

PROJECT DETAILS

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Name of project: Characteristic of Vehicle Aerodynamic

Working principle: The aerodynamics analysis was performed to study the flow behaviour of the air over the car body. The analysis includes the study of contour of pressure and velocity that impacts the car followed by an evaluation of the coefficient of drag. The technique to estimate drag is by using input of CFD to find the value of aerodynamic drag in terms of drag force and drag coefficient. Flow simulation in wind tunnel, 3D modelling software used CREO and analysis in ANSYS software.

Figure:



Application: To make an aerodynamic car body and analyze in an open wind tunnel.

Approximate cost:

- Wind tunnel model: 7500/-
- Fan: 1100/-
- Acrylic sheet: 600/-
- Pipes: 200/-
- Gum material: 300/-

Total cost: Rs. 9700/-

Internal Project guide:

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