**60. Design and analysis of spur gear**

**Abstract**

Spur gears are used in automobiles where the power transmission is required to change speed, torque and direction of power transmission with heavy loads with smoother and noiseless operation.

Spur gears are generally used to transmit power or torque for transmission and other uses regularly in life. When compared to other kind of gear transmissions these spur gears are used at different speeds at different loads.

In this project we design the spur gear and perform the analysis by considering with different loads with different material by considering specific characteristics by using solid works premium 2014.