

Scope of Work

GPF Wi-Fi Access Point network cabling installation

I. GENERAL

This project is to install new data network category CAT6 plus solid copper cabling and complete the installation of ceiling mounted Access Points (AP). The cable runs will be from the designated communications closets (IDF) located on the 5th and 9th floors to the designated AP locations in Embassy Bangkok GPF Building (GPF) on floors 3,4,5, and 8,9,10. Additionally, install 1 each, 6 strand multimode 50 micron fiber between the 5th and 9th floor IDF closets along with patch panels.

II. Locations of work:

US Embassy Bangkok GPF Building (GPF)
3rd, 4th, 5th, and 8th,9th, 10th floors

III. Cabling Work Detail:

1. Install the customer provided Cat6 plus cable from 5th and 9th floor communication closets (IDF) to the designated locations on the 3rd, 4th, 5th, 8th, 9th, and 10th floors.
2. Install all ceiling mounted AP and install the network cables from designated locations to IDF rooms as indicated below.

Install a Total of 31 AP's and cabling as outlined below.

- a. From the 5th Floor IDF to 7 AP locations on the 3rd floor.
 - b. From the 5th Floor IDF to 8 AP locations on the 4th floor.
 - c. From the 5th Floor IDF to 6 AP locations on the 5th floor.
 - d. From the 9th Floor IDF to 2 AP locations on the 8th floor.
 - e. From the 9th Floor IDF to 3 AP locations on the 9th floor.
 - f. From the 9th Floor IDF to 5 AP locations on the 10th floor.
3. Install 1 each, 6 strand, multimode 50 micron fiber between the 5th and 9th floor IDF closets along with patch panels.

4. Contractor will coordinate with GPF building Management and will ensure all work meets GPF building guidelines and will be responsible for providing all necessary requirements for this project under contractor expense.
5. The contractor will provide all required CAT6 plus certified connectors, jacks and associated hardware to complete installation and testing of the network drops to meet industry standards.
6. The contractor will provide and install new J-hook cable and wire management support system in hallways and offices above drop ceilings as indicated during the survey.
7. If needed, the contractor will provide and install new floor standing or wall mount cabinet size-appropriate communication racks with Cat6 Plus and fiber patch panels mounted inside of each communication closet that will have new cabling if required.
8. Contractor will test and label all new drop locations and patch panels.
9. All cable terminations shall maintain the twists of the pairs as close as possible to the point of termination, no more than 2 cm untwisted.
10. Cables dressing should be should grouped together using Velcro straps or similar, easily removable equipment. No plastic cable “zip” ties will be used for cable management.
11. All exposed CAT-6 Cabling must be installed in appropriate Panduit or conduit raceway.
12. The contractor must coordinate with GPF Building Management and ISC for cabling/installation standards and routing.

IV. Network Cabling Post-Installation Testing:

1. Each drop must be tested to CAT-6 standards with CAT-6 certified test equipment. A full report listing the performance of all drops must be provided to Embassy ISO.
2. Contractor will perform and document continuity and wire map testing on each cable installed between drops and patch panels to ensure that the cable pairs are properly connectorized.
3. Contractor will perform and document link attenuation tests on each cable installed between drops and patch panels. Maximum attenuation levels are:

Frequency (MHz) CAT-6 Plus	Link Test (dB) CAT-6 Plus
1	3
4	3.5
8	5

10	5.6
16	7
20	7.9
25	8.9
31.25	10
62.5	14.4
100	18.6
200	27.4
250	31.1

4. Contractor will test and document NEXT (crosstalk) on each cable installed between drops and patch panels using a Level III certified field tester.
5. Contractor will test and document DELAY and DELAY SKEW on each cable installed between drops and patch panels using a Level III certified field tester.
6. Any cabling failing to meet these test standards will be fixed by the contractor at contractor's expense.

Timing of Work:

Cable installation will be completed outside of business hours (5pm) and on Weekends to minimize impact on office operations. Contractor will coordinate with ISC on exact scheduling.

DBA Insurance The Offeror shall include Defense Base Act (DBA) insurance premium costs covering employees in separate line item of the proposal. The offeror may obtain DBA insurance directly from any Department of Labor approved providers at the DOL website at <http://www.dol.gov/owcp/dlhwc/lscarrier.htm>