



Brownfield Expansion Project (BFX)

Olympic Dam Projects – Expression of Interest

Project Overview:	The proposed BFX Project is to deliver a brown field expansion of its underground and surface operations to deliver increased throughput of the existing plant and increasing overall copper production capacity.
Package Title:	Site Test Work – Reaction Shaft Sampling & Jacket Cooling Water Survey
Reference:	BFX-SPS-083 / SOW ref: BHPBOD-U200O000030-SPS-SWE-0044
Package Description:	<p>BHP is seeking expressions of interest (EOI) from contractors capable of providing both of the following services at OD remote site:</p> <ul style="list-style-type: none">• (Part A) Undertaking sampling campaign and analysis on the samples collected for the Reaction Shaft (RS), and• (Part B) Conducting assessment of actual heat distribution of the Direct to Blister Copper Flash Furnace (DBF) by conducting a detailed Cooling Jacket Water survey. <p>Outcome from these works will form key input into BFX detailed design phase and determine key dimensions of new reaction shaft.</p> <p>Details on your organisational capacity, capability, and experience in delivering such services safely will be used to form a shortlist for tender.</p>
Scope Overview:	<p>The successful contractor, selected at the conclusion of this EOI and subsequent tender, will be capable of:</p> <p>(Part A)</p> <ul style="list-style-type: none">• Fabrication of sampling trough to collect metal droplets;• Sourcing other consumables such as multipoint thermocouple & CELOX probe;• Collecting molten metal droplets and gas samples, temperature and oxygen measurements at different feed rates from multiple locations on the RS;• Working at high temperature environment (operating furnace);• Preparing samples collected to be transported to Contractor's specified laboratory for analysis;• Complete the following analysis on samples collected:<ul style="list-style-type: none">○ XRF assay, Cu, Fe, Si, Al₂O₃, As, Bi, CaO, Co, Fe₂O₃, K₂O, Pb, TiO₂, P₂O₅, Se, Te, Sb, Zn, Ni, F, and○ Sulphur Analysis by LECO(This can be outsourced to a third party laboratory)• Prepare interpretive report based on sampling and laboratory analysis results <p>(Part B)</p> <ul style="list-style-type: none">• Water temperatures (supply and return line) and flow rates measurement from approximately 1064 cooling jacket water lines;• Sourcing appropriate and fit for purpose measuring instruments;• Comparison with Citect data and previous audit results; and• Preparing an interpretive report, including all relevant calculations, drawings etc. based on the laboratory analysis and survey results.

	<p>The contractor will be required to deliver the following:</p> <ul style="list-style-type: none"> • Reaction Shaft capacity analysis and confirming the effective reaction zone and/or sulphur elimination capacity; • Handling, storage and transport of samples collected; • Laboratory testing including preparation of samples; • Jacket Cooling Water system audit and comparison with baseline performance. • Produce a final interpretive report, outlining current heat loading, heat fluxes and flow rates. <p>At all times during the delivery of the services the contractor will be expected to adhere to BHP safety policies and standards including participation in BHPs field leadership program.</p>
<p>Target Award Date:</p> <p>Expression of Interest (EOI):</p> <p>Contact:</p> <p>Project URL's:</p> <p>Disclaimer:</p>	<p>Q4 CY 2018</p> <p>Suppliers are invited to express an interest in this scope of work by registering on the ICN Gateway online platform. Please ensure that your ICN Gateway company profile is up to date before registering your EOI.</p> <p>Industry Capability Network of South Australia. (+618) 8429 3376</p> <p>For more information about BHP please refer to the company website www.bhp.com</p> <p>For information on specific project opportunities please visit the ICN Gateway online platform at www.gateway.icn.org.au.</p> <p>This package description and target award date is indicative only and subject to change. It is intended to provide only a brief outline of certain works that may be required for the proposed BFX Project and should be read in conjunction with the BFX project description on ICN Gateway.</p>