Prasar Bharati
(India's Public Service Broadcaster)
Doordarshan Kendra,
Doordarshan Bhawan,
Tower-C, Copernicus Marg,
NEW Delhi–110001

File No. IT-4001/7/2025-IT INFRA

Dated 13.11.2026

Subject: Specifications for Supply, installation, testing, and commissioning of Access Points Networking (Active, Passive) and Biometric Device **-regarding Industry feedback & budgetary quotes.**

Dear Sir,

Prasar Bharati is planning for procurement of above referred equipment/items, on open tender basis. Draft technical specifications are enclosed for reference.

In this regard, the Prospective bidders from India are requested to give their industry feedback (if any) on the above referred draft Specifications **up to 25.11.2026.** The Prospective bidders from India are also requested to give their budgetary quote for the above referred subject **up to 25.11.2026.**

Industry feedback (if any) and budgetary quote may be sent to this office at the following e-mail addresses.

umakant68@prasarbharati.gov.in
deepakkumarsangal@prasarbharati.gov.in
vrhari@prasarbharati.gov.in

(Ravindra Goyal)
Deputy Director General (E)
For Director General

To: (through email)

1. Prasar Bharati web-site
2. The Prospective Bidders
3. DDG (E-Purchase), P&D Unit, DG: AIR, New Delhi

For Director General

PRASARBHARATI
(India's Public Service Broadcaster)
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TECHNICAL SPECIFICATION DOCUMENT

Supply, installation, testing, and commissioningofAccess Points Networking (Active, Passive)and Biometric Device

1. Scope of Work

The selected bidder shall complete the supply, installation, testing, and commissioning of the equipment (i.e. Network Switches, Wireless Controllers, and Access Points along with associated equipment) as per the Bill of Material and specifications. The scope includes all necessary hardware, software licenses, configuration, and installation to ensure seamless integration with the existing IT infrastructure. Additionally, the bidder shall provide training for designated personnel on device operation, troubleshooting, and management. A three-year onsite warranty shall be included, covering Hardware replacement, software updates, LAN wiring (where needed) and Technical Support. Comprehensive documentation, including installation, guidelines, network topology and user manual, shall be provided to ensure smooth operation and maintenance.

2. Eligibility Criteria

2.1 Eligibility Criteria (Bidder)

Sr. No	Criteria	Description	Documentstobesubmitted asa proof
1	All commercials of the bid such as Company Registration, Average Annual Turnover of the Bidder/OEM, Work experience etc.	As per standard terms, and conditions on GeM	As per standard terms, and conditions on GeM
2	Company Details	TheBiddershouldhavevalidProvidentFundRegistration Certificate,GST,PAN/TAN,ESICRegistrationCertificate	Copyofavalidcertificate
3	Non-Blacklisting Certificates	ThebiddershouldnothavebeenblacklistedbyanyPSU, regulators,oranyotherGovernment agenciesduringthelast 03years	Dulysignedandstamped self-declaration certificate on company letterhead
4	Certifications	Thebiddermustpossessvalidcertificationsasunder: ISO9001,ISO20000,ISO27001,andCMMI:Level3orabove.	Copyofavalidcertificate

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6	Mandatory requisites	TheBiddermusthaveback-to-backsupportagreementswith thealltheofferedOEMsinfavourofendcustomerincluding allassociatedhardwareandsoftware.	ManufacturerAuthorizationForm (MAF)inoriginalissuedfromOEMsin favourofbidder(onOEMsletter head)addressingtoendcustomer mustbeenclosedwiththebid. MAFsmustclearlyindicatethereferenceof this tender and support for supply and warranty period.
7	SiteSurvey	Allbiddersmeetingtheeligibilitycriteria mayconducta site surveyatTower –C,Prasar Bharti, New Delhi,asperthe locationsandscheduleinformedbytheTower–C, Akashwani Bhawan, New Delhi	The site survey report has to be submitted with technical bid
8	Product Demo	i) The product demo shall be part of technical evaluation criteria. ii) The technically qualified bidder shall be informed for arranging the running demonstration of offered make and model in front of technical committee showcasing all the functionalities as per technical specifications of the product. The price bid shall be open for those bidders only who shall qualify in product demo during technical evaluation. Client may waive off the demo. If required bidders will call for demo.	A undertaking from the bidder shall be required with bid document
9	Preference to Make in India and Commercial-Compliance	Only 'Class-I local supplier' and Class-II local supplier', as defined under the order no.- P-45021/2/2017-PP (BE-II) dt. 4th June 2020 issued by Ministry of Commerce and Industry and subsequent amendments shall be eligible to bid in this tender.	The bidder has to mention the Local Content of offer material in BOQ with commercial bid. An undertaking duly signed and stamped by the authorized person of the

