

NAME OF THE PARTY:

LIMITED TENDER

Preamble Of Tender:-Electronics Corporation of Tamil Nadu Limited (ELCOT), a wholly owned Government of Tamil Nadu Undertaking is the Optional Procurement Agency of the Government of Tamil Nadu for procurement of IT related products like Computers, Printers, Other Peripherals and Software as per G.O. Ms. No. 58, Finance (BPE) Department, Dated 16.02.1999. Accordingly, ELCOT has been procuring various IT related products to all the State Government Departments / Boards / Autonomous Bodies etc. As part of the Procurement activities, ELCOT float this tender inviting bid for the Supply, Installation and commissioning of LAN Cabling work for Internet connection to various Government Departments.

Short Title used in the Tender Document:

1. Bidder: Bidder means the party who makes a formal offer in pursuance of the tender floated.
2. Successful Bidder: Successful Bidder means the Bidder who becomes Successful through the tender process.
3. Day: A day means a Calendar Day.
4. Purchaser: Purchaser means the end user for whom the procurement is indented through the tender.

Tender Schedule:

a)	Tender No.	ELCOT/PROC/LT/33817/LAN/2024-25
b)	Type of Tender	LIMITED TENDER – Single part bid
c)	Tendered Items	Supply, installation and commissioning of LAN Cabling work for Internet connection to various Government Departments
d)	Delivery	Various Government Department
e)	Due Date & Time for Submission of Tenders	12.09.2024 @ 3.00 PM.
f)	Opening Date & Time	12.09.2024 @ 4.00 PM.

EMD: The EMD Amount of Rs.20,000/- (Rupees Twenty Thousand Only) along with bid should be submitted through a Demand draft drawn in favor of “Electronics Corporation of Tamil Nadu Limited”, Chennai. (OR) through NEFT/RTGS to the Following Bank Account, (or) EMD is waived off for the bidder having valid MSME/NSIC/SSI for the relevant category.

Name of the Bank & Branch	State Bank of India, Saidapet
SBI A/c No.	10610747091
IFS Code	SBIN0000912
MICR No.	600002045

MODE OF DESPATCH: Tenders should be addressed to the MANAGING DIRECTOR – ELCOT (by Designation only) and superscribed with the tender number and sent in sealed cover either by Registered post with acknowledgment due or in person. Tenders received in ordinary cover without a seal will not be considered. Bids received after the due date and Time will not be accepted. Delays in postal transit will not be accepted as a valid reason for late submission. The Tender Document is not transferable to any other bidder.

IMPORTANT NOTE: TENDERER MUST SUBMIT THIS ORIGINAL TENDER DOCUMENT WITH THEIR SIGNATURE, AND SEAL WITHOUT MISSING ANY OF THE PAGES. Price bid must be submitted in the bidder’s company letter head.

The tenders received on SPECIFIED DUE DATE & TIME will be opened at ELCOT, 692, Anna Salai, Nandanam, Chennai – 600 035 in the presence of the bidders who choose to be present. If sufficient response is not received on the due date of opening, ELCOT reserves its right to extend the due date for submission of tenders inviting more bids or cancel the tender.

Items tendered:

Sl. No.	Product Code	Description
1.	33817-01	4U Wall Mount Rack
2.	33817-02	6U Wall Mount Rack

