



## Icebreaking Antarctic Supply and Research Vessel (RSV Nuyina)

<b>General:</b>	<p>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.</p> <p>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.</p>	
<b>Main Particulars:</b>	Length o.a.	156,00 m
	Breadth moulded	25,60 m
	Depth to main deck	19,20 m
	Draught max.	9,20 m
	Displacement full load	24,000 t
<b>Capacity:</b>	No. of passengers (scientists)	116 pax
	No. of crew	32 pers.
<b>Speed:</b>	Max.	16.00+ kn
	Icebreaking	3.00 kn
<b>Machinery and Equipment:</b>	Diesel-Direct + PTI (electric hybrid)	
	Propulsion power	26,600 kW
	Generator power	11,000 kWe
	Thrusters	3 bow and 3 stern
<b>Miscellaneous:</b>	Classification	Lloyd's Register of Shipping
<b>Scope of Work:</b>	<p>Concept Design  Tender Design  Operational Concepts  3D renderings  Promotional movie  HVAC</p>	
<b>Ref. No.:</b>	KEH 13006	