



**OMAN WATER & WASTEWATER SERVICES COMPANY
CORPORATE MANAGEMENT SYSTEM**

Scope of Work

T/2455664/2023

Consultancy Services for Design and Construction Supervision for “Ruwi Sewer Network Rehabilitation Project

SUMMARY OF SCOPE FOR WORK:

The scope of the project is divided into the followings:

Stage 1: Design Consultancy

A. Concept design

The Consultant shall consider the existing studies for information only. In addition, he shall determine the Population & wastewater generation(saturated) of the project area using the following documents:

1. Updated NCSI population report.
2. Muscat Governorate (MG) Wastewater Master Plan 2019 data.
3. Water Master Plan.
4. Updated version of Ministry of Housing and Urban Planning base Map in the design
5. Updated version of Ministry of Housing and Urban Planning Land Use data in the design
6. New future development of various Land use with Government / Private sectors within area and with design horizon of the Project to be considered in the design
7. Stakeholders Engagement, (Relevant Govt. Bodies, MM, ROP for Traffic
8. Management and others as required i.e. (Obtain NOCs for the design).
9. The Consultant shall conduct study to understand the overall project, existing technical assessment: During this assessment, the consultant shall note that the existing assessment is in-complete and there are some sections of the sewer pipes where the CCTV (limited quantities) was conducted due to buried Manholes. Therefore, the scope of CCTV inspections of the existing sewer system will be limited to this area which was not inspected in the previous study.
10. Other aspects to be incorporated in design to ensure a robust design in line with OWWSC specifications and standards for sewer rehabilitation works
11. Propose initial sewer network layout for both the new and existing areas within the project boundary.
12. Determine the design criteria in line with OWWSC design manual & Latest Muscat Master Plan.
13. The output of this stage will be the Concept design of the proposed replacement Works including the new sewers to connect the new customers within the Project boundary.
14. Conduct a value engineering workshop to discuss and freeze the Concept with OWWSC before proceeding to the next stage of preliminary design.



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B. Preliminary design

Based on the approved Concept design, the consultant shall proceed with the Preliminary design including but not limited to the followings:

1. Review and update current status/capacity of sewer network to meet current and future requirements.
2. Preliminary hydraulic analysis of the sewer networks
3. New plots / house connections within the Project boundary shall be included.
4. Provide preliminary design of the rehabilitation/replacement works based on the approved concept design.
5. Conduct workshop with OWWSC to discuss and agree on the final preliminary design

Note: The Consultant shall include provision in the scope for providing design support to the OWWSC in house supervision team during the construction period.

C. Detailed design

1. Finalize the Detailed layout of the sewer including all manholes, pump stations etc in line with the approved Preliminary design
2. Final hydraulic analysis of the networks using appropriate software
3. Final cost estimates of the networks and associated appurtenances

D. Preparation of Tender Document

Consultant shall prepare PC Tender for the construction works as per the detail design.

Stage 2: Construction Supervision

All services required for efficient Project Construction Supervision shall be the consultants' scope.