

## ABSTRACT

With more advanced technology, people began to incorporate technology in their daily lives. This technology is function to help the human performance to get the job effectively and produce a good quality. It also can be applied to the farm. At this time, technology has not reaching into the farming that caused the breeder farms experiencing problems that are difficult to overcome. One of them is the feeding on the cattle. The process for cattle feeding is vital for the cattle quality. This is a problem for the breeders who have cattle in a large numbers, such as chickens.

In the implementation of the Final Project is made of a control system implementation for laying hens cage (automatic feeder with sms). Chicken feed system is divided into two segments, one segment is used large container as accommodating place for food supplies and one segment again is used conveyor as container of chicken feed. To regulate the flow of chicken feed, use a tool called a "Stopper". Stopper consists of a doorstep (solenoid) to regulate the flow of chicken feed. For the Automatizazion used RTC ( Real Time Clock). This RTC also have a function for identification the food supply who have exhausted and send the notification SMS (Short Message Service) which is driven via the gsm module as a sign to the breeder. Level warning SMS System is occurred at 15.00 or when the chicken feed was discharged from the stock on the feeds reservoir. On the conveyor or feed container will be distributed feed chickens have come down from the bird reservoir.

This feeder feed system can work well for distributing chicken feed. In used, this feeder feed system can be controlled by a microcontroller via the Real Time Clock. For level warning sms system on the applicationed has been running.

**Keywords:** Laying Hens, Conveyor, Solenid, Real Time Clock, and SMS