		Please enter the percentage of local content in the overall material (BOQ) being offered. The Subject tender is not divisible in nature and the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non local supplier'; Class-II local supplier' will not get any purchase preference. Please enter % for offered material in the BOQ. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	bidder on his/ her letter head needs to be furnished with technical bid in this regard for compliance of this clause, mentioning the Class-I/ Class- II. Without such undertaking the bid shall be summarily rejected. Also, % of LC shall be mentioned in commercial bid only.

2.2 Eligibility Criteria (OEM)

ForActiveComponents

	EssentialCriteriaforOEMsofActive Components	Remarks
S/N	MinimumTechnicalSpecifications	
1	The OEM must be a legal entity registered in India under the Companies Act, 1956, having registered office and operations in India. The OEM of active components to be quoted by the bidder should be present in India for last 10 Years or more. (Document proof Required- Proof of Incorporation should be attached).	
2	The OEM for switches must be listed Leaders/Challengers in Gartner Magic Quadrant for Wired and Wireless LAN Infrastructure as per last 3 years reports.	
3	The OEM of the network product should have well established manufacturing plant/ Research & Development Lab in India.	
4	The OEM of active network devices to be quoted by the bidder should have local Technical Assistance Centre (TAC) support in India and Returned Materials Authorization (RMA) depot in Delhi NCR area.	
5	The OEM of active network devices to be quoted by the bidder should be present in the country from at least past 10 years.	
6	The OEM whose active components are being quoted by the bidder should have posted profit in last 7 years.	
7	All products being quoted should be available as on date with the OEM and should be publicly reference able.	
8	Shall support Single Operating System binary image for all switch models proposed as part of the design.	
9	Proposed Switches, Wireless Access points and WLC should be from same OEM	
10	Proposed Switches, Wireless Access points and WLC should support common transceivers from same OEM of the active components	
11	OEM Should provide enterprise grade Switch	
12	The entire network should be managed and monitored by OEM compatible NMS.	

13	The OEM/ bidder should not be blacklisted/debarred by any Ministry of Government of India or by Government of any other State in India or any of the Government PSUs or Globally from the date of publishing the bid. An Undertaking on the bidder's official letterhead to be furnished by the bidder must be upload on GeM portal.	

