



***Al-Nassiriya Refinery
Capacity 300 000 BPSD***



SITE INFORMATION:

- Al-Nassiriya Refinery is located about (400) KM South Of Baghdad.
- Refinery Area \approx 5.6 Km²
- Coordinates U.T.M. :

N : 3413750

E : 622900

➤ **(Feasibility Study and FEED) Contract of the project has been signed with FOSTER WHEELER Company.**

The Feasibility Study was completed.

➤ **It is expected that the FEED activities will be finalized at Q1 2012.**

➤ **Pre- Estimated Cost \approx 6.83 Billion \$.**

REFINERY CONFIGURATION AS FELLOW :-

PROCESS UNITS

1- Atmospheric Distillation Unit (2x150,000)BPSD

2- Naphtha Hydro Desulphurization Unit (2X35,000) BPSD

3- Catalytic Reforming Unit (CCR) (2X22,500) BPSD

4- Light Naphtha Isomerization Unit (2x19,500) BPSD

5- Kerosene Hydro-Desulphurization Unit (2x12,000) BPSD

6- Light Gas Oil Hydro-Desulphurization (2x52,500) BPSD

7- Vacuum Distillation Unit (2x72,500) BPSD

8- Vacuum Gas Oil Hydro-Desulphurization Unit (54.500) BPSD

9- Vacuum Gas Oil Fluid Catalytic Cracking Unit (FCC) (47,000) BPSD

10- Vacuum Gas Oil Hydrocracking Unit (50,000) BPSD

11- Vacuum Residue H.Oil Unit (2x23500) BPSD

12- Blown Asphalt Production Unit (1000) TPSD

13- C3,C4 Olefins Alkylolation Unit (16,000) BPSD

14- NC4 Isomerization

15- Hydrogen Production Unit (571) TPSD

16- Gas Sweetening Unit

17- Sulphur Recovery Unit (11001) TPSD

18- LPG Production Unit (290) TPSD

Expected Product Quantities :

PRODUCTS	Th.M3 /D
LPG	290 T/D
GASOLINE	17000
KEROSENE /ATK	3.5.000
DIESEL	22.650
HEAVY DIESEL	4.000
FUEL OIL	3.600
ASPHALT	1000T/D
SULPHUR	1120T/D
ELECTRICITY	170 MW

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

LICENSORS OF PROCESS UNITS

PROCESS UNITS	LICENSORS
Naphtha Hydro Desulphurization Unit	UOP
Catalytic Reforming Unit (CCR)	UOP
Light Naphtha Isomerization Unit	UOP
Kerosene Hydro-Desulphurization Unit	AXENS
Light Gas Oil Hydro-Desulphurization	AXENS
Vacuum Gas Oil Hydro-Desulphurization Unit	UOP
Vacuum Gas Oil Fluid Catalytic Cracking Unit (FCC)	UOP
Vacuum Gas Oil Hydrocracking Unit	CHEVERON
Vacuum Residue H.Oil Unit	AXENS
Blown Asphalt Production Unit	PORNER
C3,C4 Olefins Alkylation Unit	DU PONT
NC4 Isomerization Unit	AXENS
Hydrogen Production Unit	KTI TECHNIOMNT
Gas Sweetening Unit	SHELL
Sulphur Recovery Unit	KTI TECHNIOMNT
LPG Production Unit	UOP