

**REQUEST FOR PROPOSALS FOR
THE PROVISION OF
ENGINEERING CONSULTANCY
SERVICES FOR RESTORATION
OF DOMLEC'S THE
ELECTRICITY SUPPLY SYSTEM
IN THE COMMONWEALTH OF
DOMINICA**

APRIL 2018

TABLE OF CONTENTS

1 INTRODUCTION AND OBJECTIVES

1.1 Intent of this Document

Proposals are invited for the provision of Engineering Consultancy services to support the efforts of restoring the Electricity Generation and Supply System (The System) of the Commonwealth of Dominica. Under the Electricity Supply Act of 2006, Dominica Electricity Services Limited (DOMLEC) are the current Licensee with responsibility for the restoration and post restoration operations and management of The System. DOMLEC will therefore be seeking proposals from suitably qualified entities to tender on the provision of the requisite Engineering Consultancy Services as detailed in attached Terms of Reference (TOR) which includes the proposed Scope of Work, is provided in **Appendix 1** of this document.

Tenderers are at liberty to append further details deemed desirable to the Tender Documents. Such details shall not be binding upon the Dominica Electricity Services Limited.

1.2 Corporate Background & Relevant Business Information

The Dominica Electricity Services Limited, hereinafter called the Requestor, is an investor-owned, vertically integrated electric utility, which supplies electricity to the island of the Commonwealth of Dominica under respective Generation (non-exclusive) and Transmission, Distribution and Supply (exclusive) licenses, in accordance with the aforementioned Act. . The Requestor operates Generation, and Transmission, Distribution and Supply (TD&S) systems summarized as follows:

1.2.2 Table 1 - Generation Plants

PLANT	GENERATING UNIT TYPE	TOTAL CAPACITY
FOND COLE POWER STATION	RECIPROCATING DIESEL	13.864 MW
SUGAR LOAF POWER STATION	RECIPROCATING DIESEL	6.830 MW
LAUDAT POWER STATION	HYDRO TURBINE	1.240 MW
TRAFALGAR POWER STATION	HYDRO TURBINE	3.520 MW
PADU POWER STATION	HYDRO TURBINE	1.880 MW
TOTAL CAPACITY		27.334 MW

1.2.3 Table 2 – TD&S System

LENGTH OF HV LINES (11 kV)	500 km
LENGTH OF LV LINES (400/240 V)	725 km
NO. TRANSFORMERS/ASSOCIATED LV CIRCUITS	1,489
NO. OF POLES	15,924
NO. OF STREETLIGHT FOR REPLACEMENT BY LED	2,500

The demand for the island is between 17 MW and 18 MW, which an off peak demand as low as 8 MW especially in the cooler months of the year.

The pre Maria customer base was over 36,000 with an average monthly electrical energy consumption of 8.4 GWh.

1.3 Impact of Hurricane Maria

Hurricane Maria made a direct hit on the Commonwealth of Dominica on September 19, 2018, resulting in widespread damage and destruction across the island and affecting all sector of the economy. The electricity sector was affected as follows:

1.3.1 Generation System

Over 60% of the DOMLEC's generating capacity affected immediately. Currently only 22% of the generating capacity remains unavailable as restoration work in this area continues.

1.3.2 TD&S System

Over 98% of this system was affected immediately following the hurricane. Our restoration efforts have seen:

1.4 Status of Restoration/Recovery

After seven months, the status of our restoration is as follows:

1.4.1 Generation System

From a capacity point of view, the generation system has been restored to the 78% level. 4.2 MW/30% of the Fond Cole power station's capacity remains unavailable, and similarly, 1.88 MW/28.3% of the Hydro capacity remains unavailable. Additional current pertinent generation system metrics are as follows:

- a) System Peak – 8.65 MW, 48% of pre Maria peak
- b) Net Energy Production (Oct 30 – Apr 15) – 16.2 GWh/34% of pre Maria production for a similar period.
- c) Current Average Growth Rate – 4.8%/week

2 DESCRIPTION OF SERVICES REQUIRED

As per detailed in Appendix 1, DOMLEC requires the services outlined in the Terms of Reference (TOR) and associated Objectives and Scope of Work to:

- a) Assist with certain technical and engineering quality control and assurance (QA/QC) aspects of the restoration work
- b) Ensure compliance with the stipulation of DOMLEC's CDB loan in support of said restoration efforts.

2.1 T&D Structural Analysis

The objective of the consultancy is the structural evaluation of the transmission and distribution system to ensure correct component selection and installation specifications to meet design loading requirements. To such end, the consultant is required to ascertain the causes of failures of poles in Dominica as results of Hurricane Maria and based on this information determine the maximum wind speeds at which the structures were subjected. And conduct a structural analysis to define the pole's characteristics to ensure the transmission and distribution network will withstand category 5 hurricanes.

