

A Review Paper on Design And Fabrication of Road Cleaner

Suraj S. Jadhav¹, Rajendra S. Shigavan², Sanket S. Gurav³, Ashitosh R. Adhav⁴, Rupesh P. Ingole⁵

^{1,2,3,4} Dept of Mechanical Engineering

⁵Lecturer, Dept of Mechanical Engineering

^{1,2,3,4,5} Jspm Rscoe, Tathawade, pune, Maharashtra, India.

Abstract- The main motive of this project is to clean the road in colleges, hospitals, malls and workshops. The objective of this project work is to design and develop process for cleaning the road. It is useful for cleaning the road and ground surface. In modern days inside cleaning are becoming an important in our life cleaning of road is very important for our health and the road cleaning machine reduces the effort required for cleaning. It is very simple in design and easy to operate and little bit cheap, anybody can operate this machine easily. The road cleaning machine consist of broom, bevel gears, bearings and tires etc. and for reducing the cleaning time. The cost of this machine is also low. Such type of machines is widely used for this purpose but they are working under different fundamentals and the cost is very high. In recent years, road cleaning machines are getting more popular for cleaning large area in minimum time.

Keywords- Broom, Ground Surface, Road Etc.

I. INTRODUCTION

Cleaning machine is very much useful in cleaning around us like road and ground of Colleges campus and outside ground and public place etc. In modern days inside as well as outside cleaning are become most important role in our life. Many of road cleaning machines are available but we developed machine is very simple in construction and easy to operate. Anybody can operate this machine easily. Hence it is very useful in cleaning the cricket ground, any large area space. The time required for cleaning should be very less so the cost is also very less.it require less Maintenance cost. In this project we have made the machine to operate in a fully mechanical way components. The road cleaner is of very simple construction and is very easy to operate; anyone can operate it without any prior training of any sorts with safety. Cleaning is essential need of this generation. Basically in college campus, cricket ground, and road for cleaning regularly different rotary motion on the floor which cleans the dirt or dust.

1.1 PROBLEM STATEMENT

1. Find out the problem of road and ground surface cleaning.
2. In rainy season the water are spread on the corner of the road with the help of manual cleaning it cannot possible to remove all the water from surface therefore more effort required and it is difficult to clean rough surface of the road and takes more time for cleaning of the surface of road.

1.2 OBJECTIVES

The main objectives are follows:-

1. To create a machine that helps in quick clean the road surface.
2. Reduce human efforts.
3. To save the time as well as cost.
4. Easy to handle.

II. LITERATURE REVIEW

SHAHEBAZ AKHTAR, ZEESHAN FARAZ [1] in modern days interior decorations are becoming an important in our life cleaning of road is very important for our health and the road cleaning machine reduces the effort required for cleaning. Hence this project very useful in our day to day life. The multiple applications provide a wide range of we can clean around our environment due to cleaning machine. This project is very helpful for the roads and grounds and plays a vital role in cleanliness of the country

PRAVEEN H, HARISH GOWDA GR [2] in our project we are aimed to use easily available materials with low cost and it can be easily fabricated and easy to use and control. It is the better alternative for conventional machine.

SANDEEP J. MESHARAM, DR.G.D.MEHTA [3] at present we have few automated machines which are foreign made and can be used in our country but the fact is that those machine are designed keeping in mind that their road condition. Here, in India the road cleaning is done by an manual operation in ruler area which renders fatigue hazards like asthma, bronchitis etc.

M. RANJIT KUMAR, N. KAPILAN [4] the conventionally used materials were considered for the components of floor cleaning Machine.

III. METHODOLOGY

1. Design of road cleaning machine.
2. Material Select
3. Operations
 - A) Metal Cutting
 - B) Welding
4. Assembly of Parts
5. Testing

IV. SUMMARY

The main purpose of the project is to covered cleanliness around our areas. The cleaning around our environment due to cleaning machine. This project is mostly helpful for clean the surface of roads and grounds. As a whole this is a successful product developed that can be used in current our colleges, grounds and campus. The power saving and cost saving too mechanical road cleaning machine is designed and manufactured using less energy and limited worker who operated this. Manufactured machine is flexible and effortlessly operated. Manual Sweeping done by man might not be that effective as it will not be picking up everything in as it is not in sight but using the road cleaner it can be done easily.

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