

FM11.xls Revision No: 02 Date: April 21, 2021

# STABILITY OF FLOATING BODY

**MODEL: FM11-G** 



## **FEATURES**

• Compact, comprehensive, sturdy design

## **DESCRIPTION**

The equipment is used to study and observe the various states of equilibrium attained by a floating body when its centre of gravity is displaced, leading to the determination of the Metacentric height of the floating body and hence illustrating the floatation characteristics.



### **INSTRUCTION MANUAL**

Self -explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual

### LIST OF EXPERIMENT

- Determination of the Metacentric height of a floating body.
- Comparison of actual results with theoretical predictions

### COMPONENTS

- Open Tank See model selection chart
- Floating Body
- Counter Weight
- Jockey Weight
- Angle of tilt measuring arrangement
- Scale
- Levelling screw

#### **SERVICES REQUIRED**

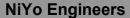
• Water

### **OPTIONAL ADDITIONAL**

• Cargo-ship arrangement

#### MODEL SELECTION CHART

- FM11G-A: Material of Construction: Transparent Acrylic
- FM11G-B: Material of Construction: MS Tank
- FM11G-C: Material of Construction: SS Tank and Ship



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