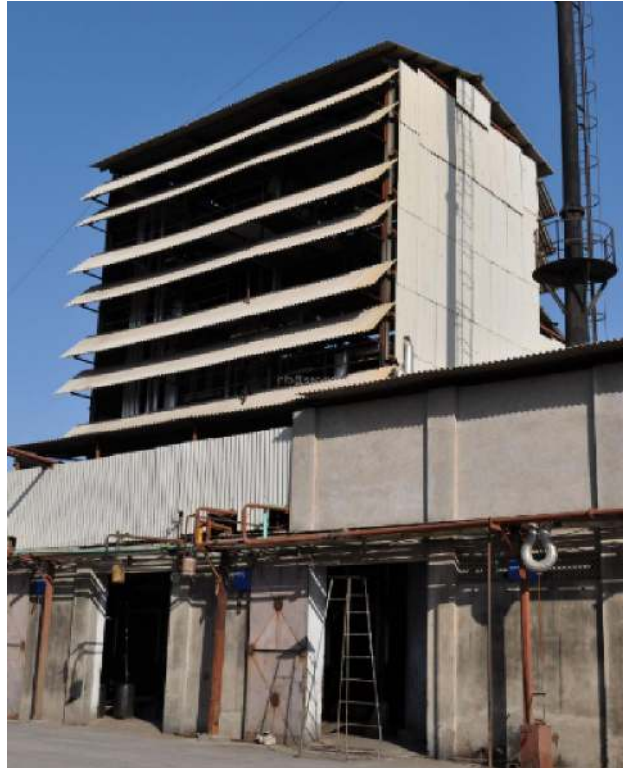




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## Continuous Physical Refining Plant with Neutralizing, Bleaching and Deodorizing:

Capacity: 50 Tones Per Day (24Hrs)

Make: ALFA+BRAN Engineering.

Present Condition: Presently installed and in working condition, inspection is possible on prior appointment.

Location: Jamnagar, Gujarat, India.

**Price: "Please call" 'as is where is'**

Delivery: Immediately.

Dismantling cost, Loading, Packing, Insurance extra as applicable.

All technical specifications and photographs are for your reference only, inclusion and omission of any equipment's are at our sole discretion.

The machines are subject to prior sale; this offer is subject to our General Terms and Conditions.

Feed Capacity: 50 Tones Per Day (24Hrs)

Oil to be processed: Groundnut, Cottonseed, Soyaben, Rapeseed

Manufacturing Code: ASME/TEMA & Good Engineering Practices

Material of Construction: Stainless Steel of 304/316, CS (IS2062)

Power: 415 Volts, 3ph, 50 Hz

Steam: 8 Bar(g) for Vacuum System

3 Bar (g) for Heating etc.

3 Bar (g) for Sparging

Plant condition: Hermetically Sealed



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## Technical Specifications:

### ❖ Continuous Neutralizing Plant:

- Alfa Short-Mix Plant
  - Lye Tan with 3 HP
  - Hot Water assembly with total 5.5 HP
  - Gum Tank assembly with 7.5 HP
  - Soap Tank assembly with 3 HP
  - Slop Oil assembly with 3 HP
  - Oil Pump with 7.5 HP
  - Separator S1 SRG509 with 7.5 HP
  - Separator S2 SRG509 with 7.5 HP
  - Crude Oil Pump 7.5 HP
  - Hydration Pump with 3 HP
  - Disc Mixer with 1 HP
  - Lye Pump with 1 HP
  - Knife Mixture with 15 HP
  - Degum Pump with 5 HP

### ❖ Continuous Bleaching Section:

- Degummed Oil Tream Heater, MOC SS316
- Bleacher, MOC SS304 with Oil spraying stem, Bleaching Earth Feeding System, Mechanical Agitator Geared Motor, Four Tray System, Top conical Tray, Designed to operate at full vacuum and 140 Deg. C, Diameter of vessel 1200mm x 3500mm Height
- Bleaching Earth Feed Tanks with MOC Mild Steel.
- Vertical Pressure Leaf Filters, MOC Carbon Steel, Filter Leaves in Five layer with MOC SS316L with
  - Filtration Area: 10 Square Meter
  - No. of Filter Leaves: 9 Nos
  - Cake Holding Capacity: 90-110 Kg.
  - Volumetric Capacity: 1.65 Cubic Meter
  - Diameter of Vessel: 1050mm
  - Total Height of Vessel: 2100mm
  - Design Pressure: 8 Bar
  - Operating Pressure: 5 Bar Max.
  - Bottom Butterfly valve: 300mm
- Polishing Filter, 2 Nos. made of Stainless Steel with Filter element of Nylon Felt.
- Cyclone Separator, MOC Carbon Steel.
- Flow Meter for Oil, MOC SS316
- Oil Level Controller for Bleacher Vessel, Field mounted magnetic and electro-



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pneumatic system having high, low and set point, consisting level transmitter, PID, I/P convertor and Frequency Drive, Level transmitter of Rosemount/Techtrol make, PID & E/P Eurotherm make and Frequency Drive of Eurotherm make.

