



Features:

- Mobile, bench mounted unit.
- Variable speed vanes for developing different velocities in the test section.
- SS or Non-corrosive materials used for the construction of flow channel & accessories.

Tesca Flow Visualization Bench consists of a flow channel made of Fiber Reinforced Plastic (FRP) with inlet, outlet tanks. The test section is formed between two walls. Two rotating impellers are driven by a variable speed DC Motor to force the water through the test section. A flow straightener is used to straighten the water flow through the test section. Different flow velocities can be attained by changing the speed of rotation of the vanes. Dye tracer medium is injected through the injectors in the stream of water to visualize the water flow lines. Different shaped models are available for testing the flow pattern around them.

Detailed Operation & Maintenance Manual is provided along with the trainer.

Technical Specifications:

- Flow Channel: Made in Fiber Reinforced Plastic (FRP) or SS304, Size 2.5 m x 0.5 m x 0.2 m (H)
- Straightener
- Stirrer Vanes: Made in Aluminum
- Drive Motor: Variable Speed DC Motor to drive the vanes,
- Light Source

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

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- Definition Image Capturing Camera.
- Transparent Acrylic Cover for the flow channel
- Base Frame: Made of Aluminum, with leveling screws.
- Bridge Piers Models:
 - a) Rectangular Models.
 - b) Cylindrical Models.
 - c) Square Models.
 - d) Profiled Rectangular Models.
 - e) Rectangular Models with Rounded Ends.
 - f) Asymmetrical Aerofoil Model.

Experiments:

Visualization of Flow patterns in a water channel.

Services Required:

Electric Supply 230 V AC, 16 A, Single Phase, Earthed.

Water Supply: Cold tap water supply & Drainage

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