

Newsletter

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OTBL Mehsana office

OTBL Mehsana office & Lab started in 2007; it's been 10 years, since office is working with major projects of Bioremediation, PDB and MEOR at ONGC Mehsana Assets.

Office @ B-86, ONGC Nagar, Gujrat-384003.

Lab @ North Santhal, ONGC Mehsana Asset, Gram- Jotana, District Mehsana, Gujarat, Pin-384421.



OTBL Mehsana office



OTBL Mehsana Office Key Employees



Scientist working in OTBL Field Laboratory

PROJECTS AT OTBL MEHSANA, UNDER ONGC MEHSANA ASSET

- **Ex-Situ Bioremediation of ETP Sludge of three ETP's of Mehsana Asset. Year 2016.**
Project Start Date : 11th August 2016
Project End Date : Ongoing
Scope of Work : Excavation of ETP sludge from sludge drying beds at NS ETP & NK ETP. Transportation of sludge to nearby bioremediation pits provided with HDPE Liner sheet.



Bioremediation Site of ETP Sludge SN#50

LAND RESTORATION NEAR BECHARAJI GGS,ONGC MEHSANA



- **In-situ and Ex-situ Land Restoration and Bioremediation of oil soaked soil at Mehsana Asset for a quantity of 24660 MT. Year- 2016.**
Project Start Date : 20th August 2016
Project End Date : Ongoing
Scope of Work : Execute the job of restoration at the line leakage points and bioremediation of oil soaked earth at designated.

REFILLING WITH FRESH SOIL

AFTER EXCAVATION AND TRANSPORTATION OF OILY SLUDGE

Back filling of excavated site in Oil field of ONGC Mehsana



Site after back filling in oil field of ONGC Mehsana



- **Microbial Enhanced Oil Recovery job in 5 wells at locations of Bechraji and Lanwa, Mehsana Asset. Year 2016.**
Project Start Date : 05th November 2016
Project End Date : 27th December 2016 (Post Monitoring is ongoing)
Scope of Work : MEOR Process execution of 5 wells, which involves injection of designed quantity of Microbial culture along with the nutrients into the formation for enhanced oil recovery from oil wells as per job plan provided by IRS, ONGC, Ahmedabad.

TRANSPORTATION OF OILY SLUDGE TO BIOREMEDIATION PITS



Excavation of oil soaked soil



After Excavation of oil Soaked soil from Oil Spill Site

EXECUTION OF MEOR JOB AT MEHSANA



- **Paraffinic Degradation Bacterial (PDB) jobs in 45 wells of ONGC, Mehsana Asset. Year 2016.**

Project Start Date : 04th April 2016

Project End Date : Ongoing

Scope of Work : To execute Paraffin Degrading Bacterial jobs in 45 wells of Mehsana Asset using PDS-10 bacterial consortium for minimizing wax deposition problems.

- **Ex-Situ Bioremediation and Land Restoration at line leakage affected area near SS CTF of ONGC Mehsana Asset. Quantity 3780 MT. Year 2016.**

Project Start Date : 26th April 2016

Project End Date : 18th November 2016

Scope of Work : Execution job of land restoration at the line leakage points and bioremediation designated pits of oil soaked earth at Mehsana Asset.

Oil contaminated Land Restoration Near South Santhal Central Tank Farm

Excavation of oil spill site @CTF, South Santhal, ONGC, Mehsana



- **In-Situ Bioremediation undertaken by OTBL at various sites of Lanwa, Balol, Santhal and Sobhasan of ONGC, Mehsana Asset against rate contract no DLH/CHMM/Bioremediation/RC/03/2011-12/9020002462 dated 08-05-2013. Year 2014.**
Project Start Date : 13th June 2014
Project End Date : 09th March 2016
Scope of Work : Bioremediation of oil soaked sludge by utilization of Oil Zapper in different pits of ONGC, Mehsana Asset.

