

Expression of Interest

Pre-Qualification of Service Providers

Solar Power to Rössing Uranium Limited

Rössing Uranium Limited (RUL) is a leading Namibian mining company and is located 12 km from the town of Arandis, which lies 70 km inland from the coastal town of Swakopmund in Namibia's Erongo Region.

RUL hereby invites interested service providers to submit their "Expression of Interest" (EOI) for pre-qualification of the above service.

Interested parties must be recognised service providers with Solar PV experience and are required to familiarize themselves with the Information Document and Qualification Criteria for this service which is available on the RUL website. www.rossing.com

Context of the Project:

RUL has decided to make use of Solar Energy to reduce their carbon footprint and offset their cost of power. Numerous scenarios and options are available within the current energy trading market under the Modified Single Buyer (MSB) framework of the Electricity Control Board (ECB) to make use of renewable energy sources. As such RUL has opted to test the market by providing three (3) options for suppliers to respond on.

- 1. Construction Contract for a 15MW AC Solar PV Plant (Design and Material to be supplied by RUL)**
- 2. Power Purchase Agreement for 50 000 MWh per annum from an Independent Power Producer (IPP) (Any renewable energy source)**
- 3. EPC Contract for a 15MW AC Solar PV Plant and associated infrastructure**

Suppliers are free to indicate their Expression of Interest to one, two or all three options.

A detailed Tender with information on the specific requirements for each option will be circulated to the short-listed bidders. Only the short-listed bidders will be invited formally by RUL to respond to the Tender.

The response required at this initial stage is an Expression of Interest only from companies who wish to take part in the Tender Process.

Clarification deadline: 10 March 2023
Closure Date & Time: 17 March 2023 at 16:00

Indicate your expression of interest by sending an email to:
Manie.VanZyl@rossing.com.na

Option 1: Construction Only of a 15MW AC Solar PV Plant

RUL has concluded a Definitive Feasibility Study to build and operate its own Solar PV Plant and sized it within the constraints as laid out by the MSB framework. The design of the Solar PV plant has been completed and a full SoW and BoQ are available.

Under this option, RUL will provide the final Detail Design, procure all major components and equipment directly as well as manage the overall project. An Environmental Impact Analysis (EIA) was successfully completed, and an Environmental Clearance Certificate (ECC) has been issued to RUL by the Ministry of Environment, Forestry and Tourism (MEFT). RUL will appoint an EPCM to complete the detail design, provide construction guidance and project management.

RUL will appoint one main Construction Contractor with the following responsibilities:

- Construct an 15MW AC Solar PV plant as per provided Detail Design.
- Construct a 6 800m 11kV Overhead Power Line as per provided Detail Design.
- Construct security fencing around the plant as specified.
- Construct all supporting infrastructure (water / power / sewerage).
- Installation of Weather Station, PV Tracking and SCADA.
- Integrate 11kV Overhead via Switchgear into RUL Substation.
- Test, Commission and Hand-Over of complete plant.

Option 2: Power Purchase Agreement (PPA) from an Independent Power Producer (IPP)

RUL has been registered with the Electricity Control Board (ECB) as a Market Participant and as a Contestable Customer (CC) with a contestable quantity of **50 864 MWh** per annum.

RUL invite IPP's, registered as Eligible Sellers (ES) with a valid generation license and an existing Renewable Energy Source, or clear timeline to completion of such, to propose a PPA. The proposal should include:

- Cost of energy expressed in NAD per kWh
- Proposed rate should include all Wheeling / Transmission Cost and any other Network / Levy Charges.
- Contention: Clear indication of percentage availability to deliver to RUL and how many other off takers there are.
- How many other off takers are required to make project viable, if any.
- 25-Year Yield forecast.
- Site(s) location.

The IPP should also possess all necessary permits and authorisations from the ECB, NamPower and MEFT for their renewable energy source and site or indicate a clear pathway and timeline to obtain such.

