



Judiciary of Guam

Administrative Office of the Courts
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HON. ROBERT J. TORRES
CHIEF JUSTICE

HON. ALBERTO C. LAMORENA II
PRESIDING JUDGE

JOSHUA F. TENORIO
ADMINISTRATOR OF THE COURTS

July 18, 2016

MEMORANDUM:

To: All Prospective Bidders

From: Administrator of the Courts

Subject: **Amendment no. 1**
IFB 16-11; Installation of Fiber Optic Cabling

Below are responses to the questions submitted to my office:

1. Are the Fibers to be installed in a conduit system?

Response: Yes. The fiber must be plenum rated and installed in existing conduits or plenum rated inner duct if there are no existing conduits. The plenum rated inner duct should be installed with appropriate hangers or j hooks at least 6 inches but preferable 12" inches for any existing wire trays or conduits in the ceiling.

Your proposal should address the placement of the fiber in existing conduits, plenum rated inner duct, or 1.25 inch conduit as an option to the inner duct.

Where your routing penetrates fire walls, you will be expected to restore the fire protection properties with the application of firestop.

2. What is the minimum number of strands per cable?

Response: The bid specifications do not state a minimum number of strands per cable. The bid only specifies a minimum number of strands (fibers) from one physical location to the next. It is up to the vendor to best determine the minimum number of strands per cable and the number of cables to run from one physical location to the next.

3. Are all the Fiber strands to be terminated with LC connectors and plug in to Fiber Adapter Panel?

Response: Yes, all of the required fiber strands are to be terminated with LC connectors and plugged into a fiber adapter panel with couplers (supplied by the vendor), similar to the figure included in the bid request.

4. How many Fiber Enclosures are required and Type?

Response: As fiber enclosures vary in design and capacity, it is up to the vendor to make the determination as to how many fiber enclosures are required to ensure that the number of fibers are terminated in the enclosure(s) as specified in the bid.

5. How many Fiber Adapter panels are required and Type? (6, 12, 24 pack)

Response: As with the fiber enclosures, fiber adapter panels vary in design and capacity. It is up to the vendor to make the determination as to what type and how many fiber adapter panels should be supplied to meet the fiber count requirements as specified in the bid.

6. Are there Relay Racks/Cabinets requirements?

Response: No, a rack exists in each physical location and is specified in the bid as either a two post unenclosed rack or a four post enclosed rack.

7. If none, what is the size of existing racks, 19" or 23"?

Response: All racks are 19".

8. If the prerequisite is to install & terminate 4 strand and I provided 6 strand fiber cable, what is the procedure for the last 2 strand?

Response: All stands in the cable are to have terminations. In the case illustrated above all 6 stands would be terminated.

9. What type of termination for the LC connectors, Fusion or Pre-Radiused?

Response: Please provide the Judiciary with 2 quotes for the LC terminations: 1) with Fusion termination and 2) one with mechanical terminations.

10. Are there drawing and measurements for all Physical locations?

Response: Rough floor plan drawings have been provided but no measurements are available, however site visits are allowed. The selected contract will be expected to provide a detailed description and plan for the routes chosen for the fiber installation. The fiber plan is expected to be drawn to scale and correctly dimensioned. The plan to be submitted is to include the contractor signatures, date and contact information. This plan will be updated and submitted at the end of the project as the "as built" plan.

11. May we request for an extension?

Response: The Judiciary has extended the bid opening date to **2pm on August 5, 2016** to afford all potential bidders adequate time to clarify the information and address the amended specifications to the bid.

12. The scope of work requires labor. Is the federal wage determination required? If so please provide affidavit.

Response: No. The federal wage determination document is not required for this project.

13. The Fiber cable between Law Library and Judicial Center building, any preferences, direct buried Amor cable, OSP cable, or duct system?

Response: Direct buried armored cable is preferred. Placement of the fiber in a 4" ENT conduit with inner duct within it is desired. The conduit should be waterproof and protected. The cable run between the two buildings is expected to be a water tight straight run with no splicing.

14. Law Library and Judicial Center trenching, is Conduit surface run from ground to 2nd floor outside wall, (new data center) permissible? Aluminum or sch 80 PVC conduit system?

Response: No. The cable should enter the building using the existing building entry points. The contractor will need to work with Judiciary Facilities Maintenance to determine the exact location for the fiber optic cable entrance. The fiber optic entrance should be via metal conduit or sleeves.

15. Completion within 45 days is too short considering off island materials sourcing, shipping and restricted working hours. Is it possible to get an extension for completion to within 90 days from NTP.

