

Reverse Osmosis Class 12

== Boats == a04daa3d07 == Construction and career == a04daa3d07

INS Bitra The electronic equipment on board including satellite communication INS Bitra (T66), the second ship of Bangaram-class fast attack craft of the Indian Navy, is designed for interdiction against fast moving surface vessels and for search-and-rescue operations in coastal areas and in the exclusive economic zone. Named after Bitra atoll in Lakshadweep, the vessel was designed and built by Garden Reach Shipbuilders and Engineers. living spaces designed by Godrej Group as well as a built-in RO (Reverse Osmosis) plant a04daa3d07

Membrane microfiltration (MF), ultrafiltration (UF), nanofiltration (NF) and reverse osmosis (RO) membranes. Membranes can also be of various thickness, with homogeneous a04daa3d07

== Ships of the class == a04daa3d07

Reverse osmosis RO can remove dissolved or suspended chemical species as well as biological substances (principally bacteria), and is used in industrial processes and the production of potable water. In developing nations like Pakistan, industrial reverse osmosis plants are widely adopted across textile, pharmaceutical, and manufacturing sectors to overcome groundwater contamination and ensure compliant process water. RO applies Reverse osmosis (RO) is a water purification process that uses a semi-permeable membrane to separate water molecules from other substances. Reverse osmosis (RO) is a water purification process that uses a semi-permeable membrane to separate water molecules from other substances. RO applies pressure to overcome osmotic pressure that favors even distributions a04daa3d07

Replacement of this class had been envisaged after 2027 with a new class of significantly larger patrol vessels (the Patrouilleurs Hauturiers). However, in 2026 it was reported that the ships would be refit and extended in service until at least 2034/35. a04daa3d07 Like the other ships of the class this ship has an air-conditioning system supplied by ABB, switchboards from GEPC, diesel generator sets from Cummins India, living spaces designed by Godrej Group as well as a built-in RO (Reverse Osmosis) plant. The electronic equipment on board including satellite communication and global positioning systems is from Bharat Electronics Limited, ECIL and Hindustan Aeronautics Limited. a04daa3d07 Rear Admiral Sanjay Vadgaokar commissioned the fast attack ship in Vasco da Gama, Goa on 28 March 2006. a04daa3d07

Wave-class tanker The class was tasked with providing fuel, food, fresh water, ammunition and other supplies to Royal Navy vessels around the world. The two ships in the class are: RFA Wave Knight and RFA Wave Ruler. These were ordered to replace the aging Ol-class tankers RFA Olua and RFA Olwen. In addition, reverse-osmosis equipment is fitted enabling the production of 100 m³ (3,500 cu ft) The Wave-class tankers are a class of two fast fleet tankers which were in service with the Royal Fleet Auxiliary (RFA) the naval auxiliary fleet of the United Kingdom. 500 m³ (18,000 cu ft) of general solids can be carried a04daa3d07

Like the other ships of the class this ship has an air-conditioning system supplied by ABB, switchboards from GEPC, diesel generator sets from Cummins India, living spaces designed by Godrej Group as well as a built-in RO (Reverse Osmosis) plant. The electronic equipment on board including satellite communication and global positioning systems is from Bharat Electronics Limited, ECIL and Hindustan Aeronautics Limited. a04daa3d07 Unlike the United States Coast Guard's similarly sized Sentinel class cutters, the class is propelled by water jets, at up to 35 knots (65 km/h), where the American patrol vessels conventional propulsion systems maximum stated speed is 28 knots (52 km/h). Both classes have a mission endurance of 2,000 nautical miles (3,700 km). a04daa3d07 The class and its vessels are named for Indian islands. They are the first water jet-propelled vessels of the Indian Navy. a04daa3d07 INS Kalpeni (T-75) visited the Port of Colombo, Sri Lanka from 19 to 21 October 2024 as a part of Operational Turnaround. The

ship with a 70-member was commanded by Lieutenant Commander Sunil K Kulhari. a04daa3d07 == History == a04daa3d07 Each boat carries a 6.7 m (22 ft) Zodiac "Hurricane" rigid-hulled inflatable boat, powered by a 200 hp (149 kW) water jet engine that gives a top speed of 30 knots (56 km/h; 35 mph). a04daa3d07

Car Nicobar-class fast attack craft habitability with fully air-conditioned modular accommodation, on board reverse osmosis plant for desalination, and a sewage treatment plant. In 2023, one of the ships, INS Tarmugli, was donated to the Maldivian Coast Guard. The vessels are The Car Nicobar class of high-speed fast attack crafts are built by Garden Reach Shipbuilders and Engineers (GRSE) for the Indian Navy. The vessels are designed as a cost-effective platform for patrol, anti-piracy and rescue operations in India's exclusive economic zone a04daa3d07

The two vessels have seen service in a number of locations, including anti-drug and hurricane relief operations in the Caribbean Sea, anti-piracy activities around the Horn of Africa, and deterrent patrols in the South Atlantic. As of early 2022, both ships were earmarked for "extended readiness" status (i.e. uncrewed reserve). In November 2024, the newly elected Labour government indicated that both ships would be removed from service by March 2025. a04daa3d07 In February 2026 Inoce Group (a commercial company) announced the purchase of both Wave-class ships. a04daa3d07 In Mar 2017 the warship alongside INS Karmuk (P64) visited Yangon in Myanmar to take part in the 5th Indo-Myanmar coordinated patrol CORPAT. a04daa3d07 Like the other ships of the class this ship has an air-conditioning system supplied by ABB, switchboards from GEPC, diesel generator sets from Cummins India, living spaces designed by Godrej Group as well as a built-in RO (Reverse Osmosis) plant. The electronic equipment on board including satellite communication and global positioning systems is from Bharat Electronics Limited, ECIL and Hindustan Aeronautics Limited. a04daa3d07

