

**Project Name: CONSTRUCTION OF LONG-TERM IMPROVEMENTS OF SEEB WILAYAT WATER NETWORKS IN MUSCAT GOVERNORATE**

**Tender number: 2/2022**

**Brief scope of work:**

The Employer wishes the Tenderers to provide their Main Offer considering tanks in reinforced concrete, and consider the possibility to submit an Alternative Offer envisaging steel tanks.

While for Main Offer all details are provided in Tender Documents, for the Alternative Offer the Tenderer shall redesign the tanks and all necessary works to connect to the design provided with the Tender Documents. Tenderers are free to include in this option, the steel tanks for which they believe a more efficient Life Cycle Costing is achieved. It is intended that Alternative Offer shall be submitted only if having same functionality of Main Offer.

Tenderers are requested to support their Alternative Offer providing with a Life Cycle Costing study.

**4.1.1 Part A – Scope of work - Main Offer – Construction of additional water storage and transmission lines**

- Construction of two additional RCC reservoirs in Seeb Compound (20,000+17,400 cum), including all the connection works, valves, flow meters, power supply, internal and external lighting and so on as shown in the Tender Drawings. The new reservoirs will be provided with Leak Detection System (RLDS) as specified in the BOQ and Specifications. This RLDS shall be interfaced with local PLC and further integrated with SCADA at RCC and NCC for real time monitoring.
- Decommissioning of the existing pump station in Seeb Compound that pumps to Al Khoud 6 Compound. Extension of the building and installation of 4 pumps (2000 m<sup>3</sup>/h, 60m head) to supply Area 7 through the proposed transmission line. The new pumps must be protected by exclusive Condition Monitoring System (CSM) as per OWWSC specification PAM-DG-5000.
- Construction of an additional Compound (266 m<sup>2</sup>) for the installation of two surge vessels (80 m<sup>3</sup> each) at the chainage 3+540 of the transmission line to Area 7 to protect the pumps installed in Seeb compound.
- Integration and upgrade of the existing SCADA system in Seeb Compound. Design and installation of the new instrumentation required.

### Brief scope of work

- Widening of the existing Al Khoud 6 Compound and construction of seven additional RCC reservoirs (7x50,000 cum), including all the connection works, valves, flow meters, power supply, lighting and so on as shown in the Tender Drawings. The new reservoirs will be provided with Leak Detection System (RLDS) as specified in the BOQ and Specifications.
- This RLDS shall be interfaced with local PLC and further integrated with SCADA at RCC and NCC for real time monitoring.
- In Al Khoud 6 compound installation of an additional pump (1500 m<sup>3</sup>/h, 88 m head) and an additional surge vessel (30 m<sup>3</sup>) in the existing pump station with the same characteristics as the existing.
- Integration and upgrade of the existing SCADA system in Al Khoud 6 Compound. Design and installation of the new instrumentation required.
- Construction of one additional reservoir in Mawaleh Compound (15,000 cum), including all the connection works, valves, flow meters, power supply, lighting and so on, as shown in the Tender Drawings. The new reservoir will be provided with Leak Detection System (RLDS) as specified in the BOQ and Specifications. This RLDS shall be interfaced with local PLC and further integrated with SCADA at RCC and NCC for real time monitoring.
- Integration and upgrade of the existing SCADA system in Mawaleh Compound. Design and installation of the new instrumentation required.
- Extension of the existing Rusayl Compound and construction of three additional RCC reservoirs (3x35,000 cum), including all the connection works, valves, flow meters, power supply, lighting and so on, as shown in the Tender Drawings. The new reservoirs will be provided with Leak Detection System (RLDS) as specified in the BOQ and Specifications. This RLDS shall be interfaced with local PLC and further integrated with SCADA at RCC and NCC for real time monitoring.
- Integration and upgrade of the existing SCADA system in Rusayl Compound. Design and installation of the new instrumentation required.
- Construction of one transmission line (approximately 6.5 km 1200&1000mm diameter) starting from Seeb Compound and ending to Area 7. Some road crossings will be necessary; where the crossing is underneath main roads it shall be executed by microtunnelling. The Contractor shall be responsible to excavate trial pits to identify the existing utilities elevations and amend the pipeline level if required. The pipeline will be provided with fiber optic intrusion monitoring, leak detection and leak locating system as per OWWSC guidelines PAM-DG-5000.

**Brief scope of work**

**Alternative offer for water retaining structures in steel (Optional)**

The Tenderer shall redesign the tanks and all necessary works to connect to the existing design. Tenderers are free to include in this alternative offer, the steel tanks for which they believe a more efficient Life Cycle Costing is achieved. It is intended that this alternative offer should be submitted only if having same or better functionality of main offer. Tenderers are requested to provide with a Life Cycle Costing original scope of works and for this as the Tenderer deems to be advantageous for the Employer in terms of Life Cycle Costing. In case the Tenderer will propose an alternative to the conventional construction methodology (reinforced concrete), then the Tenderer will be responsible for the design, which shall be in compliance with OWWSC Design Standards and the Volume 2- Specifications of this Tender. The alternative proposal shall be quoted in this tender considering the design cost and all the ancillary works connected to the different construction methodology proposed. The reservoir's number, volume and location shall stay unchanged. The Contractor would be responsible for all the re-design required due to the different construction methodology proposed.

**Time for Completion of the Works**

The whole of the Works, including the Provisional Items / Bills, if instructed to be included in the Works, shall be completed within a maximum Time for Completion of the Works of nine hundred and ninety **(990) days (including sixty (60) days mobilization period)**, as defined by clause 1.1.3 of the Standard Contract for Building and Civil Engineering Works - May 2019 (Rev.01).