The Pacific Patrol Boat Replacement Program (PPB-R) is part of the Commonwealth’s Pacific Maritime Security Program that aims to enhance practical maritime security cooperation across the South Pacific. The PPB-R shall include 19 steel vessels for delivery to 12 Pacific Island nations from late 2018.

The all new Pacific Patrol Boat is based on Austal’s proven patrol boat design platform and is 39.5 metres long with a beam of 8 metres and a loaded draft of 2.5 metres. It is capable of traveling at 20 knots and at 12 knots possesses a 3,000 nautical mile range. Each vessel can accommodate 23 people.

Austal will design, construct and deliver the 19 steel-hulled patrol boats (valued at $280 million) to 12 Pacific Island nations. The contract includes an option for two additional vessels.

The sustainment support contract for an initial seven year period is valued at approximately $24 million.

The vessels will be constructed at Austal’s shipyard in Henderson, WA, and sustained by Austal and it’s partner organisations in Cairns, Queensland; securing jobs and engaging local subcontractors across Australia.
COTS nav and comms equipment is specified for easy operation and maintenance.

Improved fuel consumption due to electronic control of main engines.

Maintenance activities are outlined in the Sustainment Plans and are optimised for ease of maintenance and associated lower costs of ownership. This includes tailored Usage Upkeep Cycle, Usage Upkeep Plan, Annual Work Plan.

The Support System benefits from the pragmatic and sensible application of efficient and effective sustainment best practice but tailored for the Operational Model and available support infrastructure accessible to the end user.

GW/BW discharge pumps are identical, reducing sparing and providing interchangeability of parts.

COTS nav and comms equipment is specified for easy operation and maintenance.

Simplified mechanical system arrangement with common pumps between various systems. The sullage system allows grey water discharge overboard with STP treatment of blackwater.

Improved access to all voids and bilge spaces for inspection and maintenance.

Simplified monitoring and control of mechanical systems.

The Austal PPB-R uses a common make of main engine and generators.

The PPB-R uses a saltwater WC flush system. This reduces freshwater usage enabling reduced FW tank size and watermaker capacity and reduces through life costs.

STP that processes BW only - easier to maintain.

Reduction in tank numbers to simplify the fuel system arrangement.

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Atmospheric crankcase breathers are utilised, eliminating through life costs associated with ingestive crankcase breathers.

The use of fuel coalesces rather than centrifuge to reduce maintenance burden.

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Stern launch and recovery system reduces the Total Cost of Ownership of boat equipment.

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PACIFIC PATROL BOAT SPECIFICATIONS

PRINCIPAL DIMENSIONS
Length overall ........................................ 39.5 metres
Beam (overall) ........................................ 8.0 metres
Draft, Loaded (approx.) .............................. 2.5 metres
Cargo Deck ............................................. 16m2 with lashing grid serviced by crane

ACCOMMODATION
Berths ......................................................... 23

ARMAMENT
Weapons ............................................... Space and weight reservation
for a 30mm main gun
........... Port and Starboard mounts for 0.50 calibre GPMG

COMMUNICATION & SENSORS
Communication system ....... VHF/DSC Radios, MF/HF DSC Radios, VHF Aeroband Radio,
UHF Military Radio, Inmarsat C, SatCom, HF and VHF Radio
Direction Finder
Navigation .................................. X-Band Radar, Electronic Chart System, DGPS, Gyrocompass,
Autopilot, Depth Sounder

ADDITIONAL FEATURES
Ships Boat ................................. 1 x Work Ribs (WRH635FRB)
SOLAS approved fast rescue boat for 15 persons @ 100kg
Powered by 2x90hp Yamaha outboard motors

PROPELLSION
Main engines ........................................ 2 x Caterpillar 3516C
........................................ 2 x 2000 bkW @ 1600 rpm
Gearboxes ........................................ 2 x ZF 76000 (with trolling valves)
Propellers ........................................... 2 x fixed pitch

PERFORMANCE
Speed (SS4) ......................................... 20 knots at 100% MCR
Range at 12 knots (SS4) ......................... 3,000 nm

CLASSIFICATION
Lloyd’s Register
100A1 SSC Patrol Mono HSC G6 MCH
AUSTAL PPB 40

PROFILE

PROFILE @ CENTRELINE

BRIDGE DECK

MAIN DECK

LOWER DECK

YARD NO: 321 - 339

DESTINATION: PACIFIC ISLAND NATIONS

DELIVERY: 2018 - 2023

CLIENT: COMMONWEALTH OF AUSTRALIA

PACIFIC PATROL BOAT

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AUSTRALIAN DEFENCE PRIME CONTRACTOR
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