

**FINAL YEAR PROJECT REPORT
DIPLOMA MECHANICAL ENGINEERING
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SHAH ALAM**

**COMPUTER AIDED FLOW ANALYSIS
IN A CAVITATION TUNNEL**

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ABSTRACT

This report presents the Computer Aided study of the flow conditions in a Cavitation Tunnel using the CFD software 'FLUENT'. A computer model of a Cavitation Tunnel is made and flow analysis are presented. The suitable geometry of the Cavitation Tunnel is found using different models and the exact location in which propeller specimens can be studied are identified. Suitable value of the velocity at the pumping zone is found using the number of trials on the computer model.

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- 2. Numerical results of Cavitation Tunnel**