SSL/HTTPS and TLS v1.0 for Web-based access	
55		TFTP and HTTP File Transfers (uploads, downloads)	
56	LEDs	Per Device: Power and Fan	
57		Per Port: Speed, Link, Activity	
58	Power Supply	Maximum Power Consumption: 17.5W	
59		100-240V AC/50-60 Hz universal input	
60	Environmental Specifications	Operating temperature: 32° to 131°F (0° to 55° C)	
61		Storage temperature: -4° to 158°F (-20° to 70° C)	
62		Operating humidity: 90% maximum relative humidity, non-condensing	



63		Storage humidity: 95% maximum relative humidity, non-condensing	
64		Operating altitude: 10,000 ft (3,000 m) maximum	
65		Storage altitude: 10,000 ft (3,000 m) maximum	
66	Electromagnetic Compliance	CE mark, commercial	
67		FCC Part 15 Class A, VCCI Class A	
68		ICES-003 Class A, KC class A, UKCA class A, BSMI class A;	
69		RCM class A	
70	Safety Agency Approvals	CE, UKCA, CB, CSA, RCM, BSMI	
71	Warranty and Support	Lifetime hardware replacement warranty	
72		Lifetime free latest firmware support	
73		Replacement with New Product Only No refurbished Products.	
74		Mandatory Testing and Certification of Telecommunication Equipment Portal certified	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

6. Supply, Installation, Testing, Commissioning and Configuration of 1KVA On-line Rack Mount UPS (QTY.-93*)

S. No.	Technical Specifications		Compliance (YES / NO)
1	Main Input Voltage	230 V	
2	Product or component type	Uninterruptible power supply (UPS)	
3	Other Input Voltage	220 V - 240 V	
4	Main Output Voltage	230 V	
5	Other Output Voltage	220 V - 240 V	
6	Rated power in W	800 W	
7	Rated power in VA	1000 VA	
8	Input Connection Type	IEC 60320 C14	
9	Output connection type	4 India 3-pin 6A	
10	Number of rack unit	2U	
11	Cable length	1.5 m	
12	Number of cables	1	
13	Provided equipment	1 IEC 60320 C13 to India 3-pin 6A power cable 1 USB cable 1 RS-232 configuration cable 1 rack mounting brackets 1 stabilization/wall mounting feet user manual	
14	Battery type	Lead-acid battery	
15	Battery voltage	36 V	
16	Number of battery filled slots	1	
17	Battery recharge time	4 h	
18	Battery charger power	30 W rated	
19	Redundant	NO	
20	Colour	Black	
21	Height	8.8 cm	
22	Width	43.8 cm	
23	Depth	41.2 cm	
24	Product weight	13.6 kg	
25	Mounting location	Front	



26	Mounting preference	No preference	
27	Mounting mode	Rack-mounted with kit	
28	USB compatible	Supported	
29	Mounting position	Horizontal	
30	Input voltage limits	110...280 V half load 160...280 V full load	
31	Input protection type	Circuit breaker	
32	Network frequency	40...70 Hz auto sensing	
33	Maximum configurable power in VA	1000 VA	
34	Maximum configurable power in W	800 W	
35	Output frequency	50/60 Hz +/- 3 Hz sync to mains	
36	Harmonic distortion	3%	
37	UPS type	Double conversion online	
38	Wave type	Sine wave	
39	Efficiency	88 % (full load)	
40	Additional information	Configurable for 220 : 230 or 240 nominal output voltage	
41	Bypass type	Internal bypass (automatic and manual)	
42	Crest factor	03:01	
43	Product certifications	BIS	
44	<i>Environmental</i>		
45	Ambient air temperature for operation	0...40 °C	
46	Relative humidity	0...95 % non-condensing	
47	Operating altitude	0...3000 m	
48	Ambient air temperature for storage	-.20...60 °C	
49	Storage Relative Humidity	0...95 % non-condensing	
50	Storage altitude	0...15000 m	
51	Acoustic level	50 Dba	
52	Heat dissipation	372 Btu/h	
53	IP degree of protection	IP20	
54	Communications & Management		
55	Alarm	Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm	
56	Emergency power off	Yes	
57	Control panel	Multifunction LCD status and control console	
58	Surge Protection and Filtering		
59	Surge energy rate	600 J	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

7. Supply, Installation, Testing, Commissioning and Configuration of 25mm GI Flexible Pipe / GI Pipe for OFC Connectivity on the compound wall (QTY.- 2060 mtr.*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	Material	<ul style="list-style-type: none"> Galvanized Iron (GI) Hot-dipped galvanization for corrosion resistance Inner and outer surfaces treated using a 7-tank process for enhanced durability 	
2	Nominal Size	• 25 mm Outer Diameter (OD)	
3	Wall Thickness	• Typically ranges from 1.4 mm to 1.8 mm	
4	Markings	<ul style="list-style-type: none"> Embossed or printed ISI logo Manufacturer's name Size and standard reference 	
5	Features	<ul style="list-style-type: none"> High tensile strength and impact resistance Excellent shielding from electromagnetic interference (EMI) Suitable for indoor, outdoor, concealed, and underground installations Fire-retardant and weather-resistant Easy to bend and route around obstacles 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

8. Supply, Installation, Testing, Commissioning and Configuration of Steel Rope Wire for overhead Optical Fiber Cable (OFC) installations (in meter) along with Pole Mount Blocks for supports cable (used Approximately 608 Nos) (Qty.-17521 Mtr.*)

Sl. No.	Technical Specifications		Compliance (YES / NO)
1	Types of Steel Wire Ropes	Galvanized Steel Strand: Used for suspending fiber optic cables.	
2	Bend Radius	The minimum bend radius of the cable must be considered during installation and throughout its lifespan	
3	Common Sizes	It should 7/2.0mm or 7/1.8mm: used for armored fiber optic cables.	
	Pole Mount Block Specifications:		
4	Material	It should made from heat-treated aluminum alloy	
5	Dimensions	The size and shape of the block need to accommodate the wire rope and the fiber optic cable	
6	Load Capacity	The block's load capacity should be sufficient to handle the combined weight and tension of the wire rope and cable	
	Installation Considerations		
7	Tension:	Maintaining proper tension on the wire rope and fiber optic cable is crucial during installation to prevent sagging and ensure long-term performance.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

