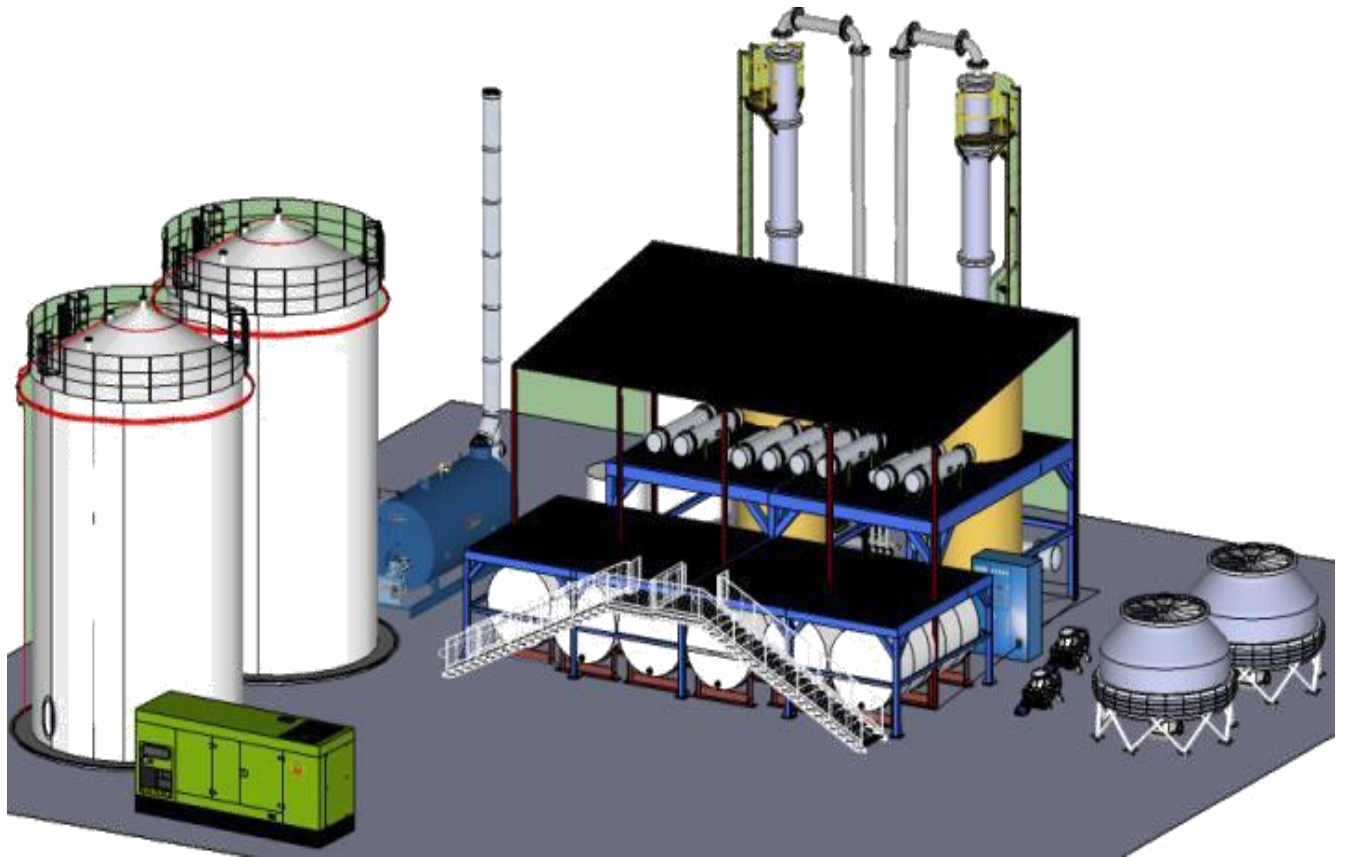




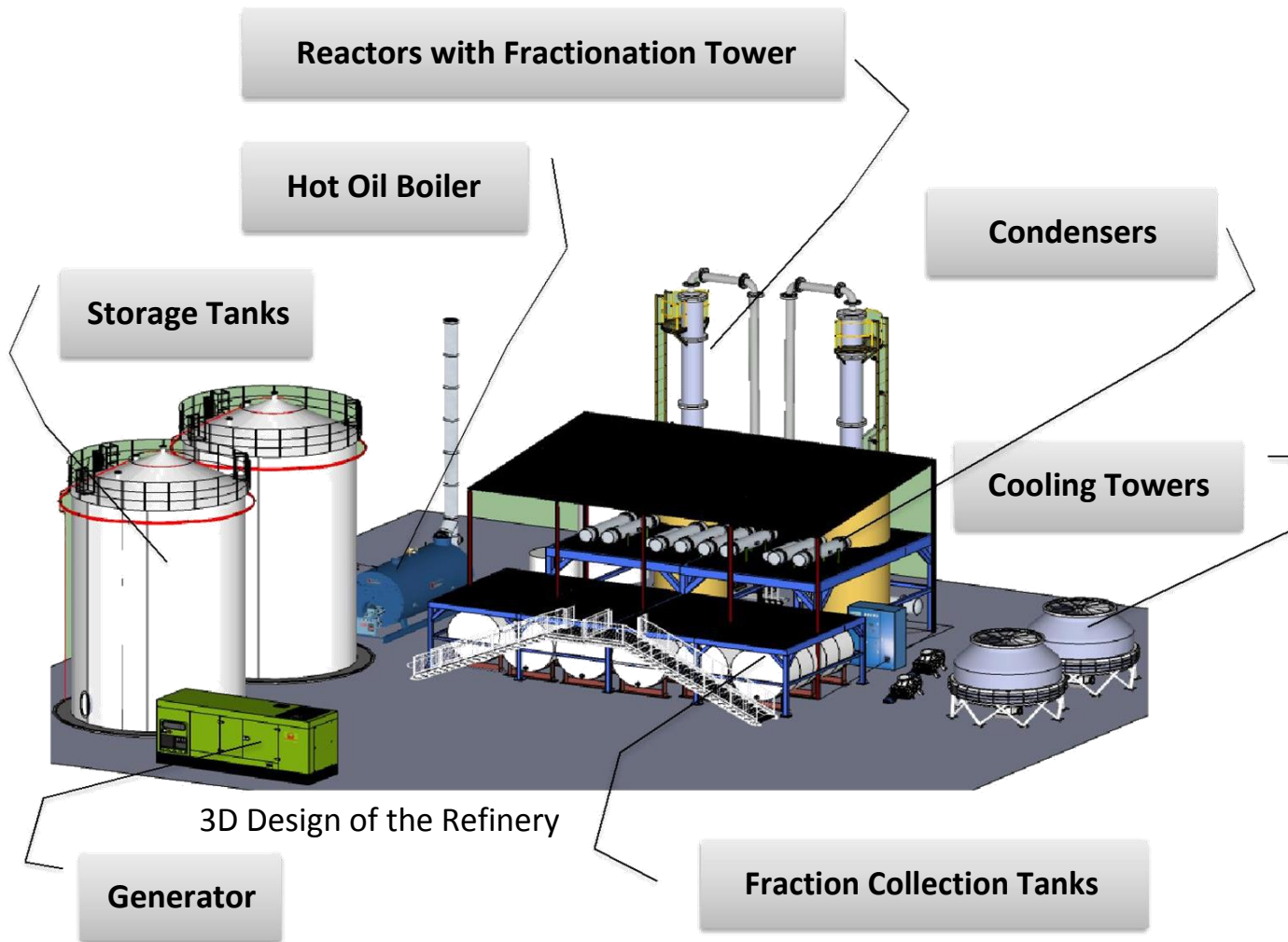
Indian Lube Refinery

Inventory List of Indian Lube Refinery

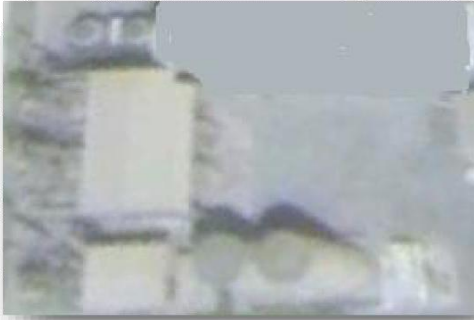
No	Item	Qty	Capacity
1	Reactor (with Fractionation Column, Heating Coils)	2	25 m ³
2	Hot Oil Boiler (Working Temp up to 380 °C using Therminol 66 Heat Transfer Fluid)	1	2,000,000 KCal
3	Hot Oil Circulation Pump (Working Temp up to 450 °C)	3	
4	Vacuum Pump (Liquid Rig and With Booster VFD System)	2	20000 lt
5	Cooling Tower	2	300 TR
6	Cooling Tower Circulation Pump	3	40 HP
7	Condenser small (32 inch X 6 m)	1	
8	Condenser big (36 inch X 6 m)	8	
9	Control Panel	1	
10	Fraction Collection Tank Small	4	15 m ³
11	Fraction Collection Tank Big	2	20 m ³
12	Vertical Storage Tank	1	200 m ³
13	Fire Fighting System	1	
14	Generator Set 500 KVA	1	500 KVA
15	Scrubber	1	



3D Design of the Refinery



Main Units of the Refinery is shown at 3D Design



Picture from Google Earth



Picture of the Refinery

Refinery is mainly consist of two 30 m³ Volume Rector (25 m³ Process volume per batch) having coil heater inside and fractionating tower on top.

