



SBSR-FLEET
manufacturing and delivery of ships



**PERSPECTIVES OF HOVERCRAFTS
IN INDIAN INLAND WATERWAYS**

PRODUCTION FACILITIES LLC «SHIP BUILDING SHIP REPAIR»

Industrial manufacturing company.

Company provides design, manufacture and delivery of marine equipment, design and building of vessels, as well as service, warranty and post warranty maintenance.

Internal cooperation:

LLC «SHIP BUILDING SHIP REPAIR» – production site

LLC «DESIGN BUREAU SHIP BUILDING SHIP REPAIR» – 16 designers

LLC «SBSR – FLEET» – building and supply of ships

Production areas of LLC «SHIP BUILDING SHIP REPAIR» - 7235 m²

Administrative areas of LLC «SHIP BUILDING SHIP REPAIR» - 420 m²

Areas occupied by LLC «Design Bureau «SHIP BUILDING SHIP REPAIR» - 637 m²

Total area - 8292 m²

Test benches:

For cargo-handling mechanisms, davits and console cranes 3000 kN.m

For bridge ship`s cranes l/c up to 6 tons, side and stern doors

For deck and hatch covers

For pumps and tanks

For ladders of length up to 15 m





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ABOUT US

LLC «Ship Building Ship Repair-Fleet» is specialized in development and production of hovercrafts.

Production is located in Nizhny Novgorod. The total production area is 8292 m².

In company work more than 100 highly qualified people, they provide design and production of crafts at high level. Experience of some employees in designing and engineering of hovercrafts is more than 20 years

Our company offers complex engineering solutions in shipbuilding, which are convenient to implement in practice and making navigation on the rivers available for you at any time of year.



scientific partners





HOVERCRAFT - YEAR-ROUND TRANSPORT OF CROSS-COUNTRY CAPACITY



Shallow waters



Rough terrain



Ice and ice reefs



Marshy land



Shores without infrastructure



Current assumptions for fast development of the navigation on Indian Inland Waterways

India's water transport infrastructure and river navigation are not well developed yet.

Main problems:

1. Overpopulation. High traffic density

There are 416 people per square km in India

2. Low road density and its poor quality

There is 34 km of road per 100 square km territory

Thus, there is a great need for alternative types of transport.

The potential of 16 thousand km of Inland Waterways must be effectively used as a good alternative to current ways of transportation.





ADVANTAGES OF OUR HOVERCRAFTS

- Travel of range up to 750 km;
- Metal propeller in basic design;
- Propulsion/steering system with anti-ice system;
- Running backward;
- Metal casing provides strength, and light wheelhouse of fiberglass – high thermal and sound insulation;
- High reparability and easy maintenance;
- Low noise level;
- Towed transportation on roads without approval with State Road Traffic Safety Inspection;
- Service program from company;
- Ship drivers training;
- Warranty 2 years.

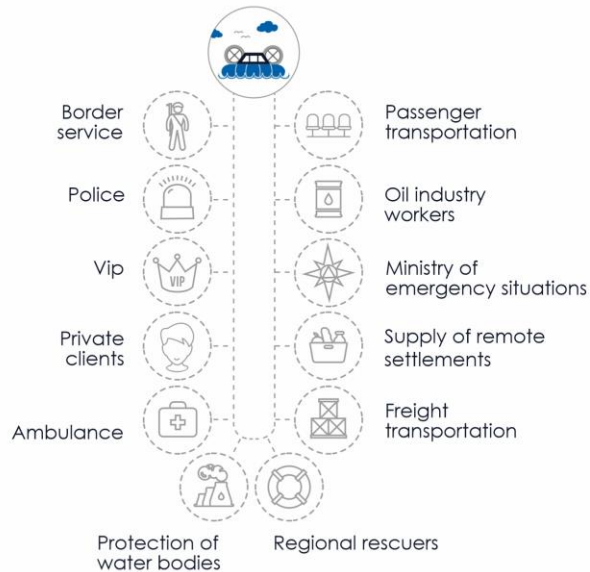
Warranty:

- Hull and wheelhouse: 2 years
- Flexible enclosure: 300 moto-hours / 6 months (whichever is earlier)
- Engine: 1 year / 1000 moto-hours (whichever is earlier)
- Other gears and systems: 1 year/ 500 moto-hours (whichever is earlier)

