

Thermal Desorption Services:

Oil Contaminated Soil, Drilling Waste and Oily Sludge



THE INITIATES PLC

...supporting greener production & consumption

About Us

The Initiates Plc., is a Nigerian company delivering international standard contracting and consulting services in Waste Management, Industrial Cleaning and Decontamination to both private and Public sectors including the Oil and Gas industry. The company has multi-disciplinary and flexible workforce structured to be functional in a wide range of work environment. The company has all the necessary permits for the delivery of her services.

TIP Thermal Desorption Unit

TIP Thermal Desorption Unit (TDU) is a 10ton per hour capacity Plant that is indirectly fired and recovers hydrocarbon contaminants of almost virgin quality through the 3-stage Vapour Recovery System.

The Unit treats hydrocarbon contaminated materials including:

- Oil/Synthetic Mud
- Contaminated soil/Drill cuttings
- Tank Bottom sludge and
- Spent catalysts used in oil refineries.



Figure 1 The Plant has a blending Hall of 350m² and Waste storage capacity of 1200tons.

The Unit operates at about 600-850F temperature making it suitable for the extraction of light and heavy hydrocarbon (from naphtha to paraffin wax).

TIP has a 1week maximum Skip retention which is facilitated by our Automatic 10skips/hour skip turner and washer: this helps in driving low our clients cost and it is unparalleled in the industry.



Skip Turner and Bob Cat

Residue quality:

- Solid (maximum hydrocarbon level below 0.01% by weight) at a temperature of 60-80F
- Oil (96-99% of Original oil)
- Water (Less than 10ppm of Oil)

TDU Safety

We are Innovative

Our Plant has an integrated Continuous Emission Monitoring (CEM) System to ensure measurement and compliance with emission standards. The Plant reuses the recovered water for cooling, washing and re-blending of material for treatment. The residue is tested for heavy metal content and possibly converted to light-weight construction material.

How we ensure safety?

- Manufacturer's Trained Operators
- The Unit has easy to operate PLC based control system;
- Negative pressure inside the Kiln is continuously maintained (Pressure Relief Valve) and monitored (Vacuum Monitors);
- Automated process control with Automatic System Shut-down
- Nitrogen generating System for Fire Emergency Response
- High temperature monitoring sensor
- High- sensitive Oxygen Sensor (anaerobic TDU) for fire and explosion control

The Initiates Plc.

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Our Major Clients

