

**VISVESVARAYA TECHNOLOGICAL
UNIVERSITY BELGAUM, KARNATAKA**



A PROJECT ON

“BATTERY DRIVEN HAND CART”

A KSCST sponsored project

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In partial fulfillment of the requirement for the degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

(VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM)

Under the guidance of:

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ABSTRACT

Battery driven hand cart is a advanced version of hand carts which is driven with the help of battery power and can carry load up to 2500N with the unloading facility. It is a cart which is mainly used for industrial purpose like in industrial shop floors and in agricultural sectors. It is used to carry the load from one point to another without the application of human effort. This project includes the fabrication of the hand cart. Presently battery driven hand carts are not available in the market which adds on to the projects credits.

This hand cart to be designed and fabricated and has few objectives like less expensive, easily unloading, less maintenance, designed to specification, reduce man power, and also the fact that it is very reliable.

The major components of the hand cart are base frame, bucket, electric hub motor, unloading jack, batteries, harnessing circuit, controller, converter, Trolley wheels, Base plates, supporting flats, steering etc.

The main attractive feature about this hand cart is that it has variable speed which can be varied by the operator. There is a provision for high and low speed torques. The hand cart can be turned to an angle of 360degrees which makes more customers friendly.

Keeping all these aspects the hand cart is been designed and fabricated which is customer and eco friendly. Introducing this product in the market will have a valuable demand for the product by both industrial and agricultural sectors.