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## REQUEST FOR EXPRESSIONS OF INTEREST (REoI)

### **PREPARATION OF A COMPREHENSIVE LEAST COST FINANCIAL PLAN AND TECHNICAL EXECUTION PLAN FOR CONVERTING JABANA II 20MW ENGINES RUNNING ON LIQUID FUEL TO OPERATE ON GAS.**

#### **1. Background**

Jabana II 20MW Thermal Power Plant is located in the City of Kigali. The plant was developed by the Government of Rwanda (GoR) with the partial financial support from the World Bank amounting to USD 15,383,781. It is built on the area of approximately 28 800m<sup>2</sup> covering the switchyard, an engine hall, a storage tank area, a fuel offloading station and utility block.

The plant became operational in April 2009 and consumes around 100,000 liters/day of Heavy Fuel Oil (HFO) or Light Fuel Oil (LFO) when running according to its normal generation scheme. It is equipped with three engines of Wärtsilä V-type. The plant is currently operated as an emergency power plant by Rwanda Energy Group Limited established in July 2014. However, the cost of procuring diesel or Heavy Fuel Oil has been found to be expensive in consideration of natural gas energy. In this regard, Rwanda Energy Group is seeking to employ consultants to formulate a Comprehensive Least Cost Financial Plan and Technical Execution Plan (LCFPTEP) for Converting JABANA II 20MW Engines Running on Liquid Fuel to Operate on Gas.

#### **2. Objective of the assignment**

The objective of the Consultancy Service is to identify and select a most feasible gas, formulate its technically, economically, socially and environmentally sustainable Least Cost Financial Plan aiming at converting the existing Jabana II 20MW thermal power plant currently running on HFO/LFO to operate on gas sourced in the region. This can be either exported from Mombasa or Dar Es Salam Ports or any other oil reserves currently producing natural gas including Lake Kivu. Regarding the Technical Execution Plan; the consultant should provide sufficient details for its implementation, including layout plan of the facilities, detailed designs and drawings of all equipment & infrastructure as well as the required tests necessary for the operation of the power plant fueled with gas.

#### **3. The scope of work**

The consultant will undertake the Site Survey and Review of Operational Status; Formulation of Development Vision and Conceptual Plan; Analysis of the premium type of fuel and supply chain route; Social and Environmental Examination; Least Cost Financial and Business Plan; Preliminary Design and Drawings of Infrastructure; Drawing Review and Detailed Engineering Design, and Project Implementation Scheme.

**The assignment will take approximately 4 calendar months.**

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The Energy Development Corporation Limited (EDCL) now invites eligible consulting firms (“Consultants”) to express their interest in providing the Services. Interested Consultants should provide information demonstrating that they have the required qualifications, relevant experience, required technology and capability to perform the Services. Consultants should satisfy the following shortlisting criteria:

1. The firm should have a general professional working experience of at least 10 years in services related to the feasibility studies, Economical and Financial Analysis, Business Planning, Social and Environmental Examination, Preliminary Design, Detailed Engineering Design and infrastructure drawings, Market survey and Supply chain analysis and development, Project implementation scheme for energy projects involving renewable natural resources gas, thermal, gas, oil and similar.
2. The firm should have completed at least two (2) similar and relevant assignments in terms of nature, size, complexity and technology;
3. Having performed at least one (1) similar and relevant assignment in the African region or similar geographic conditions;
4. Availability of relevant skills among its key staff including (Project management specialist, Internal Combustion (IC) Engine Power Plant, Automation engineering, Electrical Engineering, Mechanical, Oil and Gas Supply Chain expert, Economic and Financial analyst, Social and Environmental experts, Logistics & Transportation Engineering, Conceptual Architect and Design Engineering among others.
5. The firm should demonstrate its administrative, managerial, financial capacity and its internal control mechanism and system.

Consultants may associate with other firms in form of a Joint Venture or a sub consultancy to enhance their qualifications, and competency. A Consultant will be selected in accordance with the **Quality and Cost Based Selection (QCBS) Method** set out in the Rwanda Public Procurement law N° 13/2007 of 29/03/2007 as amended to date.

Interested International or Local firms not registered in E-procurement System for Rwanda, shall visit the website: [www.umucyo.gov.rw](http://www.umucyo.gov.rw) for registration before submitting their expression of interests or visit the Rwanda Public Procurement Authority (RPPA) website [www.rppa.gov.rw](http://www.rppa.gov.rw) for obtaining the registration user guide. For registration purpose only, firms may also address their inquiries seeking for guidance at: [mngenganyi@edcl.reg.rw](mailto:mngenganyi@edcl.reg.rw); [procurement@edcl.reg.rw](mailto:procurement@edcl.reg.rw).

All Expressions of interest shall be mandatorily submitted online using **e-procurement system** through [www.umucyo.gov.rw](http://www.umucyo.gov.rw) by not later than **20/11/2017** at 5:00 pm local time or 3:00 GMT. **Any off-line submission of EoI shall not be accepted.** All enquiries regarding this tender may be addressed to the Acting Managing Director of EDCL through E- Procurement system.

Done at Kigali, 27<sup>th</sup> October, 2017

**RUHIGULA Jackson GAFULEKA**  
Head of Procurement Unit

**Yves NSHUTI**  
Acting Managing Director