Technical Specifications of HP Aruba AP 535
RFx No. 6100001029 (Reference No. 1000024135)

Sr. No	Specifications
1	Access Point radio should be minimum 4x4 MIMO with 4 spatial streams on 5ghz and 4x4 MIMO with 4 spatial streams on 2.4 Ghz radio. The AP should have Dual Radio 802.11ax access point with OFDMA and Multi-User MIMO (MU-MIMO)
2	Access Point should be 802.11ax ready from day one and support WPA3 and Enhanced Open security from day one
3	AP should have one 2.5Gbps speed complies with NBase-T and 802.3bz specifications LAN port and Auto-sensing link speed (100/1000/2500BASE-T) and MDI/MDX and one 0/100/1000BASE-T Ethernet network interface (RJ-45)
4	Access point should support Built-in technology that resolves sticky client issues for Wi-Fi 6 and Wi-Fi 5 devices
5	Access point should support OFDMA and MU-MIMO for enhanced multi-user efficiency
6	Access point should IoT-ready Bluetooth 5 and Zigbee support
7	Minimum aggregate data rate should be 3.55 Gbps
8	Access Point can have integrated internal antenna
9	The Max transit power of the AP + Antenna should be as per WPC norms for indoor Access Points. OEM to give a undertaking letter stating that the AP will configured as per WPC guidelines for indoor AP and also submit the WPC certificate showing approval.
10	Access point should have Interna/External Bluetooth Low energy beacon to support advance location based serivces for Mobile engagement solutions and Applications.
11	Should support 8x BSSID per AP radio.
12	The access point should be capable of performing security scanning and serving clients on the same radio. It should be also capable of performing spectrum analysis and security scanning using same radio.
13	Should support BPSK, QPSK, 16-QAM, 64-QAM, 256 QAM and 1024 QAM modulation types
14	Access point should support 802.3af/at/btPOE standard.
15	Intelligent Power Monitoring (IPM) to continuously monitor and report hardware energy consumption. AP can also be configured to enable or disable capabilities based on available PoE power – ideal when wired switches have exhausted their power budget.
16	The AP should support Link aggregation (LACP) between both network ports for redundancy and increased capacity
17	Access point should have option of external power adaptor as well.
18	Access point should have console port.
19	Must operate as a sensor for wireless IPS
20	AP model proposed must be able to be both a client-serving AP and a monitor-only AP for Intrusion Prevention services
21	The Access Point should have the technology to improve downlink performance to all mobile devices.
22	Access point must incorporate radio resource management for power, channel, coverage hole detection and performance optimization

23	AP mounting kit should be with locking mechanism so that AP cannot be removed without using special tools.
24	AP should have kensington lock slot.
25	AP should support standalone mode/ Inbuilt Virtual controller mode for specific requirements.
26	The AP should support Advanced Cellular Coexistence (ACC) to minimizes interference from 3G/4G cellular networks, distributed antenna systems and commercial small cell/femtocell equipment
27	The AP should support Supports priority handling and policy enforcement for unified communication apps, including Skype for Business with encrypted videoconferencing, voice, chat and desktop sharing
28	The AP should support deep packet inspection to classify and block, prioritize, or limit bandwidth for thousands of applications in a range of categories
29	The AP should support Spectrum analysis and aapable of part-time or dedicated air monitoring, the spectrum analyzer remotely scans the 2.4GHz and 5GHz radio bands to identify sources of RF interference from 20MHz through 160MHz operation
30	The Access point should support maximum ratio combining (MRC) for improved receiver performance
31	The Access point should support cyclic delay/shift diversity (CDD/CSD) for improved downlink RF performance
32	The Access point should support Space-time block coding (STBC) for increased range and improved reception
33	The Access point should support Low-density parity check (LDPC) for high-efficiency error correction and increased throughput
34	The Access point should support Transmit beam-forming (TxBF) for increased signal reliability and range
35	The Access point should support 802.11ax Target Wait Time (TWT) to support low-power client devices
36	Regulatory Compliance FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 60950 EN 60601-1-1, EN60601-1-2
37	Certifications UL2043 plenum rating Wi-Fi Alliance: - Wi-Fi CERTIFIED a, b, g, n, ac - Wi-Fi CERTIFIED ax - WPA, WPA2 and WPA3 – Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) - WMM, WMM-PS, Wi-Fi Vantage, W-Fi Agile Multiband - Wi-Fi Location - Passpoint (release 2) Bluetooth SIG
38	Warranty : 5 Years