

STRIKE GOLD WITH OIL SEEDS



Ace Oils Refining Systems



DEGUMMING & NEUTRALISING SECTION

Ace Oils is Turnkey supplier of Physical as well as Chemical Refinery plant, which is designed for optimum utilization of energy and available space that takes care of every stage, in the process saving your time and money. Our latest technology reduce energy losses and Refine all type of Oil i.e. Rice Bran, Soya bean, Mustard, Sunflower, Ground Nut, Castor, Palm Oil and Rapeseed Oil etc.

Ace Oils Refinery remove the undesirable components and at the same time maximizes retention of the beneficial components.

Ace Oils Refinery Plant sequence of operations is as follows:-

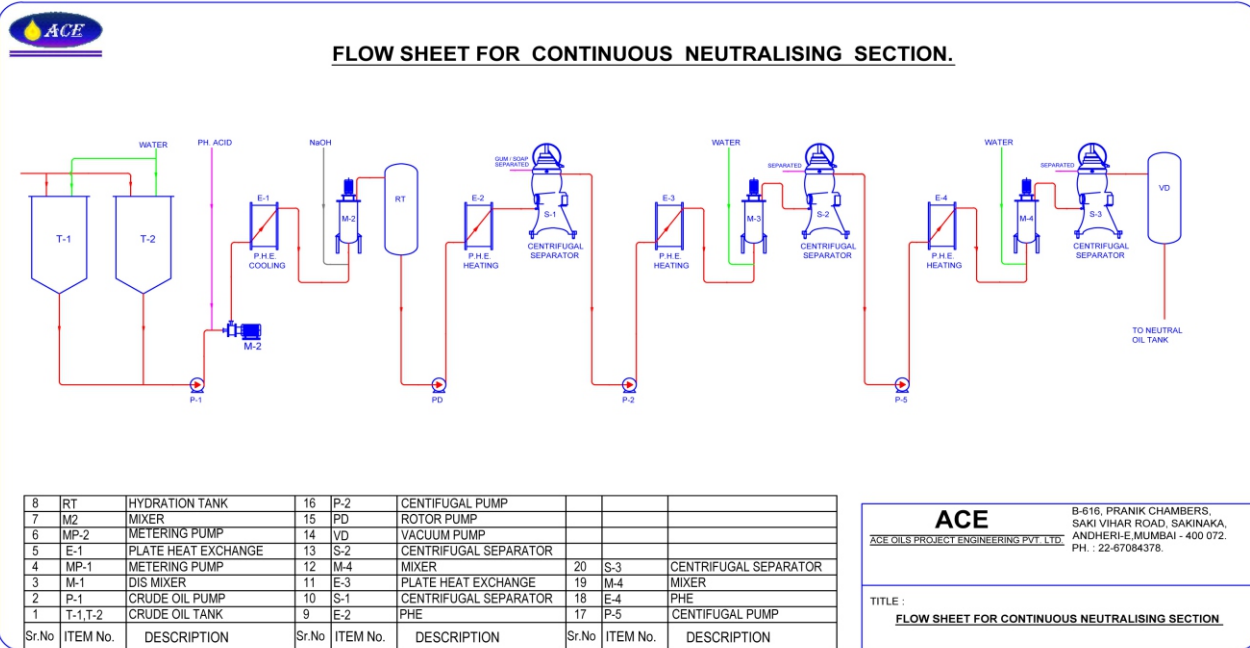
1. Degumming & Neutralising Section
2. Bleaching Section
3. Dewaxing Section
4. Deodorising Section



1. DEGUMMING & NEUTRALISING SECTION

Ace Oils Neutralising Plant is designed to hassle free and simple operation. Plant can be controlled from Central Panel with large easy to read flow diagram of the process and entire plant can be handled by a single operator, so raw material can be obtained from various sources as it is a user friendly and simple operation.

