**Decentralized Treatment System: Hindustan Construction Company**

**Location: Bogibeel, Assam**

Hindustan Construction Company (HCC) has a Railway cum Road Bridge site at Bogibeel in Assam. The site has permanent settlement of labour in the form of labour camp and few quarters for the site engineers and supervisors. The site is situated on the bank of river where the strata is mainly composed of river sand and the water table is very high.

The labour camp has the strength of 1000 persons and has 8 sanitation blocks, each comprising of 10 toilets and 10 bathrooms. Earlier the grey water from the bathroom use to go into a pit located outside the camp whereas the black water coming from the toilets use to go into a septic tank from which the water was sent to a soak pit. As the septic tank was poorly designed, the effluent contained large number of total suspended solids (TSS).

This along with the high water table use to result in chocking of soak pit resulting into stagnation of waste water in the soak pits. A Decentralized Treatment System (DTS) comprising of an Anaerobic Settler, Feeding Tank (Equalization Tank) Anaerobic Baffle Reactor and Planted Gravel Filter was installed at the site. The black water from all the sanitation units along with grey water from 3 of the sanitation units is connected to this system. The capacity of the system is 10 cum per day. The treated waste water is mixed with rejected water from the Reverse Osmosis (RO) system and used for land application. The main use of the treated water is to suppress the dust at the site, for which the site use to bring water from nearby bore wells via tankers.