3.	33817-03	9U Wall Mount Rack
4.	33817-04	Power Strip 3 Pin 5A & 4 Socket with surge Protector
5.	33817-05	Power Strip 3 Pin 5A & 6 Socket
6.	33817-06	Power Strip 3 Pin 5A & 4 Socket with surge Protector and MCB
7.	33817-07	Power Strip 6 Pin 5/15A & 12 Socket with surge Protector
8.	33817-08	90Cfm Fans, 115~240V AC Fan for Above racks
9.	33817-09	1U Cable Manager
10.	33817-10	CAT 6 cable 4 pair UTP Cable
11.	33817-11	CAT 6 cable 4 pair SFTP Cable
12.	33817-12	CAT6A cable 4 pair UTP Cable
13.	33817-13	Cat 6 - 24 Port fully loaded Shuttered Patch Panel with built-in rear cable Manager, EIA/TIA-568-C verified
14.	33817-14	Cat 6A - 24 Port fully loaded shuttered Patch Panel with built-in rear cable Manager, EIA/TIA-568-C complied
15.	33817-15	Cat6 key stone I/O, EIA/TIA-568-C Certified
16.	33817-16	Cat6A key stone I/O, EIA/TIA-568-C complied
17.	33817-17	Shuttered Flush mount Face plate Single socket
18.	33817-18	Shuttered Flush mount Face plate Dual socket
19.	33817-19	Back Box for Face plate
20.	33817-20	CAT 6 UTP stranded copper wire, EIA/TIA-568-C Certified 1M Factory Crimped Patch cord
21.	33817-21	CAT 6 UTP stranded copper wire, EIA/TIA-568-C Certified 2M Factory Crimped Patch cord
22.	33817-22	CAT 6 UTP stranded copper wire, EIA/TIA-568-C Certified 3M Factory Crimped Patch cord
23.	33817-23	CAT 6A UTP stranded copper wire, 1M Factory Crimped Patch cord
24.	33817-24	CAT 6A UTP stranded copper wire, 2M Factory Crimped Patch cord
25.	33817-25	CAT 6A UTP stranded copper wire, 3M Factory Crimped Patch cord
26.	33817-26	1" PVC/Conduit charges per mtr
27.	33817-27	50X100mm PVC Duct charges per mtr
28.	33817-28	Cable laying charges per mtr
29.	33817-29	L2 Managed 8 ports POE switch
30.	33817-30	L2 Managed 24 ports switch
31.	33817-31	L2 Managed 24 ports POE switch
32.	33817-32	Enterprise Wi-Fi 6 Wireless wall / ceiling mount access Point 1800 Mbps Throughput
33.	33817-33	Enterprise Wi-Fi 6 Wireless Ceiling mount access Point 2400 Mbps Throughput

34.	33817-34	Enterprise Outdoor Dual Band Wireless acces Point 2400 Mbps Throughput
35.	33817-35	Enterprise Wireless Controller
36.	33817-36	RJ-45 Computer Socket CAT 6 Make: Anchor.
37.	33817-37	Popup Box with HDMI connector, VGA Connector, Audio connector, LAN Port, Power Ports & USB Port.
38.	33817-38	Floor standing 22U Steel Enclosure Rack

1) LAN Cabling Work to be carried out: Immediately based on the email confirmation from ELCOT.

2) Delivery and Installation: Within 28 days from the date of issue of purchase order at the respective purchaser locations.

3) Price Bid Evaluation:

The total value including all taxes, duties and other charges for all the items will be taken up for Price Bid evaluation. The Bidders who quote L1 Price for the total value of items will be called as L1 Bidder. However, the L1 Bidder has to match the L1 Prices of line items in case they have not become L1 for these line items.

4) Validity of the Tender: One year or Rs.24,50,000/- whichever is earlier.

5) Payment Terms: 100% of the total cost of ordered items will be paid by ELCOT on behalf of the purchaser, after receipt of funds from the purchaser, on delivery on proof of delivery of the ordered items.

6) Liquidated Damages for Non-Fulfillment of Purchase Order:0.25% PER Day on the undelivered portion of the value subject to a maximum of 5%, if the supply, installation and commissioning has not been completed in full within the stipulated delivery period.

7) Penalty for Non-Fulfillment of conditions:

In the event of non-fulfillment or non-observance of any of the conditions stipulated in the tender document and Purchase order, the successful bidder should pay the penalty amount equivalent to 10 (ten) per cent of total value of purchase order or an amount equal to the actual loss incurred by the purchaser whichever is higher.

8) GFR Compliance:

The Bidder shall comply with the GFR with respect to procurement from country which shares a land border with India as per GFR Rules.