For Passive Components

Sr.No.	Description	Remarks
1	TheOEMmustbealegalentityregisteredinIndiaundertheCompaniesAct ,1956, having registered office and operations in India. The OEM of passive network componentstobequotedbythebiddershouldbepresentinIndiaforlast10 Years ormore.(DocumentproofRequired-ProofofIncorporationshouldbeattached) ThecompanyshouldhaveaValidPANandavalid(GSTN)	
2	TheOEMshouldhavedirectservicecentreanddirecttoll-freenumberinIndia.	
3	TheProposedOEMshouldbeCECertifiedanditsownManufacturingfacility must adheretoISO14001:2015,ISO45001:2018,ISO27001:2022andESGSilverRated.Validcertificates forallthe above standards and ratings mustbeenclosed with the proposaltosupportcomplianceverification.	
4	FactoryTestreportmustbeprovidedfortheproductduringsupply.	
5	All passive components should be RoHS complied. Declaration of – ROHS compliant should clearly be mentioned on data sheets of each Passive Components. The OEM must ensure full compliance with the RoHS Directive 2011/65/EU,asamendedbyDirective(EU)2015/863,restrictingtheuseofhazardoussubstancesinelectricalandelectronicequipment.	
6	OEMshouldhaveitsManufacturingunits,ComponentsandFinishedGoods Warehouse & R&D labs in India.	
7	There should be minimum 25 years extended product warranty and Application Assurance as a part of certification of entire installedcablingsystem	
8	TheentirepassivecomponentsCopperandfibershouldbefroma Single OEMofonemake.And shall bea Class 1 local supplier as defined under the Government of India's Public Procurement (Preference to Make in India) Order, therebydemonstratingastrongcommitmenttoindigenousmanufacturingandnationalself-relianceinitiatives.	
9	The proposed OEM must be an active member of both the TIA and BICSI. Additionally, the OEM shall have on its Indian payroll at least one certified professional holding CDCP, ITIL and either PMI-PMP or RCDD credentials. The services of this professional must be available for consultation and direct involvement in the design, deployment, and oversight of this project. Valid Certificates of the OEM employees along with a letter from the OEM HR DepartmentverifyingthattheemployeesareinfactsittinginIndiashouldbe submitted.(Detailsmustbeprovided).	
	The OEM/ bidder should not be blacklisted/debarred by any Ministry of Government of India or by Government of any other	

10	State in India or any of the GovernmentPSUsorGloballywithinthelastfiveyearsfromthedateofpublishing the bid. An Undertaking on the bidder's official letterhead to be furnished by the bidder must be upload on GeM portal.	
11	The OEM shall be recognized by the Department for Promotion of Industry and Internal Trade under the 'Telecommunication & Networking' Industry and 'Network Technology Solutions' sector by Government of India.	

3. Technical Evaluation

1. Only eligible bidders/offers shall be considered for technical evaluation.
2. Technical Evaluation shall be done on the basis of compliance statement, customer reference certificates, technical literature related to quoted products.
3. If required, bidder may be asked to arrange a demonstration of the offered items.
4. Documents required for Technical Evaluation:
    a. A point bypoint compliance statement duly signed by the bidder in respect of all the points laid down in the specifications for all the equipment/ items shall be submitted along with the bid by the bidder.
    b. One set of Maintenance/operational manuals of each hardware from OEM shall be provided by the bidder.
    c. Detailed Literature giving complete details of features and performance data on non-returnable basis to facilitate the technical evaluation.
    d. Back to Back Support commitment from OEM of BOM for the period of three years.
    e. A copy of un-priced Bill of Material (BOM) indicating make, model no., and complete configuration details of offered item shall be quoted clearly.

4. Warranty & Maintenance

1. All items including LAN wiring shall be warranted for trouble free operation for a minimum period of 3 years from the date of commissioning.
2. In case of failure of any equipment or its part/module, the tenderer will send a replacement. The faulty part shall be sent back to tenderer after rectification of fault.
3. However, if it is not possible to rectify the fault remotely or by replacement of part/module, onsite support for replacement/servicing/debugging of software /reinstallation/reconfiguring of software etc. shall be provided by tenderer free of cost.
4. No separate charges will be paid for the visit of engineers for attending to faults and repairs or supply of spare parts.

5. Delivery Period

All items listed in Bill of Material including installation shall be supplied within 120 days.

6. Inspection

The offered stores/equipment shall be put on inspection byAakhashwani Bhawan official/committee towards acceptance of stores as per specifications.

