

ONSHORE FACILITIES DESIGN BY KAVIN

Objective Detailed piping and structural design

Block 51 BAK Processing facility

Process Design verification, Pipe rack Design, Interface piping Pipe stress analysis and Structural design

Kavin Engineering And Services Pvt Ltd (Kavin) has provided the piping and structural design for all projects nearly 50 Packages/Modules and 5 major FPSOs whose detailed engineering were done by kavin. As part of Kavin success story, it got an opportunity to work with Canadian nexan for Block 51 BAK processing facility piping and structural design. Global Process Systems (GPS) carried out other engineering design and Kavin involved in the study of the process systems on Block 51 BAK processing facility and provided the full support on pipe rack design, interconnecting pipes and their structural design.

Piping and structural design were developed in complete compliance with Canadian Nexen specifications

Deliverable →

PSV Sizing calculation
Piping GA
Piping Isometrics
Pipe stress Analysis
Structural Analysis

Customer Profile →

Nexen started in 1971 under the name "Canadian Occidental Petroleum Ltd.", aka CanOxy, and was 80% owned by Occidental Petroleum, a Los Angeles-based oil company. Essentially, it was created to get around rules that hampered American oil companies' operations in Canada.

In the first decade of its existence, CanOxy was fairly Canadian-oriented. During the '80s and '90s they increased their international holdings, first in the Gulf of Mexico, then into places like Yemen. Further Canadian assets were also acquired.

In the 1990s, Nexen, then known as CanOxy, purchased the assets of what once was the first state owned oil and gas company in North America; Wascana Oil and Gas, once known as SaskOil. Founded by Saskatchewan New Democratic Party Premier Allan Blakeney, Saskoil was later privatized by Progressive Conservative Premier Grant Devine. In 2001 the name was changed to Nexen Incorporated in recognition of the fact that Occidental no longer held a significant portion of the company.

Project outlay →

Location : Republic of Yemen
Field : Block 51
Production capacity : 180,000 BFPD
Crude capacity : 35,000 BOPD
Water capacity : 145,000 BWPD

Piperack Length : 2 km
No. of Piperacks : 23 Module pipe rack
: 4 pipe rack
: 12 sleeper racks

Duration : 12 months