SPECIFICATIONS

1. 4U Wall Mount Rack			
Make : Model:			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Height & Dimension	Height 4U, Width 550 and Depth 450mm	
2	Material Thickness	0.8mm or better	
3	Loading capacity	25KG \pm 10% or better Loading capacity	
4	Front Door	4mm toughened Glass door with Lock and Key	
5	General	Rubber Closure for cable entry holes	
		19"Adjustable rails in the front and rear, Top and bottom cable entry facility	
		Hardware Screw pocket	

2. 6U Wall Mount Rack			
Make : Model:			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Height & Dimension	Height 6U, Width 550 and Depth 500mm	
2	Material Thickness	0.8mm or better	
3	Loading capacity	30KG \pm 10% or better Loading capacity	
4	Front Door	4mm toughened Glass door with Lock and Key	
5	General	Rubber Closure for cable entry holes	
		19"Adjustable rails in the front and rear, Top and bottom cable entry facility	
		Hardware Screw pocket	

3. 9U Wall Mount Rack			
Make : Model:			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Height & Dimension	Height 9U, Width 550 and Depth 550mm	
2	Material Thickness	0.8mm or better	
3	Loading capacity	35KG \pm 10% or better Loading capacity	
4	Front Door	4mm toughened Glass door with Lock and Key	
5	General	Rubber Closure for cable entry holes 19"Adjustable rails in the front and rear, Top and bottom cable entry facility Hardware Screw pocket	
		Height 9U, Width 550 and Depth 550mm	
		0.8mm or better	

10. CAT 6 cable 4 pair UTP Cable			
Make and Model :			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Standard Length	305 Meters (1000 Feet) Per Box package	
2	Cable Type	4 twisted pairs separated by internal X shaped, 4 channel, polymer spine / full separator. Half separator shall not be accepted. Support for Fast and Gigabit Ethernet. Sequential meter marking shall be done in the cable.	
3	Conductor	Metal –Solid Bare copper	
4		Diameter- 23 AWG (0.57 mm +/- 0.2mm)	

11. CAT 6 cable 4 pair SFTP Cable			
Make and Model :			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Standard Length	305 Meters (1000 Feet) Per Box package	
2	Cable Type	4 Pair Shielded Foil Twisted Pair Cable, Support for Fast and Gigabit Ethernet, IEEE 802.3/5/12, Voice, ISDN, ATM 155 & 622Mbps. Sequential meter marking shall be done in the cable.	
3	Conductor	Metal –Solid Bare copper	
		Diameter- 23 AWG	

12. CAT6A cable 4 pair UTP Cable			
Make and Model : D-Link			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Standard Length	305 Meters (1000 Feet) Per Box package	
2	Type	Category 6A, Unshielded Twisted 4 Pair, Sequential meter marking shall be done in the cable.	
3	Conductor	Metal –Solid Bare copper Diameter-23 AWG	

29. L2 Managed 8 ports POE switch			
Make & Model :			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Ports	8 x 10/100/1000Base-T + 2 x 100/1000Base-X (SFP)	
2	Performance	Shall support 20 Gbps Switching Capacity and 14.88 mbps forwarding rate	

3	ACL &Vlan Table	Shall support minimum 750 ACL Table & 4K Vlan, 8K Mac Address	
4	Vlan	Port Based Vlan, Private Vlan, IEEE802.1Q, Protocol Based Vlan, Voice Vlan	
5	Multicast Functions	IGMP v1/v2 snooping, IGMP Fast Leave	
6	Security Features	Mac Based ACL, IP based ACL, MAC-IP ACL, User-Defined ACL, Time range ACL, VLAN ACL, Port Security, ARP Binding, AAA, IEEE 802.1x, TACACS+, Radius	
7	DHCP Management	IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Snooping, Option 82	
8	Spanning Tree	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard/Restriction, BPDU Forwarding, ITU-T G.8032, Loop back Detection	
9	Management Port	Must Have RJ45 Console Port (Out of Band)	
10	Operation Management	TFTP/FTP CLI, Telnet, Console, Web/SSL (IPv4/IPv6), SSH (IPv4/IPv6), SNMPv1/v2c/v3, Private MIB interface	
11	POE Protocols	IEEE 802.3af POE(15.4W) and IEEE 802.3at POE+ (30W) support on all ports	
12	POE Budget	120 Watts or better	
13	IPv6 Features	Support IPv4/v6 Dual stack	
14	Operating Temperature	Operating Temperature : 0 °C ~ 40 °C (32°F ~ 104°F)	
15	Certificate	CE or FCC, UL 60950 or IEC 60950 or IS 13252	

