



BELGAUM-590 014

“Automated Vermicompost Plant”

Undertaken by

SYNTHESIS WINDING TECHNOLOGIES Pvt. Ltd.

A project report submitted to Visvesvaraya Technological University in partial fulfillment of the requirement for the award of degree of Bachelor of Engineering in Electronics & Communication Engineering

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ABSTRACT

Better agricultural products are produced through the natural fertilizers, so natural fertilizers are much preferred than the chemical fertilizers. The vermicompost is one such natural manure. The efficient manufacture of the vermicompost can help in the betterment of agricultural products. For that purpose an automated system is proposed in this paper, the system “Automated Vermicompost Plant”, provides the required environment for the worms to produce the manure in efficient way that in turn helps in the improvement of agricultural fields.

Vermicompost is a natural fertilizer produced by the decomposing operation of earthworms. For the efficient manufacturing of the vermicompost, we have to maintain the proper growth environment for the worms, so that they can produce the manure in efficient way. That is monitored by using the temperature sensor, moisture sensor and methane sensor and the control operation is done through the microcontroller. Then the data interface is performed through the Bluetooth module to an android device and all the procedure is described in this project.