



# Jimblebar Beneficiation

## Iron Ore Project – Expression of Interest

**Project Overview:** The proposed Jimblebar Beneficiation project is located within BHP’s existing Jimblebar mine in the Pilbara region of Western Australia. An overview of the Jimblebar beneficiation Project is available at <https://gateway.icn.org.au/>

**Package Title:** **Module Fabrication, Pre-Assembly and Testing**

**Reference:** 7741-C-53998

**Package Description:** Fabrication, pre-assembly and modularisation, including bulk material supply, free-issued equipment fit-out and supply / install of selected process infrastructure. Includes off-site testing to the greatest extent possible and full commissioning of SMART modules. Refer Attachment 1 for further details.

Facility Summary	Tonnage (Metric Tonnes)	Module Type (Qty)			
		SS	DM	MDM	SM
Dry Inflow and Outflow System <i>(Includes transfer station, conveyors, and sample station)</i>	1,673	4	68	96	3
Wet Processing Plant <i>(Includes wet screening, desliming, dewatering, and thickeners)</i>	5,744	38	291	101	32
Tailings Disposal System <i>(Includes tailings structures and decant system)</i>	83	0	9	6	0
Process Services <i>(Includes process water, service water and reagents)</i>	47	14	13	6	2
<b>TOTAL</b>	<b>7,547</b>	<b>56</b>	<b>381</b>	<b>209</b>	<b>37</b>

**SS** - Stick steel or loose steel; **DM** - Dumb module; **MDM** - Multi-disciplinary module; **SM** - Smart module

**NOTE: Please refer to Attachment 1 below for additional information**

**Target Award Date:** Q2, CY2024

**Expression of Interest (EOI):** Suppliers and Contractors are invited to express an interest in this scope of work by registering on the [ICN Gateway](https://gateway.icn.org.au/) online platform. Please ensure that your ICN Gateway company profile is up to date before registering your EOI

**EOI Closing date:** 29 November 2022

**Package Description:** Industry Capability Network of Western Australia. (+618) 9365 7490

**URL's:** For more information about BHP Billiton please refer to the company website [www.bhpbilliton.com](http://www.bhpbilliton.com)

For information on specific project opportunities please visit the ICN Gateway online platform at [gateway.icn.org.au](http://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 Jimblebar Beneficiation Project and should be read in conjunction with the Jimblebar Beneficiation Project description on ICN Gateway

# **EXPRESSION OF INTEREST**

## **ATTACHMENT 1**

**WESTERN AUSTRALIA MAJOR PROJECTS**

**JIMBLEBAR BENEFICIATION PROJECT**

**MODULE ASSEMBLY AND FABRICATION**

## 1. INTRODUCTION

The Jimblebar Beneficiation Project proposes to integrate a deslime plant into the existing Jimblebar mining hub. The purpose of the project is to lift ore quality, reduce carbon emissions and maximise asset value.

The following describes in further detail the scope of fabrication, pre-assembly and modularisation for the Jimblebar Beneficiation project.

**BHP welcomes expressions of interest for both full and partial scopes for this package. Please register accordingly as a Full Package or Partial Scope supplier.**

## 2. FABRICATION SPECIFIC WORKS

The fabrication scope shall encompass, but not be limited to, the following requirements:

1. Supply, fabrication, machining, and trial assembly of black steel;
2. Supply of all supervision, labour, plant, equipment, crange, transport, tools, materials, consumables and other items required to complete the works;
3. Perform all necessary quality assurance and control checks and administration;
4. Supply all welding procedure specifications and qualification records and ensure all welders are qualified to the required standard;
5. Section sizes, plate thicknesses and steel grades shall be specified during tender phase;
6. Provision of all welding equipment, materials and labour to complete the works;
7. Supply of all weld maps;
8. Supply of all miscellaneous attached and loose fabricated items as shown on the drawings including plates in stiffeners, fitted stiffeners, cleats, brackets, splice plates, connections, braces;
9. Provision of all scaffolding, temporary stands, jigs and non-permanent attachments as required to complete the works;
10. Drilling of all holes;
11. Plug welding and grinding flush of all slotted holes;
12. Welding to be completed in accordance to AS 1554 – SP Welding or equivalent;
13. Non-destructive testing (NDT) to AS standards or equivalent;
14. Supply all bolts, nuts, washers and associated registers and certificates, assume Grade 8.8;
15. Fabrication shall comply with BHP requirements for protective coatings including surface treatment (three coat paint system)
16. Preparation, supply and progressive population of all painting QA paperwork;
17. Preparation, supply and progressive population of all inspection and test plans (ITPs);
18. Fabrication shall comply with BHP requirements for safe packaging, transportation and storage, including supply of all temporary steel and/or wood;
19. Supply of as-built drawings;
20. Preparation, supply and progressive population of a manufacturer's data report (MDR);
21. The contractor shall permit BHP and/or approved representatives to perform inspections and perform checks;
22. Provision of all special tools and ancillary items required for installation and maintenance of the goods supplied; and
23. Supply all lifting attachments (including certified lifting lugs) necessary to unload, assemble, install and maintain the goods.

