

**T/ 2462916/2023**

**CONSULTANCY SERVICES FOR CONSTRUCTION SUPERVISION OF: a.  
Contract B7A – Bausher Network – Main Trunk Sewer & Pumping Station & b.  
Contract B7D – Bausher Network – Sewer Network – Ansab**

**The Scope of work is about the provision of construction supervision services and contract administration for the sewer network project in Bausher. The scopes of the construction contractors to be supervised under this contract are:**

**1. Contract B7A- Bausher Network– Main Trunk Sewer & Pumping Station:**

Scope of work for Contract B7A shall include but is not limited to the construction (Supply, Installation & Commissioning) of the following:

- Gravity Trunk sewer diameter ranging from 700mm to 1200 mm with an approximate length of 3.5 km, including deep gravity sewer.
- Gravity sewer manholes of approximately 30 units, including deep gravity sewer Manholes.
- Construction of road crossing (open cut & Trenchless method) and to be completed with all necessary works.
- The contractor shall ensure that manholes constructed inside the Wadi or in its proximity are protected and designed to withstand the following:
  1. Structural forces resulted from Wadi flows, considering reasonable storm return period.
  2. Scouring effects.
  3. Instabilities caused by lateral forces (impact of hydrodynamics) or forces due to turbulence and sediment transport.
- The contractor shall connect the drain pipe of the washout valve chamber to the existing sewer manhole or newly constructed drain sump associated with pipes, fittings, and all required to complete the work as per Haya standards.
- Dual Rising Mains with an inner diameter of 1000 mm with an approximately total length of 6.5 km each, which includes the following: -
  - Air valve, Washout and isolation valve chambers
  - Crossover Valve chamber
  - Interconnecting valve chamber with Al Ansab STP according to the tender drawings
- Bausher Heights Pumping Station  
The work related to the pumping station shall include the following (but not limited to):
  - Procurement and Construction of Administration building pump station, main fuel tank, generator building, guard room, transformer building, workshop & store, generator building complete with all civil, electrical, mechanical, plumbing, firefighting, HVAC, Instrumentation & control, and SCADA works.
  - Supply and installation of flow meter chamber, inlet valve chamber complete with all associated works.

- Provision for power supply from MEDC source till transformer building (Construction of approximately 2 km long power supply cable network from the existing sub-stations to the pumping station including road Crossings (open cut & NDRC).
- Construction of boundary wall and landscape works.
- Construction of access road works.
- Construction of Retaining wall, Riprap and Site levelling.

## 2. Contract B7D- Bausher Network– Sewer Network– Al Ansab:

Scope of work for Contract B7D shall include but not limited to the construction (Supply, Installation & Commissioning) of the following:

- Gravity sewer network/s (lateral plus trunk) ranging in diameter from 200mm to 1000 mm with an approximate length of 75.50 km
- Gravity sewer manholes (lateral plus trunk) with approximately a total of 1160 No.
- House connection and rider sewers ranging in diameter from 100mm to 200mm with an approximate length of 103.50 km
- Property chambers, House connection chambers, and Gravity sewer manholes (for Rider Lines) with approximately a total of 9000 No.
- Final wet connection works to properties for approximately 3000 No. (Optional).
- The contractor shall design and construct the house connections for all plots located in the project area (4180 plots).
- Construction of Roads Crossing (open cut & Trenchless method) and complete with all necessary works.
- The contractor shall ensure that manholes constructed inside the Wadi or in its proximity are protected and designed to withstand the following:
  4. Structural forces resulted from Wadi flows, considering reasonable storm return period.
  5. Scouring effects.
  6. Instabilities caused by lateral forces (impact of hydrodynamics), or forces due to turbulence and sediment transport.
- The contractor shall connect the drain pipe of the washout valve chamber to the existing sewer manhole or newly constructed drain sump associated with pipes, fittings and all required to complete the work as per OWWSC standards.