



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

REPORT OF SKILL BASED MINI PROJECT

Title of Project: PROJECT BASED ON GEAR BOX

Introduction: A Gear Box is often called a transmission. Gear boxes simply refer to a set of gears and their casing, most commonly found in automobiles. Since most motor vehicle engines have high operating and idling speeds, transmissions allow the machinery to operate efficiently and even aid in slowing and shutting down machinery.

Description of Model

A gearbox is a transmission device which is used between engine's output shaft and the final drive in order to transfer required torque and power to the wheels of the vehicle, a gearbox consists of the set of gears (i.e. spur, helical, bevel, worm and epicycle depending on the types of gearbox used) which are arranged in a special fashion in order to provide required gear or speed ratios to the final drive of the vehicle, a gearbox usually comes with the specification speed transmission with a reverse, and an automatic transmission.

There are three types of gear boxes concentric, parallel, and right angle.

Applications of Model

Gear box is used in:

- Rail Vehicles.
- Oil and Gas.
- Mining.
- Cement.
- Power Generation.
- Turbo.
- Hydro Power.
- Wind and Tidal Energy.

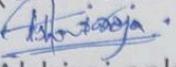
What I Learned Through Project:

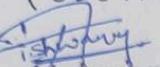
We have learnt about construction, Working, Function, Purpose, and Application of Gearbox.

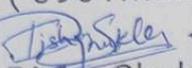
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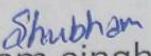
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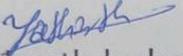

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