

Brief scope of work

Title: Consultancy Services for Sewer &TE Networks for Al-Amerat Catchment and FEED for Al-Amerat STP Phase II

Tender No. T/2001095/2019

The scope of the project is divided into two parts and includes the following;

A. Concept design of Al Amerat Network catchment

The consultant shall carry out the following:

1. Concept design for all future development networks (Sewer and TE) based on the ultimate sewage flow in the overall Al Amerat Catchment.
2. Hydraulic assessment for existing network (A2, A3 & A4) and all future ultimate development project areas and propose appropriate solution. In addition, determine flow generation from future development in Al Amerat sub-catchment.
3. Concept Design of the trunk lines and the riders to collect sewage from the identified properties and transmitting it to the STPs.
4. Concept Design of the sewage pumping stations (if required) depending on the topography of the area to be connected.
5. Concept Design of TE pumping stations, trunk and distribution networks to be integrated with existing system.
6. STPs phasing based on the population growth and forecast until 2050 based on associated total wastewater generation. In addition, the Consultant shall consider the impact of this population growth and future development on the existing sewage pumping stations capacity, trunk lines, etc
7. For other future STPs after Al Amerat STP phase II, the Consultant shall propose following items:
 - a. locations.
 - b. Technologies to be used to optimize land utilization.
 - c. Associated trunk line routes and pumping station locations.
 - d. TE utilization and Sludge disposal plans

B. FEED for Al Amerat STP Phase II

During this stage of the design, the consultant shall undertake the following;

1. Review existing design and specification documents of Al Amerat STP Phase I and propose areas which can be improved to reduce construction cost and operational costs for Phase II, accordingly, prepare FEED for Al Amerat STP Phase II.

2. Prepare EPC tender documents and manage tendering work to engage EPC contractor for the construction of Al Amerat STP phase II

C) Preliminary and detailed design of A9 Sewer & TE Networks

The consultant shall carry out the following:

- 1) Preliminary design of the sewer and TE network including rider, lateral and trunk sewers
- 2) Produce drawings for all the details of the network for the pipe laying, manholes, pump stations (if required)
- 3) Detailed design of the sewer and TE network including riders, laterals and trunk Sewer and TE pipelines
- 4) Obtain design NoCs
- 5) Prepare construction tender documents and manage tendering works to engage PC contractor for construction works of A9 Sewer & TE Networks.