



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:	BFX Surface Engineering
Reference:	BFX-SPS–Combined Engineering Services
Package Description:	<p>BHP is seeking expressions of interest (EOI) from contractors capable of completing detailed engineering and construction study works for the following scopes :</p> <ul style="list-style-type: none">- Grinding and Flotation<ul style="list-style-type: none">o optimise mill configuration and flotation equipment selection of the grinding circuit,o conduct a grinding and flotation circuit finalisation trade-off study.- Non Process Infrastructure (NPI) – Water Study<ul style="list-style-type: none">o assessment of suitability of existing infrastructure and modelling and engineering study of the 42 ML/day and 50 ML/day water requirement,o investigate and confirm the BFX requirements for the fire systems and potable water and investigate potential alternative water sources for BFX,o conduct two trade off studies for water.- Non Process Infrastructure (NPI) – Power Study<ul style="list-style-type: none">o develop power demand curves for the BFX requirement,o investigate the load management and load shedding requirements (275kV line) for BFX based on the power demands,o develop power demands and standalone solutions based on the constraints analysis provided by the client.- BFX Surface Studies<ul style="list-style-type: none">o deliver concept level engineering for a low capital optimised business-as-usual scenario and for a capital efficient scenario which would form part of a large brownfields expansion project,o this work is required for the surface plant section of Olympic Dam and will take note of particular constraints in the current plant including non-process infrastructure.- SPS Engineering Refresh<ul style="list-style-type: none">o refresh and consolidate the engineering, cost and schedule work completed to date incorporating changes in mine feed inputs, optimisation studies, test work data and a revised modular design strategy.- Acid Plant Options Study<ul style="list-style-type: none">o conduct an Identification Phase Study to BHP major projects requirements that reviews the best short, medium and long term investment strategy for the acid plant considering the existing operation, the planned sustaining capital investment on the existing plant and the near term growth plans.

- Transport and Logistics Study
 - o Includes the transport, storage, and handling of increased products for operational requirements including both offsite and onsite storage facilities for post BFX,
 - o handling, transport and traffic logistics, staging and management of construction packaged and modular plant and equipment for a stick build construction methodology,
 - o production volume estimate and dynamic simulation model of all inbound and outbound products,
 - o conduct two trade off studies for inbound and outbound logistics'.

- Modular Study
 - o identify and define the infrastructure scope required to facilitate a modularisation strategy and update the current BFX module plan,
 - o complete trade off studies to determine preferred module size, transportation route and infrastructure scope,
 - o develop a plan for offsite module fabrication including industry capability survey,
 - o develop design basis for all modularisation facilitation infrastructure,
 - o identify and quantify all the impacts of modularisation on the existing BFX project estimate.

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:

- Allocation of appropriately skilled and qualified personnel, including but not limited to the following capabilities:
 - o Engineering (mechanical, electrical, metallurgical, process, civil, structural, drafting)
 - o Project Controls (cost, estimating, scheduling)
 - o Contracts & Procurement (contract specialists, procurement specialists)
 - o Project Management
 - o Construction Management
 - o Risk Management
 - o Safety Management
 - o Technical writing
 - o Dynamic modelling

- Management of the Contractor team including subcontractors and sub-consultancies

- Execution of the study scope within the approved budget and delivery schedule.

- Preparation of a study deliverables and a detailed study report.

- Technical writing of reports, scopes of work and other documents as required.

- Maintaining client confidentiality and information security.

The contractor will be required to deliver the following:

	<ul style="list-style-type: none"> - Development of detailed engineering study reports, recommendations, engineering calculations, engineering drawings, cost estimate updates and schedule updates. - Facilitation of risk reviews, design reviews, cost and schedule reviews. - Routine reports on progress, cost and schedule. - A final updated study report(s). <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 BHP's 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>Q3 CY 2019</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. (+61) 409 583 961</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 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>