

## 11. Possible factors for WLAN connecting distance:

There are some 6 factors will affect the connecting distance;

- 1> Cabling: must be very carefully while plugging into the ODU and antenna without damaging it.
- 2> Water goes in Connector or Lightening Protector: Waterproof must be done very well to the connector and lightening protector.
- 3> Geographical blocking: Line of sight (LOS) is very critical for 2.4GHz and above;
- 4> Antenna alignment! does affect greatly the transmission distance.
- 5> Antenna Gain: If the connecting distance is still not satisfied, then you may consider using a higher gain antenna, say 20-dbi, 24-dbi parabolic grid.
- 6> RF Power: if the results is still not satisfied after using a higher-gain antenna, then we may consider the bigger power.