### 3. PRE-ASSEMBLY AND MODULARISATION SPECIFIC WORKS

The pre-assembly and modularisation scope includes supply of all supervision, labour, plant, equipment, cranes, yard space, all necessary plant, tools, materials and consumables, trucks, self-propelled modular transporters (SPMTs), rigging, scaffolding, and other items required for consolidating the fabricated steelwork and procured equipment items (BHP supply) at a pre-assembly area to create modules, including:

1. assembly of primary steel module, with delivery and stowing off at the pre-assembly yard;
2. fit-out of secondary and tertiary steel work, including grating, handrail and kick plate;
3. fit-out of mechanical equipment, piping, electrical equipment, and other field devices;
4. provision and fit-out of all appurtenances including but not limited to pipe supports, cable tray, brackets, light poles, and hoses;
5. installation of transport steel and grillage.
6. pick and rotate to required position for transport; and
7. transportation of module to wharf ready for loading onto ship.

A module is generally referred to a smaller unit (sub-unit) of a much larger whole. The project module sizing can be small (e.g., a ground-mounted low-level conveyor module), medium (e.g., a 24 m conveyor truss) or large (e.g., a section of a major structure). The project modules are also categorised into four levels of complexity and described in Table 1.

**Table 1** Categorisation of modular construction

<b>Stick Steel (SS)</b>	<b>Steel (Dumb) Modules (DM)</b>	<b>Multi-Disciplinary Modules (MDM)</b>	<b>Smart Modules (SM)</b>
No Modularisation	Low Modularisation	Medium Modularisation	High Modularisation
Stick steel members and welded frames: <ul style="list-style-type: none"> <li>• all individually installed, connected and assembled on-site.</li> </ul>	Steel dumb module will typically have: <ul style="list-style-type: none"> <li>• structural steelwork;</li> <li>• mechanical platework;</li> <li>• grating, handrail and stairs.</li> </ul>	Multi-disciplinary module will typically have: <ul style="list-style-type: none"> <li>• structural steelwork;</li> <li>• mechanical platework;</li> <li>• grating, handrail and stairs;</li> <li>• mechanical equipment</li> <li>• piping;</li> <li>• cable tray only.</li> </ul>	Smart module will typically have: <ul style="list-style-type: none"> <li>• structural steelwork;</li> <li>• mechanical platework;</li> <li>• grating, handrail and stairs;</li> <li>• mechanical equipment</li> <li>• piping;</li> <li>• electrical, instrumentation and controls;</li> <li>• offsite factory acceptance tested (FAT) and no-load commissioned.</li> </ul>

Project modules will be horizontal, vertical, single level or multi-level. They can be transported in the final installed orientation, or they can be laid down for the purposes of shipping and or road transport. Table 2 provides indicative module maximum sizing by width, height, length and mass.

**Table 2** Module maximum sizing by width, height, length and mass

	<b>Width (m)</b>	<b>Height (m)</b>	<b>Length (m)</b>	<b>Module Mass * (t)</b>
Maximum Width Module	15.0	10.0	21.0	72.9
Maximum Height Module	8.3	14.5	18.5	102.1
Maximum Length Module	6.5	9.3	48.5	249.6
Maximum Mass Module	9.4	14.2	35.5	264.4

\* Excludes transport steel

To facilitate pre-assembly and meet schedule requirements the off-site pre-assembly yards must at least satisfy these criteria:

1. be close to fabrication workshops;
2. have access to SPMTs;
3. have existing office and crib facilities or space and/or provisions for temporary offices and crib facilities to be added as required;
4. have large, enclosed workshop/shed to allow for work during periods of inclement weather;
5. have existing overhead workshop cranes;
6. have sufficient space to accommodate mobile cranes;
7. have easy and close access to a wharf to accommodate a Big Lift vessel or similar;
8. be able to accommodate heavy trucks, trailers, and multiple crane usage.

Note the scope includes off-site factory acceptance testing and no-load commissioning of Smart Modules prior to shipping / transport.

Steel and module delivery shall be progressive, with delivery terms defined as Free Along Side (FAS Incoterms 2020).

# **INSTRUCTIONS TO SUPPLIERS**

## **1. EOI TERMS AND CONDITIONS**

The Company reserves the right to reject any EOI submission for any or no reason, at its sole discretion.

Nothing in this EOI document may be relied upon as a guarantee by the Company that the tender process alluded to in the EOI document will be undertaken or that any future work or supply will be awarded.

## **2. EVIDENCE OF CAPABILITY**

EOI participants are to include examples of equivalent (or nearest equivalent) of the supply the subject of EOI, including year of supply and client.

## **3. PREQUALIFICATION PROCESS**

Notwithstanding that an EOI participant may be an existing approved vendor to Company (or in the event that any EOI participant is not an existing Company approved vendor), Company may require such participant to complete additional pre-qualification documentation.

Supplier is to provide phone and e-mail contact details for representative who will be able to respond to any questions Company may have.