

500 TPD Solvent Extraction (Seed Oil) Plant for Sale

Capacity

500 tons per day of agriculture or forest feed materials

History

Build in 2014

Shut down in 2016

Technology

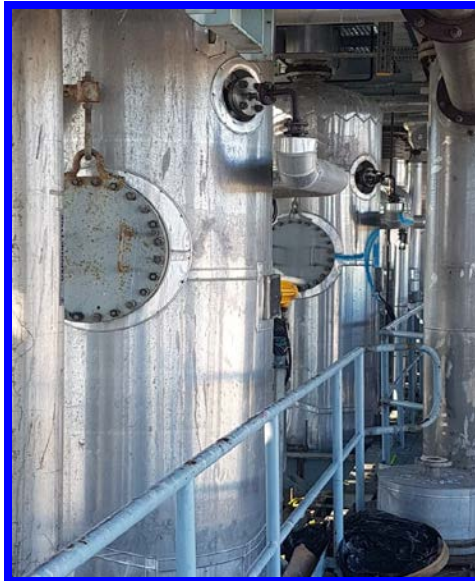
Continuous solvent (Hexane) extraction process

Energy Consumption

1031 kW by the extraction process

Major Equipment

- Continuous extractor
- Desolventizer
- Flash cum separator
- Steam economizer
- Absorption oil stripper
- Absorption heater
- Vapor absorber
- Final gas cooler
- Vent condenser
- Miscella evaporator
- Oil heat exchanger
- Surface condensers
- Fractionating column
- Polishing column
- Biomass steam boiler
- Solvent separation tank
- Decanter



BRIEF PLANT DESCRIPTION

The plant is to use Hexane as solvent to extract oil and other chemical compositions from wood stumps and vegetable seeds. The plant includes a preparation unit which chips feed material into small size to enhance extraction efficiency. Depending on feed material, the counter-current extraction process may vary from 60 to 160 minutes. Hexane solvent is sprayed over the moving bed of material and the oil compositions are removed from the material. The mixture of oil and solvent forms miscella which is sent to distillation unit. Extracted material is fed to desolventiser. Miscella is heated and flashed/stripped gradually to separate hexane and oil components. This process is under vacuum to reduce hexane losses and minimize steam consumption. Uncondensed vapor from distillation is trapped in mineral oil and recovered in the recovery section.

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