

# Smart Management of EV Charging Station Using RFID Card

**Ms. Sankpal Rutuja Dilip, Ms. Kondake Rutuja Dnyaneshwar, Ms. Bhagat Vaishnavi Dipak, Prof. Bhosale A.P**

Navsahyadri Education Society's Group of Institutions, Polytechnic, Pune, Maharashtra, India

**Abstract:** *With an increased number of Electric Vehicles (EVs) on the roads, charging infrastructure is gaining an ever-more important role in simultaneously meeting the needs of the local distribution grid and of EV users. This paper proposed system RFID system for user identification and charging authorization as part of a smart charging infrastructure providing charge monitoring and control. The RFID provides a cost-efficient solution to identify and authorize vehicles for charging and would allow EV charging to be conducted effectively while observing grid constraints and meeting the needs of EV drivers. The vehicle charging is based on voltage level. In this system we can monitor our charging level through the server at any where any time using IOT*

**Keywords:** IOT

## REFERENCES

- [1] Maria Carmen Falvo, Danilo Sbordone and I. Safak Bayram, Michael Devetsikiotis, "EV Charging Stations and Modes: International Standards", 2014 International Symposium on Power Electronics, Electrical Drives, Automation and Motion
- [2] Michail Vasiladiotis, Alfred Rufer, "A Modular Multiport Power Electronic Transformer with Integrated Split Battery Energy Storage for Versatile Ultra-Fast EV Charging Stations", IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS 2013
- [3] <http://www.GitHub repository>
- [4] <http://www.Media Pipe GitHub repository>
- [5] <http://www.OpenCV documentation>
- [5] <http://www.Google.com>