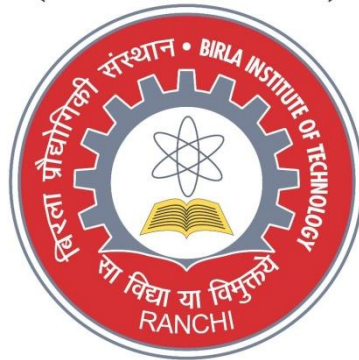**TENDER**

FOR

Supply and Installation of

Wireless Access Point , Wireless Controller, Cisco Managed POE Switch & Cat6 A Ethernet Cable
in

BIT MESRA, Ranchi

Tender No.: IC/000077

Tender date: 13 JUNE 2024

Last Date of submission: 27 JUNE 2024

Office of the Registrar

Birla Institute of Technology, Mesra

Birla Institute of Technology, Mesra, Ranchi invites tender for the **Supply and Installation of**

Wireless Access Point , Wireless Controller, Cisco Managed POE Switch & Cat6A Ethernet Cable
, as per specifications given in the Annexure attached to the Tender.

Tender Reference No.	**IC/000077**
Last Date and Time for receipt of Tender	27 JUNE 2024 at 1500 Hrs
Address for Communication	As Stated below in the Instructions to the bidders.
Contact Telephone Numbers (For Technical specification/clarification)	**pic-ictc@bitmesra.ac.in**
For technical Details Contact	Dr. Abhijit Mustafi Mobile No.9431382747
EMD Cost (in the form of DD) in favour of " Birla Institute of Technology" payable at Ranchi	Rs.2,50,000 /-

<u>INSTRUCTIONS TO BIDDERS</u>

All interested vendors are requested to send their sealed quotation for the supply of the above item under two bid systems in the following manner:

   a) Envelope – I: Technical Bid.
   b) Envelope – II: Financial Bid.

NOTE: The bid documents are not transferable, and the firm's seal and signature of the authorized official must appear on all papers and envelopes submitted.
Both the envelops should be sealed, signed, marked and kept in a bigger envelop superscribed with the Tender Reference No. and Tender notice detail as appended hereunder.

TENDER FOR Supply and Installation of
Wireless Access Point , Wireless Controller, Cisco Managed POE Switch & Cat6 A Ethernet Cable
TENDER REF. NO: IC/000077, DATE: 13 JUNE 2024
LAST DATE FOR SUBMISSION: 27 JUNE 2024 Till 1500 Hrs.

To,
Dy. Registrar (Purchase & MM)
Birla Institute of Technology, Mesra
Ranchi - 835215.

From: M/s -------------------------
Contact No: ----------------------
E-mail ID: ------------------------

The EMD of the unsuccessful bidder's will be refunded only after the finalization of the tendering process. No interest will be payable on the earnest money. If any bidder withdraws his bid at any point of time during the tendering process, the EMD of the bidder concerned will stand forfeited. BIT Mesra reserves the right to cancel the tender at any time/ stage or relax/amend/withdraw any of the terms and conditions contained in the Tender Document without assigning any reason thereof. Any inquiry after submission of the bid shall not be entertained. Before submission of the bid, enquiry can be made over through email at dr.purchase@bitmesra.ac.in. In case of withdrawal of bids, the EMD of the bidder concerned will stand forfeited.

Sr. No.	Criteria	Comply (Yes/No)	Page number in support of compliance. Deviations (if any) should be mentioned clearly, and details thereof should be indicated.
1.	The supplier must have sold at least 1 such **Supply and Installation of Wireless Access Point , Wireless Controller, Cisco Managed POE Switch & Cat6A Ethernet Cable** within India in the last 5 (five) years. The supplier should provide a list of installations in India with all contact details and model details so that BIT Mesra can approach the contact person for any feedback.		
2.	Specification claimed must be supported by printed literature of the company.		
3.	The supplier of the instrument must confirm in writing that the spares for the entire instrument will be available for a period of at least ten years after the model of equipment supplied has been phased out. For frequently required spares, there should be adequate inventory with the Indian agency.		
4.	Supplier must have proven capability and trained expert manpower to troubleshoot equipment both in the hardware and application part.		
5.	Bidders shall invariably furnish documentary evidence (client's certificate) in support of the satisfactory operation of the equipment.		
6.	Suitable and essential tool kit is to be supplied with the equipment for the required maintenance.		
7.	Any accessories that must be needed for operation of the equipment, but not mentioned in this specification shall also be quoted by the vendor.		
8.	The instrument should be installed and commissioned at site. Site requirement must be mentioned by the supplier. Complete technical details of pre-installation requirements should be furnished along with the technical bid. Birla Institute of Technology, Mesra will only provide the installation room, air-conditioning units and required electrical outlets. Vendors are expected to supply all other installation accessories, infrastructures, facilities and services required for successful installation and smooth operation of the equipment. Vendors may conduct the site survey before installation at no additional cost		