- Temperature Controller for HE on Steam side of Marshal, Radix Pnucon make.
- Pressure Switch for alarm on the oil feed to pressure leaf filter with motor control cabinet.
- Pressure Gauge and Thermometers of HGuru/Waree make and Temperature Indicator Digital with Radix, Fitzer make.
- Bleaching Chemical Proportionating system, with dosing chamber, pneumatic valve, electro magnetic vibrators and dosing glass with Butterfly valve with actuator fo Saunders make, Timer Electronics and Electro-magnetic vibrators.
- Oil Feed Pump, Centrifugal Single Stage with Electric Motor and Flowserf make.
- Oil Slurry Pump, Centrifugal Single Stage with Electric Motor and Flowserf make.
- Vacuum System with Ejector system with Two Ejectros and condensers for maintaining Vacuum in the bleaching vessels, MOC Carbon Steel, make Mazada.
- Oil Trap Tank of 2.5 Cubic Meter capacity
- Motor Control Cabinet, Panel comprising isolator switch, starters fuses, amp. Meter, voltmeter for motors above 5HP, fully wired with flow diagram all accessories of L&T, Siemens, Trafag and Finolex make.
- Manual Valves for Oil, Water, Steam and made from CS and SS materials.
- Complete Pipe, fittings, Elbows Reducers etc. made of CS and SS304 materials.
- Insulation on piping.

❖ Continuous Deodorization Section:

- Deodorization Vessel, made of SS304 materials, consisting of Five Trays with shallow oil bed for efficient deodorization, and also to maintain the optimum Oil to Steam Ration, total residence time will be 75 Minutes.
  - First Tray used as Final Heater using Thermic Fluid.
  - Second, Third & Fourth Trays used for deodorization as well as thermal bleachibility of Oil, the residence time will be more than 45 Minutes.
  - Fifty Tray (Bottom Tray) used as Oil-Oil regeneration Vessel for reducing the Deodorized Oil Temperature by Bleached Oil.
- Vacuum Regenerative Heater, Tube and Shell from SS304 materials construction.
- Vacuum Final Heater, Tube and Shell from SS304 materials construction.
- Scrubbing System:
  - Scrubber Tower to scrube the vapor and also act as collecting tank for fatty distillate.



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- Central Duct System, made from SS316 materials
- Supporting Equipment:
  - Dearation Tank made from SS304 materials.
  - Oil Cooler, Tube-in-Tube heat exchanger for cooling deodorized oil using cold water, construction in ASTM A240 TP 304.
  - Fatty Distillate Cooler, Plate type heat exchanger with plates in SS316, designed for cooling the fatty acid.
  - Regenerative Heater, Tube-in-Tube type heat exchanger with Tube of SS304 materials for heating the bleached oil.
  - Final Oil Cooler, Plate type heat exchanger with plates in SS316 materials for cooling the fatty acid.
  - Polishing Filters, Cartridge type Filter with body in SS304 and filter element in nylon felt for fine filtration of oil.
  - Feed Oil pump, Centrifugal Pump in stainless steel ASTM A240 type SS316 material.
  - Deaerated Oil Pump, Centrifugal Pump in Stainless steel ASTM A240 type SS316 material.
  - Deodorized Oil Pump, Centrifugal Pump in Stainless Steel ASTM A240 type SS316 material.
  - Fatty Acid circulation Pump, Centrifugal Pump in Stainless Steel ASTM A240 type SS316 material.
- Manual Valves for Oil, Water, Steam and made from CS and SS materials.
- Complete Pipe, fittings, Elbos Reducers etc. made of CS and SS304 materials.
- Insulation on piping.
- Four Stage Vacuum System with Ejector system with Two Ejectors and condensers for maintaining Vacuum in the bleaching vessels, MOC Carbon Steel, make Mazada.
- Motor Control Cabinet, Panel comprising isolator switch, starters fuses, amp. Meter, voltmeter for motors above 5HP, fully wired with flow diagram all accessories of L&T, Siemens, Trafag and Finolex make.
- Flow Meter for Oil, Flow Meter for Fatty Acid and Pressure Gauge, Thermometer, Temperature Controllers, Vacuum Indicator, Oil Level Controller for above equipment's.

Total Power Load: approx. 235 HP

Photographs on next page.....



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## Photographs:





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