**Annexure V**

**Supply of Access Point Indoor:**

|  |  |  |
| --- | --- | --- |
| **Sl. #** | **Attributes** | **Specification** |
| 1 | Networking Interface | (2) 10/100/1000 Ethernet Ports |
| 2 | Buttons | Reset |
| 3 | Power Method | 802.3at PoE+, PoE Adapter Included |
| 4 | Supported Voltage Range | 44 to 57VDC |
| 5 | Power Save | Supported |
| 6 | Beamforming | Supported |
| 7 | Maximum Power Consumption | 17W |
| 8 | TX Power  2.4 GHz  5 GHz | 6-25 dBm  6-25 dBm |
| 9 | Antennas  2.4 GHz  5 GHz | (2) Dual-Port, Dual-Polarity Antennas, 3 dBi each  (2) Dual-Port, Dual-Polarity Antennas, 4 dBi each |
| 10 | Wi-Fi Standards | 802.11 a/b/g/n/r/k/v/ac/ac-wave2 |
| 11 | Wireless Security | WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)  802.11w/PMF |
| 12 | BSSID | Up to 8 per Radio |
| 13 | Mounting | Wall/Ceiling (Kits Included) |
| 14 | Operating Temperature | -10 to 70° C (14 to 158° F) |
| 15 | Operating Humidity | 5 to 95% Noncondensing |
| 16 | Certifications | CE, FCC, IC |
| 17 | VLAN | 802.1Q |
| 18 | Advanced QoS | Per-User Rate Limiting |
| 19 | Guest Traffic Isolation | Supported |
| 20 | WMM | Voice, Video, Best Effort, and Background |
| 21 | Concurrent Clients | 1000+ |
| 22 | Standard | Data Rates |
| 23 | 802.11a | 6, 9, 12, 18, 24, 36, 48, 54 Mbps |
| 24 | 802.11n | 6.5 Mbps to 450 Mbps (MCS0 - MCS23, HT 20/40) |
| 25 | 802.11ac | 6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80) |
| 26 |  | 58 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2, VHT 160) |
| 27 | 802.11b | 1, 2, 5.5, 11 Mbps |
| 28 | 802.11g | 6, 9, 12, 18, 24, 36, 48, 54 Mbps |
| 29 | **Warranty :** Minimum of 1 year product warranty | |
|  | **Software Controller**  : Free software controller should be included and it should be cross platform (Windows and Linux) | |

|  |  |  |
| --- | --- | --- |
| |  | | --- | | **Unit: No** | | **Rate:-** | |

**Supply of wireless AP (Outdoor):**

|  |  |  |
| --- | --- | --- |
| **Sl #** | **Attributes** | **Specification** |
| 1 | **Dimensions** | 343.2 x 181.2 x 60.2 mm (13.51 x 7.13 x 2.37") |
| 2 | **Weight** | 633 g (1.40 lb) |
| 3 | **Networking Interface** | (2) 10/100/1000 Ethernet Ports |
| 4 | **Buttons** | Reset |
| 5 | **Power Method** | 802.3af PoE |
| 6 | (Supported Voltage Range: 44 to 57VDC) |
| 7 | **Power Supply** | 48V, 0.5A PoE Gigabit Adapter, PoE Adapter Included. |
| 8 | **Power Save** | Supported |
| 9 | **Maximum Power Consumption** | 9W |
| 10 | **Maximum TX Power**  **2.4 GHz**  **5 GHz** | 22 dBm  22 dBm |
| 11 | **Antennas** | (3) Internal Dual-Band Antennas  8 dBi |
| 12 | **Wi-Fi Standards** | 802.11 a/b/g/n/r/k/v/ac |
| 13 | **Wireless Security** | WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES) |
| 14 | **BSSID** | Up to 8 per Radio |
| 15 | **Mounting** | Wall/Pole (Pole Kit Included) |
| 16 | **Operating Temperature** | -40 to 70° C (-40 to 158° F) |
| 17 | **Operating Humidity** | 5 to 95% Noncondensing |
| 18 | **Certifications** | CE, FCC, IC |
| 19 | **VLAN** | 802.1Q |
| 20 | **Advanced QoS** | Per-User Rate Limiting |
| 21 | **Guest Traffic Isolation** | Supported |
| 22 | **WMM** | Voice, Video, Best Effort, and Background |
| 23 | **Concurrent Clients** | 250+ |
| 24 | **Standard** | Data Rates |
| 25 | **802.11ac** | 6.5 Mbps to 1300 Mbps (MCS0 - MCS9 NSS1/2/3, VHT 20/40/80) |
| 26 | **802.11n** | 6.5 Mbps to 450 Mbps (MCS0 - MCS23, HT 20/40) |
| 27 | **802.11a** | 6, 9, 12, 18, 24, 36, 48, 54 Mbps |
| 28 | **802.11g** | 6, 9, 12, 18, 24, 36, 48, 54 Mbps |
| 29 | **802.11b** | 1, 2, 5.5, 11 Mbps |
| 30 | **Warranty** | Minimum 1 year product warranty |
| 31 | **Controller Software** | Free controller software should be included and it should be cross platform ( windows and Linux) |
| Unit:-No  Rate:- | | |