DESIGN AND FABRICATION OF DOMESTIC PLASTIC WASTE GRANULATING MACHINE

(Sponsored By KSCST)

PROJECT REPORT

Submitted to

Visvesvaraya Technological University
BELGAUM - 590 018

by

CLINT BABY	**USN: 4VP10ME022**
DUSHYANTH RAO A Y	**USN: 4VP10ME025**
JIBIN P J	**USN: 4VP10ME032**
KAPIL DEV	**USN: 4VP10ME035**

Under the guidance of
Prof. Sudarshan M L
Assistant Professor, Dept. of Mechanical Engineering
Vivekananda College of Engineering and Technology, Puttur (D.K)

In partial fulfillment of the requirements for the award of the degree of

Bachelor of Engineering

Department of Mechanical Engineering
VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY
Nehru Nagar, PUTTUR (D.K) - 574 203

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Abstract

Economic growth and changing consumption and production patterns are resulting into rapid increase in generation of waste plastics in the world. The increase in generation makes the plastics to be a major stream in solid waste. Due to the lack of integrated solid waste management, most of the plastic waste is neither collected properly nor disposed in an appropriate manner to avoid its negative impacts on environment and public health.

This project aims at developing a highly cost effective domestic plastic granulating machine which can be customized to each of the household and easily installed. The best way to avoid littering due to plastic is by recycling at the point of generation. Since there is no domestic plastic granulating machine is presently available, this would open a new window for plastic waste management. At present two machines are required for the purpose of recycling which increases the cost of the process .