



CRUDE PALM OIL REFINING SYSTEM

CRUDE PALM OIL REFINING PILOT PLANT



DESCRIPTION

Using membrane-based technology in refining crude palm oil would definitely give a strong impact on the quantity of effluent discharged and cost reduction, mainly attributed to its advantages of degumming and deacidifying crude palm oil simultaneously without using additional chemicals and less energy intensive.

Needs

- a) As an alternative to the conventional refinery processes.
- b) Production of oil with high quality of colour, taste, odour and stability.
- c) Less energy intensive.

Application

- a) A designed and developed a new membrane-based system for simultaneous degumming and deacidification of crude palm oil for the production of oil with high quality of colour, taste, odour and stability.
- b) The long term performance of the developed membrane must carefully monitored to minimise the deterioration.

Benefits

- a) Low energy consumption.
- b) Safety with no addition of chemicals.
- c) Retention of nutrients and other desirable components in the oil elimination of wastewater treatment.
- d) Simple operation and easy change of scale.

Targeted Market

- a) Palm Oil Refinery industry.
- b) Palm Oil Food industries.



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