

Case Study – 5	Implementation of ON - OFF Controller (10 minutes ON and 5 minutes OFF) for Agitation Motors
Before CP	In agitation section, agitators are provided in underground tanks to maintain the uniformity of the slurry. These motors operate for about 24 hours in a day. Agitation is a necessary operation to maintain the quality of the slurry and not to let it settle down and deposit as dry, however, there is a scope to save energy in it.
After CP	Installation of automatically ON - OFF system on the agitator motors do not affect the uniformity (quality) of slurry but gives saving in electricity consumption in agitator motors. This system automatically switches ON agitator motors for about 10 minutes and then switches OFF for about 5 minutes. This means that in one hour agitator motors operate for about 40 minutes and remain switch off for about 20 minutes. This could result in approximately 30% saving in electricity consumption of agitator motors.
Benefit	
Environmental	Reduction in the electricity consumption by 1760 units per year, ultimately reducing the carbon footprints to the environment.
Economical	Investment: Rs.8,000/- (for timer based ON-OFF controller) Approx. Savings: Rs. 13,200/- per annum Payback Period: 8 months