30. L2 Managed 24 ports switch			
Make & Model :			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Ports	24 x 10/100/1000Base-T Ports + 4 x 1G (SFP Slot)	
2	Performance	Shall support 56 Gbps Switch Capacity and 41.7 mbps forwarding rate	
3	ACL &Vlan Table	Shall support minimum 750 ACL Table & 4K Vlan, 8K Mac Address	
4	Vlan	Port Based Vlan, Private Vlan, IEEE802.1Q, Protocol Based Vlan, VoiceVlan	
5	Multicast Functions	IGMP v1/v2 snooping, IGMP Fast Leave	
6	Security Features	Mac Based ACL, IP based ACL, MAC-IP ACL, User-Defined ACL, Time range ACL, VLAN ACL, Port Security, ARP Binding, AAA, IEEE 802.1x, TACACS+, Radius	
7	DHCP Management	IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Snooping, Option 82	
8	Spanning Tree	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard/Restriction, BPDU Forwarding, ITU-T G.8032, Loop back Detection	
9	Management Port	Must Have RJ45 Console Port (Out of Band)	
10	Operation Management	TFTP/FTP CLI, Telnet, Console, Web/SSL (IPv4/IPv6), SSH (IPv4/IPv6), SNMPv1/v2c/v3, Private MIB interface	
11	IPv6 Features	Support IPv4/v6 Dual stack	
12	Operating Temperature	Operating Temperature : 0 °C ~ 40 °C (32°F ~ 104°F)	
13	Certificate	CE or FCC, UL 60950 or IEC 60950 or IS 13252	

31. L2 Managed 24 ports POE switch			
Make & Model :			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Ports	24 x 10/100/1000Base-T POE Ports + 4 x 1G (SFP Slot)	
2	Performance	Shall support 56Gbps Switch Capacity and 41.7 mbps forwarding rate	
3	ACL &Vlan Table	Shall support minimum 750 ACL Table & 4K Vlan, 8K Mac Address	
4	Vlan	Port Based Vlan, Private Vlan, IEEE802.1Q, Protocol Based Vlan, Voice Vlan	
5	Multicast Functions	IGMP v1/v2 snooping, IGMP Fast Leave	
6	Security Features	Mac Based ACL, IP based ACL, MAC-IP ACL, User-Defined ACL, Time range ACL, VLAN ACL, Port Security, ARP Binding, AAA, IEEE 802.1x, TACACS+, Radius	
7	DHCP Management	IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Snooping, Option 82	
8	Spanning Tree	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard/Restriction, BPDU Forwarding, ITU-T G.8032, Loop back Detection	
9	Management Port	Must Have RJ45 Console Port (Out of Band)	
10	Operation Management	TFTP/FTP CLI, Telnet, Console, Web/SSL (IPv4/IPv6), SSH (IPv4/IPv6), SNMPv1/v2c/v3, Private MIB interface	
11	POE Protocols	IEEE 802.3af POE(15.4W) and IEEE 802.3at POE+ (30W) support on all ports	
12	POE Budget	180 Watts or better	
13	IPv6 Features	Support IPv4/v6 Dual stack	
14	Operating Temperature	Operating Temperature : 0 °C ~ 40 °C (32°F ~ 104°F)	
15	Certificate	CE or FCC, UL 60950 or IEC 60950 or IS 13252	

32. Enterprise Wi-Fi 6 Wireless wall / ceiling mount access Point 1800 Mbps Throughput

Make & Model:

Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Network protocol	IEEE wireless LAN standards 802.11a/n, 802.11b/g/n, 802.11ac, 802.11ax shall be supported	
2	Interface	1 x 10/100/1000 Base-T Gigabit PoE Port 1 x Console Port	
3	Data Rate	5GHz radio: Dual spatial stream HE80 MIMO for up to 1.2Gbps wireless data rate or higher 2.4GHz radio: Dual spatial stream HE40/20 MIMO for up to 574Mbps wireless data rate or higher	
4	Wireless Technology	2x2 MU-MIMO with Dual spatial streams (2x2:2) or higher on both 2.4 GHz and 5GHz simultaneously Channel Width - 20,40,80 MHz AP should support seamless and fast roaming, Airtime Fairness, Bandsteering and DHCP Server	
5	Wi-Fi 6 Features required	Wi-Fi Enhanced Open WMM & Wi-Fi Agile Multiband WPA, WPA2, WPA3 Personal & Enterprise Down Link and Up-Link OFDMA Individual Target Wake Time WPA3 192-bit security MU-MIMO Cellular Data aware	
6	Wireless Antenna	AP shall support Built-in Omni-Directional Antennas Min 3 dBi or Higher gain antenna for 2.4 GHz and 5 GHz	
7	Operate Mode	Wireless AP & WDS / Bridge	
8	QOS	Should support WMM, QoS, Bandwidth Control and Traffic Priority	
9	Wireless SSID	AP should support a minimum of 16 or higher SSID.	
10	Power	AP should comply to PoE input standard 802.3af and 802.3at	
11	Wireless Management	AP Should support Management console port (RJ-45/Serial) for CLI, SNMP v1, v2, v3	

		AP should support SNMP based monitoring. Bidder shall provide MIB for NMS integration, if required Stand alone mode & Wireless Controller mode	
12	Wireless Network	It should support IPv6 ,Load Balancing & multicast and unicast	
13	IPv6 support	Should support IPv4 and IPv6 Dual stack.	
14	Wireless Security	AP should support authentication methods: 802.11i, WEP , WPA , WPA2, WPA3 & RADIUS,WPA-EAP using TKIP, PEAP authentication, MAC & IP ACL, User/Client Isolation 802.1x, captive portal	
15	Certificate	CE , FCC	

33. Enterprise Wi-Fi 6 Wireless Ceiling mount access Point 3000 Mbps Throughput

Make & Model:

Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Network protocol	IEEE wireless LAN standards 802.11a/n, 802.11b/g/n, 802.11ac, 802.11ax shall be supported	
2	Interface	1 x 10/100/1000/2500 Ethernet PoE Port 1 x Console Port	
3	Data Rate	5 GHz radio: Dual spatial stream HE160 MIMO for up to 2.4Gbps wireless data rate or higher 2.4 GHz radio: Dual spatial stream HE40/20 MIMO for up to 574 Mbps wireless data rate or higher	
4	Wireless Technology	2x2 MU-MIMO with Dual spatial streams (2x2:2) or higher on both 2.4GHz and 5GHz simultaneously Channel Width - 20,40,80 & 160 MHz AP should support seamless and fast roaming, Airtime Fairness, Bandsteering and DHCP Server	

5	Wi-Fi 6 Features Minimum	Wi-Fi Enhanced Open WMM & Wi-Fi Agile Multiband WPA, WPA2, WPA3 Personal & Enterprise Down Link and Up-Link OFDMA Individual Target Wake Time WPA3 192-bit security MU-MIMO Cellular Data aware	
6	Wireless Antenna	AP shall support Built-in Internal Omni-Directional Antennas Min 3 dBi or Higher gain antenna for 2.4 GHz and 5 GHz	
7	Operate Mode	Wireless AP & WDS / Bridge	
8	QOS	Should support WMM, QoS, Bandwidth Control and Traffic Priority	
9	Wireless SSID	AP should support a minimum of 16 or higher SSID.	
10	Power	AP should comply to PoE input standard 802.3af/802.3at	
11	Wireless Management	AP Should support Management console port (RJ-45/Serial) for CLI, SNMP v1, v2,v3 AP should support SNMP based monitoring. Bidder shall provide MIB for NMS integration, if required. Standalone mode & Wireless Controller mode	
12	Wireless Network	It should support IPv6 ,Load Balancing & multicast and unicast	
13	IPv6 support	Should support IPv4 and IPv6 Dual stack.	
14	Wireless	AP should support authentication methods: 802.11i, WEP, WPA , WPA2	
15	Security	AP should support authentication methods: 802.11i, WEP , WPA , WPA2, WPA3 & RADIUS,WPA-EAP using TKIP, PEAP authentication, MAC & IP ACL, User/Client Isolation 802.1x, captive portal	
16	Certificate	CE, FCC	

34. Enterprise Outdoor Dual Band Wireless access Point 2400 Mbps Throughput

Make & Model :

Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Network protocol	IEEE wireless LAN standards 802.11a/n, 802.11b/g/n, 802.11ac, 802.11ax shall be supported	
2	Maximum Transmit Power	Min 22 dBm or Higher for 2.4 GHz & 5 GHz	
3	Interface	1 x 10/100/1000/2500 Ethernet PoE Port 1 x Console Port	
4	Data Rate	5GHz radio: Dual spatial stream HE160 MIMO for up to 2.4 Gbps wireless data rate or higher 2.4GHz radio: Dual spatial stream HE40/20 MIMO for up to 574 Mbps wireless data rate or higher	
5	Discovery and Roaming	2x2 MU-MIMO with Dual spatial streams (2x2:2) or higher on both 2.4 GHz and 5 GHz simultaneously Channel Width – 20,40,80 & 160 MHz AP should support seamless and fast roaming, Airtime Fairness, Bandsteering and DHCP Server	
6	Wi-Fi 6 Features required	Wi-Fi Enhanced Open WMM & Wi-Fi Agile Multiband WPA, WPA2, WPA3 Personal & Enterprise Down Link and Up-Link OFDMA Individual Target Wake Time WPA3 192-bit security MU-MIMO Cellular Data aware	
7	Wireless Antenna	AP shall support Built-in Internal / External Omni-Directional Antennas Min 5 dBi or Higher gain antenna for 2.4 GHz and 7 dBi or Higher gain antenna for 5 GHz	
8	Operate Mode	Wireless AP & WDS / Bridge	
9	Protection Level	IP 68 or better	

10	Wireless SSID	AP should support a minimum of 16 or higher SSID.	
11	Power	AP's should comply to PoE input standard 802.3af/802.3at	
12	Wireless Management	Should support Management console port (RJ-45/Serial) for CLI, SNMP v1, v2, v3 AP should support SNMP based monitoring. Vendor has to provide MIB if required for NMS integration Standalone mode & Wireless Controller mode	
13	Wireless Accessories	AP should be quoted including all the installation accessories (mounting brackets).	
14	Firmware management	Should support centralized firmware management from WLC	
15	Ipv6 support	Should support Ipv4 and Ipv6 Dual stack.	
16	QOS	Should support WMM, QoS, Bandwidth Control and Traffic Priority	
17	Wireless Security	AP should support authentication methods: 802.11i, WEP, WPA, WPA2, WPA3 & RADIUS, WPA-EAP using TKIP, PEAP authentication, MAC & IP ACL, User/Client Isolation 802.1x, captive portal	
18	EMC Safety	CE, FCC	
	Operating Temperature	- 30 to 60 °C	

35. Enterprise Wireless Controller			
Make & Model :			
Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Physical ports	4# 10/100/1000 Mbps Base-T Ports	
2	Management Ports	RJ45 Console port	
3	Hard disk	64G SSD SATA/MSATA drive/External database Support (Internal/External)	
4	AP License	Basic 16 AP License should be loaded, upgradable Maximum up to 512 AP	

5	Concurrent users	Should support minimum 1500 Concurrent users per AC	
6	AP Discovery	Should support L2 and L3 Discovery	
7	CAPWAP Protocol	Should Support L2/L3 network topology between AP and AC AP Should support discover and accessible by AC automatically AP should support update of firmware and download of configuration from AC automatically	
8	Roaming	Should support Seamless roaming, Fast roaming	
9	Management Features	Web, CLI, Telnet and Console access TFTP/FTP and SSH v1/v2 SNMPv1/v2c/v3 Radius Authentication Syslog (Internal & External) and Sntp/NTP	
10	Authentication,	Should support Portal authentication Should support customized Portal, External Radius/LDAP and Mac authentication	
11	Security encryption	Support 64/128 WEP, dynamic WEP, TKIP, Support 802.11i safety authentication, Should support 802.1x authentication Should support PSK mode, Enterprise and Personal version	
12	Vlan	802.1Q, Port based vlan, Vlan groups	
13	Security management	Should Support wireless intrusion detection and intrusion prevention/Support WIDS/WIPS (wireless intrusion detection and wireless intrusion protection)	
14	Ipv6 Features	Should support ICMPv6, DNSv6, Ipv6 Static route, Ipv6 ACL	
15	Certificates	CE or FCC	

