NAMCOR BULK FUEL STORAGE FACILITY – WINDHOEK

2016–(2020)

Location
Windhoek, Namibia

Client
National Petroleum Corporation of Namibia – Namcor

Estimated Cost
220 million NAD

Scope
Main Consultant:
Design and Supervision

Stage
Detailed Design

Area
12,400 m²

This Bulk Fuel Storage Facility is a development of the National Petroleum Corporation of Namibia, NAMCOR, part of their downstream strategy to establish and secure strategically located fuels and lubricant distribution networks, as well as sales infrastructure to boost the company's brand and provide world-class service.

The Windhoek bulk fuel storage facility consultancy services were awarded to the Joint Venture (JV) between A One V Two Namibia (PTY) and Om'Kumoh Consulting Engineers. This JV is responsible for project management, design and construction supervision. The design includes all specialities, such as architecture, structures, mechanics, electricity, process, hydraulics and fire fighting.

The facility is located in the Shali Industrial Area in Brackwater, near Windhoek and it has a gross area of 12,400 m². The bulk oil storage petroleum infrastructures include oil tankers with main bund walls, road and rail loading areas, administration buildings, pump houses, fire water tanks and other small buildings.

The fuel storage park is designed for six 1,000 m³ tanks (two for Diesel and two for ULP95, with the remaining two to be defined in the second phase), three 83 m³ tanks for Dual Purpose Kerosene, and one tank of 25 m³ for customer own collection.

The railway terminal has an implantation area of 1,000 m² with seven off-loading bays, collecting fuel to be stored in fuel tanks.

The road loading and offloading area is designed for four bays (three to be built in the first phase and the remaining on the second phase), plus one point for customer collection service.

The administration building structure has an implantation area of approximately 530 m², which is divided in two substructures, one for services and another for storage and customer service.

OVERVIEW OF THE PROJECT

3D VIEW OF THE RAILWAY TERMINAL AND LOADING AREAS

3D VIEW OF THE FUEL STORAGE PARK