

Concarneau, June 23rd 2016

The Moroccan Royal Navy
entrusted PIRIOU with the building of
Hydro-Oceanographic and Multi-Missions vessel



PIRIOU has just recorded a new order from the Moroccan Royal Navy for a 72 m Hydro-Oceanographic Multi-Missions vessel (BHO2M) to be delivered by mid-2018.

This is the third contract awarded by the Moroccan Royal Navy (MRN) after the contract for a 50 m LCT (Landing Craft Tank) to be delivered next July and the contract for the overhaul of the OPV 64 'Rais Bargach' presently under way in Concarneau.

The BHO2M is a last generation scientific vessel equipped with the systems matching the topographic studies answering the International Hydrographic Organization (IHO) standards. She was designed from the Multi-Missions vessel (B2M) under construction in Concarneau for the French Navy.

This contract is the outcome of the significant work of a tight team comprising:

- PIRIOU who ensures the vessel design, studies and building,
- The SHOM (Navy Hydrographic and Oceanographic Department) for the scientific part of the vessel and the training of the technicians of the Hydrography, Oceanography and Cartography Division (DHOC) of the MRN,
- KERSHIP for the expertise in military systems and contract management.



Vincent FAUJOUR, PIRIOU General Manager declares:

'We are very pleased and honoured to build this second vessel for the Moroccan Royal Navy. Thanks in particular to a close and crucial collaboration with the SHOM, we have designed a performing vessel with all the qualities required to become the new reference in terms of hydro-oceanographic vessel. Following on from the expedition vessel YERSIN and the Polar Logistic Vessel PLV, PIRIOU thus confirms its ability to design and build very technical vessels with scientific or exploration purposes.'

Besides we are developing our activities in the Law Enforcement and Defence business and now exporting, both with KERSHIP and the support and partnerships forged with the French Defence and especially the French Navy I sincerely thank'.

A hydro-oceanographic and multi-missions vessel

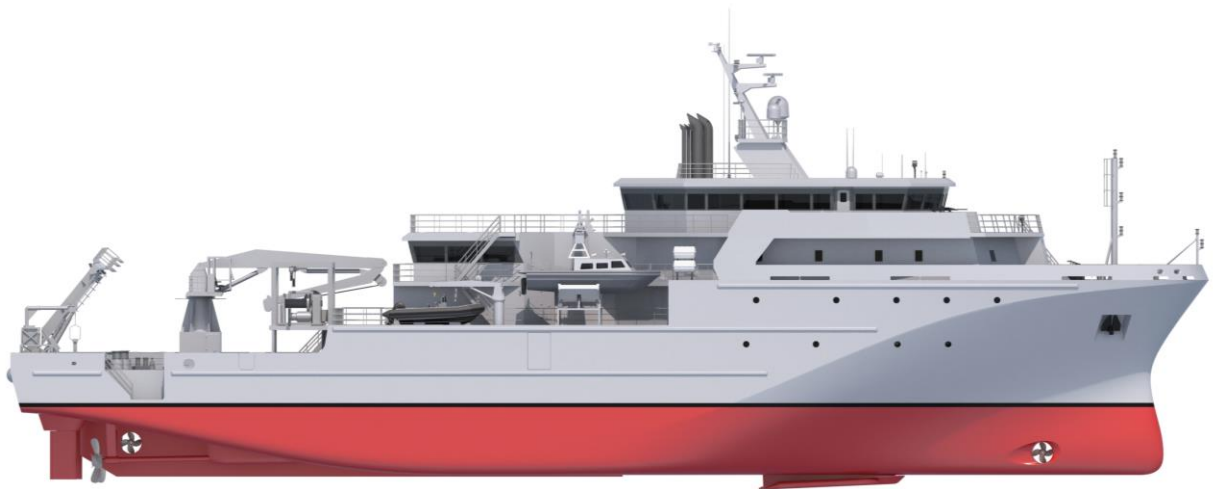
The BHO2M is able to fulfil long lasting operations, mainly hydrographic and oceanographic missions such as the completion of topographic studies, data acquisition and process, scientific sampling and the related analyses. She is fitted with an appendix where the acoustic bases of the scientific equipment including the two multibeam echo sounders are located.

As the most performing vessel of her generation as for acoustics, the BHO2M will be able to achieve these missions as well at high speed as in a rough sea.

She will also be able to answer the operational requirements of the authorities regarding patrol, humanitarian assistance, Special Forces or divers deployment, search and rescue and environment protection.