7. Bill of Material (BOM)

S. No	Item	Qty	Unit
1	Supply of enterprise grade 24 ports L3 POE Switch	2	Nos.
2	Supply of Wi-Fi 7 Access Points.	25	Nos.
3	Supply of Wireless LAN Controller	1	Nos.
4	Supply of enterprise grade 24 ports L2 POE Switch with 10G transceiver	18	Nos.
5	Supply and laying of CAT 6A cable	915	Mtr.
6	Supply and fixing of RJ45 Connectors	120	Nos.
7	Supply and laying of 25MM PVC Pipe and flexible conduit	150	Mtr.
8	Supply and fixing of Misc. item including patch cord, Nuts, Screw etc.	1	Lot

**** These are the estimated quantity which may very however, Payment will be made as per actual.***

**** The estimated quantity will also be used for deciding L 1.***

TECHNICAL SPECIFICATIONS & BILL OF QUANTITY (BOQ)

Technical Specification for BOQ A

Technical specification for Core switch (BOQ-A-Item No 1)

L3 Switch 24 Port POE

S. No.	General Specifications
1.1	**General Features :**
1.1.1	Switch should be 1U and rack mountable in standard 19" rack.
1.1.2	Switch should support internal hot-swappable Redundant Power supply.
1.1.3	Switch should have redundant hot swappable fans.
1.1.4	Switch should have minimum 8 GB RAM and 16 GB Flash.
1.1.5	Switch should have dedicated slot for modular stacking, in addition to asked uplink ports. Should support for minimum 480 Gbps of stacking throughput with 8 switch in single stack.
1.2	**Performance :**
1.2.1	Switch shall have minimum 208 Gbps of switching fabric and 154 Mpps of forwarding rate.*
1.2.2	Switch shall have minimum 32K MAC Addresses and 4K VLAN.
1.2.3	Should support minimum 32K IPv4 routes or more and 16K IPv6 routes or more
1.2.4	Switch shall have 8K or more multicast routes.
1.2.5	Switch should support atleast 64K flow entries
1.2.6	Switch should support 128 or more STP Instances.
1.2.7	Switch should have 16MB or more packet buffer.
1.3	**Functionality :**
1.3.1	Switch should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.3x, 802.1p, 802.1Q, 802.3, 802.3u, 802.3ab, 802.3z & 1588v2.
1.3.2	Switch must have functionality like static routing, RIP, PIM, OSPF, VRRP, PBR and QoS features from Day1
1.3.3	Switch shall have 802.1p class of service, marking, classification, policing and shaping and eight egress queues.
1.3.4	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, NTP, RADIUS and TACACS+ .
1.3.5	Switch should support IPv6 Binding Integrity Guard, IPv6 Snooping, IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbour Discovery Inspection and IPv6 Source Guard.
1.3.6	Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment and MACSec-256 on hardware.
1.3.7	Switch must have the capabilities to enable automatic configuration of switch ports as devices connect to the switch for the device type.
1.3.8	During system boots, the system's software signatures should be checked for integrity. System should capable to understand that system OS are authentic and unmodified, it should have cryptographically signed images to provide assurance that the firmware & BIOS are authentic.
1.3.9	Switch shall have modular OS to support application 3rd party application hosting
1.4	**Interface**

1.4.1	Switch shall have 24 nos. 10G Base-T ports and additional 8 nos. SFP+ uplinks 10G/40G ports.
1.5	**Certification:**
1.5.1	Switch shall conform to UL 60950 or IEC 60950 or CSA 60950 or EN 60950 Standards for Safety requirements of Information Technology Equipment.
1.5.2	Switch shall conform to EN 55022 Class A/B or CISPR22 Class A/B or CE Class A/B or FCC Class A/B Standards for EMC (Electro Magnetic Compatibility) requirements.
1.5.3	Switch / Switch's Operating System should be tested for EAL 2/NDPP or above under Common Criteria Certification.
1.5.4	The hardware to be supplied with 5 years of OEM warranty

Technical Specification for Wi-Fi 7 Access Points (BOQ-A-Item No 2)