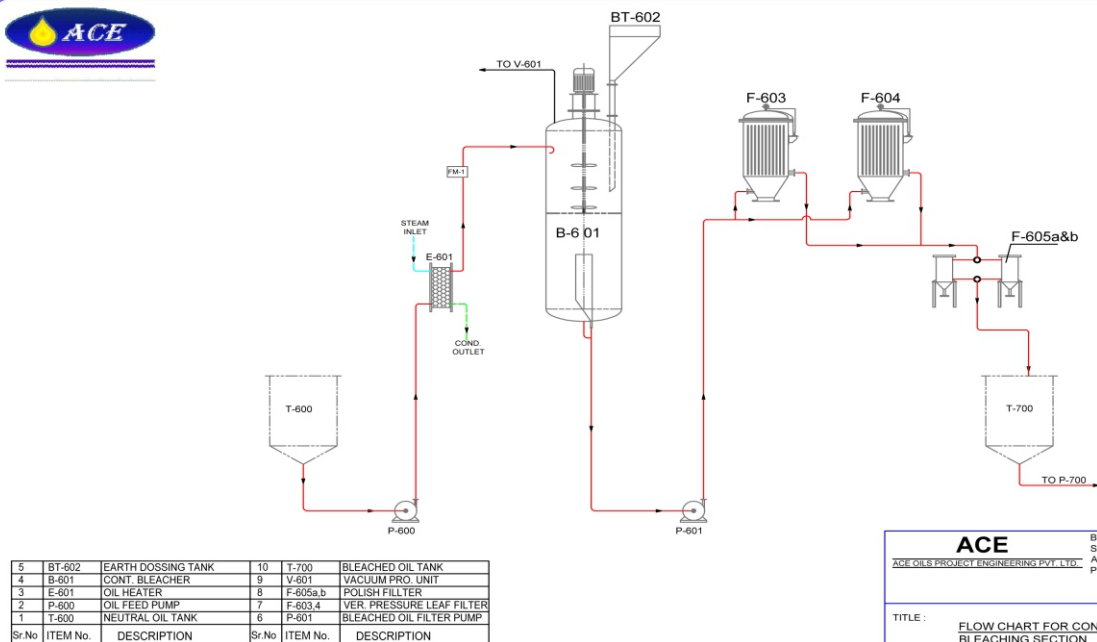
Neutralisation is also described as deacidification or caustic refining. Ace Oils Continuous Neutralising plant is capable to neutralize the free fatty acid (FFA) in a batch or continuous system. Various operations like Degumming, Gum Conditioning Neutralising and water washing can be carried out in the plant. The soap formed in the reaction also adsorbs natural pigments, unhydrated gum and mucilaginous substances contained in the oil. Settling or centrifugation is used to remove the soap.



BLEACHING SECTION

Ace Oils Bleaching Plant is designed not only to remove the pigment (chlorophyll) but, more importantly, to break down peroxides (primary oxidation products). It is based on the most advanced and easy to operate technology, which enables the reduction in consumption of bleaching chemicals, floor area and labour without compromise with a final oil colour and market standards.

Operation of Bleaching plant is done under vacuum and completely out of contact with air. Ace Oils Bleaching Plant is most effective to adsorb chlorophyll and without any possibility of oxidation of oils during the Bleaching Process as a result of which we get highest quality Bleached oil. The system enables accurate dosing rates as per the process requirements and final colour demands. Bleaching agent then filtered with Pressure Leaf Filters complete with stainless steel woven wire mesh filter leaves.



5	BT-602	EARTH DOSSING TANK	10	T-700	BLEACHED OIL TANK
4	B-601	CONT. BLEACHER	9	V-601	VACUUM PRO. UNIT
3	E-601	OIL HEATER	8	F-605a,b	POLISH FILTER
2	P-600	OIL FEED PUMP	7	F-603,4	VER. PRESSURE LEAF FILTER
1	T-600	NEUTRAL OIL TANK	6	P-601	BLEACHED OIL FILTER PUMP
Sr.No	ITEM No.	DESCRIPTION	Sr.No	ITEM No.	DESCRIPTION

ACE

B-616, PRANIK CHAMBERS,
SAKI VIHAR ROAD, SAKINAKA,
ANDHERI-E, MUMBAI - 400 072.
PH. : 22-67084378.

