



THE INITIATES PLC (TIP)

THERMALDESORPTION SERVICES

THE INITIATES PLC
TDU, Incinerator, Cleaning &
Decontamination, E-waste Services

OUR MISSION: To facilitate Industry and Man co-existence in safe Environment.

OUR VISION:

To be the Industry's leading provider of Waste Management and Industrial Cleaning services that eliminate clients' exposure and protect the environment through:

- Adherence to best practices;
- Consolidation of experience; and
- Improvement aimed at adding value to our clients businesses and public life.



CORE BUSINESS VALUE

Professionalism (integrity; expertise; and standard)

Innovation (a solution that is simple and efficient)

Commitment (to safety; environmental protection; quality, and compliance to law).



Hazardous Waste Management & Industrial Cleaning Company:

- **Thermal Desorption**
 - ✓ Drilling waste, Oily Sludge, & Oil contaminated Soil
- **Waste Incineration**
 - ✓ Medical Waste, Chemical Waste, & other Hazardous Wastes
- **Industrial Cleaning & Decontamination**
 - ✓ Water Jetting, Tank & Vessel, Heat Exchanger Cleaning, Asbestos Management
- **E-Waste Management**
 - ✓ Office and Communication Equipment, Large & Small Household Appliances
- **Waste Management Consultancy**
 - ✓ Waste Audit, Pollution Investigation, & Trans boundary Movement of Waste

1995 – 2005

- Incorporated as a Waste Management Firm
- Providing Waste Management Consultancy Services
- Providing Waste Facility Construction and Management services to Clients

2006 – 2015

- Installed a 10ton/hr TDU Facility
- Started Hazardous Waste Management
- Added Cleaning & Decontamination Services
- Converted to a Public Liability Company

2016 – Forward

- Installed an E-Waste Management Facility
- Development of Incineration Facility ..
- Listed in Nigerian Stock Exchange Market

Headquarter:

Plot 400, Location (New) Road
Off Aba/PH Expressway (By Oyigbo Junction)
Umuebule 5, Rivers State, Nigeria



Thermal Desorption Services

- ❖ 10 tons/hr Indirect Thermal Desorption Plant
- ❖ Up to 96% hydrocarbon recovery
- ❖ less than 4ppm of oil in recovered water
- ❖ 3-stage Vapour Recovery System
- ❖ Waste pit storage capacity of 1200tons
- ❖ Digital weighing platform
- ❖ 100 Percent Regulatory compliant
- ❖ Treatment of:
 - Drill Cuttings
 - Oily Sludge
 - Contaminated Soil



Hazardous Waste Incineration

- ❖ 3tons/hr Capacity Rotary Kiln Incinerator
- ❖ Bi-chamber Incinerator capable of attaining 900°C & 1200°C and 2seconds residence time in the Secondary Chamber
- ❖ Activated Carbon & Wet scrubbing Systems
- ❖ Continuous Emission Monitoring System
- ❖ The Incineration Plant handles:
 - Hazardous Waste
 - Chemicals
 - Solid & Liquid Waste
 - Refining Residues
 - Medical waste
 - Sludge



E-Waste Management

- ❖ 1 tons/hr E-waste Processing Plant
- ❖ We process all types of e-waste including:
 - Large Household Appliances
 - Small Household Appliances
 - Office and Communication Devices
 - Lighting Equipment (fluorescent tubes, lamps)
 - Ozone Depleting Substances (CFC & HCFC) Recovery Capability
 - Cathode Ray Processing
 - Printed Circuit board (PCB) Processing
 - Cable Recycling



Cleaning & Decontamination

- ❖ Vacuum Transfer System (VTS)
- ❖ Remote Pipe and Sewer Cleaning Unit
- ❖ Ultra/High Pressure Jetting systems (UHPJ & HPJS)
- ❖ Non-Man Entry Automated Tank Cleaning Systems (NEATS)
- ❖ With these Systems we cleaning:
 - FPSOs, Tanks, and Vessel Desludging
 - Surface Cleaning
 - Crude, Chemical and Product storage Tanks
 - Heat Exchangers Tube and Fins Cleaning
 - Pipelines, and Sewers Cleaning



Waste Management Consultancy

- ❖ Trans-boundary Movement of Waste
- ❖ Pollution Investigation
- ❖ Remediation Planning
- ❖ Waste Auditing
- ❖ Facility Design, Construction, & Operation



