

WMP-CON-730 | Nebo Bore Field Water Supply System – Supply and Installation

Procurement Route

OZ Minerals Musgrave Operations Pty Ltd (the Principal) requires the services of a suitably qualified and resourced contractor to supply, install and commission a water supply system for the West Musgrave Project (WMP): The Nebo Bore Field Water Supply System.

Requirement / Scope of Works

The WMP will involve the mining of the Nebo and Babel Ni-Cu-PGE sulphide deposits as individual open pits. Nebo sits on a paleochannel aquifer and requires dewatering ahead of mining. Dewatering is planned to involve ground bores and groundwater sumps. Bore dewatering is assumed to be free of sediment and will be supplied directly to the mine site's raw water system.

Nebo dewatering system is intended to provide water for the WMP from construction phase through to commissioning and early years of operation.

The dewatering system will consist of approximately 15 in-pit and ex-pit bores. Drilling, development and pump testing of these bores is ongoing. System design will be refined as more information becomes available. Two (2) (and soon to be four (4)) of these bores are already equipped and supply the current construction water demands.

The scope details at the time of publishing this Expression of Interest (EOI) (pending detailed design), are provided below. Detailed design will be completed by others ahead of this construct-only scope.

Scope includes:

1. Supply, site installation and commissioning of bore field collector lines, trunk mains, fittings and tie-in works to the raw water storage dam. The storage dam itself will be constructed by others. Pipeline specification and quantity estimation in table below.

Co-extruded white, PE (Above Ground)	Length (m)
160DN PN12.5	1400
160DN PN20	500
315DN PN12.5	4000
315DN PN20	1500
400DN PN12.5	1600

2. Supply, site establishment and equipping of 15 raw water supply bores, including supply, installation and commissioning of the following:
 - a. 11 submersible bore pump sets; preliminary indications are that pumps will be a mixture of Bore Type 1 – SP17-13 (7.5kW) and Bore Type 2 – SP77-7 (26kW). Current expected split is approximately six (6) Type 1 bores and five (5) Type 2 bores. Pump specifications are typical and will be firmed up in detailed design.
 - b. Two (2) sets of complete and interchangeable spare bore pumps for each pump type complete with discharge valve, riser, adaptor, motor shroud, full length tested submersible cabling and termination kits, i.e., a total of four (4) spare pumps.
 - c. Bore headworks, riser (flexible riser for in pit bores), security cable. Headworks shall include instrumentation for flow and pressure metering and all valving and interconnecting piping for safe operation and maintenance of the equipment.

- d. Local power generation gensets and fuel storage for all bores including integrated solar power panels and batteries. The system is likely to consist of six (6) 60 kVA gensets for type 1 bores and five (5) 25 kVA gensets for type 2 bores.
 - e. Including 5000 L self-bunded diesel fuel storage tanks (constructed and approved to AS1940/AS1692 with minimum seven (7) days run time per diesel unit), and suitable zero spill high flow rate refuelling equipment. All generators to mine specification suitable for site operation conditions with high temperature and dust. Solar power panel for trickle charge of generator batteries and lockable battery isolators shall be included.
 - f. Local control panel and radio telemetry and control. The control skids for in-pit bores are expected to be trailer mounted to allow movement as mining progresses. Scope includes control instrumentation, typically: a pressure transmitter, level sensor, transmitter and flow meter.
3. SCADA and telemetry systems supply and programming for safe and reliable operation of the system.
 4. Supply, site installation and commissioning of water supply scheme equipment and associated supporting equipment and infrastructure, including provision of training in operation/maintenance requirements.
 5. Supply of all off-site and on-site labour, materials, and equipment to complete the works including supervision, tools, plant / machinery, site survey, testing and reporting.
 6. Provide shop drawings for all bespoke equipment.

Further Technical Information (if applicable)

Site Location and Environmental Conditions

- The WMP located approximately 25km South of the Mantamaru (Jameson) Community in Western Australia. All equipment shall be rated for continuous full load operation at site ambient temperature range of -5 to 50 degrees Celsius.
- Access to Site requires compliance with the Principal site mobilisation and includes a requirement for an approved Ngaanyatjarra Land Council Entry Permit, which will be organised by the Principal. The WMP is a fully dry (alcohol free) site.

Forward Looking

On the receipt of Expression of Interest (EOI)s, the Principal will review and on short-listing, formally advise each successful contractor/supplier that they will be invited to participate in a formal contract tender process (timing unknown at this stage, but estimated to be in the next few months).

The Principal is in the process of procuring detailed design services for the works under the scope. Subject to overall project schedule requirements, the Principal may elect to procure and free issue (for installation by the successful contractor/supplier) some long lead items identified during detailed design.

Submission of EOI

The Principal invites capable and experienced contractors/suppliers to register their EOI, clearly identifying their capability to execute the scope herein. The Principal will use the EOI to improve our understanding of market capability and interest, via the ICN Gateway.

Suitable registrants may subsequently be invited to submit a tender for this package.

Please email WMPCommercial@ozminerals.com should you have any questions.