

VALUE ADDED PRODUCTS OF VINASSE

POTASH RICH VINASSE POWDER

CONDENSED MOLASSES SUBSTRATE

VINASSE BRIQUETTES



Running Reference

FUEL

FERTILIZER

NUTRIENT FEED



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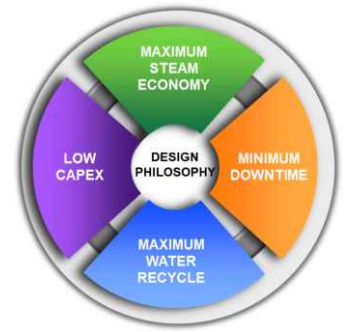
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VALUE ADDED PRODUCTS OF VINASSE

Molasses based distillery wastewater (Vinasse) is one of the most polluted waste products to dispose. Choosing right method as per plant location is not a easy job. Mega Engineering is developed a solution for the distilleries with or without biogas plant. After biogas plant, vinasse pH is more neutral ranges 6.8 – 8.5. Mega Engineering offers a plant which can produce multiple products and achieves zero liquid discharge from molasses based distillery and can produce multiple products.



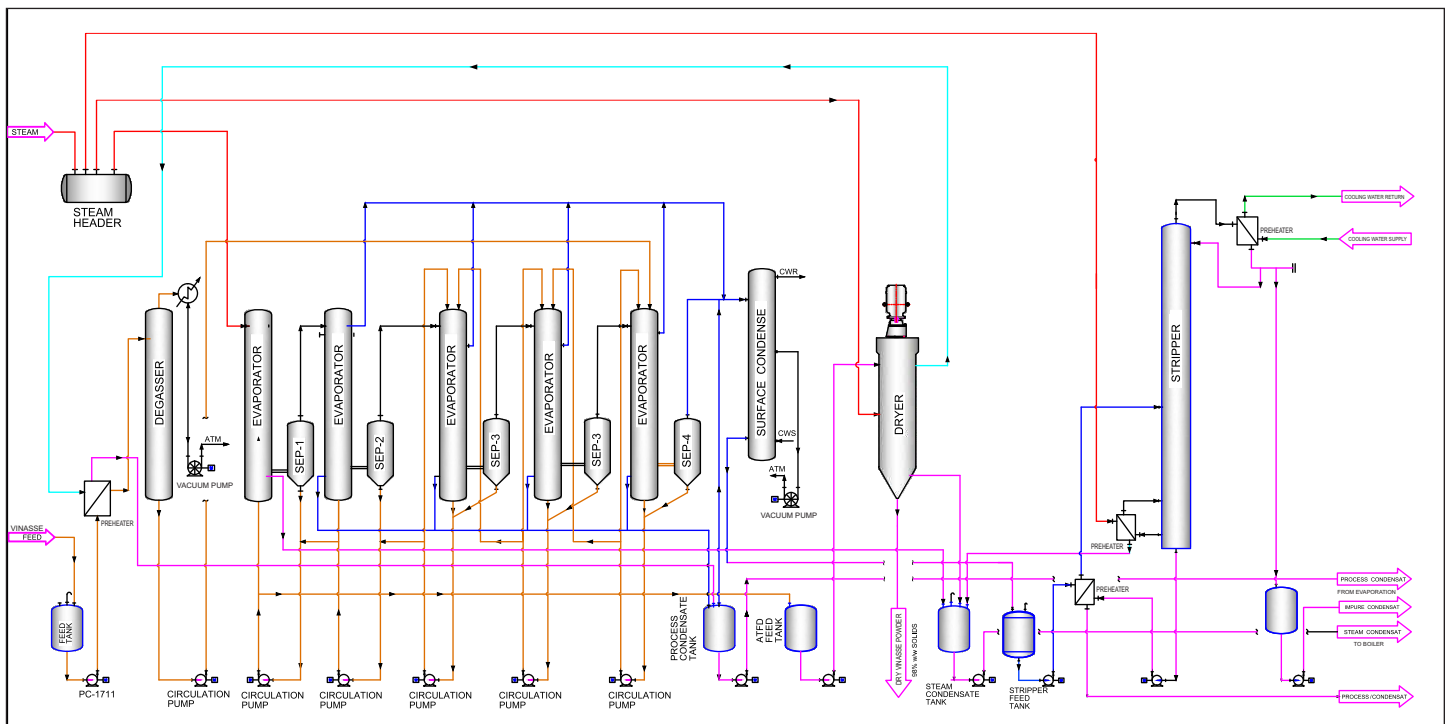
- ✘ **Condensed Molasses Solubles**
- ✘ **Potash Rich Dry Vinasse**
- ✘ **Vinasse Briquettes**

PROCESS INNOVATION

The process consist of combination of multiple effect evaporators of various types. It uses combination of falling film evaporators, forced circulation evaporators, scrapped surface evaporators and scrapped surface dryer. Biomethanted Vinasse has dissolved gases which foaming problems in evaporation plant. To avoid foaming and color carryover in process condensate, biomethanted vinasse is degasified using special degassifier. After degasifying, vinasse is concentrated upto 25 to 30 % in falling film evaporators. It is further concentrated upto 45 – 50 % in forced circulation evaporators. To produce condensed molasses solubles at 70 – 80% w/w solids it is further concentrated into scrapped surface evaporators and then further dried into dryer.

Condensed Molasses Soluble can be either used as a nutrient additives for animal feed or further mixed into biomass to convert into biomass briquettes or further dried upto 97% w/w to produce potash rich powder.

The process condensate is treated into condensate stripper and then water can be recycled back to process.



ADVANTAGES OF MEGA TECHNOLOGY:

- ✘ Additional Revenue After Recovering Biogas.
- ✘ Multiple Products From Single Plant.
- ✘ Minimum Land Requirement.
- ✘ Crystal Clear Condensate Recovery.
- ✘ Minimum Manpower Required.
- ✘ Environmental Friendly.
- ✘ Minimum Steam Consumption.

ANALYSIS OF POTASH RICH DRY VINASSE

Parameters	Unit	Value
Total Solids	% w/w	95 - 97%
Calorific Value	Kcal/kg	2000 - 2800
Ash	% w/w	40 - 45 %
Kjeldahl Nitrogen	% w/w	3 - 4%
Phosphorous	% w/w	3 - 5%
Pottasium	% w/w	14 - 20%
Magnesium	% w/w	1 - 2 %
Calcium	% w/w	2 - 3 %
Sulpher	% w/w	3 - 3.5%
Sodium	% w/w	0.5 - 1.0%



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