38. Floor standing 22U Steel Enclosure Rack**Make & Model :**

Sl. No.	Parameter	Specification	Technical Compliance (Yes/No)
1	Height	1176 mm	
2	Height usable	978mm	
3	Width	600mm	
4	Depth	600mm	
5	usable	520mm	

PRICE BID

Name of the bidder:							
Sl. No.	Product Code	Description	Qty. in Nos.	Unit Price (including Packing, Forwarding, Insurance) without Taxes Rs.	Applicable GST in %	Applicable GST in Rs.	Unit Price inclusive of GST (5+7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	33817-01	4U Wall Mount Rack	1				
2	33817-02	6U Wall Mount Rack	1				
3	33817-03	9U Wall Mount Rack	1				
4	33817-04	Power Strip 3 Pin 5A & 4 Socket with surge Protector	1				
5	33817-05	Power Strip 3 Pin 5A & 6 Socket	1				
6	33817-06	Power Strip 3 Pin 5A & 4 Socket with surge Protector and MCB	1				
7	33817-07	Power Strip 6 Pin 5/15A & 12 Socket with surge Protector	1				
8	33817-08	90Cfm Fans, 115~240V AC Fan for Above racks	1				
9	33817-09	1U Cable Manager	1				
10	33817-10	CAT 6 cable 4 pair UTP Cable	1				
11	33817-11	CAT 6 cable 4 pair SFTP Cable	1				
12	33817-12	CAT6A cable 4 pair UTP Cable	1				
13	33817-13	Cat 6 - 24 Port fully loaded Shuttered Patch Panel with built-in rear cable Manager, EIA/TIA-568-C verified	1				
14	33817-	Cat 6A - 24 Port	1				

	14	fully loaded shuttered Patch Panel with built-in rear cable Manager, EIA/TIA-568-C complied					
15	33817-15	Cat6 key stone I/O, EIA/TIA-568-C Certified	1				
16	33817-16	Cat6A key stone I/O, EIA/TIA-568-C complied	1				
17	33817-17	Shuttered Flush mount Face plate Single socket	1				
18	33817-18	Shuttered Flush mount Face plate Dual socket	1				
19	33817-19	Back Box for Face plate	1				
20	33817-20	CAT 6 UTP stranded copper wire, EIA/TIA-568-C Certified 1M Factory Crimped Patch cord	1				
21	33817-21	CAT 6 UTP stranded copper wire, EIA/TIA-568-C Certified 2M Factory Crimped Patch cord	1				
22	33817-22	CAT 6 UTP stranded copper wire, EIA/TIA-568-C Certified 3M Factory Crimped Patch cord	1				
23	33817-23	CAT 6A UTP stranded copper wire, 1M Factory Crimped Patch cord	1				
24	33817-24	CAT 6A UTP stranded copper wire, 2M Factory Crimped Patch cord	1				
25	33817-25	CAT 6A UTP stranded copper	1				

		wire,3M Factory Crimped Patch cord					
26	33817-26	1" PVC/Conduit charges per mtr	1				
27	33817-27	50X100mm PVC Duct charges per mtr	1				
28	33817-28	Cable laying charges per mtr	1				
29	33817-29	L2 Managed 8 ports POE switch	1				
30	33817-30	L2 Managed 24 ports switch	1				
31	33817-31	L2 Managed 24 ports POE switch	1				
32	33817-32	Enterprise Wi-Fi 6 Wireless wall / ceiling mount access Point 1800 Mbps Throughput	1				
33	33817-33	Enterprise Wi-Fi 6 Wireless Ceiling mount access Point 2400 Mbps Throughput	1				
34	33817-34	Enterprise Outdoor Dual Band Wireless access Point 2400 Mbps Throughput	1				
35	33817-35	Enterprise Wireless Controller	1				
36	33817-36	RJ-45 Computer Socket CAT 6 Make: Anchor.	1				
37	33817-37	Popup Box with HDMI connector, VGA Connector, Audio connector, LAN Port, Power Ports & USB Port.	1				
38	33817-38	Floor standing 22U Steel Enclosure Rack	1				
		TOTAL					