

REQUEST FOR PROPOSAL (RFP)

(ARMY INSTITUTE OF TECHNOLOGY (AIT), PUNE)

**PROCUREMENT OF WI-FI CONTROLLERS AND WI-FI ACCESS POINTS FOR
HOSTELS IN AIT**

Request for Proposal (RFP) No 65/2023 dated 28 Jun 2023

1. Bids in sealed cover are invited for supply of items listed in Part III of this RFP. Please superscribe the above mentioned Title, RFP number of the Bids on the sealed cover to avoid the Bid being declared invalid.

2. The address and contact numbers for sending Bids or seeking clarifications regarding this RFP are given below –

- (a) Bids/queries to be addressed to : Project Office, Army Institute of Technology, Dighi, Alandi Road Pune – 411015.
- (b) Postal address for sending the Bids : Project Office, Army Institute of Technology, Dighi, Alandi Road Pune – 411015.
- (c) Name/designation of the contact personnel : Prof Rushikesh H Patil (Project Officer)
- (d) Telephone numbers of the contact personnel : 7249250184 Extn 2106
- (e) e-mail id of contact personnel : project@aitpune.edu.in

3. This RFP is divided into five Parts as follows:

(a) **Part I** – Contains General Information and Instructions for the Bidders about the RFP such as the time, place of submission and opening of tenders, Validity period of tenders, etc.

(b) **Part II** – Contains essential details of the items/services required, such as the Schedule of Requirements (SOR), Technical Specifications, Delivery Period, Mode of Delivery and Consignee details.

(c) **Part III** – Contains Standard Conditions of RFP, which will form part of the Contract with the successful Bidder.

(d) **Part IV** – Contains Special Conditions applicable to this RFP and which will also form part of the contract with the successful Bidder.

(e) **Part V** – Contains Evaluation Criteria and Format for Price Bids.



4. This RFP is being issued with no financial commitment and the Buyer reserves the right to change or vary any part thereof at any stage. Buyer also reserves the right to withdraw the RFP, should it become necessary at any stage.

PART I - GENERAL INSTRUCTION

98 July
5. Last date and time for depositing the Bids: Last date and time for depositing the Bids is 18/07/2023. The sealed Bids (both technical and Commercial, in case two bids are called for) should be deposited/reach by the due date and time. The responsibility to ensure this lies with the Bidder.

6. Manner of depositing the Bids: Sealed Bids should be either dropped in the Tender Box marked as TENDER BOX or sent by registered post at the address given above so as to reach by the due date and time. Late tenders will not be considered. No responsibility will be taken for postal delay or non-delivery/ non-receipt of Bid documents. Bids sent by FAX or e-mail will not be considered (unless they have been specifically called for by these modes due to urgency).

7. Time and date for opening of Bids: 10 am on Jul 2023. If due to any exigency, the due date for opening of the Bids is declared a closed holiday, the Bids will be opened on the next working day at the same time or on any other day/time, as intimated by AIT.

8. Location of the Tender Box: Tender Box is placed at Reception Counter of AIT. Only those Bids that are found in the tender box will be opened. Bids dropped in the wrong Tender Box will be rendered invalid.

9. Place of opening of the Bids: Old Conference Hall, AIT. The Bidders may depute their representatives, duly authorized in writing, to attend the opening of Bids on the due date and time. Rates and important commercial/technical clauses quoted by all Bidders will be read out in the presence of the representatives of all the Bidders. This event will not be postponed due to non-presence of your representative.

10. Two-Bid system: Only the Technical Bid would be opened on the time and date mentioned above. Date of opening of the Commercial Bid will be intimated after acceptance of the Technical Bids. Commercial Bids of only those firms will be opened, whose Technical Bids are found compliant/suitable after Technical evaluation is done by the Buyer.

11. Forwarding of Bids – Bids should be forwarded by Bidders under their original memo / letter pad inter alia furnishing details like PAN number, GST number, Bank address with EFT Account if applicable, etc and complete postal & e-mail address of their office.

12. Pre-Bid Meeting – Pre Bid meeting will be scheduled where necessary. Date and time of Pre-Bid Meeting will be intimated by the Buyer on mail or telephone/contact no provided by bidder.

13. Modification and Withdrawal of Bids: A bidder may modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by the Buyer prior to deadline prescribed for submission of bids. A withdrawal notice may be

sent by fax but it should be followed by a signed confirmation copy to be sent by post and such signed confirmation should reach the purchaser not later than the deadline for submission of bids. No bid shall be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and expiration of the period of bid validity specified. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security.

14. Clarification regarding contents of the Bids: During evaluation and comparison of bids, the Buyer may, at its discretion, ask the bidder for clarification of his bid. The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. No post-bid clarification on the initiative of the bidder will be entertained.

15. Rejection of Bids: Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection with forfeiture of EMD. Conditional tenders will be rejected.

S/No.	Characteristics of WLAN System
1	General Feature Requirements
1	The Solution should support 20Mhz or 40Mhz or both channels on 2.4Ghz and 20Mhz/40Mhz/80Mhz/160Mhz channel width on 5Ghz with aggregated data rate up to 4.5 Gbps or more. Proposed indoor APs should have atleast 4x4 MU-MIMO with four spatial streams on 5Ghz.
1.1	Wireless solution configuration should be scalable with a field-upgradeable license to add APs in a granular fashion. Mention the lowest granularity of the upgrade.
1.2	Slower clients should not be starved by faster clients and faster clients should not be adversely affected by slower clients.
1.3	The solution should have the latest generation operating systems across access points and wireless controllers.
1.4	Support automatic channel selection.
1.5	Support built-in security: Secure Boot or equivalent, runtime defences/image signing/ integrity verification.
2	Hardware/Software Controller Architecture :
2.1	Wireless controllers should be able to support 500 AP's from day one, with N+1 redundancy or 100% redundancy.
2.2	AP should communicate over an encrypted tunnel to ensure end-to-end security of user information.
2.3	Wireless solution able to deploy WLAN in tunnel mode.
2.4	Wireless solution for smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote WLC & WAPs of the same make (OEM).
2.5	Wireless solutions should support the auto-deployment of AP's at different locations.
2.6	Wireless solutions should support controllers/groups of controllers to enable seamless mobility, and a high availability experience across Wi-Fi solutions in the event of failure or significant high density.
2.7	Support deep visibility into the network like RF health metrics, app utilization, device type and user data in an easy-to-integrate open supportive format.

