

Project Name: Construction of Sewer Network for C3A & C3F Area in A'seeb Catchment

SUMMARY OF SCOPE FOR WORK:

1 BRIEF SCOPE OF WORK

- Scope of work for Contract **C3A** 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 .
 - Gravity sewer manholes (lateral plus trunk) with approximately total 340 No.
 - House connection and rider sewers ranging diameter from 100mm to 185 mm.
 - Property chambers, House connection chambers, Gravity sewer manholes (for Rider Lines).
 - The contractor shall design and construct the house connections for all plots located in project area.
 - Single Rising Mains with Inner diameter 300 mm.
 - C3A 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 and 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 **C3F** 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.
 - Gravity sewer manholes (lateral plus trunk).
 - House connection and rider sewers ranging diameter from 100mm to 185 mm.
 - Property chambers, House connection chambers, Gravity sewer manholes (for Rider Lines).
 - The contractor shall design and construct the house connections for all plots located in project area.
- 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:

Brief scope of work

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 Haya water 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

The whole Contract period for completion the works is One Thousand and Ninety Five (**1095**) calendar days from commencement Date, inclusive of 90-calendar days mobilization