CONTRACT



PETROL COMPANY

for General Trading and
Mechanical Industries

2007

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PROJECT BRIEF

- **Project Location:** Iraq / Kurdistan Region / Erbil.

- **Project Contents:** Vacuum Refinery with capacity of 1000 Ton per Day, including the Towers, Fired Heater, Shell & Tube Heat Exchangers, Vessels, Pumps, Piping, Site Instruments with full PLC in control room. All Equipment mounted on the concrete slab.

- **Construction Period:**

- **Owner of the Project:**

- **Contractor:** Petrol Company for General Trading, Production of Liquid Oxidized Asphalt, Lube Oils and Mechanical Industries.
- **General Manager:** Mr. Sherwan Abdullah Hasan.

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VACUUM REFINERY - SPECIFICATIONS

One Unit Vacuum Refinery with capacity 1000 Ton/Day with Asphalt Production Unit, new 2026 (not used), using fuel oil (Flaween) as a feed, (viscosity of 200 - 10,000).

Products: The Vacuum Unit produces (4) types of refinery products as following:

1	2	3	4
Asphalt all Grades Asphalt 40-50 Asphalt 60-70 Asphalt 50-70 Asphalt 70-100	**Heavy Gas Oil**	**Red Oil**	**Black Oil**

Note: The (4) outputs percentages are dependent on the Fuel Oil (Flaween) specs.

VACUUM REFINERY - SPECIFICATIONS

The Refinery Contains the Following Main Equipment:

1. Vacuum Tower (1 No.) : Material is stainless steel.
2. Asphalt Towers (3 Nos.) : Material is ASTM A36 .
3. Vacuum Fired Heater (1 No.) : Material for pipes & fittings are stainless steel.
4. Heat Exchangers (Set) : Material for Shell & Tube are stainless steel.
5. Vessels (Set) : Material is ASTM A36.
6. Steam Boilers (1 Nos.).
7. Hydraulic System (2 Nos.) : Material for Shell is ASTM A 516 Gr. 70 or Equivalents. Material for Tubes are stainless steel.
8. Air-compressor (Set).
9. Cooling Towers (Set).
10. Pumps (Set), including Vacuum Pumps.
11. Piping New work including all pipes, valves, flanges with gaskets and pipe rack.
12. Fire-Fighting System.

VACUUM REFINERY - SPECIFICATIONS

13. Full PLC with filed instruments Electrical Items, Including all Cables, Switches, Panels and Cable Trays , Lighting System.
14. The casting area for the project measures 40 x 40, and the Second Party (the project owner) is responsible for all civil works.