9.	If in any case, shifting of the instrument is required in the future, the vendor needs to shift the instrument being offered after installation. It should be the free cost for the dismounting, packing, unpacking, re-installation and commissioning of the system with test running of the systems. Damage during the shifting if any of the machines must be the liability of the vendor.		
10.	The annual turnover of the company must have a minimum of 3 Crore.		
11.	**Tender Specific Manufacturer authorization form from OEM**		

Terms & conditions

1. **Representation:** Indian agent can represent different suppliers if the agent is duly authorized by the Principal Company.
2. **Instructions to the OEM:** Either the Indian Agent on behalf of the Principal/OEM or Principal/OEM can bid but both cannot bid simultaneously for the same item/product in the same tender.
3. **Single Order:** A single order will be processed for entire configuration.
4. **Support:** The supplier of the instrument must confirm after warranty the bidder must provide the necessary after sales support for smooth operation of the system for 5year or more.
5. **Delivery date etc.:** Time taken for delivery, installation and commissioning should be separately specified.
6. **Bid Submission:** The bids can be sent to us by Hand/ Speed post/ Courier so as to reach the marked address by due date and time. Late bids will not be accepted. The price bids of only those firms will only be opened who are found to be technically qualified after evaluation. The Institute reserves the right to cancel/reject any or all bids without assigning any reason thereof.
7. **Bid document:** The vendor should read the Tender documents carefully before quoting. It shall be deemed that the vendor has gone through the documents carefully and has understood its implication. Any lack of information shall not relieve the bidder of its responsibility to fulfill its obligations under the Bid.
8. **Price:** Prices quoted should be on F.O.R., BIT Mesra, Ranchi on **Door Delivery** basis.
9. **Technical bid:** The technical bid should accompany full technical literature, pamphlets, leaflets of the technical features of the offered equipment must be submitted for proper evaluation.
10. **Dealers:** Dealership certificate/ authorization certificate from OEM if the bidder is a dealer.
11. **Similar Installation**: A complete list of Institutes' / Organizations' lists wherein the installation has been done and a Performance certificate along with such list where this installation has been done in the past three years.
12. **Validity of Quotation:** Quotations should be valid for at least 90 days.
13. **Declaration**: The bidder should attach a self-declaration stating that he is not debarred/ blacklisted or banned from any University/ Central Government / PSU / State Govt of India / any other Govt. agencies or any Institute of National / International importance.
14. **GST etc.**: Copy of up-to-date GST clearance certificate & sales tax registration certificate indicating also the GSTIN number of the Firm will have to accompany the quotations. Copy of PAN must be submitted of Firm / Company along with the Technical Bid.
15. **Bank Details**: Banker's details of quoting Firm/ Vendor should be clearly mentioned as attached
16. **Performance security:** The supplier shall furnish a Performance Security after installation of the material for an amount of 10% (Ten percent) of the Purchase order value, valid upto 60 days after the date of completion of performance obligations including warranty obligations. This Performance Bank guarantee should be issued from any Nationalized Bank and validity of the same will be till **warranty period +60 days** from the date of installation of the material. The claim of the same can be done by email, email id of the bank for correspondence shall be mentioned. The

claim period of Performance Bank Guarantee shall be one year after expiry of Performance Bank Guarantee.

17. **Delivery:** Unless otherwise stated, delivery of goods at BIT, Mesra, will have to be executed within Eight (8) weeks from the date of issue of the Purchase Order. All aspects of safe delivery shall be the exclusive responsibility of the OEM / Bidder.

