

TERMS OF REFERENCE

LOT 3: Fiber Optic Upgrade and OSG Data Center Cabling Rehabilitation

Background:

The Office of the Solicitor General is seeking to upgrade its Fiber Optic Backbone going to APMC and Montepino Building. It also seeks the rehabilitation of cabling facility in the OSG Data Center. This project will increase network capacity for said buildings which comprise almost half of OSG workforce.

Project Scope

The winning service provider should complete all installation/upgrade and rehabilitation of networking cables included in the terms of reference. SFP modules for existing core and distribution switch that will be used for the fiber optic upgrade will be provided by the OSG. All the rest of material, including fiber optic cables, UTP cables, patch panel, PVC pipes etc., will be shouldered by the winning service provider.

Approved budget for this project is One Million Eight Hundred Thousand Pesos (Php 1,800,000.00).

For Fiber Optic Upgrade and OSG Data Center Cabling Rehabilitation:

1. The bidder must have completed, within the last 5 years from the date of submission and receipt of at least one (1) single contract of similar nature amounting to at least fifty percent (50%) of the ABC; or the prospective bidder should have completed at least two (2) similar contracts and the aggregate contract amounts should be equivalent to at least fifty percent (50%) of the ABC; and the largest of these similar contracts must be equivalent to at least half of the fifty percent (50%) of the ABC as required.
2. The bidder shall submit a valid and current Certificate of Dealership/ Resellership of the product being offered
3. The bidder shall have at least one (1) Certified Installer.

**Fiber Optic Upgrade and OSG Data Center Cabling Rehabilitation
Technical Specifications:**

LOT 3: Fiber Optic Upgrade and OSG Data Center Cabling Rehabilitation			
ITEM	QTY	UNIT COST	TOTAL
Fiber Optic Upgrade and OSG Data Center Cabling Rehabilitation	1 Lot	1,800,000.00	1,800,000.00
SUB TOTAL			₱ 1,800,000.00

I. Fiber Optic Upgrade - Technical Requirement and Scope of Works

Item	Specification / Particular	
1.	Supply, install/layout of single-mode, outdoor type, 4-core fiber optic cable from the existing Server Room located at 10 th Floor Main Building to the Switch Cabinet (IDF) located at the 2 nd Floor APMC Building.	
2.	Supply, install/layout of single-mode, outdoor type, 4-core fiber optic cable from the existing Server Room located at 10 th Floor of the Main Building to the Switch Cabinet (IDF) located at Ground Floor Montepino Building.	
3.	Supply, install/layout of 25mm dia PVC pipe including conduit support, boxes and fittings for each single mode, outdoor type, 4-core fiber optic within the building.	
4.	Supply, install/layout of 25mm dia PVC pipe including conduit support, boxes and fittings for each single mode, outdoor type, 4-core fiber optic within the building.	

5.	For the single-mode, outdoor type, 4-core fiber optic cable layout outside the building shall be exposed via aerial and supported/attached to the existing communication cable and messenger wire using cable ties from the Main Building to the Montepino Building.	
6.	Supply/install fiber patch panel on both ends of the fiber optic cable using fiber fusion.	
7.	Test and verify all fiber connections to ensure that they comply with industry standards. Provide test results to OSG.	
8.	Fiber testing using Fluke tester OTDR.	
9.	Supply/install fiber optic patch cords to connect the passive components to the Network/active components.	
10.	The contractor/bidder will be responsible for providing all materials for this project, including cable, termination hardware, patch panels, patch cables, and miscellaneous hardware.	
11.	The bidder must include the technical diagram as part of the technical component.	

II. Server Room Rack Cable Harnessing - Technical Requirement and Scope of Works

Item	Specification / Particular	
1.	Cable harnessing for cables inside the racks using cable ties and Velcro materials	
2.	Cable tagging and labelling for cables inside the racks	
3.	The contractor/bidder will be responsible for providing all materials for this project, including cable, termination hardware, patch panels, patch cables, and miscellaneous hardware.	

NOTES:

1. All work is to take place Monday – Friday 8am – 4pm. Weekend or after-hours work must be coordinated with OSG in advance.
2. The Contractor is responsible for applying all the necessary permits (e.g. MACEA).
3. The Contractor must have the appropriate licenses for working from heights and must use ladders and harnesses appropriate to the working height.
4. The Contractor should wear personal protective equipment at all times including safety glasses, gloves, hard hat, etc.
5. The Contractor is to clean the site each day and all materials must be stored neatly in the storage area. All debris, excess materials, etc. must be picked up and the area cleaned up at the end of each day.