

MODEL TESTS ON OFFSHORE ENGINEERING STRUCTURES

in limited water depth and wave conditions



- Model studies into propulsive performance of ships and vessels of various types.
- Model studies into hydrodynamic performance of propulsors of various types
- Analysis of model flow pattern with fluid.
- Hull-shape optimization for ships, vessels and offshore engineering structures.
- Determination of added resistance of vessels and floating rigs in waves.
- Development of projects for offshore structure transportation to installation sites.
- Experimental investigation into scour and tanker behavior at operation of main propulsors during loading nearby drilling platforms in shallow-water and wave conditions.
- Development of protection means for foundations of offshore drilling platforms of gravity type against scour as a result of wave and current effect.

Basic parameters of the tank:

- Tank length 202 m
- Tank width 16 m
- Water depth 0–1.75 m
- Towing carriage speed 0.1–6.0 m/s
- Model length up to 10.0 m
- Regular waves:
- Wave length 1.0–10.0 m
- Wave height 0.02–0.35 m

Tank testing equipment:

- Powered towing carriage
- Pneumatic wave maker for regular waves
- End inclined wave damper with lowered sections
- Docks for model loading and ballasting
- Experimental site to study scour effect nearby offshore engineering structures
- Area for model preparation, adjustment and instrumentation calibration

UNIQUE EXPERIMENTAL OPPORTUNITIES

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