**Design and analysis of rocker arm**

A rocker arm is an oscillating lever that conveys radial movement from the cam lobe into linear movement at the poppet valve to open it. One end is raised and lowered by a rotating lobe of the camshaft, while the other end acts on the valve system.

In this paper we generate the model of rocker arm and perform the analysis with different materials for better durability, high resistance and strength. The analysis has been carried out to find out the maximum stresses developed in the rocker arm with different materials. In this we generate the cad models in solid works premium 2014 and perform the analysis by solid works simulation tool.