



APPROVED

Managing Director for Production  
of Batumi Sea Port Ltd

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## TECHNICAL SPECIFICATION FOR PURCHASING OF TUGBOAT

**Customer:** Batumi Sea Port Ltd

**Work characteristics:** delivery of a new marine tugboat:

**Name and type of object:** marine tugboat, with engine power from 3,500 to 5,135 hp.

**Requirements for a potential supplier (for the tender documentation):**

The provided technical documentation should contain the following information:

- Complete information on the main and auxiliary mechanisms and equipment;
- Sizes and dimensions of the vessel;
- Basic classification functions;
- Tank capacities (tanks and cisterns):  
(Fuel reserves - not less than 120 cubic meters excluding consumable tanks, Fresh water reserves - not less than 70 cubic meters);
- Bollard pull for ahead and astern;
- Main engines brand and technical data;
- Thruster technical data;
- General Arrangement with indication of vessel's equipment, fire-fighting equipment that corresponding to class of fire-fighting tugboat;
- Brands and technical data of auxiliary equipment (diesel generators, pumps, etc.), deck machinery & equipment (anchor, mooring and anchoring device, tow windlasses), radar and radio navigation equipment;
- Availability on the vessel of a set of spare parts for routine maintenance of the main mechanisms and equipment;
- Availability on the vessel of set of necessary emergency equipment;
- Conducting sea trials (as well as, if necessary, other types of tests) in the presence of the Customer's representative;
- Familiarization with the vessel's equipment and practical training of the Customer's crew for at least 5 (five) days upon delivery of the vessel to the port of Batumi;
- To provide all technical and vessel's general documentation in English and Russian languages;
- Compliance of the vessel with environmental safety requirements (with indication of the assigned class of the vessel in the symbol) «International Oil Pollution Prevention Certificate», «Prevention of environmental pollution by garbage», «International certificates of antifouling system»;
- To provide information on the experience and quantity of construction and delivery of similar vessels over the last 5 (five) years of labor activity;
- To provide information about the origin of the tugboat (the shipyard, the authorized dealer or partner who acts on behalf of the manufacturer, etc.).

**Delivery time:** 12 (twelve) months;

**Warranty period:** 12 (twelve) months from the date of signing the relevant documents on the commissioning and acceptance of the vessel.

**Delivery terms:** Delivery to port of Batumi.

**Designation:** To carry out towing and berthing operations when mooring vessels, including oil tankers, to oil terminals. Towing of floating means at sea. Extinguishing fires on other vessels and berths by means of monitors (carriages).





**Minimum requirements for the finished product (vessel), basic technical data and characteristics:**

- Class of the vessel: KM (Nippon Kaiji Kyokai (or BV), unrestricted sailing) FF1WS;
- L.O.A: upto 28 m;
- Draft: upto 5 m;
- Main Engines: Two Diesel Engines, total engine power from 3500 hp to 5 135 hp.;
- Thruster: 2 units Azimuth thruster with Nozzle;
- Generators: 2 units x at least 100 kW;
- Bollard pull: Astern – at least 40 t, Ahead – at least 45 t.

**Radio navigation and radar equipment, communications systems, navigation systems::**

- Navigation area is to meet the A1 requirements;
- Magnetic compass;
- Gyro compass;
- Stationary VHF radio stations with 25 W signal supply system DISTRESS (two sets);
- Portable explosion-proof, floating VHF radios with 5 W VHF band (two sets);
- GPS –global positioning system (one set);
- SART radar responder;
- EPIRB emergency radio buoy;
- NAVTEX international automated notification system;
- AIS - automatic identification system of Class A with a monitor;
- Echo sounder;
- BNWAS - system of monitoring the legal capacity of the watch officer;
- RADAR - visibility range of at least 35 nautical miles;
- Loudspeaker broadcast equipment (Vessel-Shore, Bridge – Engine Room, inside of the vessel);
- Mast collapsible type fitted with lightning rods;
- ECDIS electronic cartographic and information device.

**Life Saving Equipment:**

- Life raft SOLAS SOFT A PACK for 100 % of persons number on the vessel;
- Life buoys not less 2 pcs. (1 pc. – with a glowing buoy, 1 pc. – with 30 meters of line);
- Equipped Life Jakets (with light bulbs with batteries and whistles) for 100 % persons number on the vessel;
- Thermal protective suit (two sets);
- Fighter's suit (two sets);
- Immersion suit (two sets);
- Line throwing machine;
- EEBD – breathing apparatus for emergency exit from the engine room;
- Pyrotechnics (two red parachute flares, two false flares, two smoke bombs);

**Fire Fighting Equipment:**

- Powder or carbon dioxide fire extinguishers - at least 6 pieces;
- Fire hydrants with plugs (one on each side of board, at the stern and at the bow);
- Fire boxes with fire hoses (hoses) of at least 25 meters and with combined fire barrels (one on each side of the board, at the stern and in the engine room);
- Emergency exit from the engine room;
- Fire-fighting canvas;
- Portable emergency fire pump;
- Stationary aerosol fire protection system in the engine room.

**Vessel's Lighting:**

- in fore and aft- LED floodlights from 700 to 1000 W waterproof (AP 65) with mirror reflection and remote control;
- outdoor lighting, three LED lights with 30 W each on the board sides and one LED light with 30 W each on the stern and bow, waterproof (AP 65).

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**Alarm and Video Surveillance System:**

- Video surveillance cameras CCTV with recorder (on bow, aft, engine room and navigation) ;
- Emergency fire protection system (in residential and office premises).

**Mooring, Anchoring and Towing Devices:**

- Anchor windlass - with 15 t towing force, brake – 100 t brake holding, hydraulic bow windlass with polypropylene rope with diameter Ø72 mm, length 220 m, and a stern steel cable with a length of 500 m., and diameter that corresponds to bollard pull;
- Towing hook SWL 50 t, with quick mechanical release system.

**Accommodation Crew Cabin:**

- Two-men's cabin for crewmembers– 4 nrs. ;
- Separate cabins for the Master and Chief Engineer;
- Galley is to be equipped with modern household galley equipment;
- Mess room is to be equipped with TV-set and computer equipment;
- Stationary or household air conditioners to provide all indoor living spaces;
- Household washing machine;
- Equipped bathroom (shower, toilet).

The vessel is to comply with the requirements of a member of the International Association of Classification Societies (IACS) recognized by the classification society and International Convention for the Safety of Human Life at Sea (SOLAS).

The tugboat is to have all certificates and documentation authorizing the vessel to carry out maritime practice. The supplier is to provide a complete set of technical documentation for all components and mechanisms, as well as all drawings and instructions in 2 (two) copies in Russian and English.

**Executed:**

Technical Superintendent of Port Fleet  
Department

Position

/...../  
Signature

B.O.Putkaradze  
Name, Surname

**Agreed:**

Acting Operational Director

Position

/...../  
Signature

T.D. Diasamidze  
Name, Surname

Managing Director for Commerce

Position

/...../  
Signature

B. A. Bitabarov  
Name, Surname

Coordinator for Purchases and Contracts

Position

/...../  
Signature

N.A. Abashidze  
Name, Surname

Head of Port Fleet Department

Position

/...../  
Signature

R. T. Pagava  
Name, Surname

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