2.8	If Hardware based, Wireless solution appliances should support minimum 2x10Gbps data SFP/SFP+/UTP
2.9	Support dynamic RF management that provides the capability to do channel scanning.
2.10	Support an ability to dynamically adjust channel and power settings based on the RF environment.
2.11	The wireless solution should provide real-time charts/logs showing interference per access point, on a per- radio, per-channel basis.
2.12	The Wi-Fi AP and Controller should have the latest version/generation of software/os/firmware from the OEM.
2.13	The controller should support new AP hardware. Any new software upgrade required should be done without any downtime requirement.
3	Quality of Service
	General Features:
3.1	Priorities traffic for different applications.
3.2	Self-healing (on detection of RF interference or loss of RF coverage).
3.3	Dynamic load balancing to automatically distribute clients to the least loaded 802.11 channel and AP.
3.4	Support fast roaming feature.
3.6	Support band steering where 5 GHz clients preferred to connect over 5Ghz Radio to provide better load balancing among 2.4Ghz and 5Ghz Radios.
3.7	Encryption/decryption of 802.11 packets should be able to perform at the controller level.
3.8	Supports smarter roaming and load balancing behavior and is supported on both IPv4 and IPv6 networks.
4	Inline Security Features
4.1	Secure Guest Portal: Solution Should support local web-based authentication; Access (hotspot URL redirection for user login; provisioning); customization login/welcome pages. This portal should facilitate a simple process to create short-lived guest IDs and passwords which expire automatically. Support for the creation of logins for attendees of short events, such as conferences, should also be supported.
4.2	Should allow authenticated client devices to roam securely from one access point to another AP within or across subnets. There should not be any perceptible delay during re-association.
4.3	The solution should provide features to detect and mitigate interference from Wi-Fi.
4.4	Support 802.11e WMM, U-APSD, TSPEC, CAC, QBSS, Proxy ARP
4.5	Support automatic channel selection for interference avoidance.
4.6	Support to permit non-essential traffic while preventing it from overwhelming mission-critical applications.
4.7	Support Rogue AP detection and protection.
4.8	Support comprehensive integrated security features that include layer 2-7 deep packet inspection.
4.9	Support wireless IPS functionality.
4.1	Support IP filtering policies or ACL.
4.11	Support application awareness to WLANs to prioritize applications for each user.
4.12	Support Radius, LDAP and Single Sign-On (SSO) integration.
4.13	The solution should provide options for profiling devices and mapping



	specific VLANs.
4.14	Support L2 client isolation so users cannot access each other's devices. Isolation should have the option to apply per SSID.
5	Authentication
5.1	Support IEEE 802.1X authentications.
5.2	Support External AAA servers: RADIUS, LDAP and Active Directory and SSO.
5.3	Support Web-based authentication and Portal base.
5.4	Support Open, 802.1x, EAP, EAP-TLS, EAP-SIM, EAP-TTLS, EAP-AKA, PEAP, EAP-MD5, EAP-FAST, PSK, WPA, WPA2-AES, WEP, WPA3 and enhance security.
6	Client Management
6.1	The solution should provide a guest login portal.
6.2	The proposed wireless controller should have a built-in captive portal option for guest onboarding.
6.3	Support user management features like rate limiting and user profile per WLAN/User etc.
7	Licenses, Warranty and Support
7.1	The proposed solution along with Access points must be supported for a minimum of 3 Years by the OEM/Bidder.
7.2	OEM should have an India toll free Technical Assistance Center (TAC) number, India Research and Development (R&D) Center and Support depot in India.
7.3	OEM should have at least 5 Technical Assistance Center (TAC) engineers in INDIA on OEM payroll for the last 3 years.
7.4	The proposed WiFi solution must have all the above feature hardware/software and licensing from day one and must be Enterprise-grade.
7.5	The proposed controllers should be enabled with all the required licenses to enable features or functionalities mentioned in RFP. All back-to-back NBD contract hardcopy or softcopy should be shared with customer.
7.6	OEM should be in Reputed/Gartner Leaders quadrant in wired and wireless for 3 years atleast
8	Hardware/Software Features
8.1	Support redundant controllers to maximize performance and availability with 100% redundancy.
8.2	Redundancy should be based on industry-standard protocol.
8.3	Support hardware/software encrypted data plane between Access Point and Controller.
8.4	Support 802.11ax (Wi-Fi 6), WPA3 and existing standards with enhanced open standards or equivalent.
8.5	The wireless solution should support Active/Active (1:1) or Active/Standby (1+1) or N+1 High Availability Deployment Modes.
8.6	In case of Hardware Controller, Wireless solution controllers should be rack-mountable 2U or less.
8.7	In case of Hardware Controller, Should support Redundant Power Supply.
9	Scalability Features
9.1	The proposed solution should support 500 access points from day one without any hardware/software upgrades.
9.2	In case of Hardware Controller, Support RJ-45 or USB compatible console port.

9.3	Support Command-line interface: Telnet/Secure Shell (SSHv1, SSHv2) Protocol or Serial port.
9.4	Support Web-based: HTTP/HTTPS.
9.5	Support Simple Network Management Protocol: SNMPv1, SNMPv2c, SNMPv3.
9.6	Support FTP or Trivial File Transfer Protocol (TFTP).
9.7	Support SFTP or SCP.
9.8	Support Event Logging (Syslog) and remote server logging.
9.9	Support IPv6 and IPv4 from day one.
9.10	Support Built-in Wireless/RF optimization.
9.11	Supportability to capture packets from any interface on the access points (like Ethernet, radio, VLAN, etc.)
9.12	The solution should support Client health for real-time client performance metrics, connectivity, traffic, signal-to-noise ratio (SNR) and data rate, as well as historical traffic, to help troubleshoot connectivity problems.
10	Indoor Wireless Access Point (WAP) Specifications
10.1	The Solution should support 20Mhz or 40Mhz or both channel widths on 2.4Ghz and 20Mhz/40Mhz/80Mhz/160Mhz channel width on 5Ghz with aggregate data rate 4.5 Gbps or more.
10.2	The proposed indoor access point shall be 802.11ax compliant with support for 4x4:4 MUMIMO on 5Ghz radio and additional 3rd radio for WIPS dedicated sensor. If vendor doesn't support tri-radio setup , they should provide additional AP as dedicated sensor in 1(sensor):2(AP) ratio
10.3	The solution should support Multi-User MIMO (MU-MIMO) Technology to maximize throughput along with support for four spatial streams on both radios.
10.4	Support radio technologies 802.11b(DSSS), 802.11 a/g/n/ac(OFDM), 802.11ax(OFDMA).
10.6	Supported modulation types: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM.
10.7	Support WPA3 and Enhanced Open security or equivalent
10.8	Support IEEE 802.11ax or WiFi-6 standard from day one.
10.9	Support 802.3af/at/btPoE/PoE+ or equivalent standard which must support 802.11ax APwith full functionality.
10.1	Support OFDMA to reduce overhead and latency.
10.11	Should support target wait time (TWT) to improve network efficiency and device battery life.
10.12	Support Built-in technology that resolves sticky client issues for Wi-Fi 6 devices.
10.13	Support telnet or SSH login to APs directly for troubleshooting flexibility.
10.14	Support simple policy management which is applied based on user role, and applications.
10.15	The proposed solution should support SSL/IPSec VPN/CAPWAP/PAPI tunnel or equivalent.
10.16	Support both ceiling and wall mounting options along with safety mechanisms set from theft.
10.17	Operating channels should be as allowed by the regulatory domain in India.
10.18	Transmit Power increments as per regulatory domain.
10.19	The proposed indoor AP should support a 100/1000/2500 BASE-T (RJ-45) Mbps LAN port.



