



Amrun project

Expression of interest

Materials Testing

Package Number: 25977-000-HC4-NE00-00036

Package Title: Materials Testing

General Description

Rio Tinto's Amrun Project is located approximately 40 km south-west of Weipa in far North Queensland, Australia. The Amrun Project will require a contractor to provide all works associated with performing independent quality checks and material testing on Separate Contractor's work and materials on an as directed basis.

Specific Scope Requirements

The Contractor shall be responsible for the following:

- Collect, log, package and transport test samples as required to the relevant Contractor supplied testing facilities. All tests shall be NATA certified where applicable and performed in accordance with the relevant Australian Standards.
- Perform any generic testing off site that may require a third party inspection as directed by the company.

Prepare and issue reports for all tests performed as requested, which may include, but not be limited to the following:

Pavement materials and soils

- Compaction and densities
- California Bearing Ratio tests and Atterberg limit tests
- Dynamic Cone Penetrometers and plate load tests

Grout and Concrete

- Slump. Shrinkage and compressive strength tests
- Water quality and admixtures content
- Grout cube tests

Structural Steel/ Mechanical Equipment

- Bolt torqueing checks and paint/ protective coating thickness

Piping

- Radiographic Examination (RT)
- Ultrasonic Thickness Measurement (UT)
- Penetrant Examination (PT)
- Magnetic Particle Examination (MT)
- Positive Material Identification Testing (PMI)
- Hardness Testing (HT)
- Visual Examination (VT)

Electrical

- Transformer insulating oil tests
 1. Dielectric breakdown voltage test
 2. Dissolved gas analysis
 3. Oil resistivity
 4. Tan-Delta/Dissipation Factor test

Environmental

- Water physical analysis including pH, NTU, Total Suspended Solids, Dissolved Oxygen, Electrical Conductivity.
- Water chemical analysis of ammonia, total nitrogen, total phosphorus, oil & grease, Total Petroleum Hydrocarbon (TPH) fractions, aluminium
- Water biological analysis of BOD, thermo-tolerant coliforms, E coli, faecal coliforms
- Soil analysis of TPH fractions (C6-C9, C10-C14, C15 and greater)

Testing that requires the use of a laboratory shall be performed on or off Site at Contractors facility or at an alternative facility nominated by Contractor.

Forecast Award Date: 3Q, 2016

The primary Contractor may utilise the ICN Gateway to procure subcontractors for partial scopes of work. Expressions of interest for works associated with this scope are therefore encouraged to be submitted to ICN.

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.

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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.