

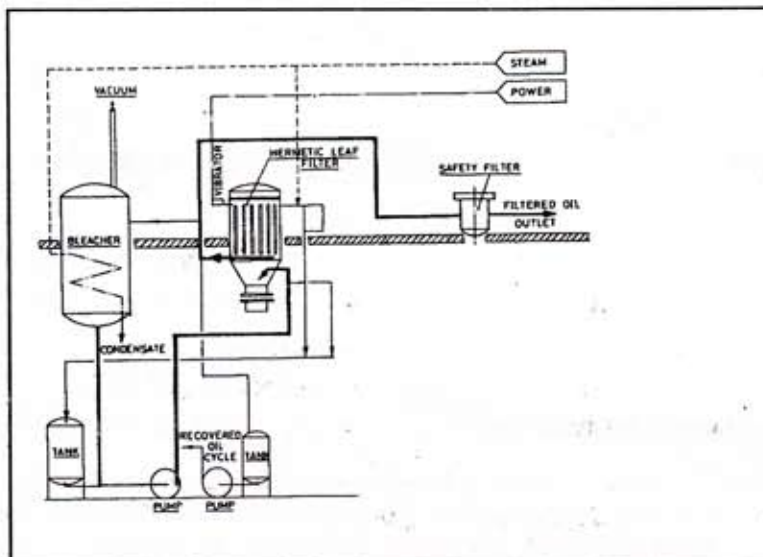
BLEACHING

The process of bleaching is basically adsorption of colour bodies on the surface of activated bleaching earth. The efficiency of the operation not only depends upon the quality of the earth used but also how effectively the earth is mixed with oil.

The process can be carried out both on batch basis as well as continuous. The continuous process is more suitable where one type of oil is to be bleached and a standard quality of earth is available.

BATCH BLEACHING

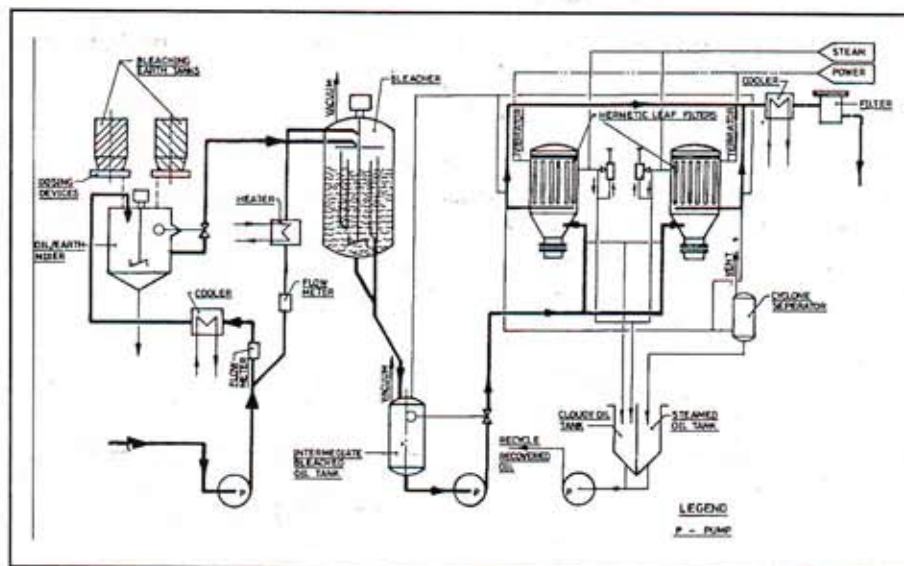
The neutral oil from the neutralising process is charged into the bleacher vessel which is maintained under vacuum. The oil is heated to a temperature of 100 - 110°C and the bleaching earth is sucked into the bleacher from the bleaching powder feed tank. The agitator provided on the bleacher ensures that the bleaching earth is properly dispersed throughout the oil mass and remain in suspension for the maximum efficiency. After the required bleaching operation the oil is cooled to a safer temperature for filtration through either a plate and frame filter or modern Pressure Leaf Filter. The cake is dried by a steam blowing before discharge.



CONTINUOUS BLEACHING

The dried neutral oil from the neutral oil tank is pumped through heater and flowmeter into the bleacher. A small quantity of the neutral oil through flowmeter and cooler is sent to oil earth mixer, where bleaching earth is fed from the bleaching powder feed tanks by variable speed screw conveyors to form a slurry. The slurry is sucked into the bleacher, which is maintained under vacuum. Agitation is provided inside the bleacher either by mechanical agitator or open steam bubbling. In both the cases provision is made to disperse the oil and the slurry to the periphery of the bleaching vessel and thereafter the mixture passes through vertical partitions, which avoid any possibility of short circuit and provides pre-determined uniform retention time.

The bleaching filter pump pumps the mixture through either of the two hermetic leaf filter alternatively to provide continuous operation of filtration and drying and discharge of spent earth. The filtered oil is passed through an oil cooler to cool the bleached oil to the required temperature before it is sent to storage.



WE OFFER THE FOLLOWING PLANTS FROM CONCEPT TO COMMISSIONING

- CONTINUOUS DEGUMMING
- CONTINUOUS AND BATCH BLEACHING
- PHYSICAL REFINING
- SOAPSTOCK ACIDULATION
- DRY FRACTIONATION OF PALM OIL
- CONTINUOUS NEUTRALISATION
- CONTINUOUS AND BATCH DEODORISING
- DEWAXING
- VANASPATI PLANT
- FAT SPLITTING AND STEARIC ACID