



## **Recycling of Waste Rose Flower (*Rosa Berberia*) Through Vermicomposting Using Earthworm Species *Eisenia Foetida* and *Eudrilus Eugenia***

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### **ABSTRACT**

*Vermicomposting is the method of disposal of biodegradable waste using selected species of earthworms into black earthy smelling nutrient rich humus. Earthworms are considered as the friends of farmers. Vermicomposting obtained with the help of them has many benefits to soil, plants and in all to the environment. In this technique soil microflora also play important role. In the present study the nutrient status and microbiological enumeration of vermicomposting was studied. The Vermicomposting was prepared from flowers obtained from temples and other sources. Devotees of different religion and faith use different kind of worship materials while offering prayers and performing rituals at their respective places. The present research work reports the Vermicomposting of waste Rose flowers collected from the Lord Sai temples using Eisenia foetid and Eudrilus Eugenia species of earthworms in vermicomposting pit established by P.G. Dept. of Env. Sciences, A. N. College, Patna. Moisture content, temperature and pH of composting material were maintained and recorded at regular intervals. Vermicompost samples were collected separately at the end of 45 days, 60 days, 90 days and analyses for various physicochemical parameters (i.e. macronutrients) including total nitrogen, available phosphorus, total potassium, organic carbon, and C: N ratio. The results of the study are encouraging for their use as organic manure.*

**Keywords:** Patna, State capital of Bihar Worship Places, Vermicompost; Worms; Rose (*Rosa Berberia*) Wastes; Nutrients; *Eisenia Foetida* and *Eudrilus Eugenia* species of earthworms; vermiwash.

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