9. Supply, Installation, Testing, Commissioning and Configuration of 6Mtrs Pole with Accessories for OFC Cable Laying , as per Actual 6MTR HOT DEEP GALVANISED OCTAGNAL POLE 120X 70MM X2.6MM, BASE 200 X200 X12MM & FOUNDATION BOLT M16/600 (1 Set - 4 Pc) As per Actual (Qty.-608*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	HOT DEEP GALVANISED Octagonal Pole	<ul style="list-style-type: none"> • Length of pole - 6 meters • Type of pole – Octagonal • No of sections – 1 • No of longitudinal welding - 1 • Bottom (A/F) - 130 mm • Top (A/F) - 70 mm • Sheet thickness - 2.6 mm • No of sides – 8 • Material construction - BS EN 10025 (or equivalent) • Thickness of base plate - 12 mm • Maximum wind speed - 44 m/ S • No of foundation bolts – 4 • Material construction of base plate - IS 2062 (or equivalent) • Base plate (length x breadth) - 200 x 200 • PCD of base plate - 200 mm • Type of foundation bolts - TS 600 • Diameter of foundation bolts - 16 mm • Length of foundation bolts - 600 mm 	
	Pole mount bracket		
2	Material:	Galvanized steel or mild steel with a powder coating are preferred for durability and corrosion resistance, particularly for outdoor use.	
3		Aluminum alloys offer lighter weight and good corrosion resistance, suitable for humid or coastal areas.	
4	Dimensions:	Brackets come in various sizes, so choose one compatible with your camera and the diameter of the pole you are using	
5		Typical pole diameters supported range from 2 to 6 inches, though brackets with larger diameter rings (e.g., 200mm) are also available.	
6	Load capacity:	The bracket can safely support the weight of your camera and any additional equipment (e.g., housing, cables).	
7		Load capacities range from 2.5 kg (5.5 lbs) to 9 kg (20 lbs), depending on the model.	
8	Adjustability:	In Features like 360° rotation and 90° or 180° tilt capabilities for optimal camera positioning.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

10. Supply, Installation, Testing, Commissioning and Configuration of 6 Core SM OS2 Optical Fiber Cable with Outdoor corrugated steel tape Armoured, Unitube, Water Block Gel Filled, UV Stabilized Polyethylene (HDPE) outer Jacket and embedded with two steel wires on the periphery. (Qty.- 34742 Mtrs)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	6 Core SM OS2 Optical Fiber Cable	<ul style="list-style-type: none"> • Fiber Type: Single-mode (9/125µm OS2). • Fiber Count: 6 cores. • Cable Type: Outdoor armored. • Jacket Material: HDPE (High-Density Polyethylene). • Armoring: Corrugated steel tape. • Strength Member: Two steel wires. • Water Blocking: Gel-filled tube and interstices. • Core Wrapping: Water swellable tape. • Typical Applications: Used in internet service infrastructure, enterprise networks, and data centers. • Key Features: UV stabilized, rodent protection, and suitable for long-distance, high-speed data transmission • Armoring: Corrugated Steel Tape Armor (ECCS Tape) Thickness > 0.125mm • Peripheral Strength Member: Two steel wires (0.9 mm dia) • Sheath Thickness: 2.0 mm nominal • Sheath Color: Black,etc. 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

11. Supply, Installation, Testing, Commissioning and Configuration of 12 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtails) (Qty.-60*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	12 Fiber Core Fixed Type Loaded LIU	<ul style="list-style-type: none"> • Material: Powder coated Mild Steel • Rack Height: 1U • Fiber Type: Single-mode (OS2) • Direct: Termination • Splice Tray: Fixed type for fusion or mechanical splicing • Dimensions: Rack Mount 482mm W x 254mm D x 43mm H • Connector Type : LC • Operating Temperature: -40°C to +80°C • Compliance: EN 61587-1, IEC 60917, IEC 60297, RoHS 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.



12. Supply, Installation, Testing, Commissioning and Configuration of 24 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtaills) (Qty.-11*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	24 Fiber Core Fixed Type Loaded LIU	<ul style="list-style-type: none"> • Material: Powder coated Mild Steel • Rack Height: 1U • Fiber Type: Single-mode (OS2) • Direct: Termination • Splice Tray: Fixed type for fusion or mechanical splicing • Dimensions: Rack Mount 482mm W x 254mm D x 43mm H • Connector Type : LC • Operating Temperature: -40°C to +80°C • Compliance: EN 61587-1, IEC 60917, IEC 60297, RoHS 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

13. Supply, Installation, Testing, Commissioning and Configuration of 48 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtaills) (Qty.-10*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	48 Fiber Core Fixed Type Loaded LIU	<ul style="list-style-type: none"> • Material: Powder coated Mild Steel • Rack Height: 1U • Fiber Type: Single-mode (OS2) • Direct: Termination • Splice Tray: Fixed type for fusion or mechanical splicing • Dimensions: Rack Mount 482mm W x 254mm D x 43mm H • Connector Type : LC • Operating Temperature: -40°C to +80°C • Compliance: EN 61587-1, IEC 60917, IEC 60297, RoHS 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

14. Supply, Installation, Testing, Commissioning and Configuration of LC Pigtaills Fibre 9µm (OS1/2) SM - 1.5m (Qty.-989*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	LC Pigtaills Fibre 9µm	<ul style="list-style-type: none"> • Connector Type: LC (Lucent Connector). • Fiber Type: Single Mode (OS2). • Cable Length: 1.5 meters (1.5m). • Jacket Material: LSZH (Low Smoke Zero Halogen). • Standards Compliance: Compliant with ISO/IEC 11801, ANSI/TIA/EIA 568.3-D, and other relevant standards. • Optical Performance: Designed for low insertion loss and high return loss, with factory testing and guaranteed performance. • Cable Diameter: 2.0mm +/- 0.1mm x 4.1mm +/- 0.2mm. • Minimum Bend Radius: 3.0cm (installation) and 2.0cm (long-term). 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.