Operational Base: Rivers State,
Port Harcourt



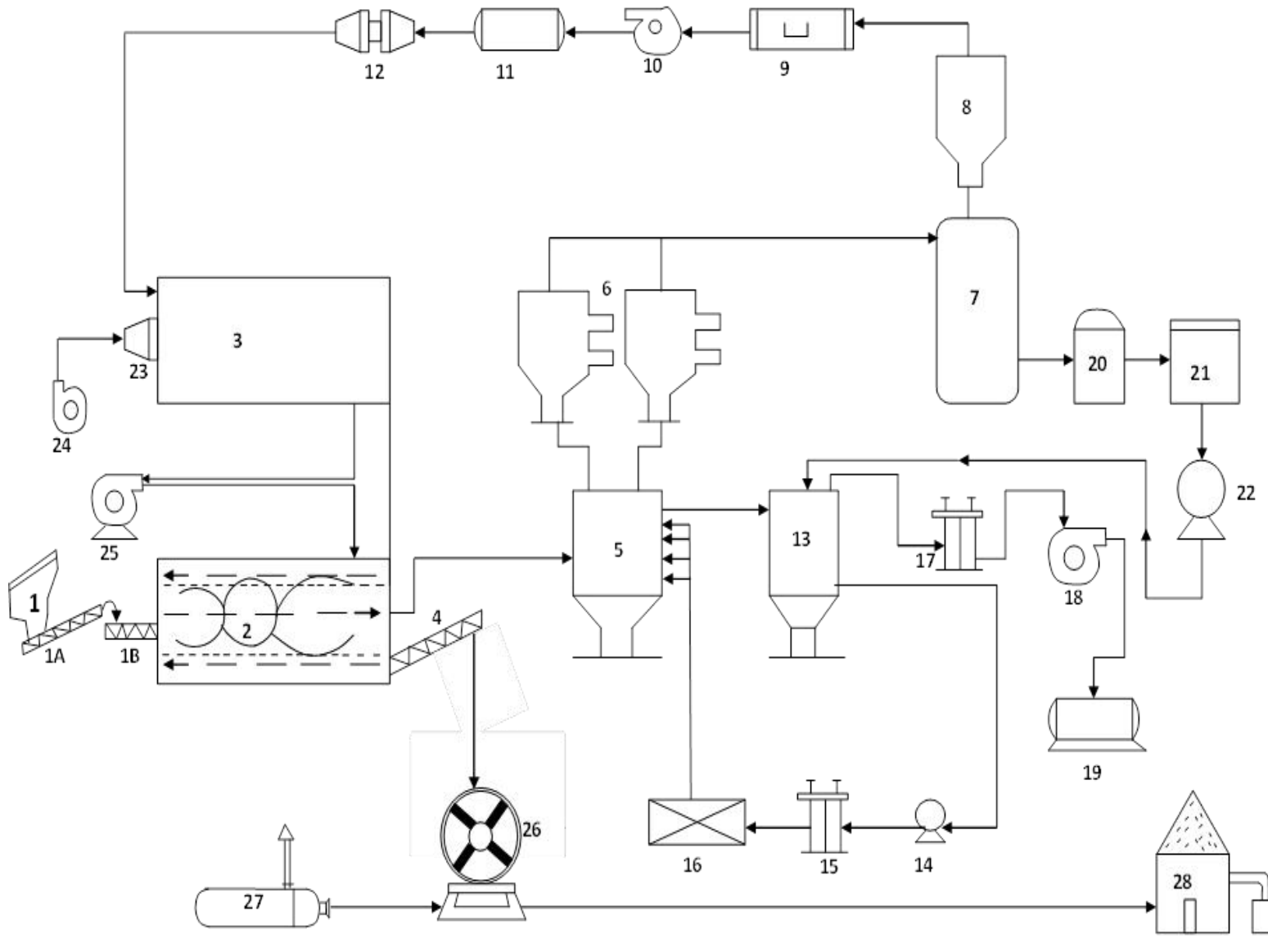
THERMAL DESORPTION UNIT

Thermal Desorption Unit

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



Thermal Desorption Unit Process



	Representation
1.	Feed Hopper
1A.	Feed Transfer Conveyor
1B.	Feed Injection Conveyor
2.	Main Processor (Kiln)
3.	Combustion Chamber
4.	Ash Discharge Conveyor
5.	Scrubber Tower
6.	Mist Eliminator
7.	Knock Out Pot
8.	Mist Eliminator
9.	Mist Eliminator
10.	Waste Gas Blower
11.	Condenser
12.	Flame Arrestor
13.	Oil Tank
14.	Oil Recirculation Pump
15.	Filters
16.	Air Cooled Heat Exchanger
17.	Filters
18.	Oil Discharge Pump
19.	Base Oil Storage Tank
20.	Oil/Water Separator
21.	Oil Tank
22.	Oil Discharge Pump
23.	Burner
24.	Combustion Air Blower
25.	I.D Fan Blower
26.	Rotary Valve
27.	Blower
28.	Ash Discharge Bin





Plant Profile

1. About 600-850F temperature
2. Oil (96-99% of Original oil)
3. Extraction of light and heavy hydrocarbon
4. Water (Less than 5ppm of Oil)
5. Treated over 20,000tons of Oily sludge





**Skip Turning, Washing
and Return within 48
Hours at TIP Base**



MUD SKIPS/CUTTING BOXES

Mud Skip/Cutting Box is used for transportation and safe handling of hydrocarbon contaminated drill cuttings from offshore platforms. These units provide a safe and efficient means of drilling waste containment for transportation to treatment facility.

Features:

- Designed and manufactured to DNV 2.7-1/ EN 12079/DOT 49CFR176.340 standards
- Certified slings complete with shackles are provided according to DNV 2.7-1/EN 12079 standards
- Design temperature -4°F, -20°C
- 25BBL/1050 gallons/4000 litre capacity
- Sealed lid prevents spillage during transportation
- Even when stacked two high, the sling on the upper slip is easily accessible
- Drainage points are standard
- Lightweight lid for safe and easy lifting, opening/ closing
- Large lid ensures ability to fill unit to maximum, improving logistics



Storage & Treatment

Technologies:

Designed for:

- Storage of Drilling Mud
- Treatment of mud/cutting & sludge

Technology:

- ✓ Skip turning
- ✓ Digital weighing platform
- ✓ 10tons/hr low temperature TDU with dust control system
- ✓ Environmentally friendly
- ✓ 99% material recovery



Solidification of Ash

- Ash gotten from treated mud/Cutting
- Fixed after Laboratory analysis

Technology :

- ✓ This is dependent on the level of toxic metals and NORMS in the residue.
- ✓ The residue and other additives are mixed using pre-determined ration of Sand, Cement and Residue.
- ✓ Water is further added to the blended composite.
- ✓ The mixture is cast and allowed to cure for a period of 21 days.
- ✓ The curing period includes intervals of watering to enhance controlled dehydration and strength development of the principal binding material (Cement)





Thank you for
your interest

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