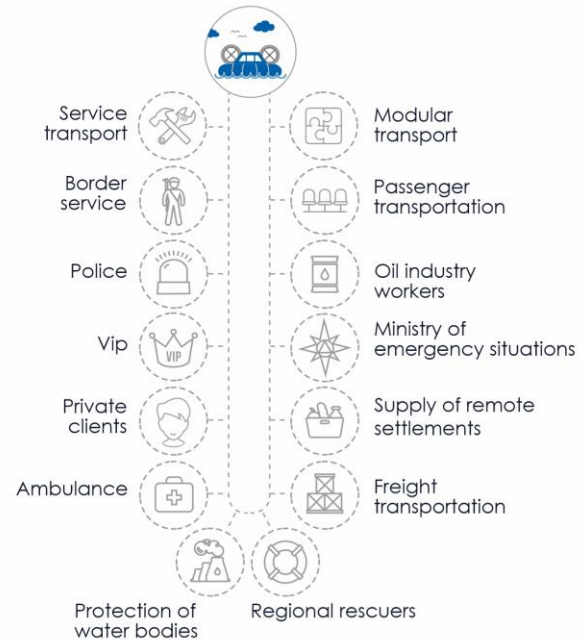


HOVERCRAFTS APPLICATION

HYDROAIR - 10



HYDROAIR - 20/25

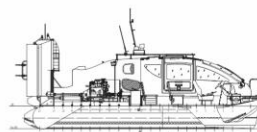




HYDROAIR-10

Hovercraft HYDROAIR-10 is designed for comfortable operation over water, overgrown shallow waters, sand banks, snow and any other relatively flat surface, including loose snow, along rivers during ice drift and freeze-up

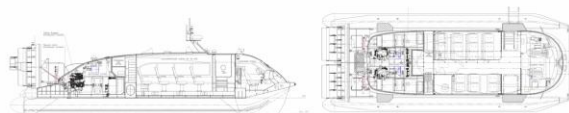
Craft has a high maneuverability and can be used to supply remote settlements, for passenger and freight transportation, protection of water bodies, as well as transport of security and defense authorities. At the present moment the priority is given to the aluminum type of wheelhouse.



CHARACTERISTICS	VALUE
Hovercraft	Skeg scheme of flexible fencing
Operation area	Inland water ways and lakes
Overall length, m	8
Overall width, m	3,6
Transportation width, m	2,4
Overall height, m	3,3
Transportation height, m	2,4
Doors	2 doors of type (wing of seagull) on craft boards
Cabin dimensions (length, width, height), m	3,6/ 2,0/ 1,4
Passenger capacity, per.	Up to 10 people including boatmaster
Maximum speed	
On water, km/h	75
On snow, ice, km/h	90
On grass/sand, km/h	55
Engine	
Capacity, h.p.	146;197
Travel range, km	Up to 750 with additional tank



HYDROAIR-20

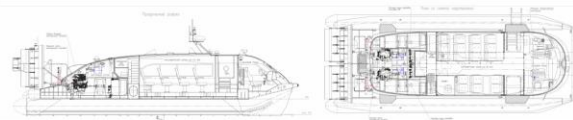


Hovercraft HYDROAIR-20 is designed for year-round transportations of passengers during daylight hours in inland water ways of class "O", in sea coastal areas at distance of 2 miles from shore, as well as on snowy and unpaved surfaces without limits of their bearing capability at ambient air temperature from - 35 C to +55 C.

CHARACTERISTICS	VALUE
Hovercraft	Skeg scheme of flexible fencing
Operation area	Inland water ways and lakes
Overall length, m	13.03
Overall width, m	3.6
Transportation width, m	4.25
Overall height, m	2.5
Transportation height, m	2.5
Maximum speed	
On water, km/h	60
On snow, ice, km/h	90
Engine	
Brand/module	2 x IVECO F1C
Capacity, h.p.	197
Travel range, km	500



HYDROAIR-25



Hovercraft HYDROAIR-25 is designed for year-round use on water, land, snow and ice surface, shallows and shallow waters.

The craft can be used at low temperatures and severe weather conditions. At the present moment the priority is given for an aluminum type of the wheelhouse.