18. **Bid Currencies:** The quoted price should be in Indian Rupees for offers received for suppliers within India and in freely convertible foreign currency in case of offers received for supply from foreign countries.

19. **Foreign bidders:** In case a bidder not doing business within India, it shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period, without which their offers are liable to be ignored.

20. **Conditional tenders:** Conditional tenders shall not be accepted.

21. **Late and delayed Tenders**: Late and delayed tender will not be considered. In case any unscheduled holiday occurs on prescribed closing/opening date the next working day shall be the prescribed date of closing/opening.

22. **Rejection of Tender:** The tenders are liable to be rejected if the conditions mentioned in the tender documents are not complied with. The tender should be complete in all respects and duly signed wherever required. Incomplete and unsigned offer will not be accepted.

23. **Liquidated Damage:** If a firm accepts an order and fails to execute the order in full as per the terms and conditions stipulated therein, it will be open to this Institute to recover liquidated damages from the firm at the rate of 0.5% to 1% per week of the order value subject to a maximum of 10% of the order value. It will also be open to this Institute alternatively, to arrange procurement of the required stores from any other source at the risk and expense of the firm, which accepted the order but failed to execute the order according to stipulated agreed upon.

24. **Payment Terms: -** 100% payment will be released after receiving of stores in good orde**r** and condition and successful installation and commissioning duly certified by the concern authority.

25. **Termination for default:** Default is said to have occurred: -

(a) If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by BIT, Mesra.

(b) If the supplier fails to perform any other obligation(s) stated in the Purchase Order.

(c) If the vendor, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from BIT Mesra (or takes longer period in-spite of what BIT Mesra may authorize in writing). BIT Mesra may terminate the contract / purchase order in completely or in part. In addition to above, BIT Mesra may at its discretion also take the following actions: BIT Mesra may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate BIT Mesra for any extra expenditure involved towards goods and services to complete the scope of.

26. **Acceptance and rejection of bids:** The Institute may accept or reject any or all the bids in part of in full without assigning any reason and doesn't bind himself to accept the lower bid, without thereby incurring any liability to the affected Bidder or bidders. The institute at its discretion may change the quantity / upgrade the criteria / drop any item or thereof at any time before placing the Purchase Order.

27. **Manual:** One set of operating manual and service manual including detailed drawings and circuit diagrams (in English) should be provided with the instrument

28. **Blacklisting of Supplier: Furnishing of wrong/ambiguous information in the compliance statement may lead to rejection of bid and further black listing of the bidder, if prima-facie**

it appears that the information in the compliance statement was given with a malafied/ fraudulent intent.

29. **Delivery at Kolkata Airport/ Seaport only:** Since our SFIS bond is valid in Kolkata Airport/ Seaport only delivery is to be made through Kolkata Airport/ Seaport.

30. **No part Shipment:** While transshipment will be allowed, part shipment will not be allowed.

31. **Clarification of Bids:** Clarifications may be sought by the Evaluation committee of the Institute during the Process of Technical Evaluation. The request for clarification and the response shall be in writing. There shall be no change in prices, or the substance of the bid shall be sought, offered or permitted. The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

32. **Waivers:** The Institute may waive off any minor informality non-conformity or irregularity in a bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Bidder.

33. **Bid responsiveness:** A responsive bid is one in which the bid is substantively responsible i.e. the bid which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security, Warranty, Force Majeure, Limitation of liability, Applicable law, and Taxes & Duties will be deemed to be a material deviation. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

34. **No Canvassing:** Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

35. **Rejection of Bid**: If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

36. **Patent Rights:** The Supplier shall indemnify the Institute against all third-party claims of trademark, industrial design right or infringement of Patent arising from the use of Goods or any part thereof in India.

37. **Insurance:** For delivery of goods at site, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes**.**

38. **Packaging:** The packaging should be such to prevent their damage, rough handling during transit and exposure to extreme temperatures etc or deterioration during transit to the final destination as indicated in the Purchase order. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

39. **Tax liabilities:** Suppliers shall be entirely responsible for all duties, taxes, license fees, octroi, road permits, etc., incurred until delivery of the Goods to the Purchaser as per the Purchase order.