15. Supply, Installation, Testing, Commissioning and Configuration of LC-LC Patch Cord, (OS1/2) SM, LSOH - 3m (Qty.-330*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	LC-LC Patch Cord (OS1/2) SM, LSOH	<ul style="list-style-type: none"> • Connector Type: LC/LC (Duplex). • Fiber Type: Single-mode (SM). • Cable Type: 2-fiber zipcord, 2.9mm x 6.0mm. • Jacket Material: LSOH (Low Smoke Zero Halogen). • Length: 3 meters (3M). • Insertion Loss: 0.30dB. • Standards: OS1/OS2. • Compatible Devices: Switches, servers, routers, and other networking equipment. • Special Features: High-quality connectors, durable jacket. • Minimum Bend Radius (Install): 3.0cm. • Long Term Bend Radius: 2.0cm. • Operating Temperature: -40°C to +85°C. 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

16. Supply, Installation, Testing, Commissioning and Configuration of 32mm HDPE and accessories (Quantity in Meters) (Qty-2500mtr.*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	32mm HDPE	<ul style="list-style-type: none"> • ISI mark good quality HDPE Outer Diameter: 32mm • Wall Thickness: Typically 3.0mm \pm 0.2mm • Inner Layer Thickness: Minimum 0.24mm, Maximum 0.36mm • Standard Length: 1000 \pm 100 meters • Inner Coefficient of Friction: Should not exceed 0.06 for easy cable installation 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

17. Supply, Installation, Testing, Commissioning and Configuration of 25mm HDPE and accessories (Qty – 6770 mtr*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	25mm HDPE	<ul style="list-style-type: none"> • ISI mark good quality HDPE • 25mm HDPE Duct (for Distribution routes) • Outer Diameter: 25mm • Wall Thickness: Similar to 32mm, 3.0mm \pm 0.2mm (though not explicitly stated in the search results, this is a common specification for this size) • Inner Layer Thickness: Minimum 0.24mm, Maximum 0.36mm • Standard Length: 1000 \pm 100 meters • Inner Coefficient of Friction: Should not exceed 0.06 	6770mtr

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

18. Supply, Installation, Testing, Commissioning and Configuration of 3 Core Copper Armoured cable, 2.5 sq mm (Qty.-2948 mtr*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	3 Core Copper Armoured cable, 2.5 sq mm	<ul style="list-style-type: none"> • Conductor Material: Copper. • Number of Cores: 3. • Conductor Size: 2.5 sq mm. • Armour: Round Strip Armoured or GI Steel Armour. • Outer Sheath: Often PVC (Polyvinyl Chloride), potentially FRLS (Flame Retardant Low Smoke) type for enhanced safety. 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

19. Supply, Installation, Testing, Commissioning and Configuration of 8 Module Face Plate - 3 x 6/16 Amp Socket + 1 Nos 16 Amp Switch + 1 Dummy Qty.- 08*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	8 Module Face Plate - 3 x 6/16 Amp Socket	<ul style="list-style-type: none"> • Indian MultiPin: The sockets are typically of the Indian MultiPin type, designed to accommodate both 6A and 16A appliances. • Voltage: 230V AC. • Current: 6A/16A combined rating, meaning each socket can handle either 6A or 16A loads. • Frequency: 50-60 Hz. 	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

20. Supply, Installation, Testing, Commissioning and Configuration of 8 Module PVC Surface Box for Above Face Plate (Qty. – 08*)

Sl. No	Description	Technical Specifications	Compliance (YES / NO)
1	Modules & Material	<ul style="list-style-type: none"> • Modules: Accommodates up to 8 modules of electrical accessories. • Material: High-quality impact-resistant PVC or ABS plastic with metal thread inserts are preferred for durability. 	
2	Fire Retardancy:	<ul style="list-style-type: none"> • PVC inherently possesses fire-retardant properties due to its chlorine content. • This is further enhanced in some surface boxes through the addition of flame retardant additives, improving fire safety and extending the lifespan. 	
3	Dimensions:	Dimensions can vary slightly between manufacturers. Examples: 145x152x48 mm or 140D x 40W x 70H Millimeters.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

21. Supply, Installation, Testing, Commissioning and Configuration of 9U/550x600 Wall Mount RACK with All Accessories (Qty.- 59*)

Sl. No	Technical Specifications	Compliance (YES / NO)
1	Rack should be from ISO 14001 ,27000 Certified Company & UL Listed	
2	Standard for Racks configuration will be welded frame with Integrated side panel and vented top cover	
3	Rack should have Front tinted Glass door	
4	Rack should have provision to mount racks on Wall	
5	Rack should be 9U(1U = 44.45 mm) in Height.	
6	It should be minimum 550MM Wide & 600MM Deep	
7	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN/CEA Standard	
8	Rack should have Adjustable mounting depth,	
9	Rack 4 No Adjustable, 19" verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space	
10	Rack should have Numbered U positions,	
11	Rack should have 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)	
12	Powder coated finish with seven Tanks pre-treatment process meeting IS	
13	Rack should have one Hoz. Cable Manager Loop 1U.	
14	Rack should have one Cantilever shelf.	
15	Rack should have Fan module Mount Provision on top Cover with minimum 1 no. 90 CFM Fan	
16	Rack should have one Server/IT Rack mount power distribution unit, 1Ph, 230V, 16A, 50/60Hz, 2U standard with 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB-PDU Rating 3.6KVA/Side feed-1.5Mt/Black	
17	Rack should have provision for cable entry Exit from Both top & Bottom.	
18	Rack should have 1 Packet of mounting hardware, Pack of 20.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

22. Supply, Installation, Testing, Commissioning and Configuration of 9U Wall Mount Out Door RACK: 9U/600x600 Rack/WMOD/Metal Door/IP56 (Qty.- 07*)

Sl. No	Technical Specifications	Compliance (YES / NO)
1	Racks manufactured out of steel sheet punched, formed, welded and Powder coated	
2	Rack should be from ISO 14001, 27000 Certified Company	
3	Rack should be UL Certified	
4	Standard for Racks configuration will be welded frame with integrated side panel and vented top cover	
5	Rack should have Front Metal Door With Lock and Key.	
6	Rack should have provision to mount racks on Wall	
7	Rack should be 9U(1U = 44.45 mm) in Height.	
8	It should be minimum 600MM Wide & 600MM Deep	
9	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN/CEA Standard	

