VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELAGAVI-590018, KARNATAKA

Project Report (15EEP85)

on

"AUTOMATED ELECTRIC VEHICLE CHARGING STATION"

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

BACHELOR OF ENGINEERING
IN
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted By

BASAVARAJ C.S.	**(1SV14EE003)**
TRIVENI .T	**(1SV15EE034)**
MEENAKSHI .A	**(1SV16EE402)**

Under the Guidance of:

Mrs. UMABAI M E, MISTE
Asst. Professor Dept. of EEE,
SIET, Tumkur.

SHRIDEVI
EDUCATION

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SIET., TUMAKURU.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Sira Road, Tumkur – 572106, Karnataka.
(Affiliated to VTU Belagavi, Approved by AICTE New Delhi, an ISO 9001:2015 Certified Institution)

2021-2022

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

[Affiliated to VTU, Belagavi]

Sira Road, NH-4, Maralenahalli, Tumakuru, Karnataka – 572106

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

SHRIDEVI
EDUCATION

CERTIFICATE

Certified that the Report of project work entitled "AUTOMATED ELECTRIC VEHICLE CHARGING STATION" carried out by **BASAVARAJ.C.S (1SV14EE003), TRIVENI.T (1SV15EE034), MEENAKSHI.A (1SV16EE402)**, a bonafide students of **SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR-572106**, has successfully carried out the project work in partial fulfillment for the award of **Bachelor of Engineering** in **Electrical And Electronics Engineering** of the **Visvesvaraya Technological University**, Belagaviduring the year 2021-2022. All the corrections/suggestions indicated for internal assessments have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for Bachelor of Engineering Degree.

Signature of Guide	Signature of HOD	Signature of Principal
Mrs. Umabai	**Prof. G H Ravikumar**	**Dr. Narendra Viswanath**
M.E,MISTE	M.Tech,MISTE	Ph.D
Asst. Professor	**HOD and Asst. Professor**	**Principal**
Dept. of EEE	**Dept. of EEE**	**SIET, Tumkur-06**
SIET, Tumkur-06	**SIET, Tumkur-06**	

External Viva

Name of the Examiners:	Signature with Date:
1. G.H. RAVIKUMAR	G.H. Ravi 28.7.22
2. Tanuja K.S	Tanuja K.S 28/7/22

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ABSTRACT

In present day scenario availability of petrol/diesel is a major problem and price of petrol/diesel is an ongoing crises. As fuel is in a stage of extinction it is not easily available at affordable price for common man. So solution for this is Electric Vehicles but people are hesitating to buy these vehicles as the battery charge may go down and vehicle may stop in the amid of the road.

The solution we have found for this problem is **"EV CHARGING STATION"**. The EV CHARGING STATION is a system in which the user inserts a currency and the power will be available at the load relative to the inserted currency. So that user can charge his device.

These EV CHARGING STATIONs are placed in public places so that users can make avail of this by charging their Electric vehicles, mobile phones and digital camera.

Electricity is one of the basic requirements of human beings which is widely used for domestic, industrial purpose, agricultural purpose and now-a-days widely for electric vehicles. There is a great demand for electricity in spite of very well developed alternate sources for electricity.

If we are willing to charge our electric vehicles, digital cameras, mobile phones etc in a public place there is no option for easy charging or if option is there then either the user or the render will end up with loss as there will be no proper payment.

In this project we are introducing a system known as Ev Charging Station, which helps the user to charge their device in public place without incurring loss to both render and user. When user swipes his/her RFID card, based on the amount typed, the desired power will be drawn for charging of the load.

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