



An auxiliary fleet plays a significant role in nonstop service-and-supply support of armed ships what is an obligate condition for successful completion of objectives the Russian Navy faced. Application of normative base of the Russian Maritime Register of Shipping gives an opportunity to design, construct, repair and reequip the auxiliary vessels for the Navy in the light of latest research of the world shipbuilding.

As a leading classification society accumulated all modern scientific advances, longstanding practice of maintaining of projects' construction and exploitation as well as a whole international experience on working out of technical requirements for marine vessels and installations, Russian Maritime Register of Shipping (RMRS) cooperates with a wide range of marine industry enterprises to fulfill the orders of the Ministry of Defense of the Russian Federation. Nowadays more than 20 vessels of different class and purpose are built for the Navy in accordance with the RMRS; most of them are designed by reference to specific features of exploitation in the ice conditions.

In April 2015 OJSC "Admiralty Shipyards" under the RMRS control began to construct the unique icebreaker «Ilja Muromets» (project 21180) which combines the capabilities of icebreaker, tug and patrol ship. Such flexibility means carrying out a wide range of missions in Arctic and Far East such as salvage operations, cargo delivery, engineering and loading-unloading works. Due to the ice class Icebreaker6 the vessel is able to move in the ice thickness up to 1m. Its endurance will reach 60 days, range capability - 12000 miles. The icebreaker will be equipped with azimuth thrusters type "Azipod" capacity 3,5

MW each of them.

Along with a better maneuvering ability compared to the common propulsion units such engineering solution consumes smaller space of the engine room therefore increasing the cargo capacity and volume inside the vessel creating more comfortable living conditions for the crew.

At the LLC "Nevsky Shipyard" a medium sea tanker "Academic Pasliin" (project 23130) is under construction. The tanker will deliver diesel fuel as well as aviation kerosene. The process of tankage from board on board can take place in nonstop regime. Herewith the special systems let perform the fueling up of 3 vessels simultaneously in a seaway. Besides the tanker has a load platform for transferring dry goods using a helicopter.

Small sea tanker (project 03182) is planned to be constructed on the capacities of OJSC "Vostochnaya verf" till the end of 2017. Along with the Navy ships' fueling the tanker will execute the functions of supply

agent: acceptance, storage, transporting and transfer of liquid cargoes, delivery of different dry goods as well as collection of bilge, waste water, dry garbage and food waste.

OJSC "Almaz Shipbuilding Company" constructs a series of marine self-moving crane ships (project 02690) for loading hazardous and conventional cargoes on the surface vessels, submarines, close-fitting of chains for binding berthing floats, installation and detaching of mooring equipment. Two vessels have already been delivered to the customer. Seven units are on the building berths on the different stages of construction. Construct completion is expected to happen in the end of 2016.

Two vessels of service support type "Elbrus" (project 23120) are under construction by the shipyard "Severnaya Verf". The vessels are intended for transportation and delivery of dry goods to the shore and on the different ships as well as for the tug support and rescue operations. There is envisaged a possibility to accommodate up to 50 salvaged people. The vessels are expected to be delivered to the customer up to April, 2017.

Проект 23120 «Эльбрус»



Проект 23130 «Академик Пашин»

A big contribution in the renewal of technical fleet is made by Leningrad Shipyard "Pella". Till the end of 2015 there will be constructed 4 tugs (project PS-45) destined for sea towing of vessels, floating structures in ice and ice-free waters, provision of marine objects with equipment and materials, delivery of special personnel and goods. The vessels are able to maintain search-and-rescue operations in the shipping area, oil- and gas-fields. At the same time there will be ended a construction of escort tug (project PE-65). Great seagoing performance, maneuvering abilities, stability and technical equipment let the vessel escorting, towing and docking of heavy-tonnage vessels with deadweight more than 100.000 t. Under the dynamic construction there are as well the tugs of projects 16609/2 and 90600 (harbor tug) which are intended for towing and docking operations in harbors and coastal area, heaving-off, oil spill response, fire extinguishing on the floating crafts and shore installations. Maneuvering ability and high automation rate provide the driving ease of these vessels, comfortable arrangement for personnel - to work and rest.

Applying the normative base and experience of technical surveying by the RMRS gives a possibility to design, construct, repair and reequip the auxiliary vessels for military fleet in the light of latest modern research, requirements of international conventions on security of seagoing and environmental protection, facilitate the growth of quality of production delivered in the interests of the Russian Navy.



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FOR THE RUSSIAN NAVY

Auxiliary fleet plays a key role in the failure-free service and supply of warships being a pre-condition for successful addressing the tasks being faced by the Russian Navy. Implementation of the normative base of Russian Maritime Register of Shipping enables to design, construct, repair and convert the auxiliary ships for the navy taking into consideration the forefront achievements of the world shipbuilding. Nowadays, over 20 ships of different types and purposes are constructed to the RS class for the Russian Navy. Most of the ships are designed with due regard to the operation in ice conditions. In April 2015, the JSC Admiralteiskie Verfi shipyard under the RS survey commenced the construction of a unique icebreaker Ilya Muromets, project 21180, which combines the functions of an icebreaker, a tug boat and a patrol ship. Such functionality will allow the ship to perform a wide range of tasks in the Arctic and at the Far East. An intermediate sea tanker AkademikPashin, project 23130, is under construction at the JSC Nevsky Shipyard. The ship will be capable of simultaneous fuelling of three ships under way. A small sea tanker, project 03182, is scheduled for construction by the end of 2017 at the premises of the JSC Vostochnaya Verf shipyard (Vladivostok). Besides fuelling of the Navy ships, the ship will be capable of operating as a supply ship. A series of marine self-propelled floating cranes, project 02690, is under construction at the JSC Shipbuilding Company. Two ships have been already delivered to the customer, seven of them - to a different degree of completion - are being constructed on the building berths of the shipyard. Their construction is planned to be completed by the end of 2016. By April 2017, two combat logistics ships of Elbrus type, project 23120, will be constructed at the Severnaya Verf yard. Auxiliary ships of four projects intended for solving different tasks are under construction at the Leningrad PELLA Shipyard.