

# Composting/vermicomposting of *Mikania micrantha* Kunth and its effect on soil properties— Science & Engineering Research Board (SERB), Department of Science and Technology



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**Theme:** The project focuses on the solid waste management under Swachh Bharat Abhiyan.

**Deliverables:** Instruments (TOC analyser, Refrigerator and Weighing balance) have been purchased, consumables (Glasswares and chemicals) have been purchased.

**Societal Impact:** Part of the ongoing research will assist humans, particularly rural people, in using terrestrial weed biomass to produce value-added products that can be used directly for agricultural purposes. Organic fertilizer has a higher cost and value than chemical fertilizer, so it could be a source of income for them. People are now choosing for organic fertilizer due to the alarming problem of chemical fertilizer.

**Outcome of the project:** The project has undergone extensive research to ensure that the invasive weed *Mikania micrantha* Kunth can be used safely. . Because of the non-toxic qualities of the compost produced from the weed, as well as its different levels of toxicity evaluation, the weed could potentially be used for the manufacture of green manure or organic manure for agricultural purposes. The use of compost derived from *Mikania micrantha* Kunth had a good influence on the yield of several vegetables when they were tested. Two papers have been published and two more have been communicated.

