



Bahri Abha and sisters, RoRo Vessel with Container Capacity

General:	Tender Design developed for Bahri, (NSCSA), Kingdom of Saudi Arabia. The vessel is flexible and has a large capacity, which is optimised for fast turnaround in harbours. Fully independent with regard to maneuvering and loading/unloading, these vessels are unique given that their size is smaller than the other vessels in the current fleet, yet they have more cargo lifting capabilities with lower fuel consumption. It is estimated that these lighter weight new vessels will consume 45 % less fuel than the current ships, thereby delivering considerable fuel cost savings.	
Main Particulars:	Length o.a. (approx.)	225.00 m
	Breadth moulded	32.30 m
	Draught	8.90 m
	Scantling draught	9.50 m
	Deadweight (approx.)	26,000 t
Capacity:	RoRo space capacity	24,800 m ²
	Container capacity	364 TEU
Speed:	Service speed (85 % MCR and 15 % sea margin) (approx.)	17.00 kn
Machinery and Equipment:	Diesel	
	Main engine (MCR)	12,500 kW
	Aux. engines	2 x 1,500 kW + 1 x 2,200 kW all at 720 rpm
	Shaft generator	2,200 kW
Miscellaneous:	Classification	Lloyd's Register
	IMO number Bahri Abha	9620944
	IMO number Bahri Hofuf	9620956
	IMO number Bahri Tabuk	9620968
	IMO number Bahri Jazan	9620970
	IMO number Bahri Jeddah	9626522
	IMO number Bahri Yanbu	9626534
Scope of Work:	Concept and Tender Design, including: General Arrangement Tender specification Detailed weight and centre of gravity calculations, including weight distribution Lines plans Intact stability calculations Damage stability calculations CFD Lines optimisation Technical support to the Owner in the tendering phase as well as in the construction phase, including: Plan approval	
Ref. No.:	KEH 10039	