Option 3: Engineering, Procurement and Construction (EPC) Contract for developing a 15MW AC Solar PV Plant.

Contractors are invited to propose an Engineering, Procurement & Construction (EPC) Contract for development of a 15MW AC Solar PV plant, including an 11kV Overhead Power Line from the Solar PV Plant to RUL Main Substation.

A location with a total surface area of 72ha has been identified and is available as designated construction site. The site is adjacent to the RUL access road to the west of the Namwater Reservoirs. An Environmental Impact Analysis (EIA) was successfully completed, and an Environmental Clearance Certificate (ECC) has been issued to RUL by the Ministry of Environment, Forestry and Tourism (MEFT). An Environmental Management Plan (EMP) is available which must be adhered to.

The EPC proposal should include costs for all the following elements:

- **Detail Design** of a 15MW AC Solar PV Plant and 11kV Overhead Power Line
- **Engineering** should incorporate:
 - Solar PV Tracking System
 - 11kV Overhead Line from the plant to the RUL Main Substation
 - Complete tie-in with RUL power grid at Main Substation
 - All supporting infrastructure (buildings, power, water, sewerage, fencing, security, communication & SCADA)
- **Procurement** of all components, equipment, and material to complete the entire project.
- **Construction** of the complete Solar PV plant and Overhead Line including:
 - All required supporting infrastructure
 - Switchgear integration at RUL Substation
 - Testing, Commissioning and Hand-Over

RUL will only appoint the EPC Contractor as main contractor. The EPC contractor may appoint sub-contractors with RUL permission. The EPC contractor will manage the entire EPC project and all appointed sub-contractors while reporting directly to RUL Project Management. RUL reserve the right to appoint an Engineering Consultant to assist RUL in overseeing Detail Design, Engineering, Construction, Project Management and Commissioning phases.

Optional:

- Contractors are welcome to propose an Operate and Maintenance (O&M) contract.
 - RUL will retain ownership of the Solar PV plant.
- Solar PV plant financing options.
 - Ownership under a Joint Venture (JV) or Special Purpose Vehicle (SPV)
 - Other options are welcomed to be proposed.

Indicate Interest by Completing the “Eol Response Sheet” found on www.rossing.com and return to: Manie.VanZyl@rossing.com.na

Qualifying Criteria:

List of Attributes	Option 1	Option 2	Option 3
Technical experience	<p>Indicate previous Solar PV and 11kV Overhead Line construction project(s) (or similar) undertaken in the past 5 years. Indicate Solar PV Plant size, OH Line capacity and length, or similarly high value and complex electrical construction projects successfully completed.</p> <p>Indicate SCADA integration knowledge and capabilities.</p>	<p>Indicate existing Renewable Energy Power Plant export capacity and its status (Operational or Under Construction).</p> <p>Provide High Level overview of Renewable Power Plant.</p>	<p>Indicate Solar PV and 11kV Overhead Line Design / Engineer, Procurement and Construction project(s) undertaken in the past 5 years with cumulative or a single capacity of at least 5 MWp in which the applicant has been either or all of the following:</p> <ul style="list-style-type: none"> • EPC Contractor • Operations & Management (O&M) contractor
Licensing	Eligible to operate in Namibia	<p>Indicate status of each of the following:</p> <ul style="list-style-type: none"> - Registration as Eligible Seller (or current stage of application) - EIA status for Renewable Energy Plant site - ECC & EMP status for Renewable Energy Plant site 	Eligible to operate in Namibia
Regional experience and footprint	<p>Demonstrate success in constructing similar projects in Southern Africa / Namibia.</p> <p>Provide three references in relation to the experience quoted.</p>	Indicate successful wheeling of energy to existing customers / off-takers in Namibia (if any).	<p>Demonstrable success in engineer, procure, construct and operating similar projects within Southern Africa / Namibia.</p> <p>Indicate expected yield of Renewable Energy Plant for the next 20 years in kWh.</p>