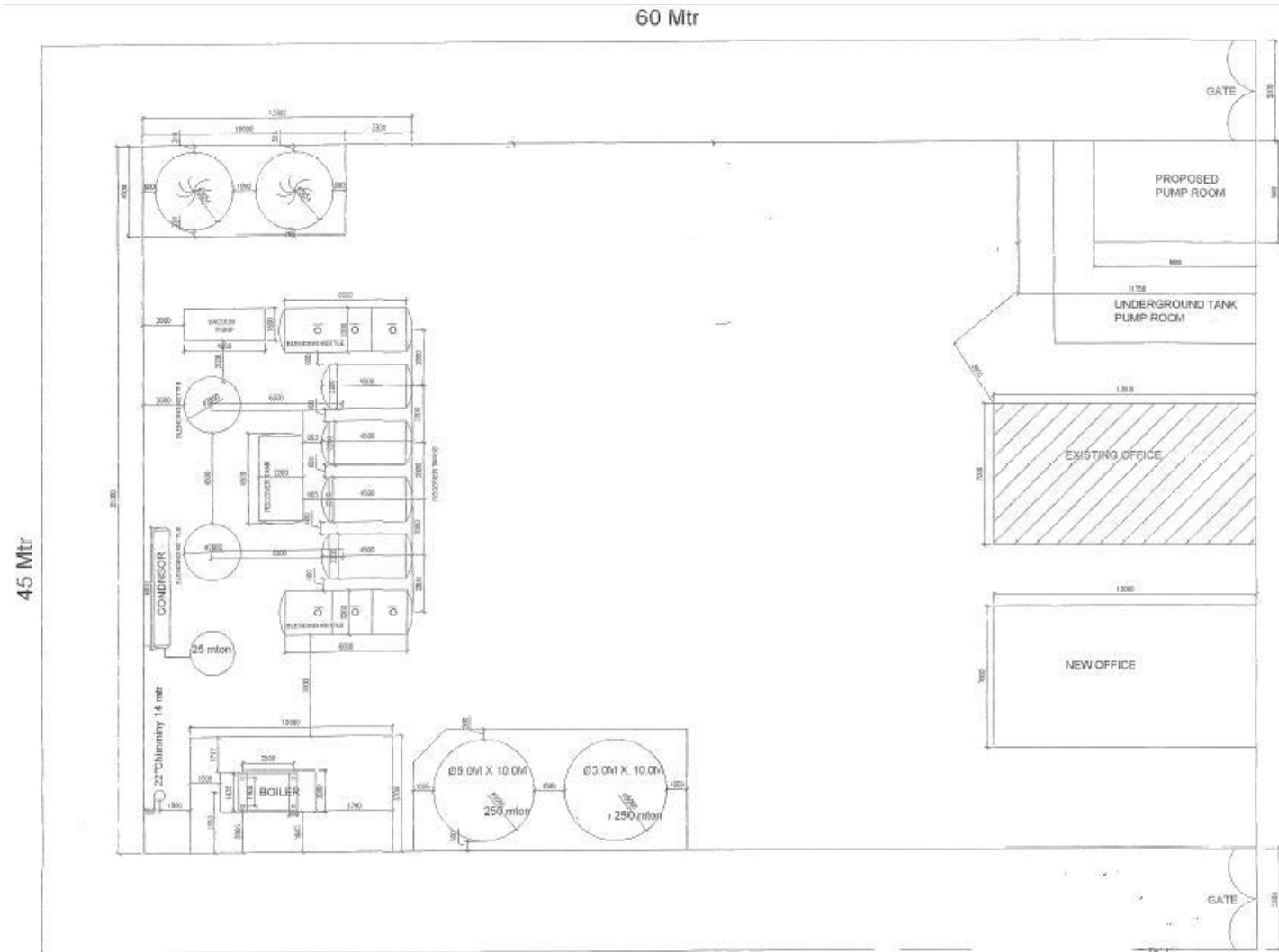
Reactors are connected to **vacuum pumps** so, they can function as **both Atmospheric Distillation and Vacuum Distillation Systems**.

Hot Oil Boiler heats reactors using heat transfer coils.
Operation temperature is 350 °C.

Refinery designed for used lube re-refining however can be used for crude oil distillation as topping refinery.

100 MT/Day Lube refining capacity can be reach for 24hrs/day (two batch).

Plan of The Refinery



Refinery is less than one year old. There is also 500 m³ Storage Tanks (2 X 250 m³ Vertical Steel Storage Tanks) available.

All equipment are working condition .





