**Name of organization**
National Maritime Research Institute

**Year of information updating**
2016

**Year established**
2001 (1916 established as the Ship Equipment Inspection Station)

**Address**
6-38-1, Shinkawa, Mitaka, Tokyo 181-0004, Japan

**Year of joining the ITTC**

**Contact details** (phone, fax, e-mail)
[FAX] +81-422-41-3258  [E-mail ] info2@nmri.go.jp

**Website**
http://www.nmri.go.jp/english/research_facilities.html

**Type of facility**
Actual Sea Model Basin

**Year constructed/upgraded**
2010

**Name of facility**
Actual Sea Model Basin

**Location** (if different from the above address)

**Main characteristics** (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Length 80m Width 40m Depth 4.5m X-Y towing carriage, Wave generators around The Entire periphery of the basin, Wind generator

**Drawings of facility**

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

**TOWING CARRIAGES : XYΦ carriage**
Main Carriage : 8 Wheel 8 Motor Drive, Max Speed 3.5m/s
Sub Carriage : 4 Wheel 4 Motor Drive, Max Speed 3.0m/s
Turn Table : Max Speed 36 deg/s
Drive Mode : Manual, Auto(Straight, CMT, PMM, Oscillation) Tracking, User Program, External Input

**Wave Generators**
Segmented Flap Type Absorbing Wave Maker, 382 units
Capability : Wave Period 0.43 – 4.0 sec, Max Wave Height 0.35 m
Mode : Regular, Long-crested Irregular, Short-crested Irregular, Absorbing, User Program

**WIND BLOWER**
Coaxial Fan Max 8m Width (4m unit + 2m unit x 2)
Capability : Steady and Fluctuating Wind, Max Wind Speed 10.0m/s
Applications (Tests performed)
Model Size Range: Ship Length from 2 to 4.5m
Test Performed: Tests can be performed at Actual Sea Conditions
(1) Propulsion Tests
(2) Seakeeping, Wave Load and Wave Impact Load Tests
(3) Manoeuvring Tests
(4) Dynamic Stability and Capsizing Tests

Published description (Publications on this facility)
Actual Sea Model Basin, Papers of NMRI, Vol.10, No.4, 2011