Name of organization DSME Siheung R&D Center		Year of information updating 2020
Year established 2018		Year of Joining the ITTC 2020
Address 96 Baegot 2-ro, Siheung-si, Gyeonggi-do, Korea		Status in the ITTC
Contact detail (phone, fax, e-mail) TEL : +82-2-2129-3721 FAX : +82-2-2129-3770 E-mail : jgkang3@dsme.co.kr		Website www.dsme.co.kr
Type of facility Towing tank	Year constructed/upgraded 2018	
Name of facility DSME Towing tank	Location (if different from the above address)	
Main characteristics Length: 300 m, Width: 16 m, Depth: 7 m		
Drawing of facility		
105.0 50	300.0	145.0
	CAVITATION TU	OWING TANK 6 () () () () () () () () () (
 Detailed characteristics Towing Carriage Driven by AC servo motors (one for each wheel) (Low speed mode: 55 kW x 2 sets, High speed mode: 55 kW x 6 sets) Max. carriage speed: 8 m/s (max. acceleration: 0.5 m/s²) Wave generator 0.5m x 32 segments flap type, server motor driven, wet-back design Wave height of regular wave: H ≤ 0.6 m Range of generated wave periods: 0.5 sec ≤ T ≤ 10.0 sec 		

- Wave height for irregular wave: $H \le 0.4 \text{ m}$
- Type of generated waves: 2D long crested wave, 3D short crested wave
- Other facility
 - Front and side beach for wave absorber (permeable panel type)
 - Liftable floor for shallow water tests (water depth control range: 0.0 ~ 7.0 m)
 - Model ship lifter for test preparation in the trimming tank
- Instrumentation resistance dynamometers, propulsion dynamometers, Pitot tube rakes and five-hole Pitot tube, dynamic motion measurement devices, propeller open-water test system, PIV system
- Max. model size: Ship(wood) length 12 m, Propeller(aluminium) diameter 30cm

Applications (Test performed)

- Resistance test, Propeller open water test, Self-propulsion test, wake measurement, Local flow measurement by PIV, Streamline visualization
- Maneuvering (zig-zag test, Planar Motion Mechanism (PMM) test & Vertical Planar Motion Mechanism (VPMM) test, Free sailing test, Directional stability test
- Various tests in shallow water
- Seakeeping (Motions, Green water, Impact load, etc.) tests, Speed loss test in waves
- Various Pod / Azimuth thruster tests