10	Rack should have Adjustable mounting depth,	
11	Rack 4 No Adjustable, 19" verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.	
12	Rack should have Numbered U positions,	
13	Rack should have 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)	
14	Powder coated finish with seven Tanks pre-treatment process meeting IS	
15	The rack should comply minimum of IP 56 rating for protection against touch, ingress of foreign bodies and ingress of water.	
16	Rack should have one Hoz. Cable Manager.	
17	Rack should have one shelf.	
18	Rack should have Fan module Mount Provision on Bottom Cover with minimum 2 no. 90 CFM Fans and Filter Unit with Double Louvered Cover and same is mounted in Bottom of the rack	
19	Rack should have one Server/IT Rack mount power distribution unit, 1Ph, 230V, 16A, 50/60Hz, 2U standard with 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB-PDU Rating 3.6KVA/Side feed-1.5Mt/Black	
20	Rack should have provision for cable entry Exit from Bottom Side Only.	
21	Rack should have 1 Packet of mounting hardware, Pack of 20.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

23. Supply, Installation, Testing, Commissioning and Configuration of 12U/550x600 Wallmount Rack with All Accessories (Qty.-17*)

Sl. No	Technical Specifications	Compliance (YES / NO)
1	Racks manufactured out of steel sheet punched, formed, welded and Powder coated	
2	Rack should be from ISO 14001 ,27000 Certified Company & UL Listed	
3	Standard for Racks configuration will be welded frame with Integrated side panel and vented top cover	
4	Rack should have Front tinted Glass door	
5	Rack should have provision to mount racks on Wall	
6	Rack should be 12U(1U = 44.45 mm) in Height.	
7	It should be minimum 550MM Wide & 600MM Deep	
8	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN/CEA Standard	
9	Rack should have Adjustable mounting depth,	
10	Rack 4 No Adjustable, 19" verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.	
11	Rack should have Numbered U positions,	
12	Rack should have 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)	
13	Powder coated finish with seven Tanks pre-treatment process meeting IS	
14	Rack should have one Hoz. Cable Manager Loop 1U.	
15	Rack should have one Cantilever shelf.	
16	Rack should have Fan module Mount Provision on top Cover with	



	minimum 1 no. 90 CFM Fan	
17	Rack should have one Server/IT Rack mount power distribution unit, 1Ph, 230V, 16A, 50/60Hz, 2U standard with 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB-PDU Rating 3.6KVA/Side feed-1.5Mt/Black	
18	Rack should have provision for cable entry Exit from Both top & Bottom.	
19	Rack should have 1 Packet of mounting hardware, Pack of 20.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.

24. Supply, Installation, Testing, Commissioning and Configuration of 15U Wall Mount RACK with All Accessories: 15U/550x600 Rack/Welded/WM (Qty.-09*)

Sl. No	Technical Specifications	Compliance (YES / NO)
1	Racks manufactured out of steel sheet punched, formed, welded and Powder coated	
2	Rack should be from ISO 14001 ,27000 Certified Company & UL Listed	
3	Standard for Racks configuration will be welded frame with Integrated side panel and vented top cover	
4	Rack should have Front tinted Glass door	
5	Rack should have provision to mount racks on Wall	
6	Rack should be 15U(1U = 44.45 mm) in Height.	
7	It should be minimum 550MM Wide & 600MM Deep	
8	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN/CEA Standard	
9	Rack should have Adjustable mounting depth,	
10	Rack 4 No Adjustable, 19" verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.	
11	Rack should have Numbered U positions,	
12	Rack should have 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)	
13	Powder coated finish with seven Tanks pre-treatment process meeting IS	
14	Rack should have one Hoz. Cable Manager Loop 1U.	
15	Rack should have one Cantilever shelf.	
16	Rack should have Fan module Mount Provision on top Cover with minimum 1 no. 90 CFM Fan	
17	Rack should have one Server/IT Rack mount power distribution unit, 1Ph, 230V, 16A, 50/60Hz, 2U standard with 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB-PDU Rating 3.6KVA/Side feed-1.5Mt/Black	
18	Rack should have provision for cable entry Exit from Both top & Bottom.	
19	Rack should have 1 Packet of mounting hardware, Pack of 20.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.



25. Supply, Installation, Testing, Commissioning and Configuration of 22U 600x600 Floor Mount
RACK: 22URack Frame/600x600/Steel/FM/Casters Type 2 (Qty.-01*)

Sl. No	Technical Specifications	Compliance (YES / NO)
1	Racks manufactured out of steel sheet punched, formed, welded and Powder coated.	
2	Rack should be from ISO 14001, 27000 Certified Company & UL Listed.	
3	Standard for Racks configuration will be welded frame with integrated side panel and vented top cover	
4	Rack should have Front tinted Glass door and Rear Metal Door.	
5	Rack should have provision to mount racks on Floor.It should be with castor.	
6	Rack should be 22U(1U = 44.45 mm) in Height.	
7	It should be 600MM Wide & 600MM Deep.	
8	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN/CEA Standard.	
9	Rack should have Adjustable mounting depth	
10	Rack 4 No Adjustable, 19" verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.	
11	Rack should have Numbered U positions,	
12	Rack should have 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)	
13	Powder coated finish with seven Tanks pre-treatment process meeting IS	
14	Rack should have one Hoz. Cable Manager.	
15	Rack should have one Heavy duty shelf.	
16	Rack should have Fan module Mount Provision on top Cover with 2 Fan Housing unit	
17	Rack should have one Server/IT Rack mount power distribution unit,1Ph,230V,16A,50/60Hz,2U standard with 6 X Indian Round Pin 5/15A,Inlet Plug type 16A Indian Round Pin,16A MCB-PDU Rating 3.6KVA/Side feed-1.5Mt/Black	
18	Rack should have provision for cable entry Exit from Both top & Bottom.	
19	Rack should have 1 Packet of mounting hardware, Pack of 20.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.



