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:	**BFX080 Primary Water Supply Survey** The survey required for this work is for the following areas: 1. GAB54 Pipe Line Alignment 2. M6 Pipe Line Replacement 3. M6C Pipe Line Duplication 4. M1C Pipe Line Duplication 5. Detailed Ground Survey Locations
Package Description:	BHP is seeking expressions of interest (EOI) from contractors capable of providing detail ground surveys in remote areas for the following scopes, on an individual or combined basis: 1. GAB54 Pipe Line Alignment Survey a 100m wide corridor from PS6A in a north-easterly direction to GAB54 for 15km. The existing easement corridor extends from PS6A for approx. 12.5km. This is approximately 200km North East from Olympic Dam. 2. M6 Pipe Line Replacement Survey a 50m wide corridor from the existing pipe centre line along the north-west side, commencing from the M1/M6 Junction at chainage 113,400m to chainage 165,000m, in the direction of the pipeline flow. The replacement section starts approximately 35km North East from Olympic Dam. 3. M6C Pipe Line Duplication Survey a 100m wide corridor from the 10K pit to the Process Water Storage and the pipeline termination area at the Process Water Storage. Using the existing M6C as the corridor centreline. 4. M1C Pipe Line Duplication Survey a 100m wide corridor from the 10k pit to the Desalination Plant Raw Water Tank and the pipeline termination area at the Desalination Plant. Using the existing M1C as the corridor centreline. 5. Detailed Ground Survey Locations Survey the areas for: • Existing M6 pump stations and surrounding area extending 50m from boundary of the pump station; - PS6A approx. 200km from OD - PS6B approx. 135km from OD - PS6C approx. 75km from OD • The ‘10k’ Interchange pit, approx. 10km from OD and surrounding area extending 50m from boundary of the pit • 110ML Process Water Storage, the area of 250m x 250m to the East of the existing 200ML Process Water Storage.

	• 85ML Potable Water Storage, the area of 250m x 250m to the South of the existing 60ML Potable Water Storage. • Existing Desalination Plant • New Desalination Plant, the area of 250m x 150m to the North of the existing Desalination Plant. • Process Water pump station, PS200 and surrounding area extending 20m from the boundary. This is located at the OD Plant. • Desalination Brine Water pump station, PS4 and surrounding area extending 20m from the boundary. This is located at the Desalination Plant. • Potable Water pump stations PS2/PS3 and surrounding areas extending 20m from the boundary. These are located at the Desalination Plant. The survey will ensure all salient features that may impact on works are identified including: • existing infrastructure (pipe alignments) • natural features together with elevations • other surface features including vegetation, sand dunes • man-made structures • boundaries (reserves), • easements, • right of ways • road corridors. Review of existing survey data and translation if required to suit proposed survey datum and mapping systems, including interpretation and final reporting. Details on your organisational capacity, capability, and experience in delivering such services safely will be used to form a shortlist for tender.
Scope Overview:	The successful contractor, selected at the conclusion of this EOI and subsequent tender, will be capable of: • Membership of the Institute of Engineering and Mining Surveyors Australia • Propose methodology for provision of Services, which would provide the opportunity to explore and utilize different technologies, resulting in acceptable accuracy, reduced time and costs, and greater safety for personnel, for the broader, large scale areas. Eg.: ➢ LiDar ➢ Traditional pipe location methods ➢ GPR systems ➢ Drones (with appropriate BHP & CASA approvals) The contractor will be required to deliver the following: • A feature and topographic survey with GIS based map of survey area • Produce a final interpretive report Provision of the following data, which shall constitute the deliverables: • Digital MOSS Genio & ASCI file. • AutoCAD 2D File • AutoCAD 3D File • GIS Mapping Data • Plans at a scale of 1:5000 • Detail survey areas 1:500 • Accuracy of Detailed survey Areas 10mm • Accuracy of pipe alignment surveys 30mm All surveys shall comply with the following: • Levels to AHD • Mapping to MGA, with appropriate Zone adjustments

	• Conversion to BHP's Mine Grid if required 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.
Target Award Date:	Q4 CY 2018
Expression of Interest (EOI):	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.
Contact:	Industry Capability Network of South Australia. +61 (8) 8429 3376
Project URL's:	For more information about BHP please refer to the company website www.bhp.com For information on specific project opportunities please visit the ICN Gateway online platform at www.gateway.icn.org.au.
Disclaimer:	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.