

PROJECT REFERENCE NO 36S1221

Visvesvaraya Technological University, Belgaum



**A Project Report
on**

**“DESIGN AND FABRICATION OF A
PORTABLE ELEVATING SYSTEM”**

Submitted in partial fulfillment of the requirements for the award of degree of

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

by

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ABSTRACT

Elevating an object means, to move it from a lower place to a higher place or position. The two most commonly used elevating mechanisms are ladder and lift/escalator. The ladder is a simple machine and needs no mechanical input for operation, where as a fully automated lift/escalator is a complicated machine which needs more power supply and used when high load needs to be lifted. There is a need for a system which lies between the existing distinct levels of elevating system. The system/instrument for lifting small/medium loads to medium heights by either power supply or mechanical energy is rarely found in the Indian market.

The main objective of the project is to design and develop a user friendly, portable elevating system/device which can be used by both electrical and mechanical energy and is expected to be of use for both domestic and industrial purposes.

KEY WORDS: Elevation, Lift/escalator, Ladder, User friendly, Portable, Both electrical and Mechanical.