

## ABSTRACT

Sprockets are most widely used in automobile sector and in machinery. These are used in two wheelers and four wheelers such as bikes, cycles, cars and other mechanism either to transmit revolving motion between two shafts wherever gears are incompatible or to communicate undeviating motion to a pathway etc. They exist in various dimensions, teeth number and are made of different materials. Sometimes faulty chains quickly wear the sprocket. Possible causes of this problem are significant overload, breakage, high impact pressure, excessive chain wear far beyond replacement level, combination of worn chain with new sprockets etc. To ensure efficient power transmission chain sprocket should be properly designed and manufactured. There is a possibility of weight reduction in chain drives sprocket. Chain sprocket maintain frequently because easy wear to engaged places of gear tooth portion.