Pre-Bid Clarifications for RFP No. APSFL-15026(31)/1/2018 , Dated: 24/07/2018

S. No	RFP Part No.	Section	Page No	Existing Clause	Query / Suggestion	APSFL Clarification
1	8.Scope of Work		18	APSFL has identified a monetization partner (Google Station) for providing monetization and management platform. The bidder must ensure that the Access point and controller hardware and software proposed by the bidder must have advance certification from Google for use with the Google Station Wi-Fi solution.	APSFL has identified a monetization partner (Google Station) for providing monetization and management platform. The bidder must ensure that the Access point and controller hardware and software proposed by the bidder must have advance certification from Google for use with the Google Station Wi-Fi solution (or) in case of Non Availability of the Certification the same can be provided during the implementation stage.	New Clause: "APSFL has identified a monetization partner (Google Station) for providing monetization and management platform. The bidder must ensure that the Access point and controller hardware and software proposed by the bidder must have advance certification from Google for use with the Google Station Wi-Fi solution (or) **in case of Non Availability of the Certification at the time of bidding, the same can be provided before the signing of MSA failing which the order will be cancelled." Refer Corrigendum 4**
2	11.1 PRE-QUALIFICATION BID EVALUATION CRITERIA	Important Note(s):	25	b). The OEM must have installation base of minimum 4000 APs in India in Govt or public sector or banks or Telecom sector	We reqeust you to Modify OEM must have installation base of minimum 40,000 APs in India in Govt or public sector or banks or Telecom sector. Also request you to consider the Claue if "Offered WiFi Produtcs must be listed in the latest Gartner Leaders Quadrant"	No change
3	13.8.2.2.1 Indoor Access Point	9	67	Anteena gain should be minimum 3.5 dBi and 6.9 dBi for 2.4 GHz and 5.8 GHz respectively.	Anteena gain should be minimum 3.3 dBi and 5.9 dBi for 2.4 GHz and 5.8 GHz or higher	New Clause: "Anteena gain should be minimum 3.3 dBi and 5.9 dBi for 2.4 GHz and 5.8 GHz or higher". Refer Corrigendum 4
4	13.8.2.2.1 Indoor Access Point	10	67	Rx sensitivity shall be -93dBm or better at MCS0 and 20MHz channel bandwidth.	Rx sensitivity shall be -90dBm or better at MCS0 and 20MHz channel bandwidth.	New Clause: "Rx sensitivity shall be -90dBm or better at MCS0 and 20MHz channel bandwidth. ". Refer Corrigendum 4
5	13.8.2.2.1 Indoor Access Point	21	67	The Access point shall support Operating: - Temperature: 0° C to +50°	The Access point shall support Operating: - Temperature: 0° C to +40°	New Clause: "The Access point shall support Operating: - Temperature: 0° C to +40° ". Refer Corrigendum 4
6	13.8.2.2.1 Indoor Access Point	22	67	Must support direct 100-240 V AC/DC, and one of PoE or PoE+ to power up access point	Must support direct 100-240 V AC/DC or one of PoE or PoE+ to power up access point	No change. We need both
7	13.8.2.2.2 Outdoor Access Point	10	68	Antenna gain should be minimum 4 and 4.6 dBi for 2.4GHz and 5.8GHz respectively.	Antenna gain should be minimum 2.7 dBi @ 2.4 GHz and 4.3 dBi @ 5.x GHz respectively	No change. 2.7dbi is too low for outdoor
8	13.8.2.2.2 Outdoor Access Point	11	68	Rx sensitivity shall be minimum -92 dBm or better at MCS0 and 20MHz channel bandwidth.	Rx sensitivity shall be minimum -91 dBm or better	New Clause: "Rx sensitivity shall be minimum -91 dBm or better ". Refer Corrigendum 4

9	13.8.2.2.2 Outdoor Access Point	23	69	The Access point shall support operating temperature of -40° C to +65° C	Temperature: -40° C to +55° C	No change. We need 65 degrees
10	13.8.2.2.2 Outdoor Access Point		68&69	New:Clause	Access Point should support 867 Mbps in 5 Ghz and 400 Mbps in 2.4 Ghz	No change
11	13.8.2.2.2 Outdoor Access Point		68&69	New:Clause	Should support identifing Rough AP's and Rough client radios and be able to block their trafic being generated on WLAN spectrum	No change
12	13.8.2.2.2 Outdoor Access Point		68&69	New:Clause	AP should have built in Advance Cellular Filtering for co-existence with DAS day one	No change
13	13.8.2.2.2 Outdoor Access Point		68&69	New:Clause	Should support realtime built-in spectrum analysis	New Clause: "Should support realtime built-in spectrum analysis ". Refer Corrigendum 4
14	13.8.2.2.2 Outdoor Access Point		68&69	New:Clause	Access Point should support CleanAir	New Clause: "Access Point should support CleanAir ". Refer Corrigendum 4
15	13.8.2.2.2 Outdoor Access Point		68&69	New:Clause	Access Point should Support Inbuilt BLE	No change
16	13.8.2.2.2 Outdoor Access Point		68&69	New:Clause	AP should achieve fully omini direction in any positing of Mounting.	No change
17	13.8.2.2.2 Outdoor Access Point		68&69	New:Clause	Should have built in console port for management of AP	New Clause: "Should have built in console port for management of AP ". Refer Corrigendum 4
18	13.8.2.3 Access Edge Switch	1	69	Minimum 8 ports 10/100/1000/TX PoE/PoE+, capable of simultaneously sourcing all four ports at full power level for the respective PoE mode.	"Minimum 8 ports 10/100/1000/TX PoE/PoE+ port and two SFP+ UPlink ports, capable of simultaneously sourcing atleast four ports at full power level for the respective PoE+ mode.	No Change
19	13.8.2.3 Access Edge Switch	2	69	PoE Standard IEE 802af or IEEE 802at 3- IPV4, IPV6 Support	PoE Standard IEE 802af or IEEE 802at IPV4, IPV6 Support	New Clause: "PoE Standard IEE 802.3af or IEEE 802.3at IPV4, IPV6 Support". Refer Corrigendum 4
20	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 2	65	The controller can be a hardware appliance/multiple appliances or software-based controller. In case software-based controller is being proposed, the controller shall be compatible with a commercial cloud service platform such as Google Cloud Platform or Amazon Web Services.	Request to change to:The controler should be a hardware appliance.	New Clause: "The controller can be a hardware appliance/multiple appliances or software-based controller. In case software-based controller is being proposed, the controller shall be compatible with a commercial cloud service platform such as Google Cloud Platform or Amazon Web Services and the vendor has to supply the hardware node to host their controller software.". Refer Corrigendum 4
21	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 3	65	For management and monitoring operations, the controller must provide a web interface, command-line interface, and APIs.	Request to change to:For management and monitoring operations, the solution must provide a web interface, command-line interface, and APIs/snmp integration.	No change. API NBI is mandatory

