**TECHNICAL SPECIFICATION**

**SUPPLY OF WIRELESS ACCESS POINT**

(TYPE A: LESS 20 PEOPLE)

*Type A Wireless Access point is suitable for small density deployment for up to 20 people such as class room, small meeting room.*

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| **No.** | **SPECIFICATION** | **COMPLIANCE** | **PROPOSAL DESCRIPTION** |
| **Type A** | WIRELESS ACCESS POINT |  |  |
| **1.** | Supply Wireless Access Point 802.11ac wave 2   * AP type: Indoor, dual radio, 5GHz 802.11ac 3x3 MIMO and 2.4GHz 802.11n 2x2 MIMO. * One 10/100/1000BASE-T Ethernet network interface (RJ-45)   + Auto-sensing link speed and MDI/MDX   + 802.3az Energy Efficient Ethernet (EEE) * 5GHz **3x3 MIMO** (1,300 Mbps max rate) and 2.4GHz 2x2 MIMO (400 Mbps max rate) radios, with a total of three integrated omni-directional down-tilt dual-band antennas. * Supports multiuser MIMO (MU-MIMO) and 3 spatial streams (3SS) or higher. * Compatible with IIUM existing Wireless Controller (minimum)   + Aruba Mobility Controller 7240XM   + Aruba OS 8.3 | <X> |  |
| **2.** | Supply Cabling together with each access point installed. Cable type is UTP Cat6 (AMP or Equivalent quality) | <X> |  |
| **3.** | Supply accessories per access point as stated below:   * Access Point ceiling mounting * Access Point license that support Policy Enforcement * Proprietary console cable * Power Injector for POE+ power requirement. * Label and Tagging at both end * Security bracket (if required) | <X> |  |
| **4.** | Provide Support and Warranty for hardware and software.   * Must come with minimum 1 YEAR support and lifetime product warranty by Principle. | <X> |  |

(TYPE B: UP TO 100 PEOPLE)

*Type B Wireless Access Point is suitable for High Density deployment for up to 100 people such as Conference Hall or Lecture Hall.*

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| **No.** | **SPECIFICATION** | **COMPLIANCE** | **PROPOSAL DESCRIPTION** |
| **Type B** | WIRELESS ACCESS POINT |  |  |
| **1.** | Supply Wireless Access Point 802.11ac wave 2   * AP type: Indoor, dual radio, 5GHz 802.11ac 4x4 MIMO and 2.4GHz 802.11n 4x4 MIMO. * One HPE Smart Rate port (RJ-45, maximum negotiated speed 5Gbps) * Auto-sensing link speed (100/1000/2500/5000BASE-T) and MDI/MDX * 2.5Gbps and 5Gbps speeds comply with NBase-T and 802.3bz specifications * PoE-PD: 48 Vdc (nominal) 802.3at PoE * One 10/100/1000BASE-T Ethernet network interface (RJ-45)   + Auto-sensing link speed and MDI/MDX   + PoE-PD: 48 Vdc (nominal) 802.3at PoE * 5 GHz (1,733 Mbps max rate) and 2.4 GHz (**600** Mbps max rate) radios, each with **4x4 MIMO** support and a total of eight integrated omni-directional down tilt antennas. * Support Four spatial stream SU-MIMO for up to 1,733 Mbps wireless data rate to a single client device. Three spatial stream MU-MIMO for up to 1,300 Mbps wireless data rate to up to three MU-MIMO capable client devices simultaneously. * Compatible with IIUM existing Wireless Controller (minimum)   + Aruba Mobility Controller 7240XM   + Aruba OS 8.3 | <X> |  |
| **2.** | Supply Cabling together with each access point installed. Cable type is UTP Cat6 (AMP or Equivalent quality) | <X> |  |
| **3.** | Supply accessories per access point as stated below:   * Access Point ceiling mounting * Access Point license that support Policy Enforcement * Proprietary console cable * Power Injector for POE+ power requirement. * Label and Tagging at both end * Security bracket (if required) | <X> |  |
| **4.** | Provide Support and Warranty for hardware and software.   * Must come with minimum 1 YEAR support and lifetime product warranty by Principle. | <X> |  |