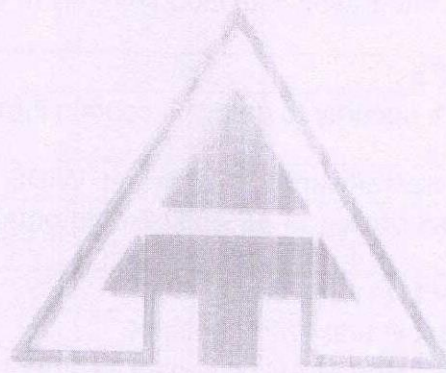
10.20	Support -94 dBm or better Receiver Sensitivity.
10.21	The proposed access point should support the option of an external POE Injector or external power adapter.
10.22	Support minimum 4dBi Antenna gain or more on each radio. Vendor can achieve the same using external antenna
10.23	Support a minimum of 20dbm of transmit power in both 2.4Ghz and 5Ghz radios and should follow the Indian regulatory Norms.
10.24	Support to operate minimum at 0 to 50 degree celsius temperatures.
10.25	Support packet capture, RF sensing capabilities.
10.26	Support AP enforced load-balance between 2.4Ghz and 5Ghz band.
10.27	Support incorporates radio resource management for power, channel and performance optimization.
10.28	Support Proactive Key Caching or other methods for Fast Secure Roaming.
10.29	Support Management Frame Protection (802.11w).
10.30	Support the ability to serve clients and monitor the RF environment concurrently.
10.31	Support 802.11e and WMM (Wi-Fi Multimedia).
10.32	Support QoS and Video Call Admission Control capabilities.
10.33	Support transmit beamforming to increase signal reliability and range.
10.34	Support Transmit power: Configurable in increments range of 0.5dBm - 1.0 dBm OR defined percentage/Integer value
10.35	Support for console port RJ-45 or USB compatible.
10.36	Should support integration with cloud directly or via controller if required in future.
11	WIDS AND WIPS
11.1	Support network security to detect & contain intrusion or threat on your wireless network.
11.2	Support hardware/software to implement WIDS / WIPS from day One.
11.3	Support to detect of Rogue AP and take automatic /manual action to prevent the rogue AP.
11.4	Support to detect Unsanctioned BSS
11.5	Support to detect virtual WIFI / hotspot
11.6	Support to detect Rogue AP on sensor segment
11.7	Support to detect of Rogue Client and take automatic /manual action to prevent the rogue client.
11.8	The proposed WIFI solution must have all the above feature licensing from day one and must be Enterprise-grade.
11.9	Support basic compliance reporting.
11.1	Support functionality on centralized traffic forwarding mode from AP.

16. Unwillingness to quote: Bidders unwilling to quote should ensure that intimation to this effect reaches before the due date and time of opening of the Bid, failing which the defaulting Bidder may be delisted for the given range of items as mentioned in this RFP.

17. Validity of Bids: The Bids should remain valid till six months from the last date of submission of the Bids.

18. Tender Fee:- Bidders are required to submit Tender Fee for amount of Cost of Tender 1,000/- along with their bids. The Tender Fee may be submitted in the form of an Account Payee Demand Draft in favour of Army Institute of Technology.

19. Earnest Money Deposit:- Bidders are required to submit Rs – 40,000/- (Forty Thousand only) as Earnest Money Deposit (EMD) along with their bids. The EMD may be submitted in the form of an Account Payee Demand Draft in favor of Army Institute of Technology. EMD is to remain valid for a period of forty-five days beyond the final bid validity period. EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract. The Bid Security of the successful bidder would be returned, without any interest whatsoever, after the receipt of Performance Security from them as called for in the contract. The EMD will be forfeited if the bidder withdraws or amends, impairs or derogates from the tender in any respect within the validity period of their tender.



Onward to Glory

Part II – Essential Details of Items/Services required

20. Schedule of Requirements – List of items / services required is as follows: -

PROCUREMENT OF WI-FI CONTROLLES AND WI-FI ACCESS POINTS FOR HOSTELS IN AIT

21. Technical Details:-

(A) WI-FI ACCESS POINTS

S.No	Product Particulars	Qty	Compliance (Yes/No)	Remarks
1.	<p>Brand Type : International Reputed Brand/Leader Quadrant of Gartner</p> <p>Radio Specifications Radio Design 5 GHz, 4X4 MIMO 2.4 GHz 2X2 MIMO</p> <p>Multiple-In, Multiple-Out (MIMO) 4x4 Quad Stream Multiple-In, Multiple-Out (MIMO) Radio</p> <p>802.11ax Modulation (1024-QAM)</p> <p>Data Rates (Mbps): 5G: (4800 Mbps) 2.4G: (574 Mbps) Dual-band Orthogonal Frequency Division Multiplexing (OFDM) Modulation</p> <p>Internal Antennas – 2.4 GHz, peak gain 3 dBi, internal antenna, omnidirectional in azimuth 5 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth</p> <p>Network Protocol : IEEE 802.11n 4x4 MIMO with four spatial streams PHY data rates up to 800 Mbps or above</p>	10 Nos		

