



Karnataka State Council for Science and Technology

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Dr. S. G. Sreekanteswara Swamy
Executive Secretary

24th April 2017

Ref: 7.1.01/SPP/ 1868

The Principal,
Alva's Institute of Engineering and Technology,
Shobavana Campus,
Mijar,
Moodbidri - 574 225.

Dear Sir,

Sub: Sanction of Student Project - Series: Year 2016-2017
Your Project Proposal Reference No.: 405_BE_0862

Ref: Your Project Proposal entitled "AUTOMATIC WHEEL CHAIR CUM BED"

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 40TH Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. MOHAMMED SHAFEEQUE T P and OTHERS	Budget	Amount (Rs)
		Materials/Consumables	5000.00
Guide/s	PROF. DEEPAK KOTHARI	Labor	500.00
		Travel	500.00
Department	Mechanical Engineering	Miscellaneous	500.00
		Report	500.00
		TOTAL	7000.00
	RUPEES EIGHT THOUSAND		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your project sanction reference number printed above in all your future correspondences.
- Important:** After completing the project, 7 to 1 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords


PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



A project report on

“AUTOMATIC WHEEL CHAIR CUM BED”

Submitted in partial fulfillment of the requirements for the degree of

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

By

MUHAMMED SHAFEEQUE T P	: 4AL13ME724
MUHASID P	: 4AL13ME725
SHYAM M S	: 4AL13ME743
SINTO SUNNY	: 4AL13ME744

Under the Guidance of

MR. DEEPAK KOTHARI

Asst. Professor AIET, Mijar



Department of Mechanical Engineering

ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

2016 – 2017

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Mijar, Moodbidri D.K. -574225 – Karnataka



DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Certified that the project work entitled "**AUTOMATIC WHEEL CHAIR CUM BED**" is a bonafide work carried out by

MUHAMMED SHAFEEQUE T P	: 4AL13ME724
MUHASID P	: 4AL13ME725
SHYAM M S	: 4AL13ME743
SINTO SUNNY	: 4AL13ME744

Are bonafide students of Alva's Institute of Engineering and Technology in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **MECHANICAL ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2016-2017. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

D.R. Kothari

Mr. Deepak Kothari
Project Guide

[Signature]
13/6/17

Prof. K V Suresh
Head of the Department
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

[Signature]

Dr. Peter Fernandes
Principal
PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

Name of the Examiners

1. Ydl Sy. S.R.P.O. M
2. Mohan Kumar

Signature with Date

[Signature] 24/6/17
[Signature] 27/6/17

ABSTRACT

The main aim of our project is to build a wheel chair cum bed model which acts as both wheel chair and when as stretched it can be used as a bed. The wheel chair cum bed model is a mechanism which is used for moving the bed up and down. This is used for handicapped / paralyzed person for in order to lead a normal life as other persons do. For making the handicapped person's job easy (i.e., they can move bed up and down). The wheel chair is particularly used for the physical disabled persons. It can be used for taking books from the self, taking dress from the self's and this also can be used for cooking. The stretching movement of the wheel chair is done by a suitable pneumatic system. This arrangement is fixed in the wheel chair bed. The power supply to the motor is given by using battery.