Response: Yes. The project completion date will be extended to ninety (90) days from the NTP.

16. Please confirm the property between Guam Law Library (Bldg #3) and Bldg #4 belongs to public works and trench work requires permit.

Response: This is correct. Phase II work will require obtaining permit to extent the cable to Building #4.

17. Please confirm that scope doesn't include any electrical and grounding installation to the racks.

Response: The bid specifications do not include any electrical or grounding installation requirements.

18. Reference page 5 and 6; please confirm that JOG will be providing the equipment rack at each location.

Response: The Judiciary will supply all racks.

19. Reference page 5 and 6; please confirm that the Contractor/Contractor/vendor/Contractor/vendor is to include the fiber termination enclosures for each of the location.

Response: Yes, the Contractor/vendor will supply the fiber termination enclosures, patch panels and couplers.

20. Please advise if this is an "All or None" bid that requires the Contractor/Contractor/vendor to submit a bid for both item number 1 and item no. 2.

Response: The bid is "All or None". The Judiciary is looking for a single contractor/Contractor/vendor to perform both phases of the bid.

21. Where conduits are not existing will Contractor/vendor need to install? If so what is minimum size required?

Response: Please see response no. 1.

22. Will inner duct need to be installed to support?

Response: Yes. Plenum rated inner duct or conduits. See response no. 1.

23. Is plenum required?

Response: Yes. Plenum rated fiber and inner duct are required.

24. Will armored cable be required?

Response: Armored cable is desired for the run between the external buildings no. 3 and no.4.

25. Who will be responsible for rack enclosures?

Response: The Judiciary will supply all racks.

26. If existing rack is to be used, who will be responsible for making space for new fiber panel?

Response: The Judiciary will be responsible for making sufficient space on all racks.

27. Will OM3 be acceptable for install?

Response: No, OM4 fiber is required.

28. Will patch cords be quoted? If so what is the quantity?

Response: Patch cables are not part of this bid.

29. May we do an individual site-survey to assess certain locations for cable route to provide a more accurate quote?

Response: Yes. Please coordinate this with the Procurement Office.

30. For fiber run to location 10, may a conduit be installed on the outer wall of the Judiciary?

Response: No. See response 14.

31. Additional Bid Specifications are listed below:

- a. Testing: Testing shall include OTDR testing in both directions depicting all events (including reflective events or gainers) with loss per event, loss per segment and total end-to-end loss. Testing shall also include testing by power meter method. Testing for multimode shall be at 850 and 1300nm. Documentation shall be provided for all test results in printed and electronic format. Testing shall be conducted on all fibers in a cable. The contractor shall submit a test procedure and data forms for pre-installation and post-installation tests to the Judiciary for approval. In addition, the Contactor shall provide bi-directional end to end fiber tests within each cable, a list of splice losses in tabular form and electronically on CD is requested.

The contractor shall provide the Judiciary with Link Loss budgets and Loss measurements on the documentation

The contractor is expected to provide competent, trained personnel and all necessary equipment and materials to perform all testing. The Contractor shall utilize test equipment that has been calibrated within 6 months of the testing to perform all measurements to improve the quality of the measurements.

Use OTDR capable of detection 2 point dB loss, include the OTDR test result documentation and provide test results on disk for review of splicing and termination loss detail.

TIA/EIA approved and released 492AAAD defines the performance criteria for OM4 grade optical fiber. Maximum attenuation of the cable shall not exceed the Manufacturer's requirements.

The contractor is to test the fiber cable upon arrival at the job site, but before installation. One hundred percent (100%) of the fibers tested shall be with the OTDR for attenuation to confirm that the cable meets requirements. Test results shall be recorded, dated, compared and filed with the copy accompanying the shipping reel in a weatherproof envelope. Using OTDR, a test shall be conducted on each reel of cable to verify the overall length of the cable and to uncover any damage that may have occurred during shipping.

Another OTDR test shall be conducted after installation so that a graphic signature trace may be obtained. The installed signature trace for each cable run shall be submitted to the Judiciary.

- b. The Cable shall not be crushed, kinked, or forced around sharp corners. Sufficient slack shall be left at each end to all of proper cable termination.
- c. The contractor shall insure that all cable ends are taped and waterproofed prior to pulling the cables into the conduit. If the cable is not immediately terminated, it shall be sealed with electrical tape to prevent moisture or dirt from entering the cable end. The cable should remain sealed until termination takes place. The contractor is responsible for maintaining cable integrity and may be subject to complete replacement if performance parameters are not achieved.
- d. All cable must be run continuously without splicing form termination point to termination point unless interagency directed otherwise. The Contractor shall carefully determine the length of the cable necessary to reach from termination point to termination point. Should the cable be damaged, the entire segment of cable shall be replaced at the expense of the contractor, no insulation repair will be permitted.