26. Supply, Installation, Testing, Commissioning and Configuration of 42U 800x1000 Floor Mount Network Rack with All Accessories (Qty-01*)

Sl. No	Technical Specifications	Compliance (YES / NO)
1	Racks manufactured out of steel sheet punched, formed, welded and Powder coated	
2	Rack should be from ISO 14001 ,27000 Certified Company & UL Listed	
3	Standard for Racks configuration will be welded/CKD frame and side panels and vented top cover	
4	Rack should have Front Convex Single Perforated Door and Dual Perforated door at Rear.	
5	Rack should have 2 no's of removable side panel with slam latch.	
6	Rack should have provision to mount racks on Floor.It should be with castor & levellers.	
7	The Rack unit supported by casters static load of at least 750Kgs and by Levelers should support a static load of at least 1250Kgs.	
8	Rack should have provision to mount racks on Floor	
9	Rack should be 42U(1U = 44.45 mm) in Height.	
10	It should be 800MM Wide,1000MM Deep and Overall height 2115 MM.	
11	Rack should include adopter kit 1 no (loop type)	
12	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN Standard	
13	Rack should have Adjustable mounting depth,	
14	Rack 4 No Adjustable, 19" verticals with Punched 9mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.	
15	Rack should have Numbered U positions,	
16	Rack should have 100% assured compatibility with all equipments conforming to DIN 41494 (General industrial standard for equipments)	
17	Powder coated finish with seven Tanks pretreatment process meeting IS	
18	Rack should have Proper Grounding & Bonding	
19	Rack should have Fan module Mount Provision on top Cover	
20	Rack should have Fan tray with 4 no's 90 CFM Fan	
21	Rack should have 1 No Fixed shelf with 715mm depth for mounting NON Rack mountable Equipments	
22	Rack should have 1 Horizontal Cable manager	
23	Rack should have 2 No Server /IT Rack mount power distribution unit, 1Ph, 230V, 32A, 50/60Hz, Zero U standard with 12 X Indian Round Pin 5/15A, 16A MCB X 2 Circuits- PDU Rating 7.3KVA/Bottom feed-3Mt/ Black/ Inlet Plug Not Installed	
24	Rack should have provision for cable entry Exit from Both top & Bottom.	
25	Rack should have 1 Packet of mounting hardware, Pack of 20.	

*Note: The quantity mentioned is indicative; actual quantity shall be as per site requirement and consumption.



E-TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND CONFIGURATION OF OPTICAL FIBER CABLE (OFC) BACKBONE NETWORK INCLUDING ACTIVE AND PASSIVE NETWORKING COMPONENTS FOR INTERCONNECTING ALL SCHOOLS AND UNIVERSITY BUILDINGS OF SRTM UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

E-Tender No.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025

Appendix – II

Item Code	Particulars	Bidder should Mention Company/Brand and model No. of Networking materials to be Supply
	ACTIVE - SWITCHES	
1	Supply, Installation, Testing, Commissioning and Configuration of 8X10G, 8XSFP+ Managed Switch (Distribution) (Approved Make - Netgear/HPE/Cisco/Juniper)	
2	Supply, Installation, Testing, Commissioning and Configuration of 10G Single Mode Duplex LC Module (10G Module) (Approved Make - Netgear/HPE/Cisco/Juniper)	
3	Supply, Installation, Testing, Commissioning and Configuration of 1G Single Mode Duplex LC module (1G Module) (Approved Make - Netgear/HPE/Cisco/Juniper)	
4	Supply, Installation, Testing, Commissioning and Configuration of 10G 4-Port Gigabit Ethernet Smart Switch with 4 10G SFP+ Ports (10G Uplink) (Approved Make - Netgear/HPE/Cisco/Juniper)	
5	Supply, Installation, Testing, Commissioning and Configuration of 1G 24 Port Gigabit Smart manage switch with 2 SFP (1G Uplink) (Approved Make - Netgear/HPE/Cisco/Juniper)	
	UPS 1 KVA	
6	Supply, Installation, Testing, Commissioning and Configuration of 1KVA On-line Rack Mount UPS , (Approved Make - APC / Vertiv / Schneider)	
	FIBER OPTIC BACKBONE SINGLEMODE	
7	Supply, Installation, Testing, Commissioning and Configuration of 25mm GI Flexible Pipe / GI Pipe for OFC Connectivity on the compound wall (Approved Make - Precision / Flex Tubes / Krisstop). Included Accessories	
8	Supply, Installation, Testing, Commissioning and Configuration of Steel Rope Wire for overhead Optical Fiber Cable (OFC) installations (in meter) along with Pole Mount Blocks for supports cable (608 Nos) (Approved Make - Usha Martin / Bharat Wire Ropes / WireCo)	
9	Supply, Installation, Testing, Commissioning and Configuration of 6Mtrs Pole with Accessories for OFC Cable Laying , as per Actual 6MTR HOT DEEP GALVANISED OCTAGNAL POLE 120X 70MM X2.6MM, BASE 200 X200 X12MM & FOUNDATION BOLT M16/600 (1 Set - 4 Pc) As per Actual (Approved Make -Lightsol / Bajaj / Jindal)	
10	Supply, Installation, Testing, Commissioning and Configuration of 6 Core SM OS2 Optical Fiber Cable with Outdoor corrugated steel tape Armoured, Unitube, Water Block Gel Filled, UV Stabilized Polyethylene (HDPE) outer Jacket and embedded with two steel wires on the periphery (In Mtrs) (Approved Make -Molex/Systemax/Panduit)	
11	Supply, Installation, Testing, Commissioning and Configuration of 12 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtails) (Approved Make -	