The BHO2M features:

- building at European standards
- the most recent scientific integrated equipment matching the works answering the IHO standards
- endurance, seakeeping behaviour and high performances for long lasting deep sea missions
- versatility enabling a large range of specific missions thanks to:
 - o a wide rear deck to store containers or other equipment
 - o handling means to load and operate special equipment
 - o two VERTREP areas
- dedicated facilities: sickbay, divers fittings, conveniences for scientists



Main characteristics

Length overall.....	72 m
Breadth	15 m
Max. draught	5 m
Speed	14 kn
Range	5000 NM @ 10 kn/ 30 days
Hull /superstructure	steel
Crew + special personnel	50
Propulsion	Electric - AFE type
 powered by 4 gensets x 1200KW

Special equipment:

Intervention boats

- 2 hydrographic speedboats
- 1 workboat

Hydrographic and oceanographic equipment

- Multibeam and single beam echo sounders
- Sub-bottom profiler
- Side scan sonar
- Magnetometre
- Moving vessel profiler
- Conductivity temperature depth probe
- Expendable bathythermograph
- Hull sound velocity
- Thermosalinograph
- Weather station
- Acoustic Doppler current profiler
- Gravity corer
- Corer
- Data acquisition system



A fruitful collaboration with the Moroccan Royal Navy

Complete overhaul of the patrol vessel ‘Rais Bargach’

PIRIOU NAVAL SERVICES is managing the complete overhaul of the ‘Rais Bargach’, 65 m deep sea patrol vessel built in 1995:

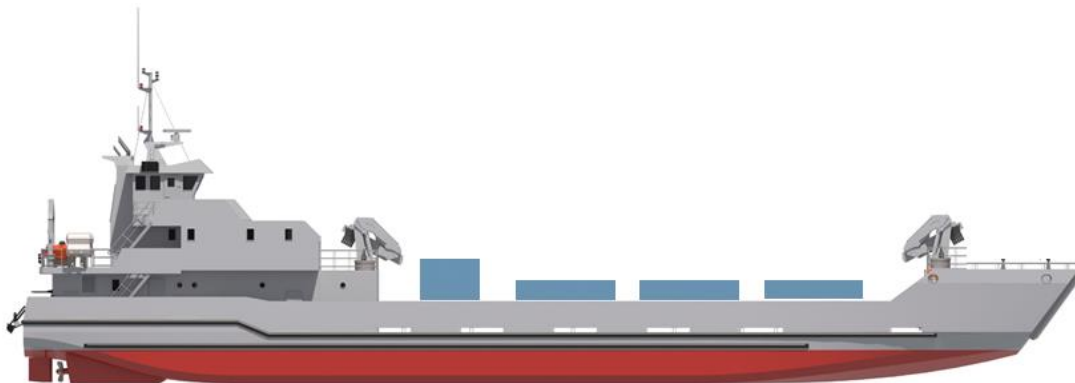
- Hull and structure overhaul
- Surface treatment and painting for the whole vessel
- Renovation and modernization of all accommodation premises
- All installations inspection and replacement if required

Building of multipurpose 50 m LCT barge

In July 2015, the MRN awarded to PIRIOU its first order for the building of a 50 m multipurpose barge which will be delivered in July 2016. The first crew will be trained to operate and maintain the vessel. This training will take place early in July in Concarneau.

Designed by PIRIOU INGENIERIE this 50 metres LCT is based on a proven civilian version which PIRIOU already built in several units. Intended for the transportation of vehicles, various cargos as well as for the supply of water and fuel, the LCT 50 is fitted with two handling cranes and a bow ramp allowing loading or unloading on beach or on dock.

She is specifically designed to produce and to store fresh water thanks to her capability to embark a reverse osmosis system and flexible tanks on deck.



Main characteristics

Length overall	49.9 m	Crew.....	22
Breadth.....	11.0 m	Speed.....	10 kn
Dead weight.....	300 t	Propulsion.....	2 x 492 kW
Deck cargo surface.....	200 m ²	Gensets.....	2 x 150 kVA
Fresh water capacity.....	35 m ³	Specific equipment:	
Fresh water capacity cargo.....	35 m ³	2 cranes	3.4 t @ 9.8 m
Fresh water capacity freight (flexible tanks)	70 m ³		
Fuel capacity.....	42 m ³		



About PIRIOU

Involved in shipbuilding, repair, naval engineering and services since 1965, PIRIOU specializes in producing medium sized vessels up to 120 m in length with high added value through a combination of high-performance engineering and a global network of industrial sites in Europe, Africa and Asia. With more than 420 ships built and delivered worldwide, PIRIOU provides, on a global scale, bespoke solutions as well as a complete range of standardized or customized vessels that satisfy the requirements of international ship-owners, whether they be private or public, civilian or military. www.piriou.com.

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