

## ABSTRACT

In an age of technological developments such as this power is a very important energy source. This is because electricity has a wide range of functions, eg for mobile mencharger. But the electricity is always synonymous with PLN, because PLN electricity producing company in Indonesia. To them came forth a thought to using a mobile phone charger voltage source alternative is to use the accumulator motorcycle.

In this Final Project has a principle with a drain voltage of the accumulator to the motorcycle by changing the mobile phone battery charger in the circuit. Charger comes from the factory performance by changing the electrical current from the AC voltage to DC PLN towards the battery. In the accumulator charger is different because the accumulator already have current DC which will leave it up to process the same voltage with the voltage mobile phone battery need. Accumulators on this bike will not zwak because the electrical system in motorcycle accumulator can be charged if the motorcycle moves back and regulator rectifier able to supply power to the accumulator. For this charger itself is used LED lights and switches, to be used as an indicator LED that indicates charger in a state of "ON" and switch used to turn off the charger itself. The switch is useful if when you're driving and the battery is full, the driver does not need to stop the vehicle simply by turning off the switch alone.

The output of this final project is a device that can charger mobile phone by using accumulators on two-wheeled vehicles. This phone charger is not portable but can only has function in the two-wheeled vehicles. This charger 210 mA current issue and the voltage of 5.51 V for the two diodes and a current of 261 mA and voltage of 6.07 V for the three diodes.

**Keywords:** *Charger, LED, AC, DC, ACCU, Regulator Rectifier.*