

## NPCC to build derrick lay vessel

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**ULSTEIN**® Design from Ulstein Sea of Solutions (USOS) ordered for construction at Zhenhua: Abu Dhabi based National Petroleum Construction Company Ltd. (NPCC) has contracted Chinese shipyard Zhenhua Heavy Industries for the construction of their DLS 4200. The derrick lay vessel developed by USOS combines double joint S-lay capabilities with a 4200 sT lifting capacity.

DLS 4200 is designed to operate worldwide and is equipped with a 10-point mooring system to operate in the Arabian Gulf and India. To meet future market requirements, the design has already been prepared for DP2 upgrade to minimize the technical impact and shorten the upgrade process.

"After closely working together with NPCC in the design of the vessel, it is very rewarding to see the design now being put into reality by awarding the construction contract to ZPMC. We are confident that the vessel will prove to be a very competitive and valuable asset to NPCC to meet their strategic goals", says Bob Rietveldt, managing director at Ulstein Sea of Solutions.

The DLS 4200 is designed aiming for maximum efficiency and cost effectiveness and features a center double joint firing line to optimize pipelaying operations that are not hampered by vertical motions due to roll. Ulstein Sea of Solutions' distinctive feature of separating the pipelay functionality from lifting operations is also incorporated in the DLS 4200. The firing line and the double joint fabrication areas are located on the freeboard deck, which is completely covered by the main deck. This provides a clean and dry environment for the pipelay equipment and an unobstructed main deck for lifting operations.

The Amclyde Model 80 main crane is capable of lifting 4,200 sT (3,800 mT) at a 125 ft radius over the stern in tie-back mode and 4,200 sT at 95 ft without tie-back. In full revolving mode the crane is able to lift 3635 sT (3,300 mT) with an outreach of 130 ft.

The vessel features two fixed pitch shaft driven main propellers of 5,500 kW each which will allow for a cruising speed of 13 knots. To upgrade the vessel to DP2 five (5) retractable azimuth thrusters of 3,500 kW each are required.

Main dimensions of the vessel are:

- Loa 196.9 m Draught (design) 7.5 m
- Lpp 191.7 m Service speed 13 kn
- Beam (moulded) 43.4 m Installed power (moored) 4 x 5,530 kW
- Depth (moulded) 19.6 m Installed power (future DP) 6 x 5,530 kW

Ulstein Sea of Solutions is a dynamic design company known for its innovative designs of complex offshore construction vessels. Ulstein Sea of Solutions is part of the Ulstein Group of

Norway which has a solid reputation for its refreshing and innovative offshore vessel designs and turning visions into reality for its clients. Ulstein Sea of Solutions develops projects for operators, contractors and ship owners in the offshore drilling, construction and production market, as well as the maritime transport market. Future market trends and end user needs are the key drivers for developing and providing their new floating concepts to the offshore oil and gas industries and the offshore wind industry.

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