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Group No: **1**

Guided By

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**Project Title**

**MANUALLY OPERATED FLOOR CLEANING MACHINE**

**Abstract:**

The Manually operated floor cleaning machine is most widely used in large area like airport platforms, railway platforms, hospitals, bus stands, molls and many other commercial places. These devices need an electrical energy for its operation and not user friendly. In India, especially in summer, there is power crisis and most of the floor cleaning machine is not used effectively due to this problem, particularly in bus stands. Hence it is a need to develop low cost, user friendly floor cleaning machine. In this project, an effort has been made to develop a manually operated floor cleaning machine. In this work, modeling and analysis of the floor cleaning machine was done using suitable commercially available software like Creo and ansys. The conventionally used materials were considered for the components of floor cleaning machine. From the finite element analysis, we observe that the stress level in the manually operated floor cleaning machine is within the safe limit. As we know that we clean floor surface at manually then required more amount of water and also required more time to clean floor surface. So, we try to reduce the working time and as minimum use of water. Also reduce less human effort. This machine work by battery power supply. In these machine two small pumps, motor, wiper, sprung roll and storage tank are used.

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