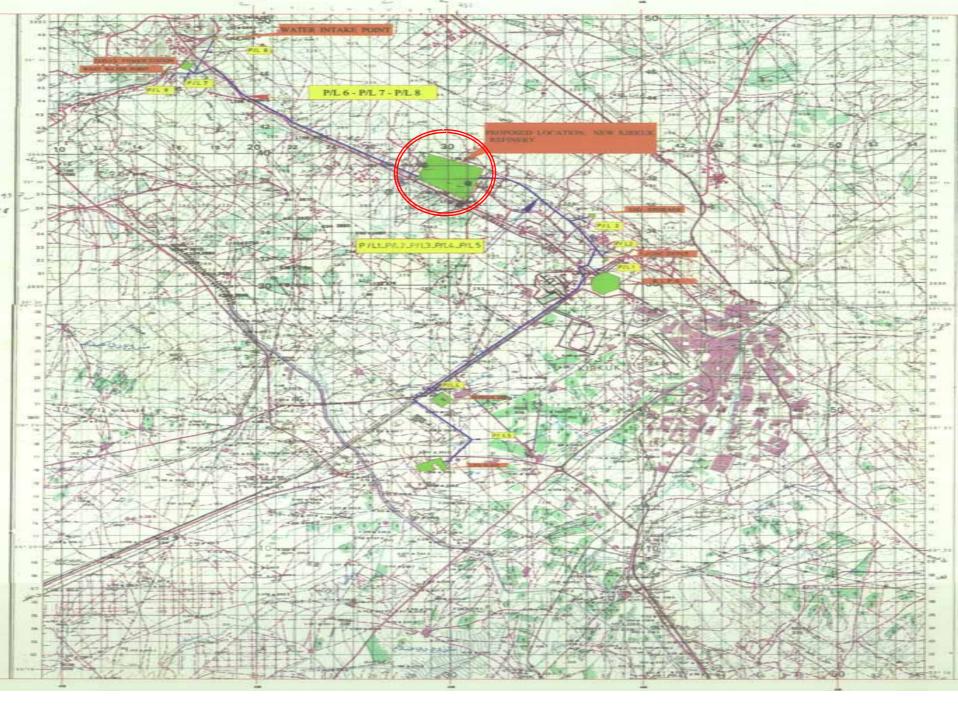


Kirkuk Refinery Capacity 150 000 BPSD





SITE INFORMATION:

- -Kirkuk Refinery is located about (300) KM North Of Baghdad.
- -Area :(2 X 3) Km2
- Coordinate U.T.M.:

N: 3937794

E: 431192

Grass Root Refinery for Domestic & Exporting Including Depot and Pipelines

Refinery Crude:

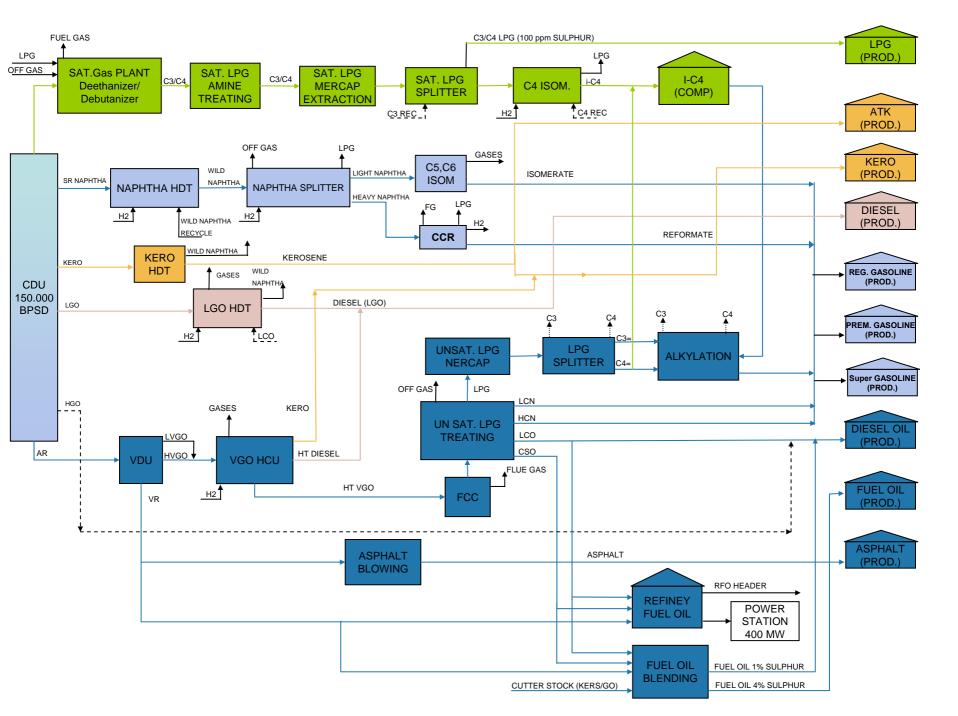
100% Kirkuk Blend crude oil API 34-35 >(Feasibility Study and FEED) Contract of the project has been signed with SHAW Company.

