



प्रसार भारती/Prasar Bharati
(India's Public Service Broadcaster)
प्रसारभारती सचिवालय/Prasar Bharati Secretariat
आकाशवाणी भवन, संसदमार्ग, नईदिल्ली - 110001
Akashwani Bhawan, Parliament Street, New Delhi-110001
सूचनाप्रौद्योगिकी विभाग/IT Division



IT-4003(01)/1/2025-IT INFRA

Dated – 9/01/2026

Subject: Extension of Last date for **Inviting Industry Feedback on draft technical specification for The Supply, Installation, Testing, and Commissioning (SITC) of Wireless Controller and Wireless Access Point.**

Reference this office letter dated 24-12.2025 issued through file no. IT-4003(01)/1/2025-IT INFRA inviting Industry Feedback on draft technical specification for The Supply, Installation, Testing, and Commissioning (SITC) of Wireless Controller and Wireless Access Point (copy enclosed for ready reference).

The last date for receiving the response along with the feedback on technical specifications as well as budgetary quote is hereby extended upto 14.01.2026 on the following eMail ID:

ade-it@prasarbharati.gov.in

(Simmi Mittal)
Assistant Director (IT)

To
Director (PBNS) for publishing on Prasar Bharati Corporate Website.



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Dated: 24th December, 2025

Subject: Inviting Industry Feedback on draft technical specification for The Supply, Installation, Testing, and Commissioning (SITC) of Wireless Controller and Wireless Access Point.

Prasar Bharati intends to invite a fresh tender on the GeM portal for the Supply, Installation, Testing, and Commissioning (SITC) of Wireless Controller and Wireless Access Points.

In this regard, the draft technical specifications are hereby published to invite industry feedback from prospective bidders, OEMs, or their authorized dealers/sellers. Feedback is sought on the attached draft technical specifications for the SITC of Wireless Controller and Wireless Access Points.

Submission of a budgetary quote is mandatory and must be provided along with the technical feedback.

The response, including feedback on the technical specifications and the corresponding budgetary quote, may be furnished on or before 07.01.2026 at the following email ID:

ade-it@prasarbharati.gov.in

(Simmi Mittal)
Assistant Director (IT)

To
Director (PBNS) for publishing on Prasar Bharati Corporate Website.



TECHNICAL SPECIFICATION DOCUMENT

For

The Supply, Installation, Testing, and Commissioning (SITC) of Wireless Controller and Wireless Access Point.

Date: 19/12/2025

Prasar Bharati (India's Public service Broadcaster) invites bids through GeM Portal for **SITC of Wireless Controller and Wireless Access Point.**

1. Scope of Work:

The selected bidder is required to complete supply, installation, testing and commissioning of the **Wireless Controller and Wireless Access Point**, as per the scope and Bill of Material given of this document. The scope also includes all associated hardware, software licenses, configuration, installation, training and a **three-year onsite warranty**.

2. Technical Eligibility Criteria:

SI No.	Criteria	Description	Required Documentary proof
1	Years of Work experience of Bidder	The bidder should have minimum 3 years of experience of the similar nature work.	Documentary proof such as Purchase orders, completion certificate etc is to be uploaded. .
2	OEM Authorization Certificate	Bidder is required to submit Manufacturers Authorization Form (MAF) / Certificate issued by the OEM (of offered product) to bidder. MAF shall include bidder's particulars such as name of Firm, address; email Id and Phone No., including particulars of issuing authority.	Upload 'Manufacturer Authorization certificate'
3.	OEM Certification	OEM should have valid ISO 9001:2005 and ISO 27001.	Copies of the certificate to be attached.

3. Technical Evaluation

1. The tender shall be technical evaluated on the basis of eligibility of the bidder.
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 by point 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 to facilitate the technical evaluation.
 - d. Back to Back Support commitment from OEM for Sr No. 1,2 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 shall be warranted from OEM for trouble free operation for a minimum period of 3 years from the date of commissioning and shall not be declared end of life.
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. 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 60 days.

6. Bill of Material

Details of Items:

S.No.	Item	Quantity & Unit of Measurement	Rate per Unit
1.	Wireless Access Point	18 Nos	
2.	Wireless Controller	2 Nos	
3.	CAT 6 Cabling for Access Points	600 Meters	

7. The Detailed Technical Specifications are as below:

Item wise detailed requirements and technical specifications as per BOM are given

Item No 1 : Wireless Controller (2 Nos)

S.No.	Specification Category	Detailed Specification / Requirement	
1.	Architecture and scalability	1.1	Ports & Capacity: Minimum 2 × 1GbE ports; support minimum 150 Access Points and 2,000 concurrent clients from day 1.
		1.2	High Availability: Active-Standby HA with automatic failover.
		1.3	Local User Database: Built-in database supporting minimum 1,000 local user accounts.
		1.4	AP Discovery: Support L2 and L3 AP discovery.
		1.5	Data Forwarding: Support both local bridging at AP and centralized tunneling to controller.
		1.6	Configuration Management: AP grouping with multiple configuration profiles.
		1.7	Multiple BSSID: Support Multiple BSSID per radio.
2.	Security & Authentication	2.1	Authentication & Encryption: Support Web Authentication, MAC Authentication, 802.1X, WPA2-AES, WPA2-PSK (all methods mandatory).
		2.2	Unique PSK: Support per-client unique/dynamic PSK (DPSK).
		2.3	Access Control: Support L2 and L3 ACLs.
		2.4	Rogue AP Detection: Built-in rogue AP detection and containment.
		2.5	Device Policy: Client fingerprinting and device-based access policies; minimum 8,000 station fingerprint cache.
3.	Network Management &	3.1	Guest/Employee Onboarding: Self-service captive portal for easy onboarding.

	Monitoring	3.2	Management Features: Dedicated management interface, WLAN prioritization, dynamic VLAN assignment.
		3.3	Monitoring: Network monitoring and basic management via mobile app (Android & iOS) and desktop application.

Item No 2 : Wireless Access Point (18 Nos)

S.No.	Specification Category	Detailed Specification / Requirement	
1.	Radio Specifications	1.1	Access Point shall be dual-band, dual-radio indoor access point
		1.2	AP shall have 2x2 MIMO on 2.4GHz and 2x2 on 5GHz antennas for transmission and receiving. Should support MU-MIMO.
		1.3	IEEE 802.11a/b/g/n/ac/ax compliant.
		1.4	≥23 dBm TX power per WPC norms; ≤-96 dBm RX sensitivity; adaptive antenna with interference mitigation and polarization diversity.
		1.5	It shall dynamically choose antenna patterns in real-time environment to establish the best possible connection with every device.
2.	Interface and Power Requirements	1x 1GbE Ethernet port; PoE (802.3af/at) support.	
3.	Networking Requirements	3.1	AP shall have capacity to handle minimum 250 Concurrent devices.
		3.2	AP shall be flexible hardware to be deployed as Standalone, Controller-less (Cluster), Controller-based, Cloud-based.
		3.3	shall have IPv6 support, IEEE 802.1Q, Band balancing, airtime fairness, QoS, L2/L3/L4 ACL
		3.4	Configuration shall be possible to configure as such if controller goes down, still APs should be able to handle client traffic.
4.	Security & Monitoring	4.1	AP shall support AES encrypted GRE-based tunnel for data forwarding.

		4.2	WPA2-AES, Dynamic PSK, WPA3, 802.1X/EAP; role-based access control, rate-limiting, device fingerprinting.
5.	Management Features	5.1	AP shall be having administration access through HTTPS GUI, SSH CLI, standalone WLAN config and controller/cloud provisioning; respects controller access restrictions.
		5.2	AP shall have recovery SSID for easy access to CLI console when AP is unreachable through network.

Item No 3: CAT 6 Cabling for Access Points

S.No.	Specification Category	Detailed Specification / Requirement	
1.	Supply and laying of CAT6 UTP cable for Access Points	1.1	Some of the supplied Access Points (AP) are to be installed by replacing the existing old APs
		1.2	In some cases, APs are to be installed along with CAT6 UTP cable. Bidder is to provide the CAT6 cable and it is to be laid in proper size conduit. All materials i.e cable conduit and other installation material is to be provided by the bidder.
		1.3	Payment for such CAT6 cabling is to be made on actual basis as per the unit rate quoted by bidder.
		1.4	The quantity for cabling given in BoM is the estimated requirement and to be used for calculation of L-1. The payment will be based on actual consumption, which may vary from the estimated value.
		1.5	The locations of the APs and the CAT6 wiring routes will be decided in consultation with Prasar Bharati..
		1.6	Laying of cables are to be done in professional manner with proper tagging, capping, casing and a route layout to be submitted by bidder on completion of SITC.
		1.7	PoE type Switch ports will be provided by Prasar Bharati for terminations of AP cabling in Switch room.
		1.8	The installation and cabling work will be allowed only during the office working hours.

8. Additional Terms and Conditions:

Additional Terms & Conditions	(i)	Escalation matrix for service support to be provided
	(ii)	OEM Service Centre must be across PAN India (List of service Centre to be attached)
	(iii)	Bidder Office/Service Centre should be available in Delhi-NCR. Documentary proof to be submitted.
	(iv)	Malicious Code Certificate duly filled and signed/stamped by OEM in Letterhead
	(v)	OEM must have online documentations and manuals accessible to public for the offered product.