	<p>IEEE 802.11ac 4x4 downlink MU-MIMO with four spatial streams PHY data rates up to 3.5 Gbps</p> <p>IEEE 802.11ax 4x4 downlink MU-MIMO with four spatial streams PHY data rates up to 5 Gbps</p> <p>Interfaces 2 x 100, 1000, 2500 Multigigabit Ethernet (RJ-45) – IEEE 802.3bz USB3.0, Type A , 0.5A</p> <p>System Memory 2048 MB DRAM or above 1024 MB flash or above</p> <p>Security 802.11i, Wi-Fi Protected Access 3 (WPA3), WPA2, WPA 802.1X Advanced Encryption Standard (AES)</p> <p>Mounting Mounting bracket</p> <p>Warranty 8X5XNBD for 3 years</p>			
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Onward to Glory

(B) WI-FI CONTROLLER APPLIANCES

S/No	Product Particulars	Qty	Compliance (Yes/No)	Remarks
1	<p>Brand Type : International Reputed Brand / Leader Quadrant of Gartner</p> <p>Maximum number of access points – 250 or above</p> <p>Maximum number of clients – 5000 or above</p> <p>Maximum throughput – 5 Gbps or above</p> <p>Maximum WLANs – 4096 or above</p> <p>Maximum VLANs – 4096 or above</p> <p>Fixed uplinks – 2 x 10G /Multigigabit copper or 2x 10G/Multigigabit fiber link</p>	02 Nos		



Power supply - 110W, 12V DC, AC/DC adapter Maximum power consumption - : 86.9W (with 4.5W USB load) Form factor - 1RU Warranty - 8X5XNBD for 3 years			
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(C) Essential Requirements for Wi-Fi Access Points (10 Nos) and Wi-Fi Controller Appliance (02 Nos)

S/No.	Characteristics of WLAN System	Compliance (Yes/No)	Remarks
1	General Feature Requirements		
1	The Solution should support 20Mhz or 40Mhz or both channels on 2.4Ghz and 20Mhz/40Mhz/80Mhz/160Mhz channel width on 5Ghz with aggregated data rate up to 4.5 Gbps or more. Proposed indoor APs should have atleast 4x4 MU-MIMO with four spatial streams on 5Ghz.		
1.1	Wireless solution configuration should be scalable with a field-upgradeable license to add APs in a granular fashion. Mention the lowest granularity of the upgrade.		
1.2	Slower clients should not be starved by faster clients and faster clients should not be adversely affected by slower clients.		
1.3	The solution should have the latest generation operating systems across access points and wireless controllers.		
1.4	Support automatic channel selection.		
1.5	Support built-in security: Secure Boot or equivalent, runtime defences/image signing/integrity verification.		
2	Hardware/Software Controller Architecture :		
2.1	Wireless controllers should be able to support 500 AP's from day one, with N+1 redundancy or 100% redundancy.		
2.2	AP should communicate over an encrypted tunnel to ensure end-to-end security of user information.		
2.3	Wireless solution able to deploy WLAN in tunnel mode.		
2.4	Wireless solution for smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote WLC & WAPs of the same make (OEM).		
2.5	Wireless solutions should support the auto-deployment of AP's at different locations.		

2.6	Wireless solutions should support controllers/groups of controllers to enable seamless mobility, and a high availability experience across Wi-Fi solutions in the event of failure or significant high density.		
2.7	Support deep visibility into the network like RF health metrics, app utilization, device type and user data in an easy-to-integrate open supportive format.		
2.8	If Hardware based, Wireless solution appliances should support minimum 2x10Gbps data SFP/SFP+/UTP		
2.9	Support dynamic RF management that provides the capability to do channel scanning.		
2.10	Support an ability to dynamically adjust channel and power settings based on the RF environment.		
2.11	The wireless solution should provide real-time charts/logs showing interference per access point, on a per- radio, per-channel basis.		
2.12	The Wi-Fi AP and Controller should have the latest version/generation of software/os/firmware from the OEM.		
2.13	The controller should support new AP hardware. Any new software upgrade required should be done without any downtime requirement.		
3	Quality of Service		
	General Features:		
3.1	Priorities traffic for different applications.		
3.2	Self-healing (on detection of RF interference or loss of RF coverage).		
3.3	Dynamic load balancing to automatically distribute clients to the least loaded 802.11 channel and AP.		
3.4	Support fast roaming feature.		
3.6	Support band steering where 5 GHz clients preferred to connect over 5Ghz Radio to provide better load balancing among 2.4Ghz and 5Ghz Radios.		
3.7	Encryption/decryption of 802.11 packets should be able to perform at the controller level.		
3.8	Supports smarter roaming and load balancing behavior and is supported on both IPv4 and IPv6 networks.		



4	Inline Security Features		
4.1	Secure Guest Portal: Solution Should support local web-based authentication; Access (hotspot URL redirection for user login; provisioning): customization login/welcome pages. This portal should facilitate a simple process to create short-lived guest IDs and passwords which expire automatically. Support for the creation of logins for attendees of short events, such as conferences, should also be supported.		
4.2	Should allow authenticated client devices to roam securely from one access point to another AP within or across subnets. There should not be any perceptible delay during re-association.		
4.3	The solution should provide features to detect and mitigate interference from Wi-Fi.		
4.4	Support 802.11e WMM, U-APSD, TSPEC, CAC, QBSS, Proxy ARP		
4.5	Support automatic channel selection for interference avoidance.		
4.6	Support to permit non-essential traffic while preventing it from overwhelming mission-critical applications.		
4.7	Support Rogue AP detection and protection.		
4.8	Support comprehensive integrated security features that include layer 2-7 deep packet inspection.		
4.9	Support wireless IPS functionality.		
4.10	Support IP filtering policies or ACL.		
4.11	Support application awareness to WLANs to prioritize applications for each user.		
4.12	Support Radius, LDAP and Single Sign-On (SSO) integration.		
4.13	The solution should provide options for profiling devices and mapping specific VLANs.		
4.14	Support L2 client isolation so users cannot access each other's devices. Isolation should have the option to apply per SSID.		
5	Authentication		
5.1	Support IEEE 802.1X authentications.		
5.2	Support External AAA servers: RADIUS, LDAP and Active Directory and SSO.		
5.3	Support Web-based authentication and Portal base.		
5.4	Support Open, 802.1x, EAP, EAP-TLS, EAP-SIM, EAP-TTLS, EAP-AKA, PEAP, EAP-MD5, EAP-FAST, PSK, WPA, WPA2-AES, WEP, WPA3 and enhance security.		



