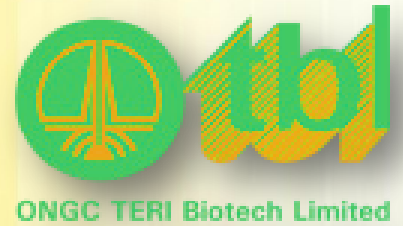


Newsletter

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ONGC Johrat Asset, Assam Project work

OTBL has got new project from ONGC Johrat 'Line Leakage in AB type Colony', this project has recently Completed.



Crude oil pipe, line leakage work at 'AB type Colony', ONGC Johrat



After Completion of clean-up work at oil pipe, line leakage work at 'AB type Colony', ONGC Johrat



Bioremediation work at Oil India Ltd., Duliajan, Assam

1. Bioremediation work at Hapjan, OIL India Ltd., Duliajan, Assam

Ex-situ Bioremediation was undertaken in a secured pit. In secured pit oily sludge was transferred from two locations located at Makum OCS and Hapjan OCS. After transferring the oily sludge, Oilzapper was applied on sludge three times to degrade the TPH in oily sludge. After application of Oilzapper tilling of sludge in pit was done regular for degradation of TPH.

Total Volume of Sludge is 725m3



Before Bioremediation



After Bioremediation

2. Bioremediation work at Digboi, OIL India Ltd., Duliajan, Assam

Ex-situ secured pit was constructed where oily sludge was transferred from pumping station 11 of Digboi Oil field area. After transferring the oily sludge Oilzapper was applied three times to degrade the TPH. Regular tilling of sludge was done for degrading of TPH. OTBL has successfully completed the job and the present condition of the site is shown below.

Total Volume of sludge is 500m3



Before Bioremediation



After Bioremediation



3. Bioremediation work Inside Bhekulajan EPS, OIL India Ltd., Duliajan, Assam

In-situ bioremediation site located at Bhekulajan. The condition of the site before the start of the job was bad and to execute the job was more difficult. The Depth of pit was more than two meter however Oil has given order to treat up to 1 meter depth of this pit. Oilzapper application in sludge pit was done three times and then tilling of sludge was done manually. It was a difficult task of tilling of sludge up to one meter because depth of pit was more than 2 meter. The present condition of the sites has shown below.

Total Volume of oily sludge is 2450m³



Before Bioremediation



After Bioremediation

4. Bioremediation work Inside NTL, OIL India Ltd., Duliajan, Assam

Below site was *In-situ* Bioremediation site. In this site after application of Oilzapper tilling of sludge was done till TPH in reduced less than 1%.

Total Volume of Oily sludge is 524m³



Before Bioremediation



After Bioremediation



5. Bioremediation work Inside OCS, 06, OIL India Ltd., Duliajan, Assam

Below shown site is an *In-situ* bioremediation site. The oily sludge was floated and spread all over the pit. Team OTBL Duliajan has put lots of effort in executing the job. The present condition of the sites is as below.

Total Volume of oily sludge is 600m³



Before Bioremediation



After Bioremediation

6. Bioremediation work Inside OCS, 01, OIL India Ltd., Duliajan, Assam

In-situ bioremediation was done in a pit. Oily sludge was spread all over the pit. Like other pit we applied Oilzapper on oily sludge and tilling of site was done till TPH in sludge reduced to less than 1%.

Total Volume of oily sludge is 1200m³



Before Bioremediation



After Bioremediation



OTBL & ONGC Singed Agreement for further 10 years on 8th May 2019

ONGC TERI Biotech Limited (OTBL), a joint venture of ONGC & TERI (The Energy and Resources Institute) was incorporated on March 26th 2007 with an objective to monetize the Joint research undertaken by TERI and ITS, ONGC. The venture was formalized to provide eco-friendly Bioremediation solutions to oil and gas industry both in India and abroad.