	Molex/Systimax/Panduit)	
12	Supply, Installation, Testing, Commissioning and Configuration of 24 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtailes) (Approved Make - Molex/Systimax/Panduit)	
13	Supply, Installation, Testing, Commissioning and Configuration of 48 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtailes) (Approved Make - Molex/Systimax/Panduit)	
14	Supply, Installation, Testing, Commissioning and Configuration of LC Pigtailes Fibre 9µm (OS1/2) SM - 1.5m (Approved Make -Molex/Systimax/Panduit)	
15	Supply, Installation, Testing, Commissioning and Configuration of LC-LC Patch Cord, (OS1/2) SM, LSOH - 3m (Approved Make -Molex/Systimax/Panduit)	
16	Supply, Installation, Testing, Commissioning and Configuration of 32mm HDPE & GI Pipe and accessories (Approved Make - Supreme /Prince / Finolex)	
17	Supply, Installation, Testing, Commissioning and Configuration of 25mm HDPE & GI Pipe and accessories (Approved Make - Supreme /Prince / Finolex)	
18	Supply, Installation, Testing, Commissioning and Configuration of 3 Core Copper Armoured cable, 2.5 sq mm (Approved Make - FINOLEX / HAVELLS / POLYCAB)	
19	Supply, Installation, Testing, Commissioning and Configuration of 8 Module Face Plate - 3 x 6/16 Amp Socket + 1 Nos 16 Amp Switch + 1 Dummy (Approved Make - Havells / Anchor / Legrand)	
20	Supply, Installation, Testing, Commissioning and Configuration of 8 Module PVC Surface Box for Above Face Plate (Approved Make - Havells / Anchor / Legrand)	
	NETWORK RACKS & ACCESSORIES	
21	Supply, Installation, Testing, Commissioning and Configuration of 9U/550x600 Wallmount Rack with All Accessories (Approved Make - Netrack/Valrack/WQ)	
22	Supply, Installation, Testing, Commissioning and Configuration of 9U Wall Mount Out Door RACK: 9U/600x600 Rack/WMOD/Metal Door/IP56 (Approved Make - Netrack/Valrack/WQ)	
23	Supply, Installation, Testing, Commissioning and Configuration of 12U/550x600 Wallmount Rack with All Accessories (Approved Make - Netrack/Valrack/WQ)	
24	Supply, Installation, Testing, Commissioning and Configuration of 15U Wall Mount RACK with All Accessories: 15U/550x600 Rack/Welded/WM (Approved Make - Netrack/Valrack/WQ)	
25	Supply, Installation, Testing, Commissioning and Configuration of 22U 600x600 Floor Mount RACK: 22URack Frame/600x600/Steel/FM/Casters Type 2 (Approved Make - Netrack/Valrack/WQ)	
26	Supply, Installation, Testing, Commissioning and Configuration of 42U 800x1000 Floor Mount Network Rack with All Accessories (Approved Make - Netrack/Valrack/WQ)	

Bidders Name of Firm, Signature / seal



E-TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND CONFIGURATION OF OPTICAL FIBER CABLE (OFC) BACKBONE NETWORK INCLUDING ACTIVE AND PASSIVE NETWORKING COMPONENTS FOR INTERCONNECTING ALL SCHOOLS AND UNIVERSITY BUILDINGS OF SRTM UNIVERSITY, NANDED - 431 606 (MAHARASHTRA)

E-Tender No.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025



Tender Schedule

Sr. No	Key Days of the Tender	Start Date & Time	Expiry Date & Time
1	Tender Release	18 -03-2026 11:00	18 -03-2026 15:00
2	Tender document downloading	18 -03-2026 15:01	06 -04-2026 15:00
3	Online submission	18 -03-2026 15:01	06 -04-2026 15:00
4	Pre Bid Meeting	24 -03-2026 11:01	---
5	Technical Bid opening & short listing	07 -04-2026 15:00 if possible	---
6	Financial Bid opening	08 -04-2026 15:00 if possible	---

Contact below Nos., If any Query

- 1) Toll free Nos.: : 1800 3070 2232
- 2) Technical Enquiry : System Expert: +91 7588675768
- 3) Tender Enquiry : 02462 215540 (Finance & Accounts Officer)
02462 215526 (Superintendent, Estate Deptt.)


Registrar
 Swami Ramanand Teerth
 Marathwada University, Nanded.
 (Maharashtra State) INDIA-431606

E-TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND CONFIGURATION OF OPTICAL FIBER CABLE (OFC) BACKBONE NETWORK INCLUDING ACTIVE AND PASSIVE NETWORKING COMPONENTS FOR INTERCONNECTING ALL SCHOOLS AND UNIVERSITY BUILDINGS OF SRTM UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

E-Tender No.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025

Specification of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components

Sr. No.	Item Description	Quantity Required
	ACTIVE - SWITCHES	
1	Supply, Installation, Testing, Commissioning and Configuration of 8X10G, 8XSFP+ Managed Switch (Distribution) (Approved Make - Netgear/HPE/Cisco/Juniper)	11
2	Supply, Installation, Testing, Commissioning and Configuration of 10G Single Mode Duplex LC Module (10G Module) (Approved Make - Netgear/HPE/Cisco/Juniper)	134
3	Supply, Installation, Testing, Commissioning and Configuration of 1G Single Mode Duplex LC module (1G Module) (Approved Make - Netgear/HPE/Cisco/Juniper)	22
4	Supply, Installation, Testing, Commissioning and Configuration of 10G 4-Port Gigabit Ethernet Smart Switch with 4 10G SFP+ Ports (10G Uplink) (Approved Make - Netgear/HPE/Cisco/Juniper)	54
5	Supply, Installation, Testing, Commissioning and Configuration of 1G 24 Port Gigabit Smart manage switch with 2 SFP (1G Uplink) (Approved Make - Netgear/HPE/Cisco/Juniper)	5
	UPS 1 KVA	
6	Supply, Installation, Testing, Commissioning and Configuration of 1KVA On-line Rack Mount UPS , (Approved Make - APC / Vertiv / Schneider)	93
	FIBER OPTIC BACKBONE SINGLEMODE	
7	Supply, Installation, Testing, Commissioning and Configuration of 25mm GI Flexible Pipe / GI Pipe for OFC Connectivity on the compound wall (Approved Make - Precision / Flex Tubes / Krisstop). Included Accessories	2060 Mtrs
8	Supply, Installation, Testing, Commissioning and Configuration of Steel Rope Wire for overhead Optical Fiber Cable (OFC) installations (in meter) along with Pole Mount Blocks for supports cable (608 Nos) (Approved Make - Usha Martin / Bharat Wire Ropes / WireCo)	17521 Mtrs
9	Supply, Installation, Testing, Commissioning and Configuration of 6Mtrs Pole with Accessories for OFC Cable Laying , as per Actual 6MTR HOT DEEP GALVANISED OCTAGNAL POLE 120X 70MM X2.6MM, BASE 200 X200 X12MM & FOUNDATION BOLT M16/600 (1 Set - 4 Pc) As per Actual (Approved Make -Lightsol / Bajaj / Jindal)	608
10	Supply, Installation, Testing, Commissioning and Configuration of 6 Core SM OS2 Optical Fiber Cable with Outdoor corrugated steel tape Armoured, Unitube, Water Block Gel Filled, UV Stabilized Polyethylene (HDPE) outer Jacket and embedded with two steel wires on the periphery (In Mtrs) (Approved Make - Molex/Systimax/Panduit)	34742 Mtrs
11	Supply, Installation, Testing, Commissioning and Configuration of 12 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtailes) (Approved Make - Molex/Systimax/Panduit)	60
12	Supply, Installation, Testing, Commissioning and Configuration of 24 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtailes) (Approved Make - Molex/Systimax/Panduit)	11
13	Supply, Installation, Testing, Commissioning and Configuration of 48 Fiber Core Fixed Type Loaded LIU - SM – LC (Without Pigtailes) (Approved Make - Molex/Systimax/Panduit)	10
14	Supply, Installation, Testing, Commissioning and Configuration of LC Pigtailes Fibre	989





