

**T/2515934/2023**

**Consultancy Services Supervision for Construction of Sewer Networks for C13 Package 3 B and C13 Package 3 C&D in A'Seeb Wilayat**

**SCOPE OF WORK/SERVICES**

This section shall be read in conjunction with the applicable sections of the Conditions of Contract and the relevant aspects are to be considered as mutually explanatory.

**General Description and Objectives of Project**

Muscat Governorate is witnessing a rapid increase of Wastewater demand due to the increased commercial activities and associated population growth in addition to the normal population growth. In order to meet the increasing demand in Seeb Wilayat, an expansion of Sewer network to existing network are required.

Nama Water Services therefore wishes to engage the services of a Consultancy Firm with relevant experience in similar projects especially in Oman who also have established offices in Muscat with design capabilities to carry out the work. Nama Water Services invites such Consultancy Firms to submit their complete and comprehensive Tender proposals for providing Consultancy Services for the proposed works.

This brief description and scope of work is intended to give a broad outline on the services to be provided by the Consultant and does not cover all aspects in detail. The offer for consultancy services should be complete in all aspects and the Consultant shall provide all services necessary to complete the entire project whether these are explicitly mentioned in this document.

**Project Area:**

The project is in Seeb Wilayat in Muscat Governorate of Sultanate of Oman

Area C3B  
Area C3C  
Area C3D

## Components of the Project

The bidder shall be aware this project will cover 2 different execution contracts

The Consultant Engineer will be eligible for all necessary Engineering supervise the construction works, which will include but NOT limited to the followings:

- C3B shall include but not limited to the construction (Supply, Installation & Commissioning) of the following:
  - Gravity sewer network/s (lateral plus trunk) ranging inner diameter from 200mm to 600 mm with approximately length 47.50 km
  - Gravity sewer manholes (lateral plus trunk) with approximately total 820 No.
  - House connection and rider sewers ranging diameter from 100mm to 185 mm with approximately length 30 km
  - Property chambers, House connection chambers, Gravity sewer manholes (for Rider Lines) with approximately total 2240 No.
  - Single Rising Mains with different diameter with approximately total length 4.7 km
  - C3B Pumping Stations not limited to:
    - Procurement and Construction of pump station, building complete with all civil, electrical, mechanical, plumbing, firefighting, HVAC, Instrumentation & control, ICA 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 roads, fence works.
- Scope of work for Contract C3C shall include but not limited to the construction (Supply, Installation & Commissioning) of the following:
  - Gravity sewer network/s (lateral plus trunk) ranging inner diameter from 200mm to 600 mm with approximately length 16.0 km
  - Gravity sewer manholes (lateral plus trunk) with approximately total 265 No.

- House connection and rider sewers ranging Internal diameter from 100mm to 185 mm with approximately length 5.0 km
  - Property chambers, House connection chambers, Gravity sewer manholes (for Rider Lines) with approximately total 256 No.
- Contract **C3D** shall include but not limited to the construction (Supply, Installation & Commissioning) of the following:
- Gravity sewer network/s (lateral plus trunk) ranging inner diameter from 200mm to 600 mm with approximately length 13.50 km
  - Gravity sewer manholes (lateral plus trunk) with approximately total 152 No.
  - House connection and rider sewers ranging diameter from 100mm to 185 mm with approximately length 5.00 km
  - Property chambers, House connection chambers, Gravity sewer manholes (for Rider Lines) with approximately total 310 No.
  - Single Rising Mains with Inner diameter 300 mm with approximately total length 2.05 km including Washout and Air valve Chambers.
  - C3D Pumping Station

The work shall include the following (but not limited to):

- Procurement and Construction of pump station, building complete with all civil, electrical, mechanical, plumbing, firefighting, HVAC, Instrumentation & control, ICA works.
- Supply and installation of flow meter chamber, inlet valve chamber complete with all associated works.
- Construction of Roads Crossing (open cut & Trenchless method) and complete with all necessary works.
- The consultant shall ensure that manholes constructed inside the Wadi or in its proximity are protected and designed to withstand the following:
  - Structural forces resulted from Wadi flows, considering reasonable storm return period.
  - Scouring effects.
  - Instabilities caused by lateral forces (impact of hydrodynamics) or forces due to turbulence and sediment transport.