An initial agreement was signed between OTBL and ONGC on 28th February, 2008 for a period of 10 years, defining the responsibilities of ONGC and OTBL in respect of Bioremediation jobs of oily waste and oily sludge at various work centers of ONGC, the application of Oil Zapper, MEOR (Microbial Enhanced Oil Recovery), WDP (WAX Deposition Prevention) and PDB (Paraffin Degrading Bacteria), technologies for oil recovery services in the oil wells / flowlines of ONGC. Due to collaboration business relationship and it recurring success year by year, both the Stakeholders have mutually consented take this business partnership forward and agreed to renew the agreement.

Based on the past result and excellent physical and financial performance of OTBL, Director (Exploration), ONGC and the Chairman, OTBL, Mr. A.K Dwivedi along with the board members Decided, to renew the agreement further for a period of 10 years. ONGC Corporate BDJV took the initiative in consultation with Corporate HSE and IRS, Ahmendabad for the renewal of the agreement.

Accordingly, an agreement between ONGC and OTBL was renewed in continuation and formally signed on 8th May, 2019 by ED and Chief Corporate HSE Mr. Sunil Kumar Arora on behalf of ONGC and CEO Dr.Banwari Lal on behalf of OTBL in the gracious presence of Director (Exploration), ONGC and Chairman OTBL, Mr. A.K Dwivedi.

During Its journey, OTBL has completed more than 4.42 lakh MT of Bioremdiation jobs of more than 4.42 lakhs MT of oily sludge and oil contaminated soil 317 jobs of prevention of paraffin deposition in oil wells, Microbial enhanced oil recovery jobs in 107 oil wells and prevention of paraffin deposition in 160 km of crude oil transportation pipelines.

OTBL has more than 10 Indian Clients which includes; ONGC, Oil India Limited, IOC, BPCL, HPCL, MRPL, Reliance Energy, Numaligarh Refinery Limited, BG Exploration and Production India Limited, Tata Power, Cairn Energy Private Limited, Brahmaputra Crackers and Polymers Limited and two International Clients; Jindal Petroleum Limited Georgia and Petromasila Yemen.

OTBL & ONGC Agreement Signing Ceremony on 8th May 2019



Green initiative by OTBL

Gujarat CSR Project in detail

Protectors of the Environment (Phase III)

~ From Awareness to Skill Development ~

ONGC TERI Biotech Limited (OTBL)'s presents 'Protectors of the Environment (PoE III)' for the 3rd consecutive year to take another substantial step towards Conservation of the environment and the human lives in Gujarat. The objectives of PoE III are aligned with the SDGs and have long term impacts.

Responsible Action:

enabling target audience to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues.

Connecting with Environment:

fosters sensitivity, appreciation, and respect for the environment.

Empowerment and leadership:

promotes, citizenship and leadership. The project provides platform to share their voice and make a difference in their surrounding communities.

Behavioral change:

