**Name of organization**
National Maritime Research Institute

**Year of information updating**
2016

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

**Year of joining the ITTC**

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

**Status in 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**
Towing Tank

**Name of facility**
No.2 Ship Model Tank(400m Towing Tank)

**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 400m Width 18m Depth 8m Max. speed 15m/s

**Year constructed/ upgraded**
1966

**Drawings of facility**
Top-view plan

![Top-view plan](image1)

Cross-section-view plan

![Cross-section-view plan](image2)

**Detailed characteristics** (carriages, wave/current/wind generators, instrumentations, etc.)
Description of carriage: 1 manned, 4 motor driven
Type of drive system and total Power: Word Leonard system, 840kW(210 x 4 =840kW)
Maximum carriage speed: 15m/s
Other capability: Sub-carriage can be fitted
Wave generation capability: Regular and Irregular, Length 0.5 - 15m, Max. height 0.3m
Wave maker type and extent: Plunger type, 18m(4.5m x 4 segments)
Wave absorber and length: Beach-type impermeable single layered beach), 9.5m
Wave measurement: Ultrasonic, capacitance and optical type sensor
Instrumentation: Computer system for data acquisition and analysis.
Model size: Normal 6-8 m

**Section A-A**

**Section B-B**
<table>
<thead>
<tr>
<th><strong>Applications</strong> (Tests performed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Propeller open-water tests</td>
</tr>
<tr>
<td>(2) Resistance and self-propulsion test</td>
</tr>
<tr>
<td>(3) Maneuverability tests (PMM tests)</td>
</tr>
<tr>
<td>(4) Waves resistance increase tests</td>
</tr>
<tr>
<td>(5) Wave induced motion and loads on ships</td>
</tr>
<tr>
<td>(6) Hydrodynamic forces on submerged bodies, etc.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Published description</strong> (Publications on this facility)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report of SRI, Vol.6 No.4, 1969</td>
</tr>
</tbody>
</table>