

Name of organization National Iranian Marine Laboratory (NIMALA)	Year of information updating 2017
Year established 2013	Year of joining the ITTC 2017
Address Babaie highway, Tehran, I.R Iran	Status in the ITTC Member
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Type of facility Research center	Year constructed/upgraded 2013
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Name of facility NIMALA	Location (if different from the above address) -
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Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
The Nimala towing tank dimension is:

- Length: 400 m
- Width: 6m
- Water depth: 4 m
- Carriage speed : 0.1 – 19 m/s

Drawings of facility
Top-view plan



Cross-section-view plan



Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)

The carriage is a manned vehicle with dimensions of 7 * 7.6 meters. Its low speed motor is 0.5 to 5 m / s and its top speed is 4.5 to 19 m / s.

The wavemaker installed at the National Iranian Marine Laboratory has the ability to produce regular and irregular waves up to a maximum height of 50 centimeters.

The HPMM with dimensions of 3 * 7.6 meters, and can perform sway motion with amplitude 1.5 m and yaw motion with amplitude 30 degree

Propeller Self propulsion and open water test unit

Applications (Tests performed)

Benchmark model:

- Esso Oska tanker (resistance & manoeuvring)
- Kvlcc2 (resistance & manoeuvring)
- Suboff submarine

general model:

- Series b-wageningen Propeller
- Olofson propeller
- Fridsma planing model
- Series 60 (CB=0.6)

Commercial & other model:

- Tug boat
- Passenger catamaran ship
- Fishgauge
- Offshore jacket
- Offshore jack up
- Hydrofoil boat
- Floating wave breaker
- Caisson wave breaker

Published description (Publications on this facility)

- 1-experimental of hydrofoil effect on fuel consumption of semi displacement catamaran (in the review: journal of part m)
- 2-experimental study of effect of body distance on seakeeping behavior of planing catamaran in irregular waves(in Persian)
- 3- experimental study of duct effect on propeller performance of oil tanker(in Persian)
- 4- experimental study of interceptor effect on hydrodynamic coefficient of planing (in Persian)
- 5- experimental study of interceptor effect on longitudinal motion of planing vessels in calm water (in Persian)
- 6- experimental study of vertical acceleration of tug boat in regular (in Persian)
- 7- experimental study of added resistance of tug boat in regular (in Persian)
- 8- experimental study of hydrofoil effect in resistance of catamaran boat (in Persian)
- 9- experimental measuring of eso Osaka manoeuvring hydrodynamic coefficient (in Persian)
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