

Vessel Description

MV Cosantoir Bradan

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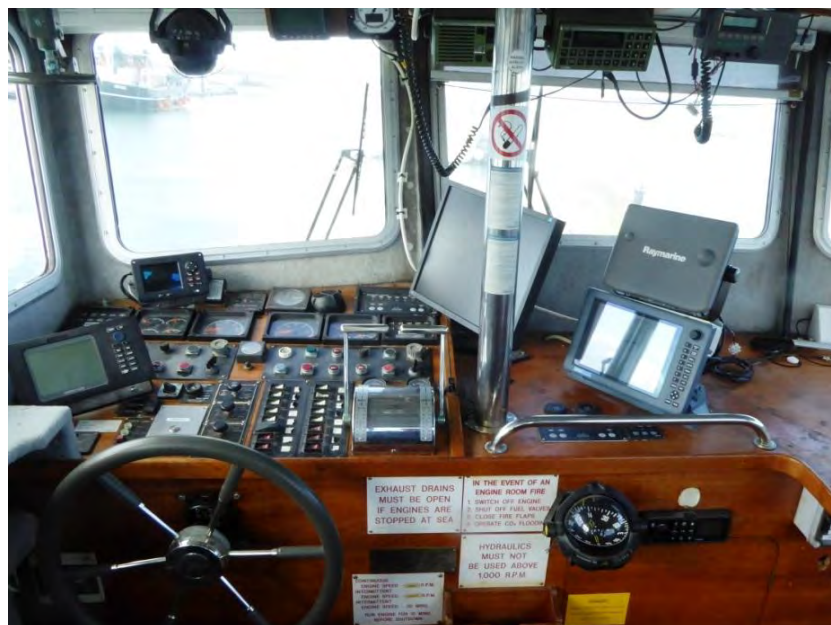
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Type	GRP Research & Patrol Vessel
Official No	403203
Built	1996 Cork, Ireland
LOA	17.2m
Beam	4.5m
Tonnage	31.79 GT / 21.62 NT
Engine	2x Caterpillar 3176B.. Each of 450 hp
Power	Total power 671.4 kW



Cosantoir Bradan was built by Aquastar Workboats, Cork in 1996 under the supervision of BIM. She was delivered on 25th July 1996. She has been used by the Geological Survey of Ireland (GSI) since 2012 as a coastal research vessel.

She is laid out with the saloon on the main deck amidships. The forward wheelhouse is raised and accessed from the saloon. The sleeping quarters are located forward beneath the wheelhouse. A tank space is located amidships below the saloon. The engineroom is located aft with access from a hatch on the main deck. A separate steering compartment is located aft. An inflatable can be carried on the aft deck and launched / recovered with a folding hydraulic crane.



The wheelhouse is fitted with a range of communication and navigation equipment listed below. All equipment is reported to be in working order. The visibility from the raised wheelhouse is good.

Simrad Sounder	SART
Koden Radar	EPIRB
Raymarine Autopilot	CCTV x3
Raymarine Plotter	Wind Speed & Direction
ICOM VHF	Tannoy loudhailer
Sailor VHF x2	Bilge & Gas alarms
AIS system	Garmin GPS
Navtex	Magnetic Compass

The photo below shows saloon with the wheelhouse access to port (left) and access on the centreline to the accommodation spaces. Access to the tank space below is visible on the saloon floor.



The two photos below are taken in the forward accommodation. Bunks are located forward with four in the main area with a separate skippers cabin to Starboard



The walk-around deckhouse allows access forward at main deck level. A hydraulic gantry is mounted forward and used to deploy underwater equipment as shown below. The main deck is raised in way of the engineroom and provides a moulded cradle for an inflatable dinghy. A folding hydraulic crane is used to launch and recover the dinghy or other equipment stored on deck.



Cosantoir Bradan is fitted with two Caterpillar 3176B engines, each delivering 450 hp to a reduction gearbox and fixed pitch propeller. These engines were not seen running at the time of inspection. Service history for main engines was not presented at the time of inspection. Engines seem dry and leak free and are reported to run well



Two silenced generators are fitted in the engine room. These Panda Compact Power units provide 220 V AC for domestic and research equipment separately. A Victron Energy multiplus Compact is fitted to provide a charge management system for a number of battery banks and to use 24V DC to provide a 220volt AC output.

Cosantoir Bradan was last issued an Irish Loadline Cert in 2012. Prior to this modification were carried out for Survey Works and the vessel was inclined with her stability book then approved by the MSO in 2011. She was assigned a freeboard of 456mm at that time.

Cosantoir Bradan is a useful inshore survey vessel and she has benefitted from her time with GSI. Her certification has been improved and her electrical installation has been upgraded.

Sept 2016