

## Project Summary

### Planned Oilfield waste Treatment Plant - Overview

Oilfield Waste Management Services (OWMS) plans to construct a thermal desorption waste treatment plant in Guyana to support the growing oil exploration activities. The plant is based on a thermal desorption separator (hammer mill) which uses friction to heat wastes so that oil residue are evaporated. The evaporated oil and water contents are then condensed and recaptured / separated. The remaining solids can then be safely disposed or reused.

OWMS plans to recycle the recaptured oil so that it can be used in the Liquid Mud Plant manufacturing process. The solid wastes will be used in the bitumen manufacturing process. No solids are expected to be sent to landfills.

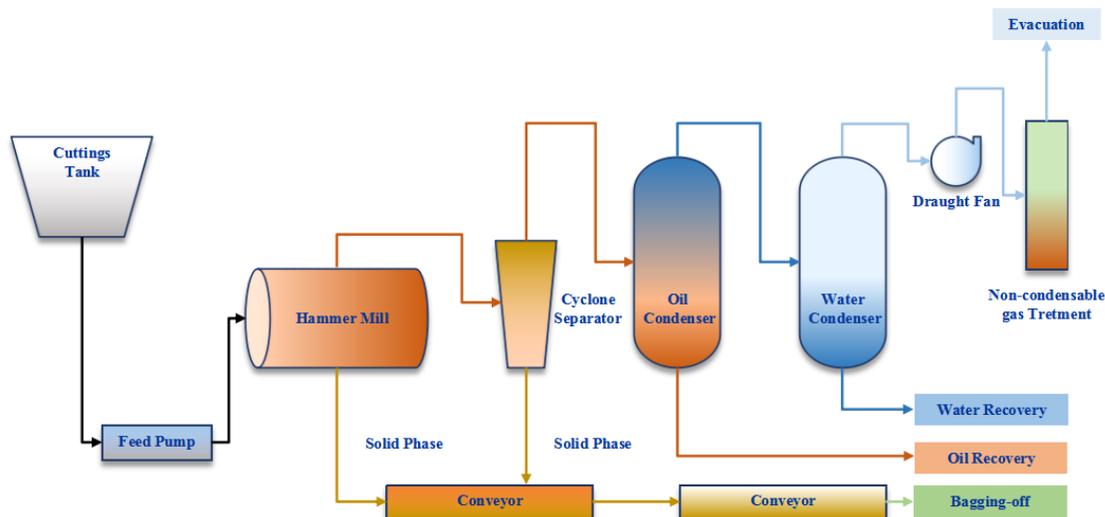


Figure 1: Process Flow Diagram of the Planned Waste Treatment Plant

### Layout overview

The footprint of treatment plant is about 5000 m<sup>2</sup>, the length is about 100 m, and the width is about 50 m. The general plan of the project is divided into four functional areas: Operation area, oily cuttings storage area, treated cuttings storage area and office and living area.

### ■ Requirements of operation

✓ **Operation area**

The concrete ground with rainproof shelter, cover an area of about 800m<sup>2</sup>. The GWTDU, water tanks and oil tanks will be located here.

✓ **Oily cuttings storage area**

The concrete pit with rainproof shelter, which can hold 1000 tons of oily cuttings, covers an area of about 1000m<sup>2</sup>.

✓ **Treated cuttings storage area**

Store the treated cutting without base oil, Total area is about 1500m<sup>2</sup>

✓ **Office and living area**

Office, parking, and staff lounge area covers 700m<sup>2</sup>.

✓ The power supply, road and the others

The area is nearly 1000m<sup>2</sup>.

✓ Utility and power supply

(1) Power supply: 380kV, 720kW

(2) Water supply: domestic water, daily consumption is about 2m<sup>3</sup>

(3) Gas supply: no gas supply

Please review this video showing a detail breakdown of the operations at the Waste Treatment Plant: <https://youtu.be/3TMCSpiEqWI>