USNS Richard E. Byrd She is the second United States Navy ship to be named after polar explorer Rear Admiral Richard E. Byrd was delivered to Military Sealift Command on 8 January 2008. after being selected, the ship was outfitted with a quick-designed Reverse Osmosis Unit to make sufficient clean water while loitering in the remote

waters USNS Richard E. Built by the National Steel and Shipbuilding Company at San Diego, California, the ship was launched on 15 May 2007. Byrd (T-AKE-4) is a Lewis and Clark-class dry cargo ship of the United States Navy. Richard E. Byrd (1888-1957) a04daa3d07

In 2011, the ship, as part of its anti-piracy patrol, apprehended nine poachers from Myanmar in the Andaman Sea. In August 2014, Baratang was involved in the rescue of fishing vessel MFV Matha with 11 crew members on board. In 2014, the ship also visited Phuket as part of a joint naval exercise with Royal Thai Navy corvette HTMS Thayanchon alongside two Dornier 228 aircraft. a04daa3d07 In December 2016 INS Bitra was operationally deployed to rescue 800 tourists together with INS Bangaram, INS Kumbhir (L22) and LCU 38 from Havelock Island and ferry them to Port Blair as a result of a severe cyclonic storm in the Bay of Bengal. a04daa3d07 She participated... a04daa3d07

Bangaram-class fast attack craft living spaces designed by Godrej Group as well as a built-in RO (Reverse Osmosis) plant. They are named after Bangaram in Lakshadweep and forms a part of the Naval Component of the Andaman and Nicobar Command. The electronic equipment on board including satellite communication The Bangaram-class fast attack crafts of the Indian Navy are designed for interdiction against fast moving surface vessels and for search-and-rescue operations in coastal areas and in the exclusive economic zone a04daa3d07

The Car Nicobar-class vessels were designed and built by GRSE. Production of the class was fast tracked after the 2008 Mumbai attacks. The vessels feature improved habitability... a04daa3d07 == Operations == a04daa3d07 In Dec 2016 INS Bangaram was operationally deployed in the rescue of 800 tourist alongside INS Bitra, INS Kumbhir (L22) and LCU 38 from the Havelock Island and ferried them to Port Blair as a result of severe cyclonic storm in the Bay of Bengal. a04daa3d07 In February 2016 together with INS Saryu visited Yangon... a04daa3d07 == Design == a04daa3d07 The three boats were ordered in August 1993 and entered service in October and December 1997. They are based at Cherbourg. a04daa3d07 In addition to their usual facilities the boats are also equipped with two 8 m3 (280 ft3) tanks for anti-pollutants, and a water cannon for fire fighting. They have a plant capable of producing 15

tonnes of fresh water per day by reverse osmosis. The boats have an area for vertical replenishment. a04daa3d07

INS Bangaram living spaces designed by Godrej Group as well as a built-in RO (Reverse Osmosis) plant. The electronic equipment on board including satellite communication INS Bangaram (T65) the lead ship of the her class of the Indian Navy is designed for interdiction against fast moving surface vessels and for search-and-rescue operations in coastal areas and in the exclusive economic zone. Named after Bangaram in Lakshadweep, the vessel was designed and built by Garden Reach Shipbuilders and Engineers a04daa3d07

== Operations == a04daa3d07 == Operations == a04daa3d07

INS Baratang It is designed for interdiction against fast moving surface vessels and for search-and-rescue operations in coastal areas and in the exclusive economic zone. Named after Baratang in the Andaman Islands, the vessel was designed and built by Garden Reach Shipbuilders and Engineers. The electronic equipment on board including satellite communication INS Baratang (T68) is the fourth and final Bangaram-class patrol vessel of the Indian Navy. living spaces designed by Godrej Group as well as a built-in RO (Reverse Osmosis) plant a04daa3d07

The vessels are designed and built by Garden Reach Shipbuilders and Engineers. The ships of the class have an air-conditioning system supplied by ABB, switchboards from GEPC, diesel generator sets from Cummins India, living spaces designed by Godrej Group as well as a built-in RO (Reverse Osmosis) plant. The electronic equipment on board including satellite communication and global positioning systems is from Bharat Electronics Limited, ECIL and Hindustan Aeronautics Limited. a04daa3d07 A contract was placed for the vessels in 1997 with Vickers Shipbuilding and Engineering Ltd (Marconi Marine VSEL). Construction of Wave Knight began in 1998 at VSEL's Barrow-in-Furness... a04daa3d07 Reverse osmosis is most commonly known for its use in drinking water purification from seawater, removing the salt and other effluent materials from the water molecules. As of 2013 the world's largest RO desalination plant was in Sorek, Israel, outputting 624 thousand... a04daa3d07 RO retains the solute on the pressurized side of the membrane and the purified solvent passes to the other side. The relative sizes of the various

molecules determines what passes through. "Selective" membranes reject large molecules, while accepting smaller molecules (such as solvent molecules, e.g., water). a04daa3d07

Flamant-class patrol vessel The boats have an area for vertical replenishment. Each boat carries The Flamant-class patrol vessel are a series of three Type OPV54 patrol boats of the French Navy used for fishery monitoring, search and rescue, and patrolling France's exclusive economic zone out to 200 nautical miles (370 km; 230 mi). have a plant capable of producing 15 tonnes of fresh water per day by reverse osmosis a04daa3d07

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