

## **WMP-CON-193, Construction Water Supply System - Supply & install including raw water supply for potable water treatment**

### **Package Summary**

OZ Minerals Musgrave Operations Pty Ltd requires the services of a suitably qualified and resourced contractor to supply, install, commission, operate and maintain a construction water supply system for the West Musgrave Project (WMP). Key areas of scope can be summarised below:

1. Supply, site installation, commissioning, and operation including maintenance of water storage infrastructure (turkey nests and storage tanks) and water transfer pipe line, booster pumps, filled generators and piping distribution network.
2. Supply and site establishment and equipping of two raw water supply bores, including supply, installation, and commissioning of two submersible bore pump sets, complete with local power generation and fuel storage, local control panel and radio telemetry and control. Two spare fully complete and rotatable submersible pump sets are to be included.
3. Supply, site installation, and commissioning of water storage infrastructure (turkey nest and multiple storage tanks) together with water transfer pump station and pipe line network.
4. Control, programming and telemetry system for safe and reliable operation of the system and equipment including automatic start and stop control, metering and alarm and fault indication.
5. Supply, site installation and commissioning of equipment.
6. Operation and maintenance of water supply scheme, equipment and associated supporting equipment and infrastructure, including provision of training in operation / maintenance requirements.
7. Operation and maintenance of the construction water bores and plant including supply of personnel, plant and machinery, re-fuelling management, maintenance, consumables and water supply production scheduling required for the West Musgrave Project.
8. Supply of all off-site and on-site labour, materials and equipment to complete the works including supervision, tools, plant / machinery, site survey, testing, reporting and inspection services for WMP raw water supply requirements.
9. Construction water bores commissioned and available for the supply of water to local storage commencing August 2022. Water pipeline network, together with transfer pumps supply to Construction Camp piping and distribution network commissioned September 2022.

**Specific Scope of Works**

1. Site Location and Environmental Conditions

- West Musgrave Site 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 OZ Minerals site mobilisation and includes a requirement for an approved Ngaanyatjarra Land Council Entry Permit, which will be organised by OZ Minerals. The West Musgrave Site is a fully dry (alcohol free) site.

2. Construction Water Pumping equipment:

- 2 off submersible bore pump sets operating in a duty duty/standby configuration to deliver water continuously at rates of not less than 15 l/s (based on continuous 24-hour daily production month).

Well Site	Construction	Typical pump rate (l/s)
WMPW04	fully screened in 8"(0.8mm aperture) from 8m below ground level (bgl) to 56m bgl	16 @1.28m drawdown/litre per second  Shrouded motor
WMPW17P	fully screened in 10"(0.8mm aperture) from 11.5m below ground level (bgl) to 59.5m bgl	12 @1.44m drawdown/litre per second  Shrouded motor

- Bore headworks, flexible riser, security cable, power, Motor Control Centre, telemetry and controls with solar power panels, integrated with supporting generator sets and fuel storage equipment. Headworks shall include instrumentation for flow and pressure metering and all valving and interconnecting piping for safe operation and maintenance of the equipment.
- 1 off raw water supply transfer pump station complete with duty / standby pump set, pressure accumulator delivering raw water to the Construction Camp RO Raw Water Storage complete with controls and panel, piping and valving, generation and fuel storage. Instantaneous delivery rate of 30 l/s from Duty pump set to the Construction network and Camp shall be achieved.
- Three off permanent water cart stand pipes and transfer pump sets with minimum pump rate of 300m3/hr. Brine water Standpipe and pumpset (in suitable materials), to be initially installed at the RO Plant and subsequently relocated to the Water Recycle Facility.

- Provision of associated equipment – Generators and prime diesel sets, self banded diesel fuel storage tanks (constructed and approved to AS1940/AS1692 with minimum 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 temperature and dust. Solar power panel for trickle charge of generator batteries and lockable battery isolators shall be included.
  - Complete spare interchangeable bore pump sets complete with discharge valve, riser, adaptor, motor shroud, full length tested submersible cabling and termination kits.
3. Water Storage:
- Relocatable (mobile) storage water tanks suitable for immediate installation and use located in proximity to the water supply bores. Storage complete with supply and installation of all associated piping and valving connected to supply Raw Water Supply Transfer Pump sets and Water Cart Standpipe. Combined storage volume of 200kL
  - Permanent storage facilities comprising of:
    - Bore Water Transfer Facility - 2 off 375kL engineered liner tanks with Standpipe and pump set including generator, control and all piping and valving.
    - Recycle and Reuse Facility - consisting of 6 off 375kL engineered liner tanks, 10ML turkey nest and single Standpipe and pump set including generator, control and all piping and valving.
    - Living Hub Facility - consisting of 5 off 375kL engineered liner tanks, brine Standpipe and pump set including generator, control and all piping and valving. All tanks, equipment, piping and valving materials shall be suitable for storage of the fluids and with a minimum design life of 25 years.
4. Water supply pipeline network
- Supply and installation HDPE raw water supply pipeline, (generally) installed above ground. Network of Piping to be in co-extruded white, temperature derated and capable of delivering a minimum instantaneous flow rate of a minimum 30l/s with offtakes, at the design flow conditions, of minimum 300kPa.
  - Supply and installation of Brine water disposal piping from Living Hub/Construction Camp RO plant to Recycle Facility Brine holding tanks at an instantaneous flow of 3 l/s.
5. Control and telemetry system for safe and reliable operation of the complete system, bore pump sets and raw water supply transfer pump set. Control system shall include automatic start and stop, control, valving operation, metering and leak inferencing and alarm and fault indication.
6. Scheduling and maintaining water supply
- Collaborate in conjunction with OZ Minerals and stakeholders to establish and manage a robust water demand and supply forecast to deliver required water production and storage to meet all site user demands.

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7. Commissioning supply of system and equipment operating manuals with subsequent training of site operations team.

### **Next Steps**

On the receipt of EOIs, OZ Minerals 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 (RFT).

OZ Minerals will publish Request for Tender (RFT) documents to successful contractor/ suppliers in May 2022, with contract award to follow the conclusion of the tender process.

The West Musgrave Project is subject to internal OZ Minerals and external approvals. A final investment decision is expected in 2022. Consequently, timing, procurement strategy and/or scope of works, may change at the discretion of OZ Minerals.

### **Submission of Expression of Interest (EOI)**

OZ Minerals invites capable and experienced Contractor/Suppliers, who align with our '[OZ Way](#)' of working to register their EOI, clearly identifying their capability to be execute the scope herein. OZ Minerals will use the EOIs to improve our understanding of market capability and interest. Suitable Registrants may subsequently be invited to submit a tender for this package.

Please express your interest by completing the [West Musgrave Supplier Registration](#).

**EOIs without a completed West Musgrave Supplier Registration will not be considered.**

Please email [WMPCCommercial@ozminerals.com](mailto:WMPCCommercial@ozminerals.com) should you have any questions.

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