S. No.	Parameters
1	Access Point shall support tri radio operation with 4x4 MIMO on all three radio interfaces i.e 2.4ghz, 5ghz and 6ghz. It should also support MU-MIMO & MLO technology.
2	Access Point should have Bluetooth5 and UWB radio to support use cases of location, asset tracking and analytics. It should also have GNSS radio for GPS location.
3	Access Point shall be able to powered up using 802.3at power with full 4x4 radio operation atleast on 5 ghz& 6 ghz radio.
4	Access Point shall support Dual 5GHz radios to use 2.4 ghz radio in 5 ghz frequency.
5	Access Point shall have dedicated radio for spectrum monitoring capabilities, WIPS and off channel RRM without compromising and using the client serving radios.
6	Access Point should have 1x 100M/1000M/2.5G/5G/10G Multigigabit Ethernet (RJ-45)
7	Access Point should have USB port for future requirement.
8	Must have atleast 5 dBi Antenna gain on each radios
9	Must Support data rate upto 18 gbps.
10	Must support minimum of 23dbm of transmit power in all 2.4Ghz, 5Ghz & 6ghz radios. And should follow the local regulatory Norms.
11	Must support AP enforced load-balance between 2.4Ghz and 5Ghz band.
12	Must incorporate radio resource management for power, channel and performance optimization
13	Must have -98 dB or better Receiver Sensitivity.
14	Must support Proactive Key Caching and/or other methods for Fast Secure Roaming.
15	Must support Management Frame Protection.
16	Should support locally-significant certificates on the APs using a Public Key Infrastructure (PKI).
17	Access Points must support Hardware-based encrypted user data and management traffic between controller and Access point for better security.
18	Must support the ability to serve clients and monitor the RF environment concurrently.
19	Same model AP that serves clients must be able to be dedicated to monitoring the RF environment.
20	Must be plenum-rated (UL2043).
21	Must support 16 WLANs per AP for SSID deployment flexibility.

22	Access Point Must continue serving clients when link to controller is down. It should also have option to authenticate user through Radius server directly from Access Point during link unavailability to controller.
23	Must support telnet and/or SSH login to APs directly for troubleshooting flexibility.
24	802.11e and WMM
25	Must support QoS and Video Call Admission Control capabilities.
26	Access point should be Wifi alliance certified for Wifi-7, Wi-Fi 6, Wi-Fi 6E, WPA3-R3, WPA3-Suite B and Bluetooth SIG for Bluetooth low energy.
27	Access Point should support upto 4K-QAM, A-MPDU, A-MSDU, 802.11 DFS, MRC, beamforming, CSD, TWT, BSS-Coloring
28	Access point should be able to steer client towards 6 GHz through 802.11v
29	Access point should ensure hardware and software authenticity to provide strong defense against man-in-the-middle attacks for software and firmware
30	Access Point must continue serving clients when link to controller is down. It should also have option to authenticate user through Radius server directly from Access Point during link unavailability to controller.
31	Access point should be support 802.11i (WPA2, WPA3), 802.1x/802.1x - SHA256, Enhanced Open/OWE, AES-GCMP256 and CCMP256 security compliant.
32	Access point should support EAP-TLS, EAP-TTLS/MSCHAPv2, PEAP and EAP-FAST, AAA Override, Radius profiling
33	Access point should be Wi-fi alliance certified for Wi-Fi 7 (R1), Wi-Fi 6 (R2), Wi-Fi 6E, WPA3-R3, WPA3-Suite B, Enhanced Open Security and Bluetooth SIG
34	Access point should be complied for EN 300 328, EN 303 687, EN 50385, EN 55032, EN 55035, EN 61000-6-1
35	Access point should have Integrated UWB radio for precision asset tracking and location services
36	Access point should have 4 GB RAM and 16 GB Flash

Technical Specification for WLC - Controller (BOQ-A-Item No 3)