22	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 12	66	The controller shall be able to raise critical alarms by sending an email and via SNMP V3 traps. The email client on the controller should support SMTP outbound authentication and TLS encryption.	Request to change to "The Wireless Solution shall be able to raise critical alarms by sending an email and via SNMP V3 traps"	New Clause:"The Wireless Solution shall be able to raise critical alarms by sending an email and via SNMP V3 traps securely.". Refer Corrigendum 4
23	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 16	66	The controller and APs shall support tunneling modes for dataplane communications: one in which individual APs tunnel data directly to a Wireless Access Gateway (WAG) via SoftGRE/IPv4 or SoftGRE/IPv6, and a second mode in which the APs tunnel data to the controller using an encrypted protocol. In the second mode, data traffic is then aggregated and tunneled in a smaller set of tunnels from the controller(s) to a WAG. In the second mode, the tunneling protocol between the APs and the controller may be vendor-proprietary.	Request to change to: The controller and APs shall support tunneling modes for dataplane communications: It should also support integration with WAG via Softgre/ipv4 or Softgre/ipv6 or EoGRE.	New Clause: "The controller and APs shall support tunneling modes for dataplane communications: one in which individual APs tunnel data directly to a Wireless Access Gateway (WAG) via SoftGRE/EoGRE (Both IPv4 and IPv6)." Refer Corrigendum 4
24	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 18	66	If in the dataplane, the AP controller shall support northbound dataplane tunneling over SoftGRE/IPv4	Request to change to: : If in the dataplane, the AP controller shall support northbound dataplane tunneling over SoftGRE/IPv4 or EoGRE	New Clause:"If in the dataplane, the AP controller shall support northbound dataplane tunneling over SoftGRE/EoGRE(IPv4)". Refer Corrigendum 4
25	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 19	66	If in the dataplane, the AP controller shall support northbound dataplane tunneling over SoftGRE/IPv6	Request to change to: If in the dataplane, the AP controller shall support northbound dataplane tunneling over SoftGRE/IPv6 or EoGRE	New Clause: "If in the dataplane, the AP controller shall support northbound dataplane tunneling over SoftGRE/EoGRE(IPv6)"
26	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 26	66	Protection for denial of service or D-DoS attacks	Request to change to: Detection for denial of service or D-DoS attacks	No change
27	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 35	67	The Proposed Solution should able to push notification at any given time to the end user device.	Request to delete clause:	No change
28	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.1 WLAN Controller ,clause 36	67	The system shall offer open API to integrate mobile App, to integrate proximity-based service, like push notification service	Request to delete clause: Justification:Push notification is not a controller function.This would require a broader scope of work with multiple external components.. Hence request to delete the same.	No change. It is not controller function but the requirement asked here is to expose API so that and external application handle that.
29	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.2 Access Point Technical Specifications, Clasue 3	67	It should be compatible and be able to integrate with the Cloud based Controller. Must support SSH & SNMP protocol for local or remote access to device through CLI or GUI.	**Request to change to:** It should be compatible and be able to integrate with a on-prem controller appliance. Must support SSH & SNMP protocol for local or remote access to device through CLI or GUI.	New Clause: "It should be compatible and be able to integrate with the Cloud based Controller hosted on premises. Must support SSH & SNMP protocol for local or remote access to device through CLI or GUI."

30	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.2.1 IndoorAccessPoint, Clasue 9	67	Antenna gain should be minimum 3.5 dBi and 6.9 dBi for 2.4GHz and 5.8GHz respectively.	**Request to change to:**Antenna gain should be minimum 2 dBi and 4 dBi for 2.4GHz and 5.8GHz respectively.	No change
31	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.2.1 IndoorAccessPoint, Clasue 8	67	Must support up to 21dbm or higher of EIRP transmit power	Request to change to" Must support up to 20dbm or higher of EIRP transmit power".	New Clause: "Must support up to 20dbm or higher of EIRP transmit power"
32	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.2.1 IndoorAccessPoint, Clasue 21	68	The Access point shall support operating temperature of 0° C to +50° C	**Request to change to:** The Access point shall support operating temperature of 0° C to +40° C	New Clause: "The Access point shall support operating temperature of 0° C to +40° C". Refer Corigendum 4.
33	13.8 ANNEXURE-VIII – FUNCTIONAL AND TECHNICAL SPECIFICATIONS FOR WI-FI NETWORK	13.8.2.2.2 OutdoorAccessPoint, Clasue 9	68	Must support upto 28dbm or higher of EIRP transm	Request to change to "Must support upto 32dbm or higher of EIRP transmit power"	No Change