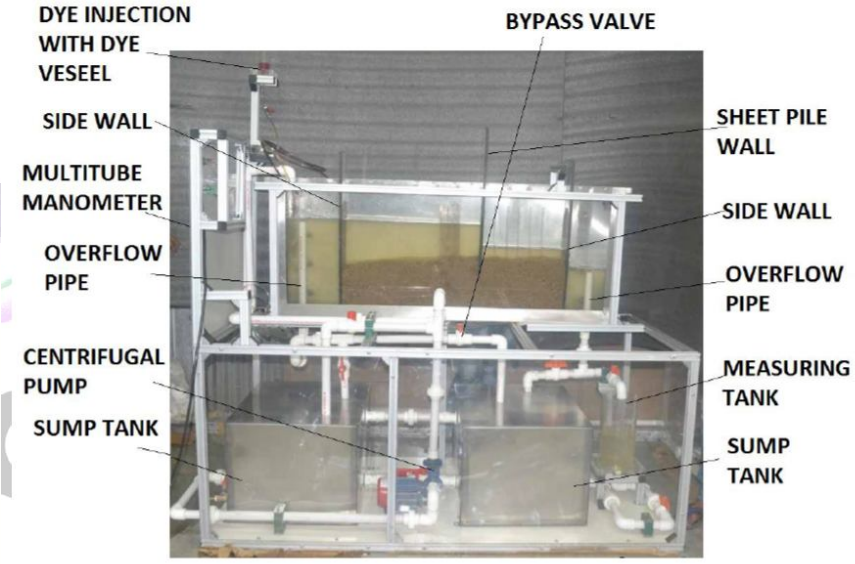
KFM-67

DRAINAGE AND SEEPAGE TANK DEMONSTRATOR



Features

- Self-contained unit designed for study of flow through permeable media.
- Tank made from non-corrosive materials & has toughened glass at Front for better visualization

Drainage and Seepage Tank Demonstrator Model KFM-67 has been designed for experimental study & visualization of flow through permeable media. The trainer consists of a Tank with Toughened Glass at front & Aluminum panel at the back. The toughened glass is scratch resistant & permits clear visualization of the process. The tank has two adjustable overflows at each end for maintaining a constant level inside the tank. A dye injection system allows dye to be injected through tapping on the back aluminum panel for visualization for flow pattern through the bed. Water is supplied from the sump tank using a centrifugal pump. Detailed Operation & Maintenance Manual is provided along with the trainer

Specification

- A self-contained facility for study of flow through permeable media.
- The tank has a toughened glass front and aluminium back to permit the insertion of pressure tapping as required. Six tapping points are provided
- The design of the side supporta allows free access to the interior with minimum sight.
- Supply includes sump tank, pump, starter and control valve. Also a dye injection system and a with Comprehensive instruction manual data sheets and student experiments.
- Working Section 1500mm X 100mm X 600mm.
- Basic Accessories
  - ~ Foundation pressure plate
  - ~ Straight permeable membrane
  - ~ Curved permeable membrane
  - ~ Lateral pressure plate
  - ~ Tile drain
- Overall Dimensions Length: 1.60m Width 0.60m Height: 1.45m

Note : Specification & Photos can be altered without notice in our constant efforts for improvement

Experiments Capabilities

1. Flow line visualization
2. Determining seepage rates
3. Flow net construction
4. Verification of Darcy's Law
5. Comparison of experimental results with analytical solutions

Typical student experiments include:

- Seepage underneath a sheet pile wall
- Seepage through an earth dam
- Control of seepage through permeable soils by sub-soil drainage
- Distribution of uplift pressure on hydraulic structures
- Reducing uplift pressure and lateral thrust by drainage
- Formation and behaviour of 'Quicksand'
- Stability of an earth dam
- Draining an excavation site using wells

Required Services

- Electric Supply 230 V AC, Single Phase , Earthed

The manual describing the theoretical and practical aspects of the apparatus, operation, analysis of results, and sample of results will be supplied with the equipment.

Note : Specification & Photos can be altered without notice in our constant efforts for improvement