6	Client Management		
6.1	The solution should provide a guest login portal.		
6.2	The proposed wireless controller should have a built-in captive portal option for guest onboarding.		
6.3	Support user management features like rate limiting and user profile per WLAN/User etc.		
7	Licenses, Warranty and Support		
7.1	The proposed solution along with Access points must be supported for a minimum of 3 Years by the OEM/Bidder.		
7.2	OEM should have an India toll free Technical Assistance Center (TAC) number, India Research and Development (R&D) Center and Support depot in India.		
7.3	OEM should have at least 5 Technical Assistance Center (TAC) engineers in INDIA on OEM payroll for the last 3 years.		
7.4	The proposed WiFi solution must have all the above feature hardware/software and licensing from day one and must be Enterprise-grade.		
7.5	The proposed controllers should be enabled with all the required licenses to enable features or functionalities mentioned in RFP. All back-to-back NBD contract hardcopy or softcopy should be shared with customer.		
7.6	OEM should be in Reputed/Gartner Leaders quadrant in wired and wireless for 3 years atleast		
8	Hardware/Software Features		
8.1	Support redundant controllers to maximize performance and availability with 100% redundancy.		
8.2	Redundancy should be based on industry-standard protocol.		
8.3	Support hardware/software encrypted data plane between Access Point and Controller.		
8.4	Support 802.11ax (Wi-Fi 6), WPA3 and existing standards with enhanced open standards or equivalent.		
8.5	The wireless solution should support Active/Active (1:1) or Active/Standby (1+1) or N+1 High Availability Deployment Modes.		
8.6	In case of Hardware Controller, Wireless solution controllers should be rack-mountable 2U or less.		
8.7	In case of Hardware Controller, Should support Redundant Power Supply.		



9	Scalability Features		
9.1	The proposed solution should support 500 access points from day one without any hardware/software upgrades.		
9.2	In case of Hardware Controller, Support RJ-45 or USB compatible console port.		
9.3	Support Command-line interface: Telnet/Secure Shell (SSHv1, SSHv2) Protocol or Serial port.		
9.4	Support Web-based: HTTP/HTTPS.		
9.5	Support Simple Network Management Protocol: SNMPv1, SNMPv2c, SNMPv3.		
9.6	Support FTP or Trivial File Transfer Protocol (TFTP).		
9.7	Support SFTP or SCP.		
9.8	Support Event Logging (Syslog) and remote server logging.		
9.9	Support IPv6 and IPv4 from day one.		
9.10	Support Built-in Wireless/RF optimization.		
9.11	Supportability to capture packets from any interface on the access points (like Ethernet, radio, VLAN, etc.)		
9.12	The solution should support Client health for real-time client performance metrics, connectivity, traffic, signal-to-noise ratio (SNR) and data rate, as well as historical traffic, to help troubleshoot connectivity problems.		
10	Indoor Wireless Access Point (WAP) Specifications		
10.1	The Solution should support 20Mhz or 40Mhz or both channel widths on 2.4Ghz and 20Mhz/40Mhz/80Mhz/160Mhz channel width on 5Ghz with aggregate data rate 4.5 Gbps or more.		
10.2	The proposed indoor access point shall be 802.11ax compliant with support for 4x4:4 MUMIMO on 5Ghz radio and additional 3rd radio for WIPS dedicated sensor. If vendor doesn't support tri-radio setup , they should provide additional AP as dedicated sensor in 1(sensor):2(AP) ratio		
10.3	The solution should support Multi-User MIMO (MU-MIMO) Technology to maximize throughput along with support for four spatial streams on both radios.		
10.4	Support radio technologies 802.11b(DSSS), 802.11 a/g/n/ac(OFDM), 802.11ax(OFDMA).		
10.6	Supported modulation types: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM.		

10.7	Support WPA3 and Enhanced Open security or equivalent		
10.8	Support IEEE 802.11ax or WiFi-6 standard from day one.		
10.9	Support 802.3af/at/btPoE/PoE+ or equivalent standard which must support 802.11ax AP with full functionality.		
10.1	Support OFDMA to reduce overhead and latency.		
10.11	Should support target wait time (TWT) to improve network efficiency and device battery life.		
10.12	Support Built-in technology that resolves sticky client issues for Wi-Fi 6 devices.		
10.13	Support telnet or SSH login to APs directly for troubleshooting flexibility.		
10.14	Support simple policy management which is applied based on user role, and applications.		
10.15	The proposed solution should support SSL/IPSec VPN/CAPWAP/PAPI tunnel or equivalent.		
10.16	Support both ceiling and wall mounting options along with safety mechanisms set from theft.		
10.17	Operating channels should be as allowed by the regulatory domain in India.		
10.18	Transmit Power increments as per regulatory domain.		
10.19	The proposed indoor AP should support a 100/1000/2500 BASE-T (RJ-45) Mbps LAN port.		
10.20	Support -94 dBm or better Receiver Sensitivity.		
10.21	The proposed access point should support the option of an external POE Injector or external power adapter.		
10.22	Support minimum 4dBi Antenna gain or more on each radio. Vendor can achieve the same using external antenna		
10.23	Support a minimum of 20dbm of transmit power in both 2.4Ghz and 5Ghz radios and should follow the Indian regulatory Norms.		
10.24	Support to operate minimum at 0 to 50 degree celsius temperatures.		
10.25	Support packet capture, RF sensing capabilities.		
10.26	Support AP enforced load-balance between 2.4Ghz and 5Ghz band.		
10.27	Support incorporates radio resource management for power, channel and performance optimization.		



10.28	Support Proactive Key Caching or other methods for Fast Secure Roaming.		
10.29	Support Management Frame Protection (802.11w).		
10.30	Support the ability to serve clients and monitor the RF environment concurrently.		
10.31	Support 802.11e and WMM (Wi-Fi Multimedia).		
10.32	Support QoS and Video Call Admission Control capabilities.		
10.33	Support transmit beamforming to increase signal reliability and range.		
10.34	Support Transmit power: Configurable in increments range of 0.5dBm - 1.0 dBm OR defined percentage/Integer value		
10.35	Support for console port RJ-45 or USB compatible.		
10.36	Should support integration with cloud directly or via controller if required in future.		
11	WIDS AND WIPS		
11.1	Support network security to detect & contain intrusion or threat on your wireless network.		
11.2	Support hardware/software to implement WIDS / WIPS from day One.		
11.3	Support to detect of Rogue AP and take automatic /manual action to prevent the rogue AP.		
11.4	Support to detect Unsanctioned BSS		
11.5	Support to detect virtual WIFI / hotspot		
11.6	Support to detect Rogue AP on sensor segment		
11.7	Support to detect of Rogue Client and take automatic /manual action to prevent the rogue client.		
11.8	The proposed WIFI solution must have all the above feature licensing from day one and must be Enterprise-grade.		
11.9	Support basic compliance reporting.		
11.10	Support functionality on centralized traffic forwarding mode from AP.		

