Icebreaking Offshore Supply Vessel

NB 511 FOR SOVCOMFLOT

ARCTECH HELSINKI SHIPYARD is building an icebreaking supply vessel for Sovcomflot, the largest shipping company in Russia. The new vessel will be built for the North East Sakhalin Offshore region oil and gas field where she will be used for platform supply tasks for Sakhalin Energy Investment Company Ltd. Delivery of the vessel will be in 2016.

The vessel brings together the very latest innovations in arctic shipbuilding science and technology. It is a further developed version of the two multifunctional icebreaking supply vessels Vitus Bering and Aleksey Chirikov delivered for Sovcomflot in 2012 and 2013. The new icebreaking offshore vessel measures 100 m in length and 21 m in breadth. Configuration of the engines is very flexible, including six main diesel generator sets with the total power of about 21 000 kW and the propulsion power of 13 000 kW. A high dynamic positioning class allows the vessel to redundantly maintain its position and heading. The vessel has many environmentally friendly features. The vessel will fulfil the international IMO Tier III emission standards, and it has minimal SOx emissions due to the use of low sulphur fuel oil. Additionally, all environmentally hazardous liquids are segregated from the vessel's hull.

The design of the vessel meets the requirements for the extreme environmental conditions in the Sakhalin area. The main duty of the vessel is to transfer supplies between land bases and the offshore drilling and production sites. The vessel will be able to safely convey and transfer cargo on deck and bulk cargo underdeck in all

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seasons. The vessel will also be capable of operating in thick drifting ice for ice management and icebreaking duties in temperatures as cold as minus 35°C. The icebreaking capability of the offshore supply vessel is extremely high; the vessel is able to proceed independently in 1.7 meter thick ice. The vessel will be outfitted for emergency evacuation, rescue and fire fighting operations, oil spill response and platform overboard working and helicopter operations. Accommodation spaces will be built for 28 crew members, 42 passengers and 150 evacuees. The vessel can also act as a diving support vessel, including a moon pool feature, and it has an offshore crane with active heave compensation.

TECHNICAL SPECIFICATIONS

Length	100 m
Breadth maximum	21 m
Draught, at design waterline	7.6 m
Deadweight	3000 t
Installed power	21 MW
Propulsion power	13 MW
Speed	16 knots
Speed at 1.5 m level ice	3 knots
Crew	28 + 42
Range	60 days
Flag	Russia

ARCTECH HELSINKI SHIPYARD INC. specializes in Arctic shipbuilding technology and building of special vessels for demanding conditions and routes. The shipyard is a forerunner in developing and applying technological innovations and has 150 years' experience in shipbuilding. Arctech employs approximately 600 shipbuilders. www.arctech.fi

SOVCOMFLOT GROUP (SCF) is a major Russian shipping company; one of the world's leaders in hydrocarbons transportation, seismic and geological surveys and offshore production servicing. The company owns and charters a fleet of 157 vessels (with total 12.74 million ton DWT) specialising in transportation of hydrocarbons from areas with harsh ice conditions. Over fifty vessels are ice-class ships. Sovcomflot has been engaged in the maintenance of major power projects in Russia and abroad, including Sakhalin-1, Sakhalin-2, Prirazlomnoye, Varandey, Tangguh, Escobar, Peregrino. Sovcomflot HQ is located in St. Petersburg with branches in Moscow, Novorossiysk, Murmansk, Vladivostok, Yuzhno-Sakhalinsk, London, Limassol, Madrid, Singapore and Dubai. Six SCF vessels are currently engaged in the Sakhalin-2 project: three Aframax crude oil tankers (transportation of the crude oil from Prigorodnoye Port), two LNG carriers (joint venture with NYK) and one multi-task ice breaking supply vessel. www.sovcomflot.ru