



# South of Embley project

## Expression of interest

## Transportable Switchrooms

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

Package Title: Transportable Switchrooms

### General Description

Rio Tinto's South of Embley project is located approximately 40 km south-west of Weipa in far North Queensland, Australia. The site will require Transportable Switchrooms. The scope includes design, manufacture, factory acceptance testing, pre-commissioning and supply of Transportable Switchrooms, as well as providing technical support during construction and commissioning.

### Specific Scope Requirements

The Switchrooms will house Electrical Switchgear, Motor Control Centres (MCCs), Variable Speed Drives (VSDs), Uninterruptable Power System (UPS), Fire Panels, Control Systems and IS&T equipment.

The switchrooms shall be designed to be a transportable structure. This shall be either in one piece or in a multi-part modular form to be finally assembled on site. The maximum allowable outside dimensions for any transportable switchroom or part thereof shall be 5600mm wide, 4000mm high and 33000mm long unless otherwise specified or approved. The ceiling height shall be a minimum of 3000mm. Special attention shall be paid to the height requirements on rooms that include HV VSDs and HV switchgear with regards to cooling and arc fault duct installation.

The switchroom building shall be self-supporting complete with column beams, stairs and landings, and designed to be installed on reinforced concrete pedestals just above grade. The column heights shall be such that the underside of switchroom floor is at a level 3m above the finished ground level, for safe access to cable ladders, fire suppression gas bottles, etc.

Table 1: Switchroom Schedule

Switchroom Description
Material Handling Switchroom
Wharf Switchroom
Beneficiation Plant Switchroom
Process Water Switchroom
ROM Switchroom

The scope of works shall include but not be limited to:

- Preparation and submission of all schedules, procedures, plans, lists, data and records.
  - Management of procurement, inspection, fabrication, testing and expediting of supplied items.
  - Review of Rio Tinto supplied floor plans and building elevations for compliance with all codes, standards, specifications and requirements
  - Detailed engineering necessary for design documentation, specification, certification and supply of all materials, construction methods, structure and components
  - Specification and supply of all components, materials and consumables which are necessary and reasonable to provide for a fully functioning transportable switchroom building
  - Fabrication of the transportable switchroom buildings including all supporting structural column beams (except column design), platforms, walkways and stairs.
  - Design, certification, supply, fabrication, application of protective treatments
  - Detailed engineering design documentation, supply, installation, wiring and testing
- Installation of free issued equipment and all cabling, testing and pre-commissioning work
- Provision of drawings and data from initial design to “As-built” status including, but not limited, to the documents nominated within the material requisition.
  - Disconnection and securing any services, including cables, between multiple shipping segments, and preparation for shipping.
  - Crating, sealing, securing, bracing and craneage of switchroom transportable modules onto Rio Tinto supplied transport for shipment to site.

The electrical design, construction and installation shall conform to the latest revisions of all codes, standards, rules and regulations governing in the State of Queensland, Australia and all authorities having jurisdiction over the site.

Equipment shall comply with the latest issues, addenda and supplements of all relevant site specifications, standards, regulations, codes and statutory requirements.

## **Delivery Schedule**

### **Forecast Award Date: 1Q, 2016**

In 2015, Rio Tinto is undertaking a detailed feasibility study that will inform a final investment decision. A decision is expected to be received in the final quarter of 2015. Future procurement decisions are dependent on board approval.

Construction of associated mine infrastructure is anticipated to take 36 months once final board approval is granted.

## **Instructions to Suppliers**

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.southofembley.icn.org.au](http://www.southofembley.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 South of Embley 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.