CHARACTERISTICS	VALUE
Hovercraft	Skeg scheme of flexible fencing
Operation area	Inland water ways and lakes
Overall length, m	14,3
Overall width, m	5,1
Transportation width, m	4,0
Overall height, m	4,3
Transportation height, m	2,5
Passenger capacity, per.	Up to 25 persons
Maximum speed	
On water, km/h	65
On snow, ice, km/h	90
On grass/sand, km/h	50
Engine	
Brand/module	2 x IVECO F1C
Capacity, h.p.	197
Travel range, km	500



PHOENIX

HIGH-SPEED PASSENGER CRAFT



High speed passenger craft on rigid skegs "Phoenix" is an alternative to passenger craft type "Luch".

These crafts are in demand in Khanty-Mansiisk autonomous district, Yamal-Nenets Autonomous District and other Russian regions with developed river system.

Small draft allows free travel on rocky shallow water and landing on shore without any facilities.

CHARACTERISTICS	VALUE
Ship's class according to the Rules of Russian River Register	*P2.0/1,5
Vessel's draft (air-cushion) not more than	0,3 m
Vessel's draft of in displacement condition, not more	0,6 m
Travel range at speed 40 km/h with full load not less than	400 km
Passenger capacity	55 persons
Crew number	4 persons
Endurance with sewage and oily waters, garbage	14 hours
Climatic operation conditions	From -10 °C to +35 °C
Autonomous diesel engine	Voltage 220 V
Shore power cable	50 m
CCTV	Equipped (6 lines)
Navigation lights, radio communication and navigation	According to RRR requirements
Engines	Diesel MAN – pcs Main fuel type - diesel



SIRIUS

MULTIFUNCTIONAL CRAFT

«Sirius» is a multifunctional craft for passenger and cargo transportation, execution of works on water, including works related to elimination of accidental oil spills, as well as patrolling and execution of other tasks.

The craft is made of spark proof aluminium-magnesium alloy that ensures light weight of the craft and guarantees operation in an oil spill. The bow ramp installed on modified version of "Oil spill response operations" craft, is intended for execution of works on water and installation of booms as well as loading and unloading of equipment.

The craft may be equipped with outboard or fixed engine. Passenger capacity of the craft is 12 persons, including the crew.



CHARACTERISTICS	VALUE
Hull length, mm	7500
Hull width, mm	2480
Depth, m	1
Stern and bow locker	available
Endurance, h	10
Allowable operation temperature (air)	From -5°C up to +45°C
Allowable operation temperature (water)	From +2°C up to +30°C
Ramp width, mm	1300
Type of ramp drive	hydraulic
Passenger capacity (crew included), pers.	12
Crew, pers.	1
Maximum speed (empty), knots	25
Type of engine	Outboard / fixed
Engine capacity, h.p.	Up to 200 h.p.
Fuel tank capacity, l	250 liters
Battery with disconnect switch, pc.	1
Remote control, set	1
Fuel system, set	1
Navigation lights, set	1
Control board, set	1



VODOMERKA

FLOATING GARBAGE COLLECTING BOAT

Vessel for removal of floating trash, collection of oily water from water surface. Delivery of collected materials to the shore. Possibility of preliminary processing on board.

Use of facilities to clean water polluted by oil products:

Water from the surface is poured over into a special tank at the bow end of the conveyor, than it is pumped by a submersible macerator pump either to the water treatment plant installed on the vessel, or to a storage tank installed on the vessel, on shore, on auxiliary appliances.

CHARACTERISTICS	VALUE
Hull length	12 m
Hull breadth	4,5 m
Depth	1,3 m
Draught	0,6 m
Total displacement	18 t
Main engine capacity	150 h.p.
Weight of collected waste	up to 4500 kg

* Precise parameters of the vessel is clarified during design work



Type:

Self-propelled, small, single hull. Closed type, with recess. Steel hull.

Operation:

With the help of a cleaning monitor the operator of the ship can collect the trash in compact areas, wash it off the offshore structures.

Trash collector collects floating trash with the help of manipulators and directs it onto a conveyor belt. The vessel is also adapted to collect large and heavy trash.

Conveyor belt transports trash to the removable bunker installed on the vessel. Unloading of filled bunkers and installation of empty bunkers on the vessel is carried out by any hoisting equipment.



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