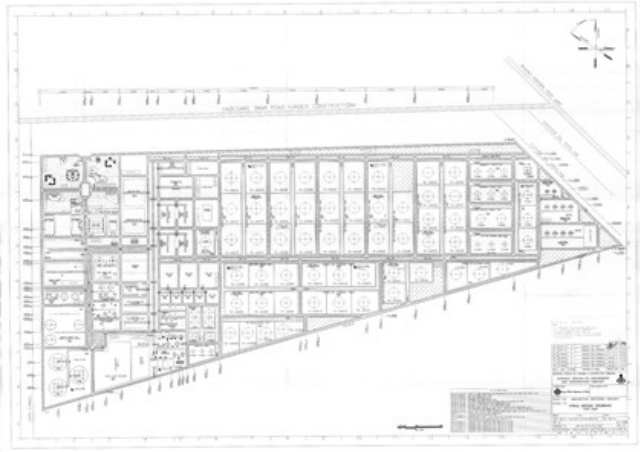
Contact: Michael Grimley
Email: contact@gsa-env.co.uk
Tel: +44 (0) 1652 600250
Website: www.gsa-env.co.uk

Main Units	
Main Units	**Capacity bpd**
Heavy Residue Hydro-conversion Unit	**262000**
Atmospheric Crude Distillation Unit	**310000** (180000 fresh feed plus 130000 HRH Light Product)
Vacuum Distillation Units (2)	**154000** (140000 HRH Heavy Product plus 14000 Atmospheric residue)
Hydrocracker Unit	**65000**
Continuous Catalytic Reformer Unit	**37000**
Gasoil Hydrodesulphurisation Unit	**71000**
Isomerisation Unit	**33000**
LPG Recovery Unit	**26000**
Hydrogen Production Unit	**1445 (t/day)**
Sulphur Recovery Plant	**1200 (t/day)**



National Iranian Oil Engineering and Construction Company (NIOEC), Khuzestan Oil Refinery, Iran

KHORC is has been planning a new extra heavy crude refinery in Khuzestan. The refinery is employing a novel slurry catalyst technology called Heavy Residue Hydroconversion unit (HRH) to upgrade the crude feed oil. The technology has been developed by RIPI, a leading Iranian Research Institute.

Through our support of the project, we carried out the Basic Engineering Design for the following units directly for KHORC:

- Crude & Vacuum Distillation Units
- HP & LP Amine Treater Units
- Naphtha Stabiliser Unit
- LPG Unit
- SOX Removal

With deliverables including:

- Hysys Modelling
- Process Specifications
- HSE Specifications
- Hazop

The BEP provided the basic design for the project and will include project management together with full process, mechanical, electrical and instrumentation, civil and safety designs.

A Class III project programme and cost estimate will be generated along with a full set of procurement documentation. The BEP also includes engineering design for all construction and installation activities that includes both insites and offsites plant facilities and outside. The BEP leads the project into the detailed design and procurement phases.