22. Two-Bid System - Bidders are required to furnish clause by clause compliance of specifications bringing out clearly the deviations from specification, if any. The Bidders are advised to submit the compliance statement in the following format along with Technical Bid-

Para of RFP specifications item-wise	Specification of item offered	Compliance to RFP specification – whether Yes / No	In case of noncompliance, deviation from RFP to be specified in unambiguous terms
21			

23. Delivery Period - Delivery period for supply of items would be eight weeks from the effective date of contract. Please note that Contract can be cancelled unilaterally by the Buyer in case items are not received within the contracted delivery period. Extension of contracted delivery period will be at the sole discretion of the Buyer, with applicability of LD clause.

24. Penalty for Delay in Delivery – If the Seller failed to supply the items within the stipulated time, a penalty of 2% of Contract amount per week will be imposed upto max 10%. Retendering of contract will be done after 08 weeks or on receipt of refusal letter/message from L1 bidder.

25. Installation, Commissioning & Training- Installation, Commissioning and Training would be within two weeks from the effective date of delivery.

26. Consignee Details.

Project Office
Army Institute of Technology,
Dighi, Alandi Road
Pune – 411 015

Tele : 7249250184/185 Extn 2106
Email: project@aitpune.edu.in



Part III – Standard Conditions of RFP

The Bidder is required to give confirmation of their acceptance of the Standard Conditions of the Request for Proposal mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. Failure to do so may result in rejection of the Bid submitted by the Bidder.

27. Law: The Contract shall be considered and made in accordance with the laws of the Republic of India. The contract shall be governed by and interpreted in accordance with the laws of the Republic of India.

28. Effective Date of the Contract: The contract shall come into effect on the date of signatures of both the parties on the contract (Effective Date) and shall remain valid until the completion of the obligations of the parties under the contract. The deliveries and supplies and performance of the services shall commence from the effective date of the contract.

29. Arbitration: All disputes or differences arising out of or in connection with the Contract shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the Contract or relating to construction or performance, which cannot be settled amicably, may be resolved through arbitration. In all these matters the decision of the Director, AIT shall be final and binding.

30. Non-disclosure of Contract documents: Except with the written consent of the Buyer/ Seller, other party shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

31. Liquidated Damages: In the event of the Seller's failure to submit the Bonds, Guarantees and Documents, supply the stores/goods and conduct trials, installation of equipment, training, etc as specified in this contract, the Buyer may, at his discretion, withhold any payment until the completion of the contract. The BUYER may also deduct from the SELLER as agreed, liquidated damages to the sum of 1% of the contract price of the delayed/undelivered stores/services mentioned above for every week of delay or part of a week, subject to the maximum value of the Liquidated Damages being not higher than 5% of the value of delayed stores.

32. Termination of Contract: The Buyer shall have the right to terminate this Contract in part or in full in any of the following cases :-

- (a) The delivery of the material is delayed for causes not attributable to Force Majeure for more than (12 weeks) after the scheduled date of delivery.
- (b) The Seller is declared bankrupt or becomes insolvent.
- (c) The delivery of material is delayed due to causes of Force Majeure by more than (15 Weeks) provided Force Majeure clause is included in contract.



(d) The Buyer has noticed that the Seller has utilised the services of any Indian/Foreign agent in getting this contract and paid any commission to such individual/company etc.

(e) As per decision of the Arbitration Tribunal.

33. Transfer and Sub-letting: The Seller has no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof.

34. Patents and other Industrial Property Rights: The prices stated in the present Contract shall be deemed to include all amounts payable for the use of patents, copyrights, registered charges, trademarks and payments for any other industrial property rights. The Seller shall indemnify the Buyer against all claims from a third party at any time on account of the infringement of any or all the rights mentioned in the previous paragraphs, whether such claims arise in respect of manufacture or use. The Seller shall be responsible for the completion of the supplies including spares, tools, technical literature and training aggregates irrespective of the fact of infringement of the supplies, irrespective of the fact of infringement of any or all the rights mentioned above.

35. Amendments: No provision of present Contract shall be changed or modified in any way (including this provision) either in whole or in part except by an instrument in writing made after the date of this Contract and signed on behalf of both the parties and which expressly states to amend the present Contract.

36. Taxes and Duties

(a) General

(i) If Bidder desires to ask for excise duty or GST extra, the same must be specifically stated. In the absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same will be entertained.

(ii) If reimbursement of any Duty/Tax is intended as extra over the quoted prices, the Bidder must specifically say so. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of such duty/tax will be entertained after the opening of tenders.

(iii) If a Bidder chooses to quote a price inclusive of any duty/tax and does not confirm inclusive of such duty/tax so included is firm and final, he should clearly indicate the rate of such duty/tax and quantum of such duty/tax included in the price. Failure to do so may result in ignoring of such offers summarily.

(iv) If a Bidder is exempted from payment of any duty/tax upto any value of supplies from them, he should clearly state that no such duty/tax will be charged by him up to the limit of exemption which he may have. If any concession is available in regard to rate/quantum of any Duty/tax, it should be brought out clearly. Stipulations like, the said duty/tax was presently not applicable but the same will be charged if it becomes leviable later on, will not be accepted unless in such cases it is clearly stated by a Bidder that such duty/tax will not be charged by him even if the same becomes applicable later on. In respect of the Bidders, who fail to comply with this requirement, their quoted prices shall be loaded with the quantum of such duty/tax which is normally applicable on the item in question for the purpose of comparing their prices with other Bidders.



(v) Any change in any duty/tax upward/downward as a result of any statutory variation in excise taking place within contract terms shall be allowed to the extent of actual quantum of such duty/tax paid by the supplier. Similarly, in case of downward revision in any duty/tax, the actual quantum of reduction of such duty/tax shall be reimbursed to the Buyer by the Seller. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the Seller.

(b) Customs Duty (If applicable)

(vi) For imported stores offered against forward delivery, the Bidder shall quote prices thereof exclusive of customs duty. The Bidder shall specify separately the C.I.F. prices and total amount of customs duty payable. They will also indicate correctly the rate of customs duty applicable along with Indian Customs Tariff Number. Customs duty as actually paid will be reimbursed on production of necessary documents i.e. (i) Triplicate copy of the bill of entry; (ii) copy of bill of lading; (iii) a copy of foreign principal's invoice. However, if the Bidder imports the stores in question against his own commercial quota Import Licences, he will also be required to submit in addition the triplicate copy of bills of entry etc. a certificate from his Internal Auditor on the bill itself, to the effect that the following items/quantity in the bill of entry related to the stores imported against Defence Buyer contract number..... dated.....

