

MARLIM LESTE OIL FIELD P-53

OUR CLIENT KEPPEL SHIPYARD Ltd
 OPERATORS CHARTER DEVELOPMENT LIMITED

**DESCRIPTION OF THE PROJECT**

Marlim Leste field is located in Campos Basin, 120 km off the coast of the State of Rio de Janeiro, Brazil, in water depths around 1080m.

The FPU is a conversion of the 322,446 dwt tanker VLCC Set-tebello. The world's largest turret ever fabricated is installed onboard this ship.

The FPU will be able to process up to 180,000 b/d at peak loads.

THE PROJECT TEAM

Keppel Shipyard Ltd has entered into an agreement with Charter Development Limited Liability Company (CDC), a special purpose company of ABN Amro Bank's Brazilian unit, for the conversion of the vessel.

The facility will be towed to a CDC topside contractor yard in Brazil for installation and integration of the topside modules.

Petrobras SA will then charter the P-53 from CDC for the Marlim Leste field in the Campos Basin.

The project team, run by consulting company Projemar is situated both in Singapore and in Rio de Janeiro.

Novenco that are subcontracting all VAC (Ventilation & Air Conditioning) work for the modules No1 – Hull, No2 – Accommodation, No3 – Office module, have their project team situated in Oslo, Norway.

CHALLENGES

The main challenges for the Novenco project team have been to coordinate the design work with the two design teams in Singapore and in Rio de Janeiro, with the sits in Europe, Asia and South America.

ADVANTAGES

With such an all over the world situation, Novenco have big advantages in having personnel situated in Singapore and a good contact network in Rio de Janeiro.

Based on Novenco's broad experience with the North Sea Offshore work, has this experience done that the Offshore world outside Norway have a confidence in Novenco, which have made us to the VAC supplier for the following Petrobras projects: P19, P31, P33 P37, P43, P48, P50, P51, P53 & P54.

SCOPE OF WORK

Novenco's Scope of Work was design review and delivery of all VAC equipment, according to the specifications.

SCOPE OF SUPPLY:

MODULES No1, No2 & No3

- 14 off Air Handling units
- 60 off Centrifugal and Axial fans
- 91 off Ceiling Fan coils
- 71 off Drop Separators, Air Filter Boxes & Outlet Louvres
- 03 off Sound Attenuators
- 03 off Chiller plants
- 03 off Chiller Local Control panels
- 03 off Chiller pumps
- 33 off Tightness Dampers
- 01 off Modulating Damper
- 85 off Fire Dampers
- 66 off Non Return Dampers
- 95 off Regulating Dampers
- 26 off Damper Control panels
- 450 off Extract & Supply Grilles
- 140 off Diffusers
- 07 off Temperature indicator transmitters for water
- 09 off Flow indicator transmitters for water
- 13 off Pressure indicator transmitters for water
- 01 off Level transmitter for water
- 49 off Air flow switches
- 17 off Modulating control valves
- 01 off Self acting pressure relief by-pass valve
- 03 off Shut-off valves
- 14 off Temperature indicator transmitters for air
- 15 off Temperature indicators for chilled water
- 99 off Pressure indicators for chilled water

