SHRI B.V.V SANGHA'S

BASAVESHWAR ENGINEERING COLLEGE (Autonomous), BAGALKOT-587102

DEPARTMENT OF MECHANICAL ENGINEERING

2013-2014

PROJECT REPORTED ON:

"A CASE STUDY ON IMPLEMENTATION OF HYDRAULIC JACK TO HEAVY LOADED VEHICLES"

PROJECT GUIDE	PROJECT CO-ORDINATOR	H.O.D
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Abstract

The main purpose of this project is to implementation of hydraulic jack to a heavy vehicles, due to these heavy loads on a vehicles the life the tire will be reduced. Whenever the vehicles is static condition the vehicles exerts point load on tire due to this load the wear of the tire takes place. So that the present of hydraulic jack increases the life of the tire and also it helps in reduction of transportation cost. And also it helps the user for changing of tires whenever they were busted or punctured.

Hydraulic jack system is attached to automobile vehicle on front and rear part of the chassis. An automobile hydraulic jack system can be easily attached to all currently manufacture automobile chassis and frames. There is a front suspension hydraulic jack that is mounted centrally to the front suspension of an automobile between its front wheels. There is also a rear suspension hydraulic jack that is mounted centrally to the rear suspension of the automobile between its rear wheels. The system operates from a compressed fluid reservoir tank that has connections for the front and rear truck jack outlets. Additional outlets can be added to the compressed fluid reservoir tank for connecting a hydraulic lug wrench and another for a tire inflating hose.