S.No.	Category	Clause
1	General	Wireless controller should support 250 AP and 5000 clients from day 1 and can be upgraded to 500 AP support with 10000 clients without any hardware change.
2	Hardware	The controller shall support deployment flexibility without compromising any features
3		The controller shall support min 5 Gbps tunnelling capacity and shall be upgradable to 10 gbps.
4		The controller shall support 2x 10G SFP+ uplink.
5		Wireless Controller shall support link aggregation and load sharing between Access Point to WLC links
6		The controller shall support hardware encrypted data plane between Access Point and Controller
7	High Availability	High Availability mode shall support controller inline data plane mode as well as local switching mode and Mesh mode
8		High Availability mode shall allow geographically dispersed installation between Controllers
9		The controller failover shall not trigger client de-authication and re-association
10		The controller shall support new AP hardware without need for upgrading entire controller software.
11		The controller shall support rolling AP upgrade
12		The redundant Controller shall sync Access Point and Client Status, including DHCP IP lease status
13	Software	Access Point shall be able to proactively distribute Client connections before and after the association
14		and tracking client conditions in real-time using data packet RSSI
15		The controller shall support standard- based, secure AP-Controller data control protocol like CAPWAP. Protocol that has known vulnerabilities like PAPI cannot be used.
16		The controller shall support Inter- Controller Wireless Roaming
17		The controller shall maintains per-user Application usage and shall be able to export it for network analytic.
18		The controller shall support Multi Languages options from embedded GUI Management
19		The controller shall provide per-Client Connection Scoring and provide reasoning of Client Connection Score
20		The controller shall support Cellular offload using IPv6 tunnelling to Mobile Core network
21	RF management	The controller shall be able to support multiple RF Management profile per group of APs, including Transmit Power Control
22		and Dynamic Channel Assignment on both 2.4GHz and 5Ghz
23		The controller shall be able to identify and avoid interferers with network performance impact analysis report
24		The controller shall support optimized, automatic channel width (20~160Mhz) selection over 5GHz, 802.11ac
25	Mesh	Mesh AP nodes shall provide quick convergence and fast failover to new root mesh node
26		Mesh Backhaul interface shall support full duplex operation using wired daisy chaining

27		Mesh AP shall support fast roaming for Wired-client through wired-to-wireless bridge client
28	Application Recognition and Control	The controller shall support per-user and per-WLAN-based application recognition and control that throttle usage by rate-limiting
29		The controller application recognition technology shall support exporting to 3rd party compatible formats, such as NetFlow v9
30		The controller shall provide a policy-based mDNS gateway including a Chromecast gateway
31		The controller shall support new application signatures without upgrading controller software
32	BYOD & Security	The controller shall provide Device Profiling using multiple profiling methods to reduce false-detection
33		The system shall provide secure on boarding service for both employee and guest based on standard-based security protocol
34		Proposed system shall not use public cloud as user data repository
35		The controller shall be able to embedded custom web portal page (HTML) to fully
		customize user experience without additional cost or extra box
36		The controller shall provide rule-based rogue classification and automatically run rogue mitigation action
37		The controller shall be able to detect employee device connection to Rogue Access Point and contain it automatically. It should also support protection from Honeypot or Evil twin.
38		The controller shall support Content Security using DNS integration, Web Classification shall be fully customizable
39		The system shall support control plane encryption on both IPv4 and IPv6
40		The Controller's image upgrade shall be done through secure, encrypted transport
41		The controller shall be able to provide unique pre-shared keys to the devices that do not support the 802.1x security protocol
42		The controller shall support Identity PSK for on boarding
43		The controller shall support identification & mitigation of the inside encrypted traffic
44	Network	The controller shall support the mapping of specific VLANs to a single SSID, depending on the Access Point location and user
45	Configuration	The controller shall support automatic VLAN assignment per SSID to load- balance user connection.
46		assigned VLAN pool shall be the same as the number of available VLANs in the system
47		The controller shall support embedded best practice configuration profile and setup
48		The controller shall support packet fragmentation between the Access Point and controller communication
49	OEM Support	The proposed Equipment should come with 5 years of NBD Support
50		The Switches and transceivers should be from the same OEM

Technical Specification for Layer 2 Switch 24 Port POE (BOQ-A-Item No 4)