	9µm (OS1/2) SM - 1.5m (Approved Make -Molex/Systimax/Panduit)	
15	Supply, Installation, Testing, Commissioning and Configuration of LC-LC Patch Cord, (OS1/2) SM, LSOH - 3m (Approved Make -Molex/Systimax/Panduit)	330
16	Supply, Installation, Testing, Commissioning and Configuration of 32mm HDPE & GI Pipe and accessories (Approved Make - Supreme /Prince / Finolex)	2500 Mtr.
17	Supply, Installation, Testing, Commissioning and Configuration of 25mm HDPE & GI Pipe and accessories (Approved Make - Supreme /Prince / Finolex)	6770 Mtr.
18	Supply, Installation, Testing, Commissioning and Configuration of 3 Core Copper Armoured cable, 2.5 sq mm (Approved Make - FINOLEX / HAVELLS / POLYCAB)	2948 Mtr.
19	Supply, Installation, Testing, Commissioning and Configuration of 8 Module Face Plate - 3 x 6/16 Amp Socket + 1 Nos 16 Amp Switch + 1 Dummy (Approved Make - Havells / Anchor / Legrand)	8
20	Supply, Installation, Testing, Commissioning and Configuration of 8 Module PVC Surface Box for Above Face Plate (Approved Make - Havells / Anchor / Legrand)	8
	NETWORK RACKS & ACCESSORIES	
21	Supply, Installation, Testing, Commissioning and Configuration of 9U/550x600 Wallmount Rack with All Accessories (Approved Make - Netrack/Valrack/WQ)	59
22	Supply, Installation, Testing, Commissioning and Configuration of 9U Wall Mount Out Door RACK: 9U/600x600 Rack/WMOD/Metal Door/IP56 (Approved Make - Netrack/Valrack/WQ)	7
23	Supply, Installation, Testing, Commissioning and Configuration of 12U/550x600 Wallmount Rack with All Accessories (Approved Make - Netrack/Valrack/WQ)	17
24	Supply, Installation, Testing, Commissioning and Configuration of 15U Wall Mount RACK with All Accessories: 15U/550x600 Rack/Welded/WM (Approved Make - Netrack/Valrack/WQ)	9
25	Supply, Installation, Testing, Commissioning and Configuration of 22U 600x600 Floor Mount RACK: 22URack Frame/600x600/Steel/FM/Casters Type 2 (Approved Make - Netrack/Valrack/WQ)	1
26	Supply, Installation, Testing, Commissioning and Configuration of 42U 800x1000 Floor Mount Network Rack with All Accessories (Approved Make - Netrack/Valrack/WQ)	1

Note: Detail Technical Specification mentioned in Compliance Report (appendix-i)

E-TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND CONFIGURATION OF OPTICAL FIBER CABLE (OFC) BACKBONE NETWORK INCLUDING ACTIVE AND PASSIVE NETWORKING COMPONENTS FOR INTERCONNECTING ALL SCHOOLS AND UNIVERSITY BUILDINGS OF SRTM UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

E-Tender No.: Estate/Fiber Optic/Computer Center/SRTMUN/ET-50-2025

Site Visit Report

SITE SURVEY CERTIFICATE

This is to certify that the authorized representatives of M/s. _____

Address: _____

Contact Person Name & Designation: _____

_____ have conducted a site visit on ___ / ___ / ___ at our _____ premises in _____ connection with _____ Tender No. _____

_____, pertaining to the work titled: "Supply, Installation, Testing, Commissioning and Configuration of Optical Fiber Cable (OFC) Backbone Network including Active and Passive Networking Components for Interconnecting All Schools and University Buildings of Swami Ramanand Teerth Marathwada University, Nanded"

During the course of the visit, the bidder's representatives inspected the site conditions, existing infrastructure, proposed routes, technical requirements, and other relevant aspects necessary for proper understanding of the scope of work as specified in the tender document.

This certificate is issued strictly as per the provisions of the tender document for the purpose of technical bid evaluation only. Issuance of this certificate shall not be construed as acceptance of the bidder's offer nor shall it confer any right, claim, or entitlement for award of the contract.