TITLE : **FLOW CHART FOR CONT.
BLEACHING SECTION**

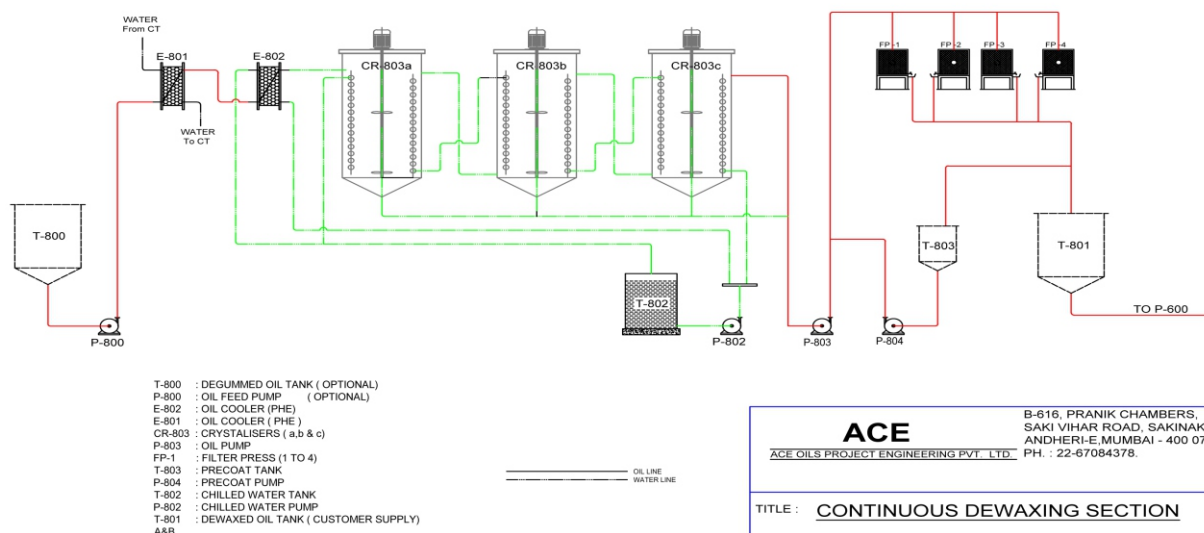
DEWAXING SECTION

The presence of wax makes the oil appear cloudy. Ace Oils Dewaxing Plant is designed to remove the wax and ensure clarity of the oil.

This process comprises of slow & regularized cooling of oil is cooled slowly to 7 - 8°C in special equipment "Ace Oils Crystalliser" with a special low speed mechanical agitator. The maturators are utilized for propagation and crystal growth of wax. Finally wax is filtered through a polypropylene filter. Wax contains some oil which is recovered in wax press. Dewaxed oil is further processed in deodorising section.



FLOW SHEET FOR CONTINUOUS DEWAXING SECTION.