2.2 Geotechnical Analysis

The objective of the consultancy is strengthening DOMLEC technical capabilities for the rehabilitation and reconstruction of Dominica's electric system. The geotechnical engineer will be integrated with DOMLEC reconstruction team and will: (a) support the supervision of the geotechnical studies underway as part of the natural hazards vulnerability assessment for Dominica. (b) Develop geotechnical guidelines for the installation of transmission and distribution poles. (c) Undertake the technical supervision of rehabilitation and reconstruction works and the engineering management of rehabilitation and reconstruction contracts, as assigned by DOMLEC management. And, (d) provide basic training in soil classification methods and basic lab tests to DOMLEC personnel, as well as specific training on the geotechnical guidelines developed under (b).

2.3 Engineering Certification

The objective of the consultancy is the certification of works and submission of claims to the CDB.

2.4 Safety and Environmental Policies and Procedures

The Tenderer shall demonstrate the ability to conform with the Requestor's Health, Safety and Environmental Policies and Procedures generally, and specifically with its Contractor Safety Work Program (CSWP). The requirements of same are set out in Appendices 2-5. Tenderers who have not met the requirements as set out in the CSWP, will not be considered for award.

2.5 Prices

The Requestor intends to have a detailed pricing arrangement for the services provided, in order to assist with the evaluation of tenders, and ultimately to facilitate prudent management throughout the engagement of the Engineering Services. Prices are to be stated in United States Dollars (US\$) and as per the pricing structure is as follows in Table 3 below:

2.5.1 Table 3 – Pricing Structure for Engineering Consultancy Services

ITEM	DETAIL	PRICE (US\$)	TOTAL (US\$)
Professional Fees	T&D Structural Analysis		
	Geotechnical Analysis		
	Engineering Certification		
Air Travel			
Per Diem			
Local Logistics (Hotel and Local Transportation)			
Documentation and Reports			
TOTAL PRICE			

2.6 Tenderer's Profile and Qualifications

The Tenderer must qualify as set out in Appendix 1, TOR for Engineering Consultancy Services

2.7 Project Duration

The duration of the project is expected to be from July 2018 to end March 2019, during which time it is expected that the requisite services as tendered will be provided throughout the entire duration. Table 4 below provides approximate timelines for key deliverables.

2.7.1 Table 4 – Key Project Deliverables & Timeline

DELIVERABLE	TARGET DATE
Commencement of Sugar Loaf Retaining Wall (SLRW)	August 2018
Commencement of Streetlight Project	August 2018
Reconnection of Eligible Customers	August 2018
Completion of SLRW	November 2018
Completion of T&D Rebuild	October 2018
Completion of Streetlight Project	February 2019

-

3 TENDERERS' INSTRUCTIONS

3.1 Contact Person

Any further information required for this request for proposal may be obtained from:

Dave Stamp – Generation Manager/ CDB Loan Project Coordinator
C/o Dominica Electricity Services
18 Castle Street
Roseau
Commonwealth Of Dominica
(767) 255-6170/6117 (Office), (767) 235-9965 (Mobile), (767) 448-6082(Fax)
or (dave.stamp@domlec.dm)

3.2 Submission of Tenders

Tenders may be submitted by either of the following methods:

1. In a sealed envelopes marked on the outside **ENGINEERING CONSULTANCY SERVICES TENDER** and bearing the name and address of the Tenderer, and addressed and delivered to:

The Project Coordinator – CDB Loan
C/o Dominica Electricity Services Limited
18 Castle Street, P.O. Box 1593
Roseau
Commonwealth Of Dominica

2. Via email as follows

- a. Captioned: The Project Coordinator – CDB Loan
- b. Email address: dave.stamp@domlec.dm

3. Tenders must be delivered by **16:00 hrs. on June 21, 2018**

3.3 Evaluation Schedule

The tender “opening” shall take place at 16.30 hours on **June 22, 2018 at the Requestor’s headquarters at 18 Castle Street, Roseau.** Results will be summarized and published by 16.00 hours on June 22, 2018.

4 PROCEDURE FOR AWARDING CONTRACT

4.1 Bid Evaluations and Award

The Requestor may make such investigations as it deems necessary to determine the qualification and ability of the Tenderer to provide the requested services and the Tenderer shall furnish to the Requestor all such information and data required for this purpose.

The Requestor, reserves the right to, not accept the lowest or any tender.

After conducting its evaluations, and the Requestor will make an award/awards, and will advise both successful and unsuccessful Tenderers via written communication. Thereafter the Requestor will enter into contract negotiations with the successful Tenderer(s). If the parties are unable to conclude negotiations for a contract within three months of the award the Requestor reserves the right to select the next most eligible bid or to go back out to public tender.