40. **Termination for Insolvency**: The Purchaser may at any time terminate the P.O by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

41. **Jurisdiction :** Any suit, action, or other proceedings arising out of this tender or the subject matter hereof shall be subject to the exclusive jurisdiction of courts of Ranchi.

Registrar

Price bid

1. **Bid Price:** The Bid Price should be enclosed in a sealed envelope and properly marked. The Bidder shall indicate on the appropriate price bid, the unit prices and total bid prices of the goods it proposes to supply under the contract.
2. **Bid Currencies:** Prices should be quoted in Indian Rupees for offers received for supply within India and in freely convertible foreign currency for offers received for supply from foreign country.
3. **Vendor should mention of packing, forwarding, freight, insurance charges, taxes etc. such offer shall be rejected as incomplete.**
4. The price quoted shall remain fixed during the contract period and shall not vary on any account.
5. All lots and items must be listed and priced separately in the Price bid. If a Price bid shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Lots or items not listed in the Price bid shall be assumed to be not included in the bid.
6. **Customs Duty:** The Institute is exempted from payment of Customs Duty Vide GOI Notification No. 51/96 Customs, dated 23.07.1996 & No.24/2007-Customs dated 01.03.2007 with registration no 11/161/1990-TU-V dated 23.03.2022.
7. **Arithmetical errors:** The arithmetical errors will be rectified as follows. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the figures and words. The amount in words will prevail. If the supplier does not accept the correction of errors, its bid will be rejected.
8. Prices indicated on the price-bid should be mentioned in the following manner:

For Goods manufactured within India
i)   The price of the goods should be quoted Ex –works.
ii) GST and other taxes etc. which will be payable on the goods if the contract is awarded. The details should be mentioned separately.
iii) The charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination as specified in the price bid.
iv) The installation, commissioning and training charges including any incidental services, (if any) should be clearly mentioned.

For Imported Goods:
i)   The price of the goods, quoted on FCA (named place of delivery abroad) or FOB (named port of shipment), as specified in the price schedule form.
ii) The charges for insurance and transportation of the goods to the port/place of destination.
iii) The agency commission charges, (if any).
iv) The installation, commissioning, and training charges including any incidental services, (if any).
v)   The terms FOB, FCA, CIF, CIP etc. shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce, Paris.
vi) **Delivery at Kolkata Airport/ Seaport only:** As we do not have a clearing agent in any other Airport, delivery is to be made only at Kolkata.

Registrar

Proforma for Performance Statement (last three years)

Sr. No	Name of the Buyer (With full address)	Order No. and date	Full description of the Item and value	PO Value	Delivery Details		Delay reason (if any)	Attach satisfactory performance certificate (from the buyer)	Contact Persons Details and contact No.
					As per P.O	Supply date			

Technical specification for Supply and Installation of

Wireless Access Point , Wireless Controller, Cisco Managed POE Switch & Cat6A Ethernet Cable at BIT Mesra Campus

Srl.no.	Item Description	Specification/ Model No. & Manufacture	Quantity
1	Wireless Access Point	In Wall Wireless AP 3000 Mbps. In-Wall Access Point 3000 Mbps Dual Band In-Wall Mount Wireless AP With a Fast data rate, WI-FI 6 (802.11ax) (5.0GHz speed is 2.4Gbps and in 2.4GHz is 574Mbps) and dual band allowing content to download faster, large video or music files to sync more quickly and stream seamlessly, Integrated IEEE802.3af standard Power over Ethernet (PoE) Build in Smart Channel Analysis Tool, help to select the less Wi-Fi Interference channels, ensure the stability wireless signal. Work with WLAN controller and PoE switch, plug and play, then allow the administrator to manage it in centrally and remotely. Interface:1*10/100/1000Mbps WAN/LAN port POE , 1 * 10/100/1000Mbps LAN ports PowerSupply:48VPoE, IEEE802.3af standard Maximum power consumption: < 14W Chipset/CPU : MT7981B+MT7976CN+RTL8211F , FLASH: 128MB NAND , RAM:256MB DDR3 or Higher WirelessStandards:IEEE802.11ax/ac/n/a 5GHz; IEEE 802.11n/g/b 2.4GHz Frequency: 5GHz: 5.150GHz,5.850GHz; 2.4GHz: 2.4GHz-2.484GHz Wireless: Auto-Channel selection; Distance Control (802.1x Ack timeout); Multiple SSID : 4 SSID for 2.4G, 4 SSID for 5.8G ; BSSID Multiple Operation Modes : Gateway / AP WirelessSecurity:64/128-bit ,WPA/WPA2,WPA-PSK/ WPA2-PSK / WPA3-TKIP-AES encryption LED status : SYS RF Power 2.4G ? 22dBm; 5.8G ? 19dBm Antenna Type : Internal 2.4GHz :2x1.9dbi / 5GHz 2x 2.7dBi Size : 86mm X 86mm X 38mm VLAN SSID Mapping System log Support MU-MIMO, Wave2.0, OFDMA and Seamless Roaming. Support 1024 QAM Supports BSS color bit and dynamic CCA-SD (Clear Channel Assessment Signal Detection) threshold and power adjustment, effectively alleviates the channel interference in multi-users scenarios, improves the utilization of spectrum resources.	750 Nos.

