



Amrun project

Expression of interest

Independent Power Producer: Power Station

Package Title: Independent Power Producer: Power Station

General Description

Rio Tinto's Amrun Project is a bauxite mine project located approximately 40 km south-west of Weipa in far North Queensland, Australia (**Project**). The Project will require a nominal 20 MW diesel power station. Expected ~18 MW peak load, minimum 2MW load and average ~14 MW load. The scope for the Independent Power Producer (**IPP**) includes design, procurement, construction, testing and long term operation and maintenance of the power station.

The facility will be constructed, operated and maintained by the IPP, with Rio Tinto the sole customer for the offtake of electricity. Diesel fuel will be free issued from a local fuel farm by Rio Tinto to the IPP.

Bidders will be required to provide:

- Company history of operating and maintaining power stations in remote areas.
- Examples of currently owned power stations demonstrating the IPP's ability to construct, operate and maintain remote islanded power stations under-written by long term electricity offtake agreements.
- Supporting references and contact details from customers with whom the IPP has long term offtake agreements.
- Examples of IPP – Customer monthly operating reports (redacted as appropriate). The reports will show overall station efficiency, availability performance, and power quality deviations.
- Safety performance in constructing and commissioning diesel fired power stations using reciprocating engines.
- Safety performance in operating and maintaining remote islanded power stations.

Specific Scope Requirements

The IPP will need to work closely with the Amrun Project Team in respect of interfacing with the mine construction and with Rio Tinto for long term operations. Included in scope are:

- Ring fenced turnkey power station to meet Amrun Project mine electrical design load profile, fuel efficiency guarantees and contracted availability criteria.
- Battery limits as defined within contract for all interfaces.

- Construction of power station in accordance with the Amrun Project HSE management plan.
- Compliance with mine HSE and reporting requirements during term of power purchase agreement (**PPA**).
- Power system studies.
- Undertaking of all engineering to facilitate the procurement, construction, pre-operational testing and commissioning of the power station and ancillary equipment within the power station boundary.
- Coordination with the Amrun Project Team in the design of engineering interfaces between the power station and the mine project at the designated battery limits.
- Provision of vendor data to the Amrun Project Team to support downstream electrical studies on the distribution system.
- Conducting of studies to confirm compliance with network technical rules.
- Conducting of studies to confirm emissions (stack, noise and vibration) compliance within project approval limits.

Scope of Works extends to the following battery limits:

- HV terminals of step-up transformers.
- Control and communications within power station (integrated with mine operations).
- Potable water/ fire water/ diesel and sewer at the fence-line.
- Cleared and grubbed surveyed pad (Amrun Project Team to arrange site clearance and grubbing).

Engineering work to support delivery of the power station within the fence line (inclusive of the earth grid) is the responsibility of the IPP.

The new Amrun power station is required to be a diesel sourced solution. Bid documentation will be required to explain how this could be integrated into possible future introduction of solar PV.

The IPP will need to be capable of holding all approvals necessary to operate the power plant in compliance with State and Federal legislative requirements, and in accordance with the environmental authority applying to the Amrun Project.

The power station is proposed to be delivered under two separate agreements: (i) a development agreement which governs the turnkey build of the power station; and (ii) a long term PPA which underpins the supply of electricity to the mine.

Construction will be managed / undertaken by the IPP in the period between Q1 2017 and Q4 2017. On-site construction to occur in accordance with the Amrun project HSE, project reporting and scheduling standards. IPP power station commissioning is to be completed to meet the first power milestone on the 28th of February 2018.

The IPP will be remunerated under the PPA by payment of electricity over the term of operation of the power station by the IPP. No payments will be made to the IPP during the development phase. Finance assessment will be a key criteria of tender evaluation.

Forecast Award Date: 3Q, 2016

Power Station forecast Pre-Op / Commissioning Date: To be completed in the period from end Q3, 2017 to end Q4, 2017.

Instructions to Tenderers

If your business possesses the capability and capacity to perform the stated scope of work, please submit a registration of interest via the ICN Gateway at www.amrun.icn.org.au.

Please ensure that:

- Your company profile on ICN Gateway is complete, up-to-date and accurate
- You register your interest as a Full Scope or Partial Scope supplier (where applicable), and
- You respond to all project-specific questions via the ICN Gateway.

More Information

Please contact the Industry Capability Network Queensland on +61 (7) 3364 0676 should you have any enquiries regarding this scope of work.

More information about the Amrun Project can be found on the Rio Tinto website www.riotinto.com.

Disclaimer

Scope of Work is indicative only and is intended to be used as a summary description of work which may be required by Rio Tinto and may be subject to change. Full scopes of work will be made available to parties that are invited to tender. There is no undertaking to contract or proceed to a competitive process implied by this form. Further contact with interested suppliers will be at Rio Tinto's discretion.