ABSTRACT

Mushroom cultivation now starts to attract large attention of businessmen on various scale. This is because mushroom cultivation is currently on the rise and promising huge profit. The problem behind it lies on the method of the cultivation, especially in Indonesia, which still use the traditional method. Most of mushroom cultivation still use the manual way. This resulted in inefficiency of mushroom production itself, which keeps the percentage of production failures high because of the less ideal condition of kumbung mushrooms, which includes temperature, humidity, light intensity, etc. This problem generates an idea for designing Smart Mushroom Cultivation where farmer can monitor temperature, humidity and light intensity inside the kumbung so the kumbung will always be on its ideal condition. The farmer doesn't have to worry if the temperature, humidity or pH inside the kumbung is not as it should be because the system will automatically adjust them to its ideal conditions. The system is also connected to the GSM (Global System for Mobile Communication) module that will send information about the current condition inside the kumbung through short message service (SMS) to the farmers.

Keywords: Smart Mushroom Cultivation, Smart Monitoring System, GSM