		TWT (Target Wake-up Time) allows devices to negotiate when need to wake up, send and receive data. Meet with demand of high-speed applications such as VR/ AR, 4K or 8K stream media. Support seamless roaming, 802.11kvr standard Support hardware watchdog function, automatic recovery of abnormal devices. ESD Air : ± 8K , Touch : ± 6K , Electrical Surge Common Mode : 1K, Differential Mode : 0.5K The heat sink is treated with a special surface coating, resulting in a more ideal heat dissipation effect maintenance free. Product Warranty should be 7 Years from the date delivery. OEM should have its own service Centre at Ranchi. OEM should have its own technical support team in the Eastern Region. OEM should be ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certified and certificate must attach along with bid. Product preferable Make in India and OEM should have own manufacturing facility in India. The OEM of Indian origin is preferred. Factory License must attach along with Technical Bid. Also support/compatible with Cisco device for power supply and configuration. Tender specific MAF is mandatory.	
2	**Wireless Controller**	Wireless Controller WLAN Controller Architecture The wireless controller shall have Six RJ-45 auto-sensing 10/100/1000 ports ((IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T) The wireless controller should one fixed WAN ports & three convertible ports for load balancing Two fixed LAN ports & three convertible ports The device should have 1 console port (RJ-45/DB9) The device should support 1 USB for Keyboard / Mouse Shall support IEEE 802.11b/g/n/ac Access Points for centralized management and control. The device should support DMZ function for server hosting applications. Shall support up to 3000 AP's and 3000 Users from DAY 1 . APs and controller should be of same OEM. The wireless controller shall be 2U 19" Rack-Mountable (the rack mounting kit shall be included) Chipset : 6 x Intel®I211AT/I210AT . Flash DDR42133/2400 , Flash size Default: 4G, Max 32GB. WLAN Controller Mobility Features Shall support fast roaming providing service transparency and fast hand-offs across Access Points within and across subnet boundaries. Shall support QoS and security services which follow users as they roam. Shall have full-service capabilities for wireless networks controlled across the WAN.	1 Nos.

		Shall support central configuration of virtual service communities (or SSIDs) QoS, authentication, encryption, and VLANs. The proposed WLAN Architecture shall support distributed traffic forwarding allowing traffic to flow directly from source to destination, eliminating needless traffic to pass through the controller, delivering better performance and faster, more- responsive applications. Shall support distributed 802.1x authentication allowing controlled access points to directly authenticate users through an external RADIUS server without controller involvement. Shall support WAN failover over multiple WAN connection. Shall support Port forwarding for hosting virtual server. Shall support VPN or PPTP/L2TP Shall support basic L3 routing features such as Static Routing Shall support separate internal DHCP server can be configured for each LAN port to provide IP address to DHCP client devices Multiple DHCP server for Each Port WLAN Controller Security Features Shall support authentication based on user credentials (802.1X/EAP), hardware identifiers (MAC address, WEP key), and HTML login Shall support authentication and authorization through external RADIUS AAA services Shall support built-in stateful firewall for secure connection to Internet Shall support secure management interfaces, including access through CLI/Web Shall support Access Control Lists based on IP address, protocol types and port filtering and URL filtering Shall support VLAN mapping of guest access traffic for secure passage through corporate network Shall have Captive portal for guest user authentication , MAC Authentication , PPPoE Authentication , Web Authentication for users Ethernet Superimposed and multiple ISP network access to avoid bandwidth overload, then support Ethernet backup to recover the dropped networking line, ensure the whole networking smoothly; It support policy-based routing function also, administrator will set the network based onIP/ MAC/ Domain/ Interface policies. IP shunting and session shunting, process diversion and other shunting rules like time, port, routing table, application and shunting weight, to meet with different application request. display or promote advertisement to user and bring extra value for merchant; Then it can work with the 3-party radius server for advertisement and billing functions WAN Port VLAN, VPN dial up, DNS Proxy, IP address translation, user behaviours management, make it more professional in Enterprise	

