Self-elevating Arctic Drilling and Pipe Lay Vessel

General: The vessel, which was designed for Frontier Drilling USA Inc., is a self-elevating multipurpose drilling and pipe lay vessel for arctic waters. The main features are the four truss type legs with ice protection sleeves, the skidable drilling cantilever, the pipe laying equipment for rigid reeled pipes and the built-in turret mooring system with a central moon pool.

Main Particulars:
- Length o.a. 190.60 m
- Breadth moulded 44.20 m
- Depth to main deck 15.00 m
- Depth to drill floor 25.00 m
- Draught 8.50 m
- Deadweight DWT at design draught/max. DWT for jacking (approx.) 8000 t

Capacity:
- Drilling
  - Drilling envelope over the side of the vessel Longit. +/- 5.8 m. Transv. 3.6 – 19.8 m
- Pipe lay
  - Two pipe reels (di=21 m/do=30 m) each with a capacity of 2500 t
- Jacking
  - Max. water depth (10 m sea bed penetration/10 m air gab): 60 m

Speed:
- Design speed (90 % MCR, 15 % sea margin) (approx.) 11 kn

Propulsion:
- Diesel electric
- Main generator sets 6 gen sets of 4 MW electrical output at 90 % MCR

Miscellaneous:
- Classification Norske Veritas

Scope of Work:
- Concept Design, including:
  - General Arrangement
  - Data sheet
  - 3D visualization
  - Preliminary ship-technical calculations

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