**Design and thermal analysis of connecting rod**

Connecting rod is one of the most important part in automotive engine. Connecting rod is the link between piston and crank shaft and it is responsible for the to and fro motion of piston, High compressive and tensile loads due to combustion are applied on connecting rod, it fails during operation of engine is in critical situation. So, the connecting able to with stand and transmits power smoothly. Connecting rod in automotives should be light in weight and consumes less fuel .When the connecting rod has more weight it consumes more fuel and it takes more time to take a movement.

The main objective of this project is to design and analyze the CONNECTING ROD with light weight materials and perform the thermal analysis with different material to select best preferable material. The cad model is generated in solid works premium 2014. And thermal analysis carried out in solid works simulation.