Terms of Reference

Security Strengthening Project (MNS:SSP)

IDB - JA-L1074 (LC # 4400/OC-JA)
Shops 31&32 Kingston Mall
Kingston, Jamaica

Ministry of National Security

TOR for Fibre Optic Cable Installation Pre-Assessment

Date	Services Performed For:
August 12, 2020	Security Strengthening Project (MNS:SSP) IDB - JA-L1074 (LC # 4400/OC-JA) Shops 31&32 Kingston Mall Kingston, Jamaica

Background

The Government of Jamaica has established a Security Strengthening Project (SSP), funded by a Loan from the Inter-American Development Bank (IADB), the main objective of which is to contribute to an increase in the conviction rate for murders in Jamaica. The strategy to achieve the main objective will be the "specific objectives":

(i) To assist in the reduction of the rate of murders in the country;

(ii) To increase the proportion of police investigations of murders that result in prosecution;

And

(iii) The training of police officers in the use of technology in crime fighting.

The Ministry of National Security (MNS) is charged as the Executing Agency and is currently engaging the services of a Consultant.

The Security Strengthening Project has three (3) components: (i) **Component 1**. Violent crime prevention and management; (ii) **Component 2** - Improving investigative capabilities for homicides; (iii) **Component 3** - Change Management & Communications.

The Project components comprises of activities to benefit and involve the participation of the Ministry of National Security and the following entities within its portfolio:

- The Jamaica Constabulary Force (JCF)
- The Department of Correctional Services (DCS)
- The Firearm Licensing Authority (FLA)
- Passport, Immigration, Citizenship Agency (PICA)
- The Institute of Forensic Science and Legal Medicine (IFSLM)
- The Private Security Regulatory Authority (PSRA)

Additional entities outside the portfolio of the Ministry of National Security include;

- The National Works Agency (NWA)
- eGov Jamaica Limited (eGov)

Implementation Objective

Within the context of the current push for the application of technology and data driven strategies, and the need to create network connectivity among the JCF and DCS, the **Objectives of this consultancy** is to:

Conduct a technical assessment to determine the best route for the installation of above and below ground fibre optic cable to the extent that it recommends the necessary components to facilitate fibre optic connectivity between the intended JCF and DCS sites and the existing MPLS Backbone Core sites. The Consultant is required to develop a detailed fibre optic network design document, and to provide the technical specification and bill quantities of the items necessary to complete the implementation.

The Consultant will have to:

- conduct site surveys at all the intended JCF and DCS sites and conduct cable routes assessment to determine infrastructure needs.
- develop a technical report on the findings of the site surveys,
- Make recommendations to ensure quality of work and that best practices and international standards utilized in the execution and implementation of the fibre optic network,

Scope of Work

The Consultant will:

- Assess each of the intended sites to determine the points of entry and cable routing within the buildings and fibre optic termination requirements.
- Assess the possible fibre optic cable routes from these sites to nearest existing GOJ fibre optic infrastructure.
- Develop technical specification for all the components necessary to establish robust and secure fibre optic connectivity between the sites
- Develop Bill of Quantities for all the components specified.
- Develop description of works and a plan for the installation, testing the deployed network components
- Provide specifications for materials needed for the installation of above and below ground cables. (Manholes, Cabinets, Ducts, Cables, Splice Closures, Pole Attachments, Strand Wire, Stand Vise, Tensioning and Risers)
- Assist in the preparation of Bid Documents

Duration

To be determined on approval of implementation plan

Supervision and Performance Evaluation

This service will be supervised by the Operations Manager of the National Works Agency

Deliverables

No	Objectives	Deliverables	Milestone
	Consultant Onboarding	Meetings to discuss scope and nature of activities	Consultant onboarded
1.	Assess each intended site	Site survey report	Completed site Survey report
2	Assess possible cable routes	Cable route maps	Completed Cable routes maps
3.	Determine required components	Component list	Completed components list
4.	Develop technical Specification	Technical specification	Completed technical specifications
5.	Develop Bill of Quantities	Bill of quantities	Completed Bill of Quantities
6.	Develop Description of work	Description of works	Completed description of works

Qualification and Experience

Bidders should have at least two team members that meet the following criteria for installation:

- Fiber Optic Technician Certification in Splicing and Termination

or 4/5 years designing, installing, and maintaining indoor and outdoor fibre optic cable networks

- 4/5 years designing and implementing structured cabling infrastructure
- Must have excellent written and verbal communication skills and strong analytical and problem-solving skills.
- Expert knowledge of enterprise network environments
- Outside plant management
- Pole placement experience
- Cable route mapping
- Pre survey of cable routes
- Splicing experience
- Manhole placement
- Aerial and underground fiber design experience

Type of Consultancy

Firm

Reporting

The Consultant(s) will report to the Project Director – Project Execution Unit (PEU) for the Security Strengthening Project (SSP) and work directly with the PEU team and the relevant Technical working groups (TWGs) and sub-groups.

They will liaise and consult with the Ministry of National Security and the Agencies involved in SSP on matters relating to the Project, as necessary.

Location

Offices of PEU, with mobility as needed taking into account the locations of the various stakeholders and other scenes of action, and demands of the assignment, day to day. Consultant's offices as necessary.

Payment Schedule

Payments must be based on deliverables