REQUEST FOR EXPRESSIONS OF INTEREST
(CONSULTANCY)

Country: **Solomon Islands**

Project/Assignment Title: **Consultancy Services for Pneumatic (Air) Systems Assessment and Concept Design for Upgrade for Lungga Power Station**

1. **Background and sector context:**

The Solomon Islands Electricity Authority (SIEA) trading as Solomon Power (SP) is a vertically integrated state owned enterprise that owns, maintains and operates the national electricity grid in the Solomon Islands.

The largest electricity network in the Solomon Islands (both in terms of the geographical coverage and electricity sales) is in Honiara, with a maximum demand of approximately 18 MW is recorded to date and is projected to grow to 22 MW within the next ten years.

The main generation plant for Honiara is located at Lungga, about 10 km from Honiara City. The Honiara power system consists of:

- Honiara Power stations with a total installed capacity of 32.1 MW
- Six 33kV feeders interconnecting the power stations and substations
- 33/11kV substations are at Lungga, Honiara, Ranadi, East Kola, Honiara East and White River.
- Eighteen 11kV distribution feeders

One of the key supporting elements that assists to enhance the fast recovery time of all generators during plants outages is the availability of good air system. This plays a vital role in Proper starting air pressure and volume are crucial for achieving optimal engine performance. The starting air system ensures that the engine starts under ideal conditions, which can lead to improved fuel efficiency and power output and enhance prolonged equipment lifespan.

At present, the Old Lungga Power Station Generators feed directly by unfiltered air system, this can introduce contaminants as dust, dirt and debris causing abrasion and erosion on sensitive components, leading to premature failure of equipment.

This advert therefore seeks qualified engineering firms to be engaged for the design and support in procurement and installation of upgraded Pneumatic Systems at Lungga Power Station.

2. Objective of the study and deliverables for this assignment

The objective of this assignment is to provide a detailed investigation of the current Air System and associated accessories in the New and Old Lungga power stations and provide relevant recommendations on a replacement or upgrade for the entire air systems. The air system upgrade should be capable to deliver high volumes of compressed air quickly and efficiently, to ensure the efficient operation of the current and proposed Diesel Generation system.

3. Duration

The Consultancy assignment may run for a period of four months (both in and out of country) or as agreed upon and is proposed to commence in August 2024.

4. Competence and Qualification

The SP invites an eligible Consultant to indicate its interest in providing the required services. Interested individuals or Consultancy Firms with qualified Consultants should provide information, demonstrating that they have the required qualifications and relevant experience to perform the services.

The consultant's team must be familiar with international best practices in Air system facilities for preferably Diesel Powered Stations.

The Consultant should possess the following qualification and experience to be suit the objectives of this assignment:

- Design Engineers with minimum 10 years' minimum experience in designing and implementing Air systems for Diesel Generator power systems and demonstrated experience in delivering similar projects in the Pacific region

5. Selection

Consultants may associate with other firms to enhance their qualifications, but should indicate clearly whether the association is in the form of a joint venture and/or a sub-consultancy. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected.

A Consultant will be selected in accordance with the Quality and Cost-Based Selection (QCBS) method set out in the Solomon Power Tendering and Procurement policies and Manual.

The detailed Terms of Reference (TOR) for the assignment is attached to this EOI.

6. Application and Submission

Interested eligible firm or consultant can obtain further information at the address below during office hours 8 am to 4:30 pm on business days, Monday to Friday.

Expressions of interest must be delivered in a written form by e-mail to Joshua.Suiramo @solomonpower.com.sb and cw.procurement@solomonpower.com.sb , or through Tender Link portal) by 10 am on 11th July 2024, Solomon Islands time.

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