



RSV Nuyina

General:

The heavy icebreaker was designed for the Australian Government to resupply their Antarctic bases and for research and scientific work. The vessel can deploy a wide range of vehicles, including helicopters, landing barges and amphibious trucks to support the resupply operations. The new ship provides a modern platform for marine science research in both sea ice and open water with a large moon pool for launching and retrieving sampling equipment and remotely operated vehicles.

Unique to the vessel is a hybrid propulsion system to provide both the high power needed for icebreaking and silent running for science operations. Sensitive acoustic instruments are mounted on dual drop keels and multi-beam bathymetric sonars will enable sea floor mapping. Flexible and modular science laboratories will provide scientists the diverse facilities needed for conducting cutting edge research.

Main Particulars:

Length o.a.	160.30 m
Breadth moulded	25.60 m
Depth to main deck	19.20 m
Draught max.	9.30 m
Deadweight	8,250 t

Capacity:

No. of special personnel	117 pax
No. of crew	32 pers

Speed:

Max.	16.00+ kn
Icebreaking	3.00 kn

Machinery and Equipment:

Diesel-Direct + PTI (electric hybrid)	
Propulsion power	26,600 kW
Generator power	11,000 kWe
Thrusters	3 bow and 3 stern

Miscellaneous:

Classification	Lloyd's Register of Shipping
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Scope of Work:

Concept Design
Tender Design
Operational Concepts
3D renderings
Promotional movie
HVAC

Ref. No.:

KEH 13006