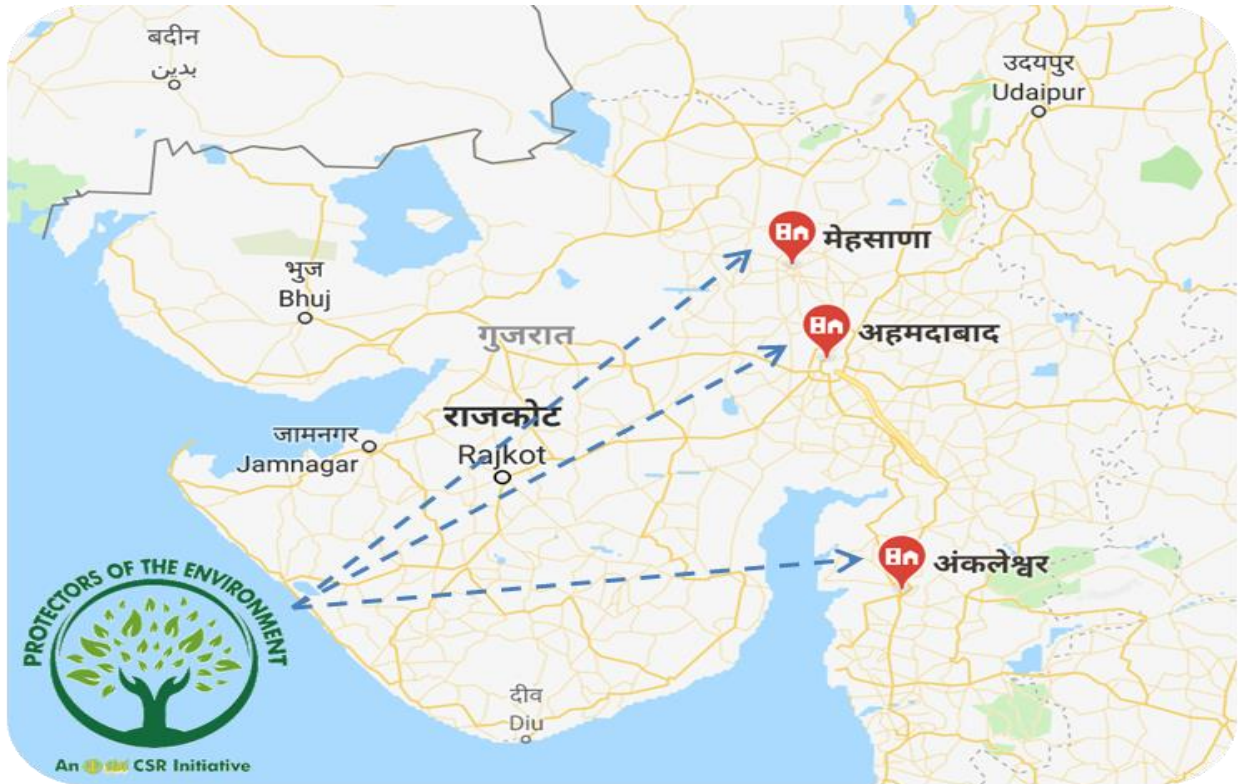
change mind-set and thereby change in behavioral patterns which are causing potential damage directly or indirectly to the environment.

The programme believes in sensitizing school children, teachers and the society at large on the importance of saving power and using it efficiently, and the importance of moral and civic values in becoming better citizens. PoE III will guide the participants through four stages of sensitization-Educate, Enhance, Engage, and Empower and help develop a self-sustained community that will take the cause forward independently in their sphere of influence.

Third year of PoE III is based on the theme *Conservation of Energy Resources* focused on local issues. PoE III will continue to work in both urban and rural areas in the districts of Ahmedabad, Mehsana and Anklshwar. The programme will reach out to the young children in the age group between 11 to 14 years, who are the future influencers and custodians of the earth and environment. The programme will enable the children to know about energy scarcity and its implications on human lives, understanding of energy efficient devices and how they can contribute for a better future. It will help children will take leadership roles to reach out to their neighborhoods and evaluate ground issues and behavioral patterns. In the process, they are made to understand the local issues and suggest corrective actions.

In this phase, PoE III will reach out to approximately more than 3000 students, 30 teachers and 200 households, as direct beneficiaries. The programme will be implemented and concluded by March 2020.





Area which will be covered by OTBL Gujarat CSR Project

OTBL's ESTEEMED CLIENTELE

- ◆ 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
- ◆ SB Industrial Engineering
- ◆ BCPL



ONGC TERI Biotech Limited

CONTACT US:

Director & CEO

ONGC TERI Biotech

Ltd Darbari Seth

Block,TERI

India Habitat Centre, Lodhi Road, New Delhi–110003

Tel.: +91-11-24682300, Fax: +91-11-24682144, +91-11-24682145

Email: blal@otbl.co.in, dinesh.rawat@otbl.co.in

Website: www.otbl.co.in