

South Annajma Early Production Facility

Client

RAM Energy, Sudan

Owner

Star Oil Company, Sudan

Scope of Work

Basis of design report
Detailed design
Procurement services

Location

South Annajma, Sudan

Types of Activities

Architectural
Civil works
Communications and security systems
Infrastructural
Instrumentation & control
Mechanical
Process
Piping
Static equipment
Structural

Star Oil Operating Company started processing early crude oil production facility of about 10,000 BOPD from five targeted wells in the recent remarkable discoveries in South Annajma area. This phase was executed on a fast-track mode with an overall duration of 7 months. The project comprised field surface facilities and operation base camp. South Annajma Oil Field is located in the north-east of Keyi Oil Field, approximately 22 km away from Keyi Field Production Facilities (FPF).

The mission of this project was to transfer the crude oil from five wellheads within South Annajma Oil Field to an Early Production Facility (EPF) for removal of bulk water as well as further treatment to meet export specifications

of maximum 0.5% BS&W and then export 10,000 BOPD approximately via 43 km export pipeline to the existing light crude shipping tanks at Fula CPF of Petro-Energy Operating Company (Block 6). The combined oil sales of (Star Oil Company and Petro-Energy L/C) is transferred via the Light Crude pipeline connected to the GNPOC pipeline.

South Annajma FSFs comprises Oil wellhead facilities for the 5 wellheads covering piping assembly, sand traps, pig launchers, chemical injection system, on-site electrical work including: outdoor lighting and electrical heat tracing for above-ground piping, earthing, cathodic protection and all the tie-in works to electrical substation





(supplied and installed by others), instrumentation and telecommunication system inclusive of fiber optic cables connecting wellheads to the main plant control room, related civil works. FSF works also included 5 flow lines of 6" diameter, insulated and underground of total length of around 8 km.

The Operation Base Camp is designed and constructed taking into account all factors of safety, functionality, maintainability and to provide a satisfactory comfort level while complying with relevant international codes and practices and Sudan government regulations.

The operation base camp comprises fully furnished accommodation rooms for 60 persons; fully furnished administration offices; fully furnished Mosque and ablution area for 100 persons; fully equipped and furnished laundry building; fully equipped and furnished Restaurant Building including kitchen & dining for 100 persons; equipped internal recreational building & outdoor Futsal ground; clinic; potable and utility water supply system; electrical substation; emergency generator; concrete walkways; satellite TV system; computer system with Local Area Network system (LAN); Safety and Information sign boards; fire alarm and fire protection systems; internal gravel and concrete road; perimeter and area lighting; car parking area; fuel station; workshop; warehouse; perimeter fence including main and emergency gates; observation towers; guard room and general material stockyard.