



PROCESS TECHNOLOGY AND  
CONSULTANCY SERVICES



ADVANCING THE HORIZONS IN OIL  
RECOVERY AND BIOREMEDIATION



Unitech TDT is a project company which has extensive expertise in the area of oil recovery and land remediation.

Unitech TDT specialises in working with clients to produce complete solutions to complex environmental problems. These solutions take the form of feasibility studies which comprise but not limited to the following topics:

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- PROJECT EVALUATION
- TECHNICAL EVALUATION
- ENVIRONMENTAL REMEDIAL SOLUTIONS
- COMMERCIAL EVALUATION, INCLUDING:
  - CAPITAL EQUIPMENT COSTS
  - INFRASTRUCTURE COSTS
  - TRANSPORTATION AND STORAGE COSTS
  - ENERGY COSTS
  - LABOUR AND INDIRECT COSTS
  - VALUATION OF RECOVERED OIL
- ON-GOING CONSULTANCY WITH CLIENTS WITH A VIEW TO ENABLING THEM TO DEVELOP **TURNKEY** SOLUTIONS

The backbone of Unitech TDT technology is based on interlinked technologies known as the Gemini Process Technologies.

The twin technologies on which the Gemini Process Technology is based on offering clients an integrated systems capable of dealing with a very wide range of oil waste problems. These twin technologies can be defined as **Primary Technologies** and **Secondary Technologies** summarised below:

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## PRIMARY TECHNOLOGIES

1. Extraction and processing for commercial use of oil contents from tank bottoms, sludges and emulsions
2. Recovery for commercial use, of oils held in lagoons
3. Recovery for commercial use, of oils from contaminated water lagoons
4. Cleansing of sands and earths from oil spills, pipeline leaks and seepages, including the recovery of the oil for commercial use.

Examples of these problems are available upon request.

## SECONDARY TECHNOLOGIES

1. Bio-remediation of de-oiled sands, soils and earths by means of a mobile system, using eco-friendly bacteria to digest oil remnants
2. Advise on the treatment of sediments to remove toxic organic chemical contaminants
3. Upgrading treatment for oils outside specification due to high asphaltene, wax and colloidal carbon levels etc.



Unitech TDT retains specialist consultants in many fields of operations. The key retained consultants are listed below:

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## CONSULTANTS

1. **I. Ripley**  
Bioremediation Specialist and Organic Chemist
2. A. H. Needham  
Senior Mechanical and Electrical Engineer
3. **O. Klockare**  
Marine Engineer, pump technology specialist
4. **Kevin Thomas**  
Engineer, specialist project management

Curriculum Vitae available upon request.

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