



DECENTRALISED TREATMENT FACILITY

DESCRIPTION OF THE TREATMENT MODULES

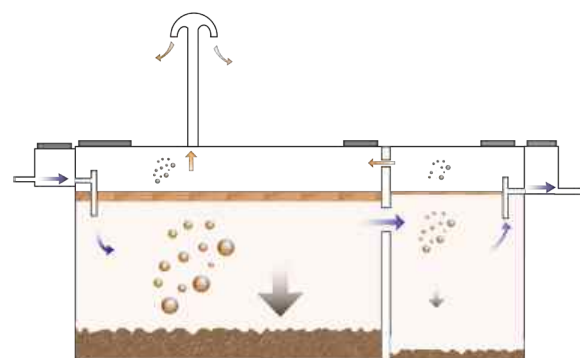


ISO 9001:2008 CERTIFIED



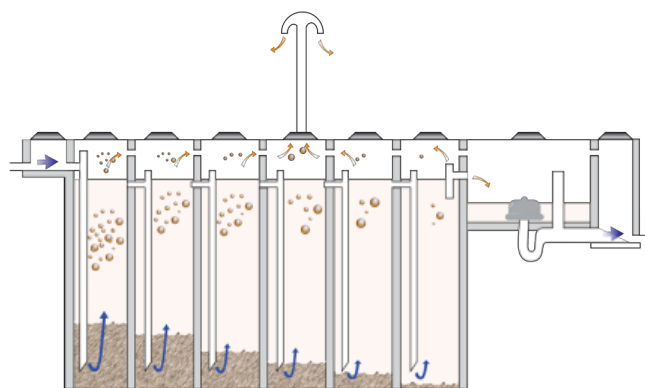
RECEIVING BAY/ BALANCING TANK

- Screening of the coarse material (and solid waste)
- Storage of the septage
- Flow control to provide constant inflow to the DTF



SETTLER

- 2 consecutive chambers separated with a baffle wall
- Sedimentation of settleable solid
- Flotation of fat and oil



ANAEROBIC BAFFLED REACTOR

- 2 rows of 6 consecutive chambers equipped with down pipes to force the effluent through the settled active sludge where anaerobic treatment takes place
- 1 siphon chamber to release the effluent intermittently



OPERATOR STORE

- Operator's office
- Entrance registration desk
- Storage room for equipment



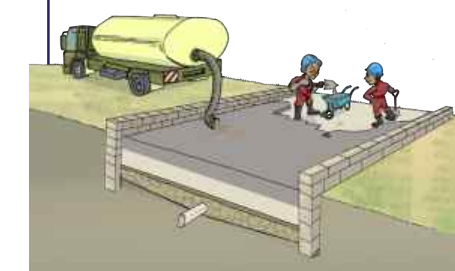
COMPOSTING AREA

- Composting shed where dry sludge or UDDT matter is mixed with organic waste to produce compost



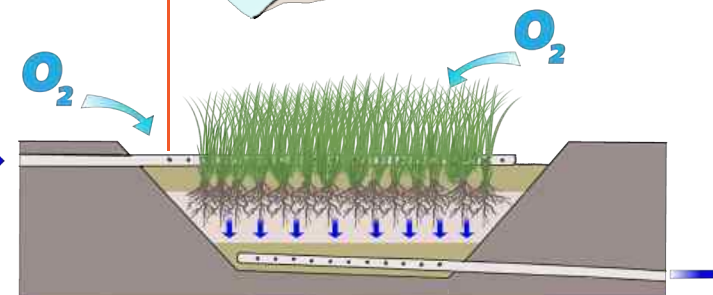
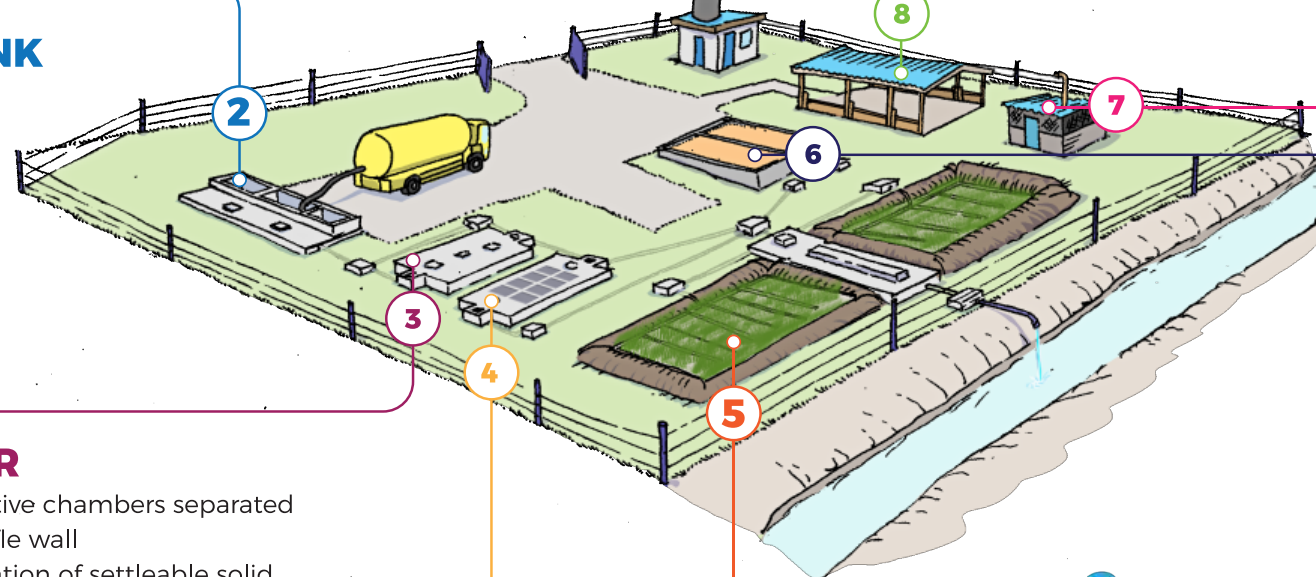
WASTE DISPOSAL UNIT

- Incinerator + chimney + waste store + shelter (for protection against the rain)
- The solid waste screened in the Receiving Bay is incinerated at a temperature of 600°C



SLUDGE DRYING BEDS

- 2 to 4 non planted beds filled with successive gravel and sand layers
- Dehydration of sludge through filtration and evaporation



VERTICAL FLOW CONSTRUCTED WETLAND

- 2 basins filled with successive gravel and sand layers planted with aquatic plants. Perforated pipes on top (to feed) and at the bottom (to drain)
- Filtration and sedimentation
- Natural predation of harmful bacteria and viruses
- Anaerobic and aerobic treatment (nitrification/denitrification)