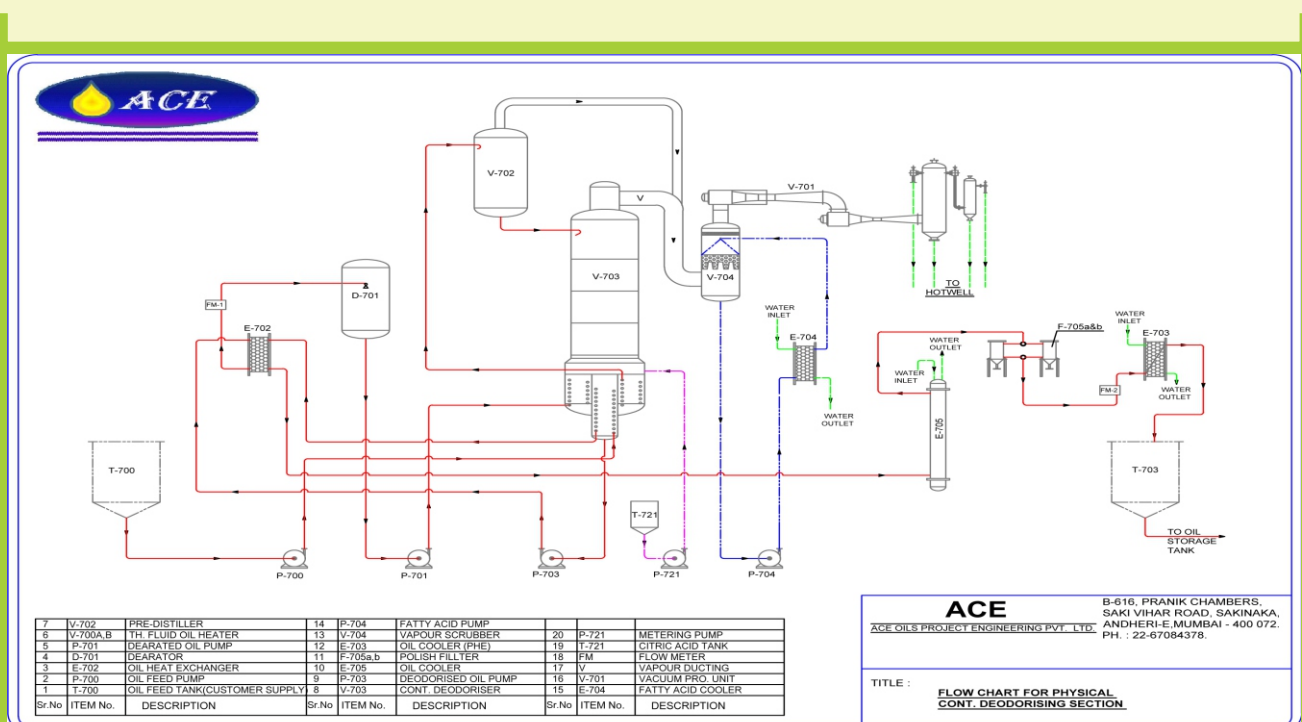


DEODORISING SECTION

Ace Oils Deodorising Plant ensures high efficiency of stripping as it is run under high temperature (252 to 266°C) and high vacuum (<6mm Hg). Under these conditions peroxides are decomposed and the FFA and odorous compounds are vaporized in our uniquely designed equipment "Ace Oil Deodoriser". All operation is centralized in control switch board with flow chart.

Our continuous Deodoriser is specifically designed to achieve:-

1. Continuous operation and/or quick feed stock change over without loss of operation time.
2. Equal temperature & vacuum through out to ensure high efficiency of stripping.
3. Low energy requirement
4. Highest efficiency heat recovery (85%).



OUR ASSETS

1. A Team of Highly qualified and Trained Engineers with vast experience in Solvent Extraction and Vegetable oil field.
2. The knowledgeable, experienced and committed team of skilled workers with well equipped and latest advanced machinery.
3. Qualified Execution Team to execute project within schedule time.
4. Design cum R & D team is constantly engaged for economical, skillful engineered design that provides you latest technologies with optimum utilization of energy and safety device.

OUR CONSOLIDATED ACTIVITIES AT A GLANCE:

1. Solvent Extraction Plant
2. Vegetable Oil Refinery
3. Acid Oil Plant
4. Dewaxing Systems
5. Vanaspati & Industrial Hydrogenation systems
6. Expander Systems
7. Proteins & Edible Flour
8. Oil milling systems
9. Bakery Shortening Plant
10. Margarine Plant
11. Lecithin Plant
12. Bio diesel Plant
13. Fractionation Plant
14. Interesterification and Transesterification



ACE Oils PROJECT ENGINEERING PVT. LTD.

B-616, Pranik Chambers, Saki Vihar Road, Saki Naka, Andheri East, Mumbai - 400 072. INDIA
Call Mobile: +91 9820072215 Email id: saurabh@aceoils.in, info@aceoils.in
Website: www.aceoils.co.in