

**DESIGN AND FABRICATION OF POTHOLE ROAD
REPAIR MACHINE**

A PROJECT REPORT

Submitted by

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ABSTRACT

India has the second largest highway and road networks system on the world. There is a great need for the effective and efficient management and maintenance of the road network. During monsoon, one of the major problems regarding the traffic is Potholes. There might be a problem in repairing the same pothole several times during this season which causes a lot of expenditure on a single pothole.

Our project presents an endeavor to design and construct a prototype of a road repair machine. This machine is capable of filling potholes on road surfaces with easy maintenance. This machine is designed to reduce costs and complexity that have thus far been the primary disadvantage of automated road repair vehicles. Our pothole repair machine consists of chassis and various subsystems. The various subsystems, including handle, gravity drop down ramp, hand rammers, reservoir, wire brush unit, levelling unit. The wire brush unit and levelling unit are designed in such a way that they can be kept off the ground when not in use.

Keywords: *Potholes, Expenditure, Maintenance, Repair machine.*