

**ELECTRICAL ANALOGY APPARATUS      MODEL: FM08**



**RANGE OF EXPERIMENTS:**

- To draw flow net using electrical analogy for sudden contraction & sudden enlargement.

**DESCRIPTION**

Basic aim of this equipment is to verify the very fundamental Flow Net Rule. Flow lines and equipotential lines must always intersect at right angles. As we know, ground water flows through the voids in soil which are interconnected. This flow may be called seepage since the velocities are very small. Such water flows from a higher energy to a lower energy and behaves according to the general principles of fluid mechanics.

The experimental set up consists of a transparent tank of 400 X 450 X 75 mm. In this tank model under study is installed. A sample model arrangement is supplied with the setup.

A probe is mounted on an arrangement such that it can be moved in two directions. X and Y coordinate of the probe at each location can be noted using scale provided. Necessary potential can be given with the help of analogue field plotter

#### INSTRUCTION MANUAL

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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

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- To draw flow net using electrical analogy

#### COMPONENTS

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- Experimental Setup
- Analogue Field Plotter

#### SERVICES REQUIRED

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- 230 V AC single phase supply

### NiYo Engineers

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- (1) Since research and development is an on-going activity, the specifications mentioned herein are subject to change without notice
- (2) Photographs are indicative only