

OUR CLIENT ZAO Sevmorneftegas
OPERATORS



DESCRIPTION OF THE PROJECT

The Prirazlomnoye oilfield is located south of Novaya Zemla in northern Russia on the Pechora sea shelf, at a distance of 60km from the shore. The water depth in this area is 19m to 20m. The field contains an estimated 83 million tons of oil. The maximum oil production is expected to be 6,4 million tons per annum.

This Offshore fixed gravity platform, the first construction of its kind in Russia, will be equipped with a temporary oil storage tank with a storage volume of app. 136 000 m³. The oil will be brought onshore by special ice-breaker vessels.

CHALLENGE

This area is characterised by extremely low temperatures and strong ice loads. The sea is frozen from October to May and Ice thickness can be up to 1.7m. The annual average temperature is -4°C and the temperature minimum is -50°C. Wind strengths reach up to 40m/s and wave heights up to 12m.

The platform life time is estimated to 25 years and equipment must be of very high quality, reliable and durable. Special focus is placed on easy maintenance.

The equipment engineering is designed together with two Russian design institutes, Rubin and Corall. All equipment must meet the requirements of the Russian norms and standards. Almost all documentation must be completed in two languages.

SOLUTION

For the project Novenco has designed and manufactured over 120 centrifugal and axial fans. The equipment is designed to withstand the extreme environmental conditions. Because of many special demands to the working characteristics and production condition, all fans have been specially designed and manufactured.

Delivery of equipment is October-November 2006

TEST OF WORKING PARAMETERS

All units have been fully performance tested at Novenco factory prior being shipped for installation on the platform. Equipment installation is being done on the factory "PO Sevmash" in Severodvinsk, Russia. Estimated platform building completion is 2007.

SCOPE OF SUPPLY FOR RUBIN:

74 OFF CENTRIFUGAL FANS

Fans suitable for both non hazardous and zone 1 area

Motor class Eeexd IIB T3, insulation class F

Fans range from the smallest CNA-250, 1000 m³/h to 1600 diameter special design capable of delivering 100,000 m³/h

10 OFF AXIAL FLOW FANS

Motor class Eeexd IIB T3, insulation class F

Fans type ACN, up to diameter 630, delivering 20000 m³/h

SCOPE OF SUPPLY FOR CORALL:

40 CENTRIFUGAL FANS

Fans suitable for zone 1 areas.

Motor class Eeexd IIB T3, insulation class F

Fans range from the smallest CND-315, 1500m³/h to CAL-1250 capable of delivering 70,000 m³/h

10 AXIAL FLOW FANS

Motor class Eeexd IIB T3, insulation class F

Fans type ACN, up to diameter 630, delivering 20.000m³/h

1 OFF PORTABLE FAN

Direct driven fan with control panel, mounted on special carrying frame for easy movement