➤ The Project is at the final stage of Feasibility Study Phase.

Front End Engineering Design for open art process units are proceeding.

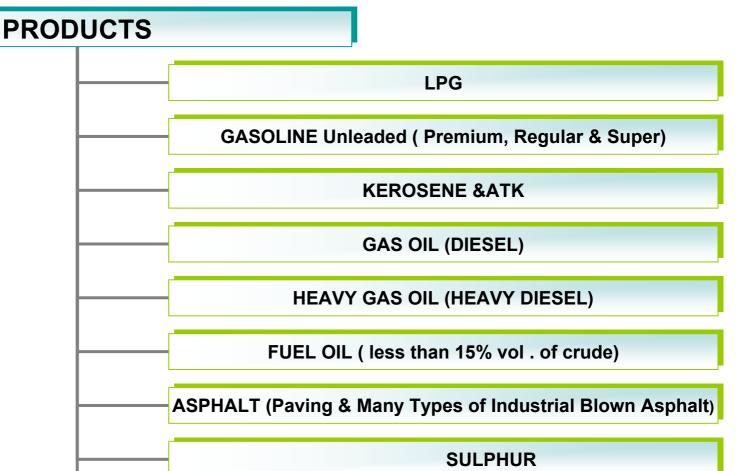
- ➤ It is expected that the FEED activities will be finalized at Q4 2011.
- Pre- Estimated Cost ≈ 5 Billion \$

REFINERY CONFIGURATIONT AS FOLLOW:-



PROCESS UNITS

1- Atmospheric Distillation Unit (150.000 BPSD)	
2-Vacuum Distillation Unit (60,000 BPSD)	
3- Naphtha Hydro-Treating Unit (42,900 BPSD)	
4- Reforming Unit (CCR) (29,600 BPSD)	
5-C5/C6 Isomerisation Unit (13,200 BPSD)	
6-Saturated LPG Treatment Unit (5,000 BPSD)	
7-Kerosene Hydro-Treating Unit (15,700 BPSD)	
8-Gas Oil Hydro-Treating Unit (35,900 BPSD)	
9-VGO Hydro-Cracking Unit (MHC) (36,300 BPSD)	
10-Fluid Catalytic Cracking (FCC) (23,900 BPSD)	
11-Unsaturated LPG Treatment Unit (9,100 BPSD)	
12-C3/C4 Alkylation Unit (9,100 BPSD)	
13-N C4 Isomerisation Unit (3,100 BPSD)	
14-Hydrogen Production Unit (50,000 M3/Hr)	
15-Sulphur Recovery Unit (292 TPSD)	
16- Blown Asphalt Unit (490 TPSD)	



ELECTRICAL POWER ≈ 400 MW

Products Specification will be according to EURO-4 as minimum required. Gasoline, Kerosene &Gas oil with (10 ppm) Sulphur content.

GASOLINE:-

Regular 91-92

Premium 95

Super 98

Benzene Content <1 vol.%

Aromatic 35 vol.%

Olefin 18 vol.%

Expected Product Quantities:

PRODUCTS	Th.M3 /SD
LPG	225 T/SD
GASOLINE	10.250
KEROSENE / ATK	3.450
DIESEL	6.150
HEAVY DIESEL	0.8
FUEL OIL	0.265
ASPHALT	490 T/SD
SULPHUR	292 T/SD
ELECTRICITY	400 MW