S.NO	Technical Specifications
1	Switch should be 1U and rack mountable in standard 19" rack.
2	Switch should support internal field replaceable unit redundant power supply from day 1.
3	Switch should have minimum 2 GB RAM and 4 GB Flash.
4	Switch should have dedicated slot for modular stacking, in addition to asked uplink ports. Should support for minimum 80 Gbps of stacking throughput with 8 switch in single stack.
	Performance :
5	Switch shall have minimum 128 Gbps of switching fabric and 95 Mbps of forwarding rate.
6	Switch shall have minimum 16K MAC Addresses and 250 active VLAN.
7	Should support minimum 11K IPv4 routes or more
8	Switch shall have 1K or more multicast routes.
9	Switch should support atleast 16K flow entries
10	Switch should support 128 or more STP Instances.
11	Switch should have 6MB or more packet buffer.
	Functionality :
12	Switch should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.3x, 802.1p, 802.1Q, 802.3, 802.3u, 802.3ab, 802.3z.
13	Switch must have functionality like static routing, RIP, PIM, OSPF, VRRP, PBR and QoS features from Day1
14	Switch should support network segmentation that overcomes the limitation of VLANs using VXLAN and VRFs.
15	Switch shall have 802.1p class of service, marking, classification, policing and shaping and eight egress queues.
16	Switch should support management features like SSHv2, SNMPv2c, SNMPv3, NTP, RADIUS and TACACS+ .
17	Switch should support IPv6 Binding Integrity Guard, IPv6 Snooping, IPv6 RA Guard, IPv6 DHCP Guard, IPv6 Neighbour Discovery Inspection and IPv6 Source Guard.
18	Switch should support 802.1x authentication and accounting, IPv4 and IPv6 ACLs and Dynamic VLAN assignment and MACSec-128 on hardware for all ports.
19	Switch must have the capabilities to enable automatic configuration of switch ports as devices connect to the switch for the device type.
20	During system boots, the system's software signatures should be checked for integrity. System should capable to understand that system OS are authentic and unmodified, it should have cryptographically signed images to provide assurance that the firmware & BIOS are authentic.
	Interfaces
21	Switch shall have 24 nos. 10/100/1000 Base-T PoE+ ports with 4 nos. SFP+ uplinks ports.
	Certification:
22	Switch shall conform to UL 60950 or IEC 60950 or CSA 60950 or EN 60950 Standards for Safety requirements of Information Technology Equipment.
23	Switch / Switch's Operating System should be tested for EAL 2/NDPP or above under Common Criteria Certification.
24	Switches & transceivers should be from the same OEM.
25	Switch / Switch's Operating System should be tested for EAL 2/NDPP or above under Common Criteria Certification.
26	The Switch should be supplied with 5 years of warranty.

Technical Specification for BOQ B

Technical Specifications (Supply and laying of Cat 6A UTP Cable)

S No	Technical Specifications
1	Category 6A (Cat 6A) Unshielded Twisted Pair (UTP)
2	Shall support 10 GBASE-T (10 Gigabit Ethernet) standard, ensuring compliance with performance requirements for 10 GbE over distances up to 100 meters.
3	Conductor shall be 23 AWG solid bare copper.
4	Conductor Insulation material shall be HOPE.
5	The conductors shall be twisted in pairs with four pairs contained in PVC jacket
6	Four twisted pairs separated by internal X shaped, full separator. Half shall not be accepted.
7	Sheath material should be LSZH

Technical Specifications RJ45 Connectors

S No	Technical Specifications
1	RJ 45 Connectors from theCAT 6A cable OEM

Annexure-1

SELF-DECLARATION ON NON-BLACKLISTING

To:

Date:

PRASAR BHARATI

(India's Public Service Broadcaster)

Dear Sir,

RFP No. (GEM BID No.):

RFP Title:Supply, installation, testing, and commissioningofAccess Points Networking (Active, Passive)and Biometric Device

Dear Sir,

We, _____, hereby declare that we have not been blacklisted/debarred by any Governmental / Non –Governmental Organisation in India as on the bid submission date.

Yours faithfully,

_____

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