

Newsletter

Volume 2 | Issue 4 | March 2018



ONGC TERI Biotech Limited

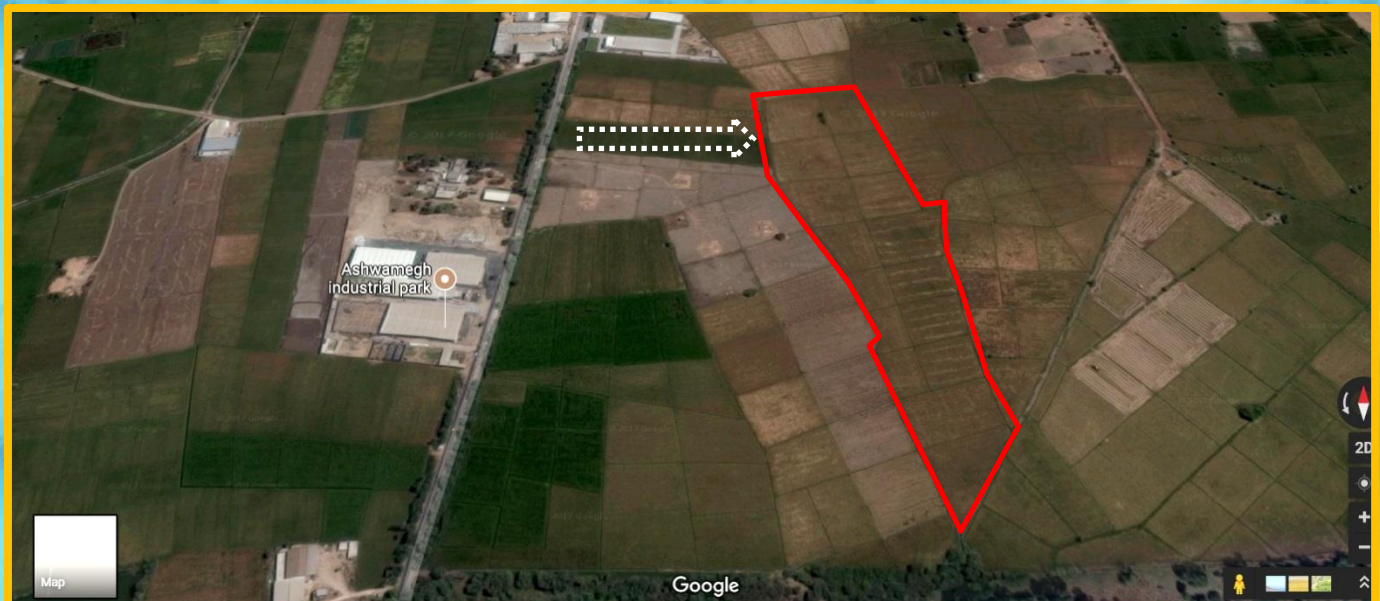
OTBL Ahmedabad Office:

OTBL Ahmedabad office started in 2007; over a period of more than 10 years, several Bioremediation, PDB and MEOR Projects executed at ONGC Ahmedabad Assets. Office @ C-18, Western Sector, ONGC Colony, Near IRS Chandkheda-382424 Gujarat. Tel: 079-23290126, Email:otbl.amd@gmail.com

Pirana Oil Spill: Trunk Line in Ahmedabad Area

- Oil spill occurred on 16-08-2017 in Mehsana Trunk Line near CTF Ahmedabad.
- Total area affected was around 35000 m².
- Area surrounded by Paddy fields full of water.
- The approach road was only a narrow slippery bund.
- OTBL started to recover Free Flowing Oil on 16-08-2017.
- Liquid recovery completed on 01-09-2017.
- Refilling work completed on 22-11-2017