		Administrator can set different template for different model, like SSID, password, mode, channel, RF power, coverage threshold	
		Support onsite Warranty for Hardware and Online support for Configuration	
		Should have Service Centre within State of Installation site	
		Network Authentication : WPA2/WPA3-PSK and WPA2/WPA3-Enterprise	
		Encryption Algorithm : AES as per IEEE 802.11 i requirements	
		AAA (authentication, authorization and accounting) : AAA using RADIUS integration with external client	
		WLAN Controller Management & Other Features	
		Shall control a network of 3000 Access points ensuring consistent security, QoS, and roaming services from AP to AP	
		Shall have scalability consistent in 802.11 a/b/g and 802.11n networks	
		Shall support auto AP discovery, monitoring and configuration through CAP/WAP protocol	
		Shall support central management of wireless access point operating modes	
		Shall support plug-and-play auto-discovery and software installation for easy access point deployment	
		Shall have easy-to-use web-based administrator interface	
		Shall support accurate seamless integration with wired network, leveraging existing L2/L3 infrastructure resources, e.g., QoS, VLANs, and External RADIUS AAA	
		Shall support RADIUS activity statistics collection per-user for billing by data volume and elapsed session time	
		AC can dynamically adjust uniform distribution of users among different AP using Policy Rules	
		Operating temperature up to 50°C	
		Product Warranty should be 7 Years.	
		OEM should have its own service centre at Ranchi. OEM should have own technical support team in eastern Region.	
		OEM should be ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certified.	
		Product preferred Make in India and OEM should have own manufacturing facility in India. The OEM of Indian origin is preferred.	
		Tender specific MAF is mandatory.	
3	**Cisco Managed POE Switch**	POE Switch Catalyst 9200L 24-port PoE+, Switch / PoE Power Budget W = 370, 4 x 1G, Network Essentials (Part No.C9200L-24P-4G-E), SNTC-8X5XNBD Catalyst 9200L 24-port PoE+, 4 x 1G, Net (Part No. CON-SNT-C920L24G) (60Months) C9200L Cisco DNA Essentials, 24-port Term license (Part no. C9200L-DNA-E-24)	40 Nos.

		C9200L Cisco DNA Essentials, 24-port, 3 Year Term license,36Months (Part No. C9200L-DNA-E-24-3Y) C9200L Network Essentials, 24-port license (Part No. C9200L-NW-E-24) India AC Type A Power Cable (CAB-TA-IN) Config 5 Power Supply Blank (Part No. PWR-C5-BLANK) Catalyst 9200 Blank Stack Module (Part No. C9200-STACK-BLANK) RUBBER FEET FOR TABLETOP SETUP 9200 and 9300 (Part No. C9K-ACC-RBFT) 12-24 and 10-32 SCREWS FOR RACK INSTALLATION, QTY 4 (Part No. C9K-ACC-SCR-4) 1RU CABLE MANAGEMENT GUIDES 9200 and 9300 (Part No. CAB-GUIDE-1RU) Network Plug-n-Play Connect for zero-touch device deployment (Part No. NETWORK-PNP-LIC) Tender specific MAF is mandatory.	
4	**CAT6A Ethernet Cable**	CAT6A PATCH CORD 1 MTR. Make: D-Link/Digisol 1 Mtrs . length	750 Nos.
5	**Installation & Commissioning**	INSTALLATION & COMMISSIONING Installation and Commissioning of above items (Wall in AP, Wireless Controller & Patch cord, POE Switches, if any work required for smooth functioning of above items like RJ45 etc.)	1 Set

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