

A

Report on

ELECTRICITY GENERATED FROM SPEED BRAKERS

A report submitted for the partial fulfillment of the requirements for Mini Project of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

KEERTHI ROHINI (19811A0422)

Under the guidance of

Mr V Raju M.Tech

Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

TAMARAM, MAKAVARAPALEM, NARSIPATNAM-531113

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# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Tamaram, makavarapalem, narsipatnam road, Visakhapatnam dist-531113

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### MINI PROJECT

### (ELECTRICITY GENERATED FROM SPEED BRAKERS)

BY

NAME:KEERTHI ROHINI

REG NO:19811A0422



INTERNAL COORDINATORS



EXTERNAL EXAMINER



HOD, ECE

HEAD OF THE DEPARTMENT  
DEPARTMENT OF ECE  
Avanthi Institute of Engg.&Tech.  
Makavarapalem, Visakhapatnam Dist-53- 113.

## **ELECTRICITY GENERATED FROM SPEED BREAKERS**

### **ABSTRACT**

Energy is the primary need for survival of all organisms in the universe. Everything what happens in the surrounding is the expression of flow of energy in one of the forms. But in this fast moving world, population is increasing day by day and the conventional energy sources are lessening. The extensive usage of energy has resulted in an energy crisis over the few years. Therefore, to overcome this problem we need to implement the techniques of optimal utilization of conventional sources for conservation of energy. Project includes how to utilize the energy which is wasted when the vehicles pass over a speed breaker. Lots of energy is generated when vehicle passes over it. We can tap the energy generated and produce power by using the speed breaker as power generating unit. The kinetic energy of the moving vehicles can be converted into mechanical energy of the shaft through rack and pinion mechanism. Then, this mechanical energy will be converted to electrical energy using generator which will be saved with the use of a battery. The energy we save during the day light can be used in the night time for lighting street lights. Due to population explosion the current power generation has become insufficient to fulfil our requirements in this project we discover technology to generate electricity from speed breakers.