

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELGAUM-590014

13

KARNATAKA



A Mini Project Report On:

"ELECTRICITY GENERATION FROM SPEED BREAKERS "

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

BACHELOR OF ENGINEERING

IN

ELECTRICAL & ELECTRONICS ENGINEERING

SUBMITTED BY:

NAZMEEN KHANUM M 1SV19EE011

PRIYADARSHINI R 1SV19EE012

SULTANA KHANAM A 1SV19EE017

UNDER THE GUIDANCE OF:

Mrs.UMABAI M.E., MISITE

Asst. Prof. Dept of EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS
ENGINEERING**

**SHRIDEVI INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

Sira Road, Tumkur-572106

2021-2022

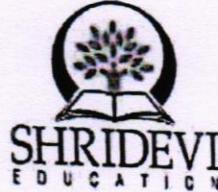
**PRINCIPAL
SIET., TUMAKURU.**

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An ISO 9001:2008 Certified Institution)

Sira Road, Tumkur -572106

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

Certified that the project work entitled "ELECTRICITY GENERATION FROM SPEED BREAKERS" Carried out by NAZMEEN KHANUM M 1SV19EE011, PRIYADARSHINI R 1SV19EE012, SULTANA KHANAM A 1SV19EE017 bonafide student of SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR 572106, in partial fulfillment for the award of degree Bachelor of Engineering in ELECTRICAL & ELECTRONICS ENGINEERING of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2021-2022. It is certified that all corrections / Suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Electricity Generation from speed breaker work prescribed for the said Degree.

Signature of the Guide

Mrs.UMABAI_{ME,MISITE}

Assistant Professor

Dept of Electrical & Electronics

Engineering

SIET ,Tumkur

Signature of the HOD

Mr. G H RAVIKUMAR_{M.E(PH.D),MISIT}

Professor & Head

Dept of Electrical & Electronics

Engineering

SIET ,Tumkur

Signature of the Principal

Dr.NARENDRAVISWANATH_{Ph.D}

Principal

SIET ,Tumkur

External viva-voc

Name of Examiners

1) Tanya K.S

2) Shubha TM

Signature with Date

Tanya K.S. 28/7/22

Shubha TM 28/7/22

PRINCIPAL
SIET, TUMAKURU.

DECLARATION:

We are NAZMEEN KHANUM M(1SV19EE011), PRIYADARSHINI (1SV19EE012), SULTANA KHANAM.A(1SV19EE017) students of VI Semester, Bachelor Of Engineering in Electrical & Electronics Engineering at Shridevi institute of Engineering and Technology, Tumkuru , Karnataka, hereby declare that, this Mini Project work titled "ELECTRICITY GENERATION FROM SPEED BREAKER" is an original and bonafide work carried by us at S.I.E.T Tumkuru, in partial fulfillment of Bachelor Of Engineering by the Visvesvaraya Technological University,Belagavi-590018 during the academic year 2021-22. We also declare that, to the best of our Knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

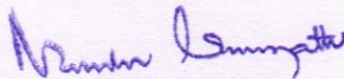
Date: 28/7/22

Place:Tumakuru

NAZMEEN KHANUM M
(1SV19EE011)

PRIYADARSHINI R
(1SV19EE008)

SULTANA KHANAM A
(1SV19EE017)


PRINCIPAL
SIET., TUMAKURU.

ACKNOWLEDGEMENT

I take this opportunity to convey my deep sense of gratitude to all those who have been kind enough to offer advice and assistance when needed which has led to the successful analysis and design of this project work.

I wish to thank **Dr. MR HULINAYKAR**, Founder and Managing Trustee, SIET Tumkur for providing me the opportunity to carry out my studies in the institution.

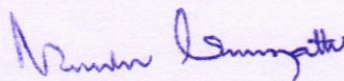
I extend my sincere thanks to our Principal **Dr. NARENDRA VISWANATH** for his co-operation and encouragement.

I am grateful to **Mr. G H RAVIKUMAR**, HOD for his constant encouragement and support.

It is my pleasure to express my deep sense of gratitude to my guide **Mrs. UMABAI Asst.**, Professor, Department of Electrical & Electronics Engineering, SIET Tumkur for his much needed support and help in needed sphere, for his guidance, keen interest and ever available help during execution of this dissertation work.

I would like to express my profound sense of gratitude to our institution and management "**SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR**", which has provided me an opportunity in fulfilling my most cherished dream.

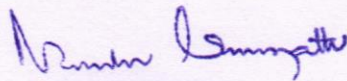
I thank all the Teaching Staff and Non-Teaching Staff of Electrical & Electronics Engineering Department, SIET Tumkur. Special thanks to my friends who have directly or indirectly helped during this dissertation work.



PRINCIPAL
SIET., TUMAKURU.

Abstract

In the present situation power becomes basic need for human life. Energy is responsible for major developments of increasing day by day and the conventional energy sources are diminishing. Moreover, these conventional energy sources are polluting and responsible for global warming. So, non-conventional sources are needed to be developed for power generation which are clean, environment friendly and sustainable. In this research propose a renewable non-conventional based on speed breaker mechanism. Our project is to enlighten the streets utilizing the jerking the pressure which is wasted during the vehicles passes over a speed breaker in road side. We can tap the energy generated by moving vehicles and produce power by using the speed breaker as generating unit. Conventional energy sources generate most of the energy of today's world. The kinetic energy of the moving vehicles can be converted into mechanical energy through rack and pinion mechanism and this mechanical energy will be converted into electrical energy using generator which will be used for lightening the street lights. Therefore by using this mechanism we can save lot of energy which can fulfil our future demands.



PRINCIPAL
SIET., TUMAKURU.