



## Power Transformer

Package Number: 25977-000-MRA-ETP0-00001

Package Title: Power Transformer

### General Description

Rio Tinto's Amrun project is located approximately 40 km south-west of Weipa in far North Queensland, Australia. The proposed SoE site will require Power. The scope includes design, manufacture, testing and supply of Power Transformers, as well as providing technical support during construction and commissioning.

### Specific Scope Requirements

The total number of power transformers required for this project is 5. All transformers with rated Power above 2.5 MVA are to be treated as power transformers. Transformers shall be suitable for parallel operation. Transformers of the same type and rating shall be totally interchangeable.

The power transformers shall be of outdoor oil immersed, double wound, breather type with conservator, air cooled ONAN or ONAN/ONAF type, off-load tap changing facilities on the winding of highest voltage.

The required rating and quantity of power transformers are as follows:

- 1.30/36 MVA, 11/22KV, 4%, ONAN/ONAF, YNd1 (Quantity: 2)
- 2.15 MVA, 22/6.9KV, 4%, ONAN, Dyn11 (Quantity: 2)
- 3.4 MVA, 22/6.9KV, 4%, ONAN, Dyn11 (Quantity: 1)

The transformer neutrals on star point windings shall be suitable for earthing through neutral earthing resistor.

All Transformers shall be completely assembled, pre-wired, and tested as a complete package prior to shipment.

The Contractor may be required to provide technical assistance and on-site services for the setup, testing and/or commissioning of the transformer and/or on site.

Only designs and technology that have been proven in service for a minimum of five years in a mining environment shall be offered.

The electrical design, construction and installation shall conform to all applicable Laws and Australian Standards including, but not limited to:

- Electrical Safety Act 2002 (Qld)
- Electrical Safety Regulation 2013 (Qld)
- Work Health and Safety Act 2011 (Qld)
- Work Health and Safety Regulation 2011 (Qld)
- Mining and Quarrying Safety and Health Act 1999 (Qld)
- Mining and Quarrying Safety and Health Regulation 2001 (Qld)
- Workplace Health and Safety Queensland Code of Practice for Plant
- Workplace Health and Safety Queensland Code of Practice for Noise Management at Work
- AS 3000 – Wiring Rules
- AS 3007 - Electrical Equipment in Mines and Quarries – Surface Installations and Associated Processing Plant
- AS 4871 – Electrical equipment for mines and quarries - General requirements

**Forecast Award Date: 2Q, 2016**

### **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](http://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](http://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.