Area of Oil Spill in Pirana





Approach Road



Distance from Main Road



Work in Progress at Site



Oil Recovery

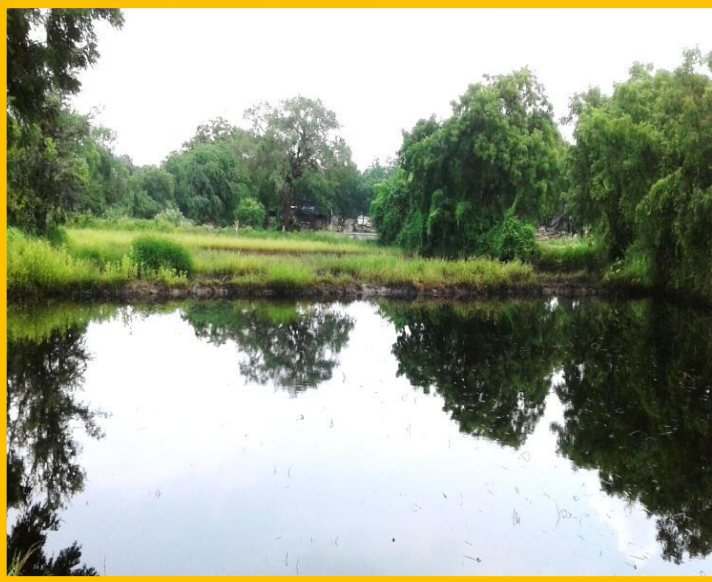


Status after Bio-Remediation

Other Oil Spill Sites at Ahmedabad

- CTF Navagam: around 3000 m²
- Work started and completed in July-Aug 2017
- GGS IV Kalol : 4225 M² area.
- Oil recovered 800 m³.
- Work started and completed in Aug 2017.

GGs IV Kalol Pictures



Assam Oil Spill at Radhika Nagar

Cleaning, Lifting & Transporting of Oily Slush at RDS, GGS-2, Radhika Nagar, Nazira, Assam

- Oil spill occurred at RDS,GGS-2 near Residential Area of Radhika Nagar in the month of August, 2016.
- Cleaning of oil spill up to the depth of 0.1 M; Qty-15000 M².
- Lifting of oily slush; Qty- 1500 M³.
- Transporting of oily slush to nearest Pit 20 Km. away; Qty-1500 M³.
- Mobilization date 05.01.2018.
- Completion date 08.02.2018.



Zero Day Picture of Radhika Nagar Oil Spill



When work was going on



After completion of lifting & transportation of oily slush

Green initiative by OTBL in Assam

'Bio-digester Toilets for Improved Sanitation Facilities' in Schools of Nazira Block, Sivasagar District, Assam under the CSR initiative of OTBL

A combination of Twin Cabin Bio-digester Toilets with Two Urinals are proposed to be installed in 10 schools. Based on number of students and condition of existing toilets and urinals, schools have been short-listed for the proposed Bio-digester Toilets installation program.

School short-list for Bio-digester Toilets installation at Nazira Block, Sivasagar District, Assam: Simoluguri High School, Nazira Higher Secondary & Multipurpose School, Nazira Girls Higher Secondary School, Nazira Bortola Higher Secondary School, Mothia Chiga Rajmow High School, Mezenga Higher Secondary School, Ligiri Phukhuri High School, Joktali Higher Secondary School, Gargaon High School, Santak High School.

Three vendors have already been short-listed for the construction of Bio-digester Toilets in the schools:

