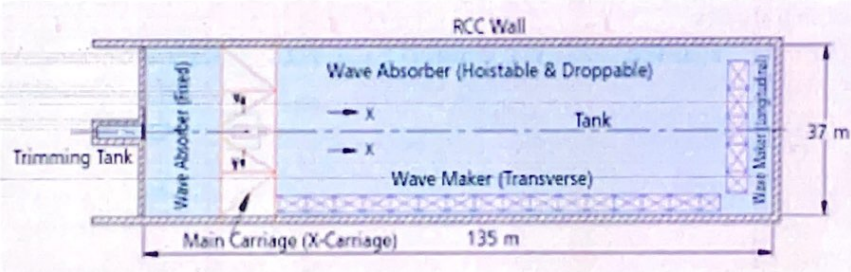


Name of Organization NAVAL SCIENCE AND TECHNOLOGICAL LABORATORY	Year of information updating 2023
Year Established 1969	Year of joining ITTC 1992
Address Vigyan Nagar, NAD Kotha Road, Visakhapatnam - 530027	Status in ITTC Membership renewal due
Contact Details Tel: +91 891 2586170 Fax: +91 891 2559464 Email : manu.korulla.nstl@gov.in	Website www.drdo.gov.in
Type of facility Hydrodynamic Testing Facility	Year constructed/ upgraded 2015
Name of Facility Seakeeping and Manoeuvring Basin	Location Same as above

Main Characteristics

Basin dimensions are 135 m X 37 m X 5 m.

Drawings of Facility



Detailed Characteristics

- Basin Dimensions : 137 m X 37.0 m X 5.0 m
- Max Speed of X Carriage : Forward speed 6 m/sec, Reverse speed 4 m/sec
- Max Speed of Y Carriage : 4 m/sec
- Wave Generators : 256 hinged flap type pedals
- Wave Height : Regular waves 0.5m, Irregular waves 0.35m
- Instrumentation : Computerized Multi Motion Carriage, Propeller drive system, Rudder drive system, Fin drive system, Relative wave probes, Hull slamming pressure probes, 3-component fin balance, optical tracking system

Applications

- Motion measurements in regular waves
- Seakeeping experiments in irregular and random seas for various wave headings
- Measurement of loss of speed in waves
- Rolling characteristics at various headings and speeds
- Captive manoeuvring tests to obtain hydrodynamic coefficients for mathematical model
- Free running manoeuvring trials
- Broaching of ship studies
- Dynamic of towed vessels under the action of waves
- Dynamic of moored vessels under the action of waves

Published Description (Publications on this facility)

None