

Case Study – 4	Optimize Power Consumption at Ball Mill Motor by Installing Timer Based ON-OFF Controller
Before CP	The ball mills are one of the major electricity consuming equipment, since the batch time for the material preparation varies from 5 to 6 hours; the plant is operating 5 nos. of ball mill and since the material processing require 5 hours operation for required material properties, the manual dependency on operator results in additional operation of ball mill motors.
After CP	In order to reduce unnecessary operation of ball mills, a simple programmable timer based ON-OFF controller will automatically switch OFF the motor of ball mill on completion of programmed time.
Benefits	
Environmental	Reduction in the electricity consumption by 4520 units per year, ultimately reducing the carbon footprints to the environment.
Economical	Investment: Rs. 25,000/- (for ON-OFF Timer) Approx. Annual Savings: Rs. 33,900/- per annum Payback Period: 9 months