



ECO Valencia and Sisters

General:	<p>The nine vessels will have a length of 238 metres and will be able to transport over 7,800 lane meters of rolling units, equivalent to above 500 trailers.</p> <p>The design was developed in a fruitful cooperation between the Grimaldi Group, Nanjing Jinling Shipyard and KNUD E. HANSEN.</p> <p>The vessels will be 'ultra green' with 600m² of solar panels, large-capacity batteries to achieve zero emissions in port and a peak shaving system. Furthermore, an air lubrication system is included so the ship will ride on a carpet of micro bubbles, hereby reducing the frictional resistance between the hull and the water.</p>	
Main Particulars:	Length o.a.	238.00 m
	Length p.p.	229.75 m
	Breadth moulded	34.00 m
	Depth to main deck	9.30 m
	Draught to summer load line	7.20 m
	Deadweight (design/summer draught)	17,000 t
Capacity:	Crew	31 pers
	Passengers	12 pax
	Lanemetres	7,800 m
	Trailers	above 500 pcs
Speed:	Service speed	20.80 kn
	Range on HFO	Approx. 7,000 nm
	Range on MGO	Approx. 1,000 nm
Machinery and Equipment:	Fuel	HFO and MGO
	Main engines	Two (2) slow speed 2-stroke Diesel
	Installed power	12,780 kW (MCR) per engine
	Aux. engines	Three (3) 1,580 kW (MCR) per engine
	Propellers	Two (2) CPP propellers



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Miscellaneous:	Classification	RINA
	Number of vessels	9
	IMO numbers	9859533, 9859545, 9859557, 9859569, 9859571, 9859583, 9859595, 9859600, 9859612
Scope of Work:	From Concept to full Basic Design, including: General Arrangement and Technical Specification for contract signing Lines plan, optimization and model test assistance Intact and damage stability calculations Noise and vibration prediction calculations Hull structure design FEM verification of hull structure, global and local Deck outfitting Machinery - Engine Room Design Machinery - System Design Machinery - Hull Engineering HVAC Electric, instrumentation and automation Statutory- and Class documents	
Ref. No.:	KEH 18029.01	