

DESIGN AND FABRICATION OF STAIRCASE CLIMBING TROLLEY

A Project report submitted
in partial fulfillment of the requirements for the award of
degree of
BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING

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CERTIFICATE

This is to certify that the project is entitled **DESIGN AND FABRICATION OF STAIR CASE CLIMBING TROLLEY**” being submitted by **P S N D PRASAD (14811A039)**, **S SAI RAJA (14811A03B2)**, **S KRUSHNA (14811A03B4)** and **T VAMSI (14811A03C4)** in partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** is a record of bondfied work done by them under my supervision during the academic year 2017-18.

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ABSTRACT

Trolleys are one of the important and supporting machines in transportation of the material for one place to other within the organization. Almost all manufacturing industries and workshops are using the trolleys for moving the material. The main issues associated are the design for proper application with better capacity to handle the load. The trolleys are capable for moving the heavy material with least efforts. These are also useful in shifting of household material specially in shifting of the house. We have identified the need of special design which can be used for moving the material with staircase. The design of the trolley for staircase is discussed in this paper in detail. This design is suitable mainly for multistory buildings where we can move the material with ease. Tri-Star wheels are used to up and down lift the load with fewer efforts. **KEYWORDS:** Trolley, Staircase Climbing Trolley, Tri-Star Wheels, etc