- f. Contractor shall take care in the execution of all work performed at the Judiciary so as not to damage or destroy existing above ceiling cables and lines related to other Judiciary operating systems. The repair of any damages shall be charged to the selected Contractor/vendor/contractor. Repair and restoration of any street, sidewalk, grass area or other area disturbed during the course of installation is expected.
 - g. It shall be the responsibility of the selected Contractor/vendor to provide the configuration and system quantities to all locations as stated herein. The intentional or accidental omission of any necessary component or systems shall require the selected Contractor/vendor/contractor to supply said missing components or systems at no cost to the Judiciary.
 - h. Comply with all Guam building code requirements.
 - i. All fiber optic cables, patch panels and connectors must be clearly labeled using indelible ink in accordance with EIA/TIA standards. Labeling convention must be reviewed with the Judiciary MIS staff.
 - j. The contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish cause by operations under the contact before completion. The Contractor is responsible for replacing or restoring to original condition any damage t floors, ceiling, walls, windows, doors, fixtures, furniture, grounds pavement building exteriors, mechanical, electrical systems, etc., caused by tis personnel and operations. Any damage or disfiguration will be restored at the Contactor's expense. The Contractor shall be responsible for all out of serve and damage claims billed by third parties for damage caused by the Contractor.
32. The Following Bid Specification found on Page 5 of the RFP is changed as follows:

a.) **The Following Fiber Counts Have been updated:**

Physical Location 1 – Guam Judicial Center 2nd Floor (New Datacenter)

- Fiber termination enclosure will be mounted into a four post enclosed rack.
- **24** count fiber to Physical Location 2 – Guam Judicial Center 1st Floor (Closet near Court and Ministerial counter area)
- **24** count fiber cable to Physical Location 3 – Guam Judicial Center 2nd Floor (2-704W Courtroom Closet)
- **12** count fiber to Physical Location 4 – Guam Judicial Center 1st Floor (1-704W Courtroom Closet)
- **12** count fiber to Physical Location 5 – Guam Judicial Center 2nd Floor (2-502E Closet)
- **12** count fiber to Physical Location 6 – Guam Judicial Center 3rd Floor (Supreme Closet)
- **12** count fiber to Physical Location 7 – Guam Judicial Center Basement (NCIC Area)
- **12** count fiber to Physical Location 8 – Guam Judicial Annex 1st Floor (Probation Closet)
- **12** count fiber to Physical Location 9 – Guam Judicial Annex 2nd Floor (Probation hidden Closet)
- **12** count fiber cable to Physical Location 10 – Guam Law Library Building (Judicial Training Center)

Physical Location 2 – Guam Judicial Center 1st Floor (Closet near Court and Ministerial counter area)

- Fiber termination enclosure will be mounted into a two post unenclosed rack.

33. The Following Section is Deleted:

~~Physical Location 3 – Guam Judicial Center 2nd Floor (2-704W Courtroom Closet)~~

- ~~• Fiber termination enclosure will be mounted into a two post unenclosed rack. (Note: This is the existing rack, and may be replaced with a four post enclosed rack to house additional equipment.)~~
- ~~• 12 count fiber to Physical Location 2 – Guam Judicial Center 1st Floor (Closet near Court and Ministerial counter area)~~
- ~~• 4 count fiber to Physical Location 4 – Guam Judicial Center 1st Floor (1-704W Courtroom Closet)~~
- ~~• 6 count fiber to Physical Location 5 – Guam Judicial Center 2nd Floor (2-502E Closet)~~
- ~~• 4 count fiber to Physical Location 6 – Guam Judicial Center 3rd Floor (Supreme Closet)~~
- ~~• 4 count fiber to Physical Location 7 – Guam Judicial Center Basement (NCIC Area)~~
- ~~• 6 count fiber to Physical Location 8 – Guam Judicial Annex 1st Floor (Probation Closet)~~
- ~~• 4 count fiber to Physical Location 9 – Guam Judicial Annex 2nd Floor (Probation hidden Closet)~~

Please be reminded that this Amendment no. 1 shall be acknowledged in your bid proposal. Failure to acknowledge this amendment shall result in disqualification from this bid.



JOSHUA F. TENORIO

Cc: P&FMA
IFB 16-11