Swire Blue Ocean - Pacific Orca & Pacific Osprey

General: The self-elevating and self-propelled vessels were designed for Swire Blue Ocean, Denmark, for installation of offshore wind turbines and support in the offshore oil & gas sector. The first of the two vessels was delivered from Samsung Geoje Shipyard in October 2012 and the second is expected to follow in the winter of 2013. The vessels are equipped with six 105 m long truss-type legs and a high-speed rack-and-pinion jacking system. The long legs enable them to jack to a height of 17 m above the water on 60 m water depth, and thus elevated safely above the waves they can survive even the most severe storm conditions. Should 60 m water depth not be enough the legs can be lengthened by further 15 m. The 1200 t work-around-leg crane is capable of installing 500 t heavy nacelles on top of turbine towers 120 m above the sea, and the 4300 m² cargo deck has space for up to twelve 3.6 MW turbines. The relatively fine hull lines in the bow gives the vessels a good speed even in higher waves and with 4 stern thrusters, 2 bow thrusters + 2 drop-down thrusters and a DP-2 dynamic positioning system the vessels have state-of-the-art maneuverability. The accommodation holds 111 crew single cabins with private bathrooms as well as necessary crew facilities and offices. A heli-deck is fitted forward above the accommodation block for transfer of crew.

Main Particulars:
- Length o.a. 160.90 m
- Length p.p. 155.60 m
- Breadth 49.00 m
- Depth to main deck 10.40 m
- Draught, design. 5.50 m
- Draught, max. 6.00 m
- Deadweight for jacking 8.400 t

Speed: Service speed, 90 % MCR, 15 % S.M. 13.5 knots

Propulsion:
- Diesel electric
- Main generator sets 8 x 2.8 MWe
- Stern thrusters 4 x 3.4 MW Compact Azipod
- Bow thrusters 2 x 2.2 MW retractable + 2 x 2.2 MW tunnel

Capacity:
- Capacity of main crane’s main hoist 1200 t @ 31 m (2x 600 t hooks)
- Capacity of main crane’s aux. hoist 500 t @ 50 m
- Capacity of aux. crane 40 t @ 40m
- Helicopter landing deck D= 22 m @12.8 t

Miscellaneous: IMO number "Pacific Orca"/ "Pacific Osprey" 9601326/9621704

Scope of Work: Conceptual and Tender Design developed for the Owner, including:
- General design and contract specification
- Lines plan and supervision of towing tank and wind tunnel testing
- Stability and lightweight calculation
- Structural design
- Layout of machinery spaces

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