

Industrial Cleaning & Decontamination Services:



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 relevant permits necessary for delivering her services.

Industrial Cleaning and Decontamination Services

The Initiates Plc. (TIP) offers Clients industrial cleaning services at its very best with cutting- edge technology in Ultra/High Pressure Jetting systems (**UHPJ &HPJS**), Vacuums Pump System (**VPS**) and Non-Man Entry Automated Tank Cleaning Systems (**NEATS**).

We implement safe work systems and clean surfaces using our **UHPJ** or **HPJS** depending on surface/material strength, quality, level of cleaning and deposit age. Water is used in a wide range of our applications however, we do apply chemical in peculiar situations like presence of pyrophoric sludge, hydrocarbon and various recalcitrant deposits.

FPSO, Tank & Vessel Desludging & Cleaning

TIP provides fast, efficient and safe desludging and cleaning services for **FPSO** using **High pressure Jetting System (HPJS)** and **Vacuum Transfer System (VTS)** capable of water jetting and cleaning of the interior surfaces, and evacuating sludge from a depth of over 50meters in FPSO.



High Pressure Jetting System



Vacuum Transfer System (VPS)



Non-man Entry Automated Tank Cleaning System (NEATS)

With **Non-man Entry Automated Tank Cleaning System (NEATS)**, TIP cleans Crude, Chemical and Product storage Tanks in a very time-efficient and with minimal risk to facility and humans. This System limits confined space safety concerns, risks to facility and environment and at the same time ensuring quick delivery. The Vacuum pump is accompanied by Sludge loading Carousel (SX800) capable of loading Waste Skips directly from 50metres depth.

Thermal Desorption Services:

Oil Contaminated Soil, Drilling Waste and Oily Sludge



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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.

Plot 400, Location Road
Off Aba/PH Expressway (by Oyigbo Junction)
Umuebule 5, P.O BOX 7242
Port Harcourt, River State
Nigeria.

Website: www.initiatesgroup.com

Email: wms@initiatesgroup.com

Tel: +234 (0) 84669510

Our Major Clients



Heat Exchangers Tube and Fins Cleaning

Our cleaning equipment allows for a quick and efficient cleaning of Shell and Tube heat exchangers as well as plate, Air-cool Fins, and frame heat exchangers, eliminating sediments in no time. We offer cleaning technology that can clean either straight or spiral enhanced chiller tubes.



Pipeline, Drainage & Sewer Cleaning

Pipelines and Sewers Cleaning



When fluid (gas/crude/products/chemicals) is transported through pipes: geometry, temperature and pressure changes cause precipitation/deposition and with time, clogging result in the pipes. TIP cleans clogged pipelines, sewer and drainages automatically using Rotor-Carl.



Rotor-Car for Pipeline de-clogging

Soil and Groundwater Decontamination Services

TIP is involved in both In-situ (**ISCO**) and Ex-situ remediation (**INSVE**). For ex-situ operations special vacuum system (**VES**) is used for evacuation for thermal desorption treatment.

Vacuum Evacuation System (VES)

Contaminated Soil and Sludge Vacuum Evacuation System (VES): This is an automatic contaminated soil evacuation system for swift soil excavation and removal of contaminated sludge due for ex-situ treatment (Thermal Desorption Plant).



In-situ Chemical Oxidation (ISCO)

In-situ Chemical Oxidation (ISCO): TIP involves injecting oxidants and other supplements as may be required directly into the source zone and down plume gradient to remediate contaminated groundwater and soil. It is a double action method (remediation of soil and water concurrently) and requires drilling of injection wells to reach the contaminants. The oxidants react with the contaminants, producing innocuous substances such as carbon dioxide (CO₂), water (H₂O), and inorganic chloride.

In-situ Vapour Extraction (SVE)

In-situ Soil Vapour Extraction: TIP engages Soil vapor extraction (SVE) as an in-situ remediation technology that involves the installation of a series of "wells" in the contaminated soil above the water table and placing a negative pressure on wells in the vadose zone to pull contaminated soil vapors from the subsurface soils.



In-situ Soil Vapour Extraction

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Our Major Clients

 ADDAX
PETROLEUM



 Federal Ministry of
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Schlumberger



 WAV
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