FINAL YEAR PROJECT REPORT

ENVIRONMENT FRIENDLY ELECTRIC MOTOR BIKE WITH SOLAR POWER STATION

In fulfillment of the requirement
For degree of
BEE (Electronics)

By

MUHAMMAD BILAL CHOUDHARY	**25409**	**BEE(ELECTRONICS)**
ARSLANAZHAR	**25406**	**BEE(ELECTRONICS)**
MUBASHIR ISHAQUE	**25400**	**BEE(ELECTRONICS)**
JUNAIDUR REHMAN	**25379**	**BEE(ELECTRONICS)**

SUPERVISED

BY

DR.ENGR. HAROON RASHEED

BAHRIA UNIVERSITY (KARACHI CAMPUS)
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ABSTRACT

In the world there are many types of bike or Bicycle such as regular bicycle that people want to paddle for it to move, motorized bicycle or bike that uses fuel as its prime power and electric bicycle that can only be sufficient for very less time. Due to of some weaknesses and error in the current system the concept of developing a solar E-Bike came in our mind. The concept was to develop such a E-Bike that provide enough battery backup or more distance cover and can be automatically recharge when the E-Bike is not in use through the solar panel. The high torque producing motor is mouted in the bike and motor is getting energized through battery is going to be charged through solar panels. The solar energy is used to generate the power. The power absorbed by the solar module will be stored in battery, in form of charging and through battery power is provided to motor. When the E-Bike is not in used during the day, E- Bike is parked in the solar power station for battery charging. The system that designed in form of "E-Bike" is operating more efficiently and the speed is increased too.

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