

## ABSTRACT

We are in the stage of stepping into the Electric vehicle as the fossil fuels are in the peak price and may end up high demand in the future, Electric vehicle is best alternatives for fossil fuels vehicles, Electric vehicles are pollution free. Though the electric vehicle has a limitation that it needs to be depended only on external power source for charging the battery. Electric vehicle cannot be used for a long drive as it have a less efficiency oftravelling distance and less availablity ofcharging stations. As an secondary charging option self-charging method is developed for charge the battery while the vehicle is in the movement with the help of dynamo which is connected to wheels. But it generates power with a some fluctuations,This may cause battery heat and any fire accidents, So we have come up with a solution to avoid the incidents by charging the battery with constant voltage flow without fluctuations by the help of Maximum Power Point Tracking (MPPT) system. In this project a mini model vehicle is developed with 12V Batteries, 100 RPM drive motor,300 RPM dynamo.

**Keywords:** Electric vehicle charging, Self-Charging E-Vehicle, Maximum Power PointTracking,