(vii) Subsequent to the reimbursement of customs duty, the Bidder will submit to the concerned Payment Authority a certificate to the effect that he has not obtained any refund of customs duty subsequent to the payment of duty to the Customs authority by him. In addition, he shall also submit to the Paying Authority concerned a certificate immediately after a period of three months from the date of payment of the duty to customs authorities to the effect that he has not applied for refund of the customs duty subsequent to the payment of duty to the customs authorities by him.

(viii) In case the Bidder obtains any refund of customs duty, subsequently to the payment of the same by him to the customs authorities and reimbursement of the customs duty to him by the Payment Authority, he should forthwith furnish the details of the refund obtained and afford full credit of the same to the Buyer.



Part IV – Special Conditions of RFP

37. The Bidder is required to give confirmation of their acceptance of Special Conditions of the RFP mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. Failure to do so may result in rejection of Bid submitted by the Bidder.

38. Performance Guarantee: - The Bidder will be required to furnish a Performance Guarantee by way of Bank Guarantee through a public sector bank or a private sector bank authorized to conduct government business (ICICI Bank Ltd., Axis Bank Ltd or HDFC Bank Ltd.) for a sum equal to 5% of the contract value within 30 days of receipt of the confirmed order. Performance Bank Guarantee should be valid up to 60 days beyond the date of warranty.

39. Payments for supplies will be made direct to the supplier by NEFT only and on verification by a board of officers detailed by Buyer. Payment Terms for Sellers is given below: -

- (a) 70% of the cost of material supplied will be released after delivery of the items & licence.
- (b) 25% will be released after completion of installation.
- (c) Balance amount will be released after successful training and completion except Security Deposit/ Performance Guarantee whichever is applicable. .

40. Risk & Expense clause -

(a) Should the stores or any instalment thereof not be delivered within the time or times specified in the contract documents, or if defective delivery is made in respect of the stores or any instalment thereof, the Buyer shall after granting the Seller 45 days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.

(b) Should the stores or any instalment thereof not perform in accordance with the specifications / parameters provided by the SELLER during the check proof tests to be done in the BUYER's country, the BUYER shall be at liberty, without prejudice to any other remedies for breach of contract, to cancel the contract wholly or to the extent of such default.

(c) In case of a material breach that was not remedied within 45 days, the BUYER shall, having given the right of first refusal to the SELLER be at liberty to purchase, manufacture, or procure from any other source as he thinks fit, other stores of the same or similar description to make good:-

(i) Such default.

(ii) In the event of the contract being wholly determined the balance of the stores remaining to be delivered thereunder.

(d) Any excess of the purchase price, cost of manufacturer, or value of any stores procured from any other supplier as the case may be, over the contract price appropriate to such default or balance shall be recoverable from the SELLER. Such recoveries shall not exceed 10% of the value of the contract."

41. Force Majeure clause.

(a) Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of goods under the provisions of the present



contract), if the non-performance results from such Force Majeure circumstances as Flood, Fire, Earth Quake and other acts of God as well as War, Military operation, blockade, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after the conclusion of the present contract.

(a) In such circumstances the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of time of action of these circumstances and their consequences.

(b) The party for which it becomes impossible to meet obligations under this contract due to Force Majeure conditions, is to notify in written form the other party of the beginning and cessation of the above circumstances immediately, but in any case not later than 10 (Ten) days from the moment of their beginning.

(d) Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organization of the respective country shall be a sufficient proof of commencement and cessation of the above circumstances.

(e) If the impossibility of complete or partial performance of an obligation lasts for more than 6 (six) months, either party hereto reserves the right to terminate the contract totally or partially upon giving prior written notice of 30 (thirty) days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in the agreement for the goods received.

42. Specification. The following Specification clause will form part of the contract placed on successful Bidder - The Seller guarantees to meet the specifications as per Part-II of RFP and to incorporate the modifications to the existing design configuration to meet the specific requirement of the Buyer Services as per modifications/requirements recommended after the Maintenance Evaluation Trials. All technical literature shall be amended as the modifications by the Seller before supply to the Buyer. The Seller, in consultation with the Buyer, may carry out technical alterations in the specifications due to change in manufacturing procedures, indigenisation or obsolescence. This will, however, not in any way, adversely affect the end specifications of the equipment. Changes in technical details / alterations will be provided to the Buyer free of cost within 10 working days of affecting such upgradation/alterations.

43. Quality. The quality of the stores delivered according to the present Contract shall correspond to the technical conditions and standards valid for the deliveries of the same stores for in Seller's country or specifications enumerated as per RFP and shall also include therein modification to the stores suggested by the Buyer. Such modifications will be mutually agreed to. The Seller confirms that the stores to be supplied under this Contract shall be new i.e. not manufactured before (Year of Contract), and shall incorporate all the latest improvements and modifications thereto and spares of improved and modified equipment are backward integrated and interchangeable with same equipment supplied by the Seller in the past if any. The Seller shall supply an interchangeability certificate along with the changed part numbers wherein it should be mentioned that item would provide as much life as the original item.

44. Quality Assurance. Seller would provide the Standard Acceptance Test Procedure (ATP) within 1 month of this date of contract. Buyer reserves the right to modify the ATP. Seller would be required to provide all test facilities at his premises for acceptance and inspection by Buyer. The details in this regard will be coordinated during the negotiation

of the contract. The item should be of the latest manufacture, conforming to the current production standard and having 100% defined life at the time of delivery.

45. Inspection Authority. The Inspection will be carried out by Board of Officers appointed by Buyer.

46. Pre-Dispatch Inspection. The Pre-Dispatch Inspection will be carried out where applicable by Board of Officers appointed by Buyer.

47. Franking clause. The following Franking clause will form part of the contract placed on successful Bidder –

a. Franking Clause in the case of Acceptance of Goods “The fact that the goods have been inspected after the delivery period and passed by the Inspecting Officer will not have the effect of keeping the contract alive. The goods are being passed without prejudice to the rights of the Buyer under the terms and conditions of the contract”.

b. Franking Clause in the case of Rejection of Goods “The fact that the goods have been inspected after the delivery period and rejected by the Inspecting Officer will not bind the Buyer in any manner. The goods are being rejected without prejudice to the rights of the Buyer under the terms and conditions of the contract.”

