

Scope of Work

RAJ Wi-Fi Access Point network cabling installation

I. GENERAL

The purpose of this project is to install new data network CAT6 plus solid copper cabling and complete the installation of 25 ceiling mounted Access Points (AP). The cable runs will be from designated communications closets to the Access Points which will be located in the following locations on the RAJ compound; Warehouse 5 ISC, GSO Annex Office, Facilities MGMT Office, GSO Main warehouse 2, RAJ Gym Room, and the RAJ Café.

II. Locations of work:

US Embassy Ratchadamri Compound

III. Cabling Work Detail:

1. Install the customer provided Cat6 plus cable from communication closets (IDF) to the designated Access Points (AP) locations.
2. Install all ceiling mounted Access Points (AP).
3. Install a Total of 25 AP's and cabling as outlined below.
 - a. Warehouse 5 ISC: 5 AP's
 - b. GSO Annex Office: 4 AP's
 - c. Facility Mgt Office: 5 AP's
 - d. GSO Main Warehouse 2: 6 AP's
 - e. RAJ Gym Room: 3 AP's
 - f. RAJ Café (not surveyed): 2 AP's
4. The contractor will provide all required CAT6 plus certified connectors, outlets, jacks, and associated hardware to complete installation and testing of the network drops to meet industry standards
5. 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.

6. 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.
7. Test and label all new drop locations and patch panels.
8. All cable terminations will maintain the twists of the pairs as close as possible to the point of termination, no more than 2 cm untwisted.
9. Cables dressing should be grouped together using Velcro straps or similar, easily removable equipment.
10. All exposed CAT-6A must be in Panduit or conduit.
11. 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.
12. The vendor must coordinate with ISC and FM 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	Link Test (dB) CAT-6
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 their expense.

Timing of Work:

All work will be completed after business hours (5pm) and on Weekends in order to minimize impact on network users. 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>