

Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)	
Circular Basin : Depth	Depth : 5m
	Effective Diameter : 14m (Outside Diameter : 16m)
Deep Pit	Depth : 30m
	Effective Diameter : 6m
Active Absorbing Wave	Flap Type Snake System
Generator	128 active absorbing wave generators distributed along the circumference of
	circular basin can generate multi directional regular and irregular waves.
	Flap Size Width : 0.3m, Height : 2.5m
	Drive Unit : 0.8kw, A/C Servomotor, Ball screw drive
	Wave Period : 0.5 - 4.0s
	Max. Wave Height: 0.5m (2.0s)
Current Generator	Current generators can be installed in the circular basin and the deep pit.
	Max. Flow Velocity Upper ( circular basin ) : 0.35m/s, Lower (deep pit ) : 0.15m/s
Movable Floor	Movable floor can be lifted to reduce water depth in the deep pit.
	Max. Load : 1.0ton (dry)
	Range : 30m in deep pit
Underwater 3-D Measurement	Equipment for 3-dimensional measurement of the model dynamic behavior
System	Optical Device : High Resolution Digital Cameras (36 units )
Underwater Monitoring System	Monitoring equipment can be vertically moved in deep pit.
	Optical Device : 1/3-inch CCD Camera
Measurement Carriage	Main Carriage : X-Direction
	Sub Carriage : Y-DIrection It rans on the main carriage
	Z-Direction Range 3m
Gondola	Equipment for maintenance of the Deep-Sea Basin
	Max. Load : 350kg
	Range : 35m
Applications (Tests performed)	
(1) measurement of the behavior of riser scaled model	
(2)measurement of the motion of moored floater model in waves	
(3)measurement of the motion of floater model which is positioned by DPS in waves	
(4) measurement of pressure loss in pipes during hydraulic transport of solid particles	
Published description (Publications on this facility)	
Deen Sea Basin and Riser Technology (in Jananese)	
https://www.pmri.go.in/main/nublications/nangr/ndf	
Study on safety of the Ultra Deen Riser System (in Jananese)	
https://www.nmri.go.jp/main/publications/paper/pdf	