**Signature of bidder /
bidder's representative**

**Seal and Signature of
Dean, Science and Technology**



Sl. No.	Item Description	Estimated Quantity (Approx.)	Units (Per No)	BASIC RATE In Figures To be Bidder in Rs. P	GST (If applicable in Percentage)	GST Amount in Rs. P	TOTAL AMOUNT excluding taxes in Rs. P	TOTAL AMOUNT including taxes in Rs. P	TOTAL AMOUNT in Words
		4	5	7	8	9	11	12	13
1									
3.01	2 Supply, Installation, Testing, Commissioning and Configuration of 1KVA On-line Rack Mount UPS, (Approved Make - APC / Vertiv / Schneider)	93.00	Nos			0.00	0.00	0.00	INR Zero Only
4.00	FIBER OPTIC BACKBONE SINGLEMODE								
4.01	Supply, Installation, Testing, Commissioning and Configuration of 25mm GI Flexible Pipe / GI Pipe for OFC Connectivity on the compound wall (Approved Make - Precision / Flex Tubes / Krisstop). Included Accessories	2060.00	Mtrs			0.00	0.00	0.00	INR Zero Only
4.02	Supply, Installation, Testing, Commissioning and Configuration of Steel Rope Wire for overhead Optical Fiber Cable (OFC) installations (in meter) along with Pole Mount Blocks for supports cable (608 Nos) (Approved Make - Usha Martin / Bharat Wire Ropes / WireCo)	17521.00	Mtrs			0.00	0.00	0.00	INR Zero Only
4.03	Supply, Installation, Testing, Commissioning and Configuration of 6Mtrs Pole with Accessories for OFC Cable Laying , as per Actual 6MTR HOT DEEP GALVANISED OCTAGNAL POLE 120X 70MM X2.6MM, BASE 200 X200 X12MM & FOUNDATION BOLT M16/600 (1 Set - 4 Pc) As per Actual (Approved Make - Lightsol / Bajaj / Jindal)	608.00	Nos.			0.00	0.00	0.00	INR Zero Only
4.04	Supply, Installation, Testing, Commissioning and Configuration of 6 Core SM OS2 Optical Fiber Cable with Outdoor corrugated steel tape Armoured, Unifitube, Water Block Gel Filled, UV Stabilized Polyethylene (HDPE) outer Jacket and embedded with two steel wires on the periphery (In Mtrs) (Approved Make -Molex/Systimax/Panduit)	34742.00	Mtrs			0.00	0.00	0.00	INR Zero Only
4.05	Supply, Installation, Testing, Commissioning and Configuration of 12 Fiber Core Fixed Type Loaded LIU - SM - LC (Without Pigtails) (Approved Make - Molex/Systimax/Panduit)	60.00	Nos.			0.00	0.00	0.00	INR Zero Only
4.06	Supply, Installation, Testing, Commissioning and Configuration of 24 Fiber Core Fixed Type Loaded LIU - SM - LC (Without Pigtails) (Approved Make - Molex/Systimax/Panduit)	11.00	Nos.			0.00	0.00	0.00	INR Zero Only
4.07	Supply, Installation, Testing, Commissioning and Configuration of 48 Fiber Core Fixed Type Loaded LIU - SM - LC (Without Pigtails) (Approved Make - Molex/Systimax/Panduit)	10.00	Nos.			0.00	0.00	0.00	INR Zero Only
4.08	Supply, Installation, Testing, Commissioning and Configuration of LC Pigtails Fibre 9um (OS1/2) SM - 1.5m (Approved Make -Molex/Systimax/Panduit)	989.00	Nos.			0.00	0.00	0.00	INR Zero Only
4.09	Supply, Installation, Testing, Commissioning and Configuration of LC-LC Patch Cord, (OS1/2) SM, LS0H - 3m (Approved Make -Molex/Systimax/Panduit)	330.00	Nos.			0.00	0.00	0.00	INR Zero Only



Sl. No.	Item Description	Estimated Quantity (Approx.)	Units (Per No)	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST (If applicable in Percentage)	GST Amount in Rs. P	TOTAL AMOUNT excluding taxes in Rs. P	TOTAL AMOUNT including taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	7	8	9	11	12	13
4.1	Supply, Installation, Testing, Commissioning and Configuration of 32mm HDPE & GI Pipe and accessories (Approved Make - Supreme /Prince / Finolex)	2500.00	Mtrs			0.00	0.000	0.000	INR Zero Only
4.11	Supply, Installation, Testing, Commissioning and Configuration of 25mm HDPE & GI Pipe and accessories (Approved Make - Supreme /Prince / Finolex)	6770.00	Mtrs			0.00	0.000	0.000	INR Zero Only
4.12	Supply, Installation, Testing, Commissioning and Configuration of 3 Core Copper Armoured cable, 2.5 sq mm (Approved Make - FINOLEX / HAVELLS / POLYCAB)	2948.00	Mtrs			0.00	0.000	0.000	INR Zero Only
4.13	Supply, Installation, Testing, Commissioning and Configuration of 8 Module Face Plate - 3 x 6/16 Amp Socket + 1 Nos 16 Amp Switch + 1 Dummy (Approved Make - Havells / Anchor / Legrand)	8.00	Nos.			0.00	0.000	0.000	INR Zero Only
4.14	Supply, Installation, Testing, Commissioning and Configuration of 8 Module PVC Surface Box for Above Face Plate (Approved Make - Havells / Anchor / Legrand)	8.00	Nos.			0.00	0.000	0.000	INR Zero Only
5.00	NETWORK RACKS & ACCESSORIES								
5.01	Supply, Installation, Testing, Commissioning and Configuration of 9U/550x600 Wallmount Rack with All Accessories (Approved Make - Netrack/Vairack/WQ)	59.00	Nos.			0.00	0.000	0.000	INR Zero Only
5.02	Supply, Installation, Testing, Commissioning and Configuration of 9U Wall Mount Out Door RACK: 9U/600x600 Rack/WMOD/Metal Door/IP56 (Approved Make - Netrack/Vairack/WQ)	9.00	Nos.			0.00	0.000	0.000	INR Zero Only
5.03	Supply, Installation, Testing, Commissioning and Configuration of 12U/550x600 Wallmount Rack with All Accessories (Approved Make - Netrack/Vairack/WQ)	17.00	Nos.			0.00	0.000	0.000	INR Zero Only
5.04	Supply, Installation, Testing, Commissioning and Configuration of 15U Wall Mount RACK with All Accessories: 15U/550x600 Rack/Welded/WM (Approved Make - Netrack/Vairack/WQ)	9.00	Nos.			0.00	0.000	0.000	INR Zero Only
5.05	Supply, Installation, Testing, Commissioning and Configuration of 22U 600x600 Floor Mount RACK: 22URack Frame/600x600/Steel/FM/Casters Type 2 (Approved Make - Netrack/Vairack/WQ)	1.00	Nos.			0.00	0.000	0.000	INR Zero Only
5.06	Supply, Installation, Testing, Commissioning and Configuration of 42U 800x1000 Floor Mount Network Rack with All Accessories (Approved Make - Netrack/Vairack/WQ)	1.00	Nos.			0.00	0.000	0.000	INR Zero Only
Total in Figures									INR Zero Only
Quoted Rate in Words									INR Zero Only

Signature