BIOREMEDIATION SITE AT SOBHASAN



COMPLETED PROJECTS BY OTBL AT MEHSANA ASSET, GUJARAT, INDIA

- Microbial Enhanced Oil Recovery (MEOR) jobs in 05 oil wells of Charada and Mansa oil field of ONGC, Mehsana Asset. Year 2016.
- Oil contaminated Land Restoration and Bioremediation at line leakage points of ONGC, Mehsana Asset for quantity of 30979 MT of oily sludge. Year 2015.
- Oil contaminated Land Restoration at line leakage points and Bioremediation of oil soaked soil at ONGC, Mehsana Asset. Quantity 14630 MT. Year 2013.
- Microbial Enhanced Oil Recovery (MEOR) process in Lanwa oil field of ONGC, Mehsana Asset. Year 2013.
- Execution of Paraffinic Degradation Bacterial (PDB) jobs in 45 wells of ONGC, Mehsana Asset. Year 2013.
- *In situ* Bioremediation of 13179 MT of oil contaminated soil at Bechrajee, Balol, Nandasan, Santhal and NK Area of ONGC, Mehsana Asset. Year 2012.
- Land Restoration at line leakage points and Bioremediation of oil soaked soil at Mehsana Asset. Quantity 16200 MT. Year 2011.
- *In situ* Bioremediation of oil contaminated soil lying at North Santhal CTF, South Santhal CTF, Balol and JTN GGS I ONGC, Mehsana Asset. Quantity 17323 MT. Year 2011.
- Execution of Paraffinic Degradation Bacterial (PDB) jobs in 50 wells of ONGC, Mehsana Asset. Year 2011.
- Bioremediation of waste oily sludge / oil contaminated soil lying at designated site of SB # 27 and SB # 18 and other pits at GGS I and GGS II of sobhasan area of ONGC, Mehsana Asset. Quantity 10679 MT. Year 2010.
- Restoration of waste water of 07 pits and bioremediation of oily sludge / oil contaminated soil at South Santhal area of ONGC Mehsana Asset. Quantity 12900. Year 2009.

OTHER ACTIVITIES OF OTBL AT MEHSANA

OIL ZAPPER APPLICATION AT BIOREMEDIATION SITES



NUTRIENT APPLICATION AT BIOREMEDIATION SITES



OTBL Field Laboratory in Oil field of Gujarat, India



Media preparation in Bioreactor



Culture Quality test of Microbes, under aseptic condition



Bulk Nutrient preparation in hooper mixer unit



Observation of microbes

Green initiative by OTBL in Gujarat

'Protectors of the Environment' recently completed the second phase.

educational programme in which approximately 2,000 children participated from three cities of Gujarat-Mehsana, Ankleshwar and Ahmedabad was conducted in 15 underprivileged government and private schools of these three cities.

The second phase completed with a *massive plantation drive* and interactions with technical experts from TERI and OTBL in all schools, where they shared valuable tips on how children can evolve into smart environment. The programme initiated several tools such as visual instruction, hands-on 'application and learning.

It *inspired children to translate 'thought into action'*. Children from these schools enthusiastically participated in plantation of trees in and around the school premises. The students planted around 2,000 saplings of herbal and fruit trees such as Neem, Jamun, Gulmohar, Guava, Silk Cotton etc. All participating children adopted the sapling planted by them and vowed to take care of them. The teaching faculty and the principal of respective schools motivated the students. The participating schools were finalized through a selection procedure based on their level of involvement, willingness and commitment to the programme.

The schools participating in the programme from Mehsana are:

Sabari Vidhya Vihar, Smt MG Patel Sainik School for Girls, Kendriya Vidyalaya ONGC, Eklavya School & Delhi Public School.

In Ahmedabad, the participating schools are:

Lalji Mehrotra Lions School (LML), Rachna School, Kendriya Vidyalaya No. 2, Kendriya Vidyalaya ONGC (Chandkheda) & Vedant International School.

The schools participating from Ankleshwar are:

Chandrabala Modi Academy, Lions International School, P P Savani School, National High School & Public School Kharod.

The programme is *scheduled to be concluded in October 2017* where all the participating schools will be applauded for their effort towards creating a greener planet.

*3 cities, 15 schools, 2000 students in Gujarat Enthusiastically
Participated as 'Protectors of the Environment' Programme of OTBL.*



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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