

SCOPE OF WORK

1.0 INTRODUCTION

Sludge is 11% - 20% dry solids material dewatered in sewage treatment plants. Haya water treatment plant under operation department requests contractor to provide 24 hours a day / 7days a week /365 days a year service to transport dewatered sludge produced from Al Ansab, Darsait, Sarooj and Quriyat Treatment plants by trucks and skip trucks and to dispose at Haya composting Plant located at Al Multaqa, Wilayet Al Amerat or to be disposed to Muscat Municipality land filled in case for emergency case for the below period:-

- 5 years contract for New Ansab and Quriyat
- 1- 2 years contract for Darsait, Old Ansab and Sarooj flexibility to extend or discontinue

The contractor shall strictly comply with scope and instructions stated in the scope of work.

2.0 Operation Method

The existing unites operates in deferent method at deferent plant as below

➤ Al Ansab

➤ New

- ✓ Belt press unit starts operation from 5:00am
- ✓ The minimum quantities to be loaded from 5:00am – 3:00pm
- ✓ The loading takes approximately 5 hours to fill container/Tipper/Truck at an average of 12 tons of sludge
- ✓ The transport and offloading takes about 3 hours.
- ✓ Provision to fill 2 container/Tipper/Truck at the time.

➤ Old

- ✓ Belt press unit starts operation from 6:00am
- ✓ The minimum quantities to be transported from 6:00am – 2:00pm
- ✓ The loading takes approximately 2hours to fill skip container at an average of 3.3 tons of sludge
- ✓ The transport and offloading takes about 3 hours.
- ✓ Provision to fill 2 skip containers at the time.

➤ Darsait

- ✓ Belt press unit starts operation from 6:00am

- ✓ The minimum quantities to be transported from 6:00am – 2:00pm
- ✓ The loading takes approximately 2 hours to fill skip container at an average of 3.3 tons of sludge
- ✓ The transport and offloading takes about 2 hours.
- ✓ Provision to fill 3 skip containers at the time.

➤ **Sarooj**

- Belt press unit starts operation from 8:00am
- The minimum quantities to be transported 6:00am – 8:00am
- The loading takes approximately 6 hours to fill skip container at an average of 3.3 tons of sludge
- The transport and offloading takes about 2 hours.
- Provision to fill 1 skip container at the time.

➤ **Quriyat**

- Belt press unit starts operation from 6:00am
- The loading takes approximately 5 days to fill skip container at an average of 3.3 tons of sludge
- The transport and offloading takes about 2 hours.
- Provision to fill 1 skip container at the time.

3.0 GENERAL

- The contractor is required to provide safe and cost effective method to transport of Dewatered sludge from the following Sewage Treatment Plants (STP's) to Haya Water Composting Plant at Al Multaqa, Wilayat Al Amerat:
 - ✓ Al Ansab
 - ✓ Darsait
 - ✓ Sarooj
 - ✓ Quriyat
- Provide competent staff to operate the vehicles during loading, transporting and unloading ensuring safety for Haya plants, Public and Personnel.
- Services to be provided on 24hours/7days/12 months basis
- Contractor shall follow schedule and removal program provided by Haya Water (Program, Schedule subject to be changed depending on sludge load and work flow).
- Provide labors for Ansab loading area to complete below tasks:-
 - ✓ Manually level loaded material to the trucks/container/skip loader.
 - ✓ Clean the loading area.
- All transport equipments shall have operator and helper with the below requirements:-

- ✓ Valid Heavy Duty Driving License
- ✓ Defensive driving training
- ✓ HSE awareness training

- **Omanisation**

The contractor shall employ 90% Omanisation for this project. He shall submit organization chart showing the proposed staff.

The following incentives should be provided to all Omani staff:

- 1- A minimum salary of R.O 350
- 2- Omani Staff required to work during announced public holiday shall be compensated a one day & a half (1½) for each day worked during the announced public holiday.

The Contractor shall submit evidence of above such payment along with the invoice (such as salary slip for Omanis accompanied by the PASI list of registration).

4.0 CONTRACTOR RESPONSIBILITIES

- The contractor shall be responsible for preventing spillage and insure the following:
 - ✓ Drivers responsible of observing filling limits, highway speed limits, and defensive driving practices.
 - ✓ Drivers shall insure that hatches are closed and latched during transport.
 - ✓ Drivers responsible to inspect loaded equipments sealed daily and replace when needed.
 - ✓ Drivers shall fallow Haya Water instructions.
- The contractor shall be responsible for cleaning the area in case of spillage.
- The contractor shall maintain loading, transport and offloading and net weight records and obtain Haya Water signature.
- All sludge delivery to composting plant should reach the plant as per agreed schedule.
- The contractor shall provide all related tools and equipments for the sludge removal work whenever required.
- The contractor shall be responsible for providing transport equipment and loader operator and helpers
- The contractor shall provide his operator and helpers with:
 - ✓ Proper Personal Protection Equipment
 - ✓ Hand tools
 - ✓ GSM
- The contractor is responsible for any damage to Haya assets caused during sludge loading, transport and offloading.

- All vehicles and equipments shall be fully insured for any damages caused by the contractor to Haya personal and properties during work.
- Bidders shall visit the sites before submitting their bid to become acquainted with the locations, conditions and contract requirement.
- Payment will be based on actual net weight (tons) delivered to composting plant.
- The contractor shall obtain transport and discharge permit if required.
- The contractor shall pay discharge fees at discharge area if required.
- The contractor responsibility to insure transport services availability at all time with provisions for emergency cases.
- Certificate of accreditation from Oman Authorized department MECA as registered Sludge/Solid waste Transporter must be obtained.

5.0 Transport equipments Minimum Requirements/ Specifications

- The transport equipments shall be appropriate to be used for transporting dewatered sludge with water content of 80-89 %. It should be equipped with the following:
 - ✓ Tailgate safety locks
 - ✓ Hydraulic or electrical top cover
 - ✓ Rear wheels rubber cover
 - ✓ Rubber seals to prevent leakage
 - ✓ Sides & front extension
 - ✓ Loading equipments capacity for new Ansab shall not be less than 20 - 24 m3