48. Warranty and Maintenance -

(a) Warranty. Vendors will provide free onsite comprehensive warranty for the complete items for a minimum period of three years as provided by OEM. During the warranty, the vendor will repair/ replace without any cost any part/accessory, which becomes, defective. During the warranty period all warranty benefits received by vendor from the OEMs, for any part pertaining to third parties will be passed on in to the Customer. The Customer may invoke the bank guarantee in case vendor fails to ensure rectification of defects within one week of the defect being intimated. Items of consumable nature that may not be replaced free on account of defect/malfunction must be specified clearly in the offer. Failure to provide this Information shall be treated as all items components consumables are covered under warranty.

(b) Maintenance during Warranty. In order to ensure functionality of system supplied during warranty period, vendor shall provide System maintenance support for wi-fi access points and wi-fi controller. Vendor will provide the following: -

i. Vendor will ensure that the wi-fi access points and wi-fi controller continues perform in exactly the same manner as at the time of acceptance.

ii. Maintenance. Maintenance of items should be onsite. Customer may approve if any equipment is required to be move out of site for repairs at the request of vendor. On site vendor will carry out preventive maintenance once every 3 months during warranty period.

49. Support beyond Warranty Period. In order to ensure functionality of wi-fi access points and wi-fi controller during the life time vendor shall guarantee to provide support for this entire duration.

50. Conditions during Warranty. The vendor should fulfil the following conditions during the warranty :-



- (a) Any failure in the wi-fi access points and wi-fi controller or any part thereof should be rectified within a maximum period of 24 hours of lodging a complaint.
- (b) If any wi-fi access point and wi-fi controller is out of order beyond 48 hours, penalty at the rate of Rs 500/- (Rs Five hundred only) per day will be charged or recovered out of the Bank Guarantee held towards the warranty. In case of any system/sub system being down for more than seven working days, Customer has the option to get it repaired from any suitable agency at the risk and cost to be borne by the vendor, which will be deducted from the Bank Guarantee due to vendor.
- (c) Any failure at three times within a period of three months or displaying chronic faulty behaviour or manufacturing defects or quality control problems will be totally replaced by the vendor at his risk and cost within 30 days of being intimated.

Part V – Evaluation Criteria & Price Bid issues

51. Evaluation Criteria - The broad guidelines for evaluation of Bids will be as follows:

- (a) Only those Bids will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the RFP, both technically and commercially.
- (b) In respect of Two-Bid system, the technical Bids forwarded by the Bidders will be evaluated by the Buyer with reference to the technical characteristics of the equipment as mentioned in the RFP. The compliance of Technical Bids would be determined on the basis of the parameters specified in the RFP. The Price Bids of only those Bidders will be opened whose Technical Bids would clear the technical evaluation.
- (c) The Lowest Bid will be decided upon the lowest price quoted by the particular Bidder as per the Price Format given at Para 2 below. The consideration of taxes and duties in evaluation process will be as follows:
- i. In cases where only indigenous Bidders are competing, all taxes and duties (including those for which exemption certificates are issued) quoted by the Bidders will be considered. The ultimate cost to the Buyer would be the deciding factor for ranking of Bids.
 - ii. In cases where both foreign and indigenous Bidders are competing, following criteria would be followed –
 - (aa) The Bidders are required to spell out the rates of GST, Customs duty etc in unambiguous terms; otherwise their offers will be loaded with the maximum rates of duties and taxes for the purpose of comparison of prices. If reimbursement of GST/Customs duty is intended as extra, over the quoted prices, the Bidder must specifically say so. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of such duties will be entailed after the opening of tenders. If a Bidder chooses to quote a price inclusive of any duty and does not confirm inclusive of such duty so included is firm and final, he should clearly indicate the rate of such duty and quantum of excise duty included in the price. Failure to do so may result in ignoring of such offers summarily. If a Bidder is exempted from payment of Customs duty / Excise Duty / GST duty upto any value of supplies from them, they should clearly state that no excise duty will be charged by them up to the limit of exemption which they may have. If any concession is available in regard to



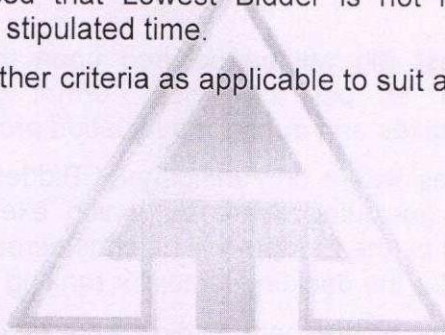
rate/quantum of Customs duty / Excise Duty / GST, it should be brought out clearly. Stipulations like, excise duty was presently not applicable but the same will be charged if it becomes leviable later on, will not be accepted unless in such cases it is clearly stated by a Bidder that excise duty will not be charged by him even if the same becomes applicable later on. In respect of the Bidders who fail to comply with this requirement, their quoted prices shall be loaded with the quantum of excise duty which is normally applicable on the item in question for the purpose of comparing their prices with other Bidders. The same logic applies to Customs duty and GST also.

(ab) 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 will prevail and the total price will be corrected. If there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.

(ac) The Lowest Acceptable Bid will be considered further for placement of contract / Supply Order after complete clarification and price negotiations as decided by the Buyer. The Buyer will have the right to award contracts to different Bidders for being lowest in particular items. The Buyer also reserves the right to do Apportionment of Quantity, if it is convinced that Lowest Bidder is not in a position to supply full quantity in stipulated time.

(ad) Any other criteria as applicable to suit a particular case.

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Onward to Glory

52. Price Bid Format: The Price Bid Format is given below and Bidders are required to fill this up correctly with full details, as required under part – II of RFP.

(a) Basic cost of the item/items:

S/No	Specifications	Qty	Rate	Amount
(a)	Procurement of Wi-Fi Controllers and Wi-Fi Access Points for Hostels in AIT	As per Para – 21 of Part –II of this tender document		
Total Basic Cost				
Total Basic Cost (Amt in words)				

(b) Any other item - Rs - _____/-

(c) **Grand Total of above** : Rs - _____/-

(d) GST Amount (If applicable) - Rs - _____/-

Grand Total of above (In words) –

Note – Determination of L1 vendor will be done based on Grand total of Basic Price [(a) to (c)] (not including GST).

Onward to Glory

AIT/0810/65/2023-24/Proj

Dated : 28 Jun 2023



(MK Prasad)
Col
Jt Director