

## Terms Of References

### Restoration of Fiber Optic Cable at Building 494 (OSD-PICD)

#### I. Introduction:

SBMA owns a Metropolitan Area Network (MAN) which serves as the highway of its information. It uses fiber optic cables to interconnect offices which are housed in several buildings within the Freeport Zone to SBMA Datacenter.

This project aims to connect Building 494 to SBMA-MAN via Building 275 to Building 229 Datacenter. OSD-PICD will be able to utilize the network services of internal server connectivity (ifms, dms, internet browsing and the likes), sharing of files and resources and digital connection to SBMA Official communication (online meeting)

#### II. Technical specifications:

1. Fiber Optic Cable;
  - a. Aerial installation, mounted at Enerzone pole
  - b. Single Mode Fiber Optic Cable
  - c. Figure 8, self-supporting cable
  - d. Minimum 6core, terminate using Lucent Connector (LC) on both end at existing ODF
  - e. Must be US, Japan or European made or origin
2. Proposed path of FOC from Building 494 to Building 275;



### III. Project Implementation:

The project is expected to be completed within **15 days** effective from the date of Notice to Proceed

### IV. General Scope of Works and Services:

1. Contractor should submit with the proposal an awarded project on fiber optic installation;
2. The winning bidder shall supply, install, test and commission fiber optic cable at Building 494 to Building 275;
3. The winning bidder shall submit Project Management Plan, three (3) calendar days upon receipt of Notice to Proceed for the implementation of the proposed solution that is subject for review and approval of the SBMA. The project Management Plan Shall include but not limited to the following:
  - a. Scope of Work
  - b. Project Organization
  - c. Implementation Methodology
  - d. Project Timeline
  - e. Communication and Deployment Strategy
4. Figure 8, Single Mode Fiber Optic Cable, Aerial Installation, Minimum of six (6) Core shall be primarily use
5. All conduits for cables shall be an Electrical Metallic Tubing (EMT) with connector, coupling and all cable support or hangers shall be permanently anchored on a fixed structure. Also it must be painted in accordance with the existing color of the wall
6. All cables (end-to-end shall be clearly labeled. Labels should be tamper resistant and made with cloth material

#### Installation Services;

1. CONTRACTOR must submit a work schedule for the implementation and the completion prior to the installation works. SBMA reserves the right to monitor field operations at an agreed-upon time by sending representative/s;
2. BIDDER must supply, install/mount, configure and test the cable for continuity while still on the reel. At minimum, continuity testing can be done on the reel with a visual fault locator or a simple fiber tracer such as a flashlight. Also, double-check the actual fiber count and actual cable length is recommended to ensure a proper installation. It is preferable to use Velcro® wraps instead of tie wraps. Fiber optic cables can be installed in inner ducts. Ensure that properly rated inner ducts are being installed. A 3-6 meter (10 to 20 ft.) length of cable slack should be stored in the enclosure or on the wall to allow for repairs and relocation needs;
3. CONTRACTOR should provide complete provision of Fiber Optic Cable Backbone requirements (conduits, wirings, panels, accessories, and the like) that will run inside Building 494 and Building 275. All conduits, fittings, and accessories must EMT type materials. Termination must be via LC;
4. BIDDER should provide complete provision of roughing-ins with guy wire at the building premises;
5. Complete installation of poles accessories for aerial installation of fiber optic cable backbone;
6. CONTRACTOR must clean and retouch all affected areas;

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7. Testing, tagging and documentation of all lines;
8. Assure that all work is performed in compliance with any SBMA regulations, laws, building codes, licensing or permitting requirements that relate to completion of the work tasks. The Contractor shall obtain licenses, permits or authorizations needed to carry out the work under this contract;
9. Assure that all communication systems work and are coordinated with, by regularly interacting with the SBMA's representatives;
10. All supplies, materials and fixtures needed are covered in the project and at no additional cost to SBMA;
11. Response time upon call (anytime) must be three (3) hours
12. Warranty must include reinstallation.
13. All replacement parts must be brand new and in good working condition. SBMA will not accept refurbished or re-conditioned parts. If it is necessary to replace the entire system, it will be replaced with brand new system. If proven that the bidder provides SBMA with refurbished/reconditioned parts, the winning bidder will be banned for future SBMA bidding;
14. Maximum response time must be three (3) hours upon call of problem/s at any given time and must be available 24 x 7 including week-ends, holidays and calamity.

**Warranty:** 24 x 7 (including weekends, holiday & calamity);

- 1) Fiber Optic Cable = three (3) years including parts/accessories
- 2) Workmanship = one (1) year

**Documentation:** The winning bidder must provide an as-built installation documentation that includes details of the project deliverables.

#### IV. Inspections:

The SBMA's representatives can carry out inspections any time during the performance of the works. Specifically, the representative will visit the sites after completion of all works to make sure that the sites are ready for the installation of the equipment. SBMA may invite technical representatives for inspection. The Contractor shall facilitate the work by providing on-site transportation and other logistical arrangements as required.

#### V. Deliverables:


- a. Submit a design prior to the start of the installation works.
- b. Comprehensive Installation, Configuration and Testing Methodology and Report of the Fiber Optic Cable.
- c. Warranty Certificate.
- d. Work Plan, three (3) days upon signing of Notice to Proceed or equivalent.

#### VI. Terms and Conditions:

- a. SBMA has the right to terminate the agreement in the event that the BIDDER/s commits default or non-compliance due to unsatisfactory work performance;

- b. SBMA has the right to ask the BIDDER/s to do changes if SBMA is not satisfied with the BIDDER/s deliverables. All expenses incurred due to necessary changes shall be at the expense of the BIDDER/s;
- c. BIDDER/s must inform through writing any changes in their organizational setup, business transaction and business partnership that may affect the performance and deliverables;
- d. **COMPLIANCE CLAUSE.** The BIDDER/s could exceed beyond the requirements stipulated in the Terms Of Reference (TOR) but should not deviate from it.

  
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