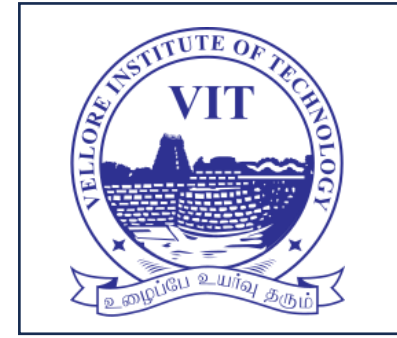




**Dr. K. Sivagami**  
**M.E., Ph.D.,**  
Associate Professor Sr.,  
School of Chemical Engineering,  
Vellore Institute of Technology, Vellore



**Research Experience:** 15 years

**Patents:** 4    Granted: 02    Applied: 02

**Research Focus :**

- i) Resource recovery from solid and hazardous waste using thermo-chemical conversion processes.
- ii) Water, wastewater, sludge and solid waste treatment.
  - 1. Developed Decentralized Plastic Pyrolysis Unit to convert single use plastic to fuel oil (500 kg/day plant capacity) using Engineering India Limited funding of Rs.100 Lakhs in IIT Madras (2019 – 2024).
  - 2. Developed "Oil recovery from petroleum sludge using microwave pyrolysis" (5 kg/batch capacity) using DST, MHRD and BPCL funding . (2017 – 2020).
  - 3. Working on biochar based slow release fertilizer applications.

**Technology Licensed:** NA

**Interested Industry member kindly connect through:**

**Email Id:** [icc-industryacademia@iccmil.in](mailto:icc-industryacademia@iccmil.in)

## **Technologies (Proof of Concept- POC): TRL level: NA**

### **Technologies under development:**

- Decentralized plastic pyrolysis plant (TRL-6)
- Biochar based slow-release fertilizers (TRL-4)
- Resource Recovery from soiled sanitary napkins (TRL-3)

### **Targeted Industries:**

- Plastic and packaging waste generating industries.
- Bio-fertilizers industries and Agri companies.
- Waste management companies.

**Interested Industry member kindly connect through:  
Email Id: [icc-industryacademia@iccmil.in](mailto:icc-industryacademia@iccmil.in)**