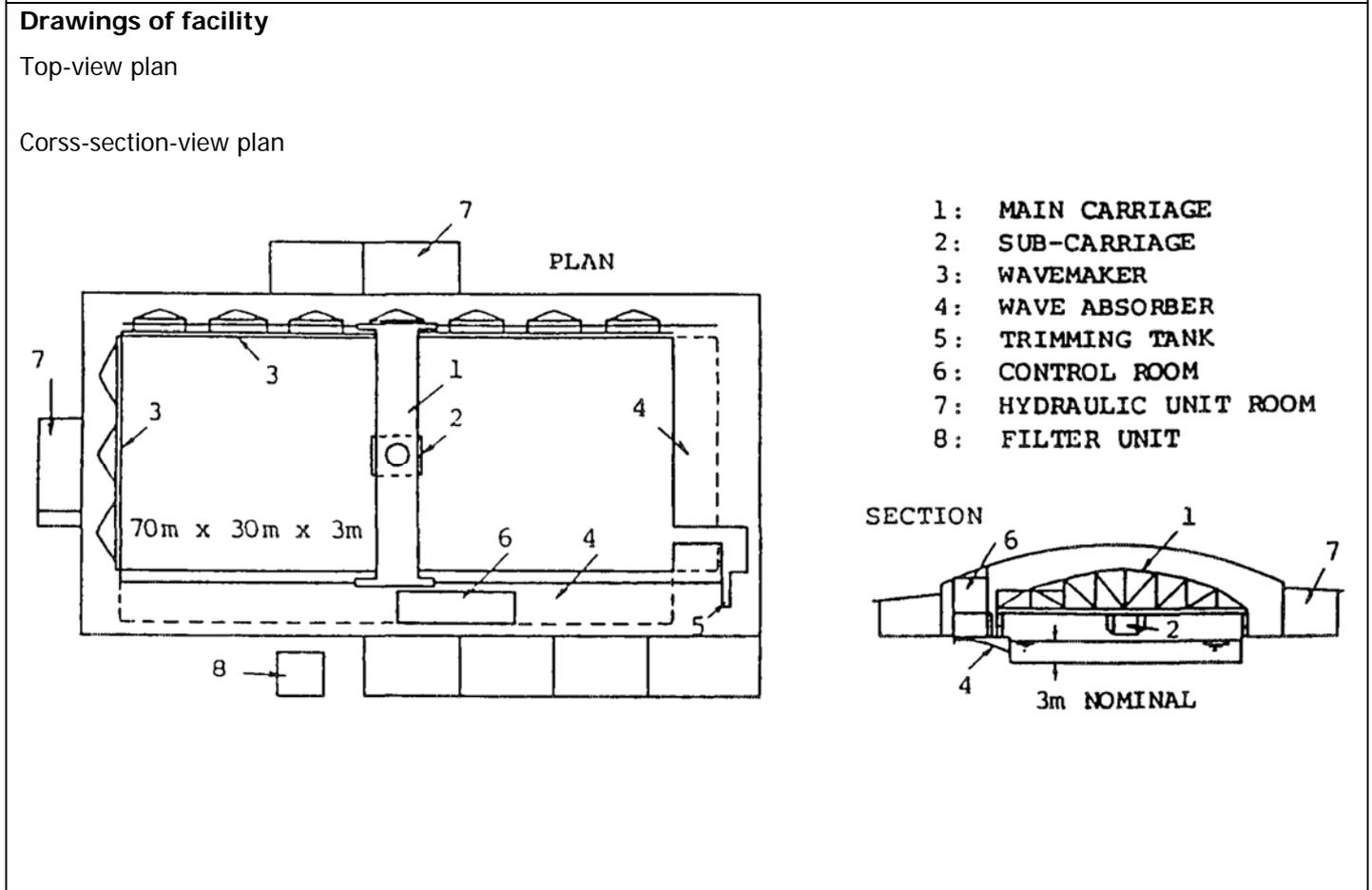


Name of organization Technical Research Center, Japan Marine United Corporation	Year of information updating 2016
Year established 2013	Year of joining the ITTC 2013
Address 1-3, Kumozukokan-cho, Tsu-city, Mie-pref. 514-0398 Japan	Status in the ITTC AC member
Contact details (phone, fax, e-mail) phone +81-59-238-6400 (administration group) fax +81-59-238-6442	Website http://www.jmuc.co.jp/

Type of facility Seakeeping and Manoeuvring Basin	Year constructed/upgraded 1975
Name of facility Seakeeping and Manoeuvring Basin	Location (if different from the above address) 1 Shin-Nakahara-cho, Isogo-ku, Yokohama-city, 235-8501 Japan Phone +81-45-759-2094

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Length 70m, width 30m, depth 3m



Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)
Carriages: driven by DC motors, controlled by PLC
Main carriage (longitudinal direction): maximum speed 2m/s
Sub carriage (transverse direction): maximum speed 2m/s, with rotating motor around vertical axis

Wave generators: flap type in two sides, width 30m and 70m
Wave generation capability: regular/irregular long crested wave, length 0.5-12m, maximum height 0.4m
Wave absorber: beach length 6m, width 30m and 70m

Instrumentation: data acquisition by PCs

Model tracking techniques: laser-optical position sensors for free-running models

Model size : 3.5m for conventional ships

Applications (Tests performed)

Hydrodynamic forces measurement on ships and marine structures, in calm water and waves

Wave induced motions and loads on ships and marine structures

Free-running model tests of ships and underwater vehicles

3-D wake measurement by PIV

Published description (Publications on this facility)

Proceedings, 14th ITTC vol. 4, 1975

Journal of Society of Naval Architects Japan, Vol. 137, 1975

IHI Engineering Review (J), Vol. 15, No. 4, 1975

IHI Engineering Review (J), Vol. 15, No. 5, 1975