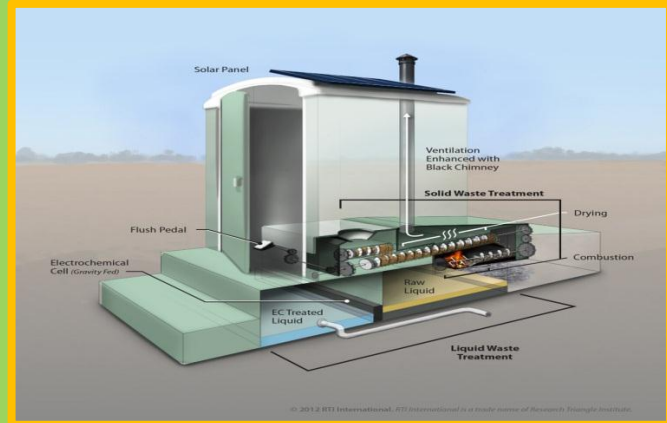
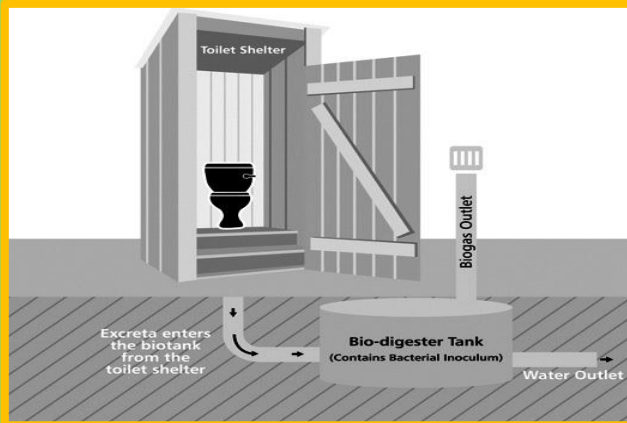
- Shine Combine Pvt. Ltd: Shine Tower, 57 Sati Jaimati Road, Rehabari, Guwahati-781008.
- Elite Biotech: Chtribari Road, Guwahati-781008.
- Assam Business Syndicate: S.J. Road, Athgaon, Guwahati-781001.

Graphic Design of Bio-digester Toilets:



The initial work like, short-listing of schools, vendors, preparation of design & estimation is completed; implementation process to start soon.

How does the Bio-digester Toilets work



Bio-digesters Toilets have 3 anaerobic chambers that treat Human wastes effectively, and don't require any cleaning or emptying the tank because of its unique systematic structural arrangements. To start with the very first chamber, where in, the Human wastes arrive from the toilet's outlet, consequently the solids drop to the bottom of the tank because of the systematic structure of the bio-digester tank and the high graded pre residing bacteria (i.e. anaerobic bacteria, which can survive in the absence of oxygen) rushes for their job (i.e. eating away organic waste and decomposing entire occurring pathogens). When this chamber is filled, the water overflows to the second chamber where more of the same happens, except at this time most of the biological/solid/slugged matter has been left in the first chamber. When the water overflows into the third chamber, it is almost 90% clean and hence the final stage of digestion takes place. The treatment, the task of cleansing water is continuously carried forward from the start to the end point, till the water exits the bio-digester. When the treated water finally comes out from the bio-digester and into our irrigation pipelines (optional if required), it is 98% clean and free from entire pathogens. This water is now safe to be used for underground irrigation via pipes buried below the surface. However, the treated water should not be used for human or animal consumption, or for household cleaning without going through additional treatment.

Advantages of a Bio-digester Toilet over Others

- It digests organic solids in an ecological way.
- It prevents human waste and untreated water from contaminating groundwater.
- It offers an alternative to dumping of wastes into rivers, lakes and fields in rural and semi-rural areas where there are no sewage systems.
- The effluent (i.e. the water) can be used to water plants.
- The effluent is cleaner, more effective and easier to use than a septic tank because it doesn't need to be further cleaned or emptied.
- The effluent is odourless, non-obnoxious, and colourless as compared to the end products of the toilets being used these days.
- It doesn't require the work and energy involved in relocating composting toilets every year.
- Is colourless, odourless and devoid of any solid particles
- Requires no further treatment / waste management
- Can be used for irrigation purposes

Few Pictures of Condition of Existing Toilets in Short-listed Schools



Simoluguri H.S School



Nazira Higher H.S School



Nazira Bortola H.S School



Nazira Girls H.S School

OTBL's ESTEEMED CLIENTELE

- ◆ Oil and Natural Gas Corporation Ltd (ONGC)
 - ◆ Oil India Ltd
- ◆ Numaligarh Refinery & Petrochemicals Ltd
 - ◆ Reliance Industries Ltd
- ◆ BG Exploration & Production India Ltd
- ◆ Masila Petroleum Exploration –Yemen
 - ◆ Jindal Petroleum- Georgia
 - ◆ HPCL, India
 - ◆ BPCL Mumbai



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