

Brief scope of work

Project Name: Construction of Sewer Network for C4 Area in A'seeb Catchment

SUMMARY OF SCOPE FOR WORK:

- Scope of work for Contract **C4** 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.
 - The contractor shall design and construct the house connections for all unserved plots located in project area .
 - Divert the flow from certain connected plots of the Vacuum system (as indicated in the drawings / Engineer request) to the new proposed sewer network and disconnected the Vacuum lines from the downstream section.
 - The contractor shall obtain OWWSC O&M approval prior any physical work on the existing system.
- 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:
 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 washout valve chamber to existing sewer manhole or newly constructed drain sump associated with pipes, fittings and all required to complete the work as per Haya standards.
- The contractor shall follow the horizontal / vertical separation between OWWSC pipelines and PAEW pipelines as per Appendix I HW assets and Potable Water separation. In case that the separation is not achieved the pipeline shall be encased with concrete encasement as per Appendix I.
- The contractor shall provide pipe anchoring or concrete encasement when the slope exceeding 10.0% for the house connections and rider lines as per Haya standards.

Time for Completion of the Works

1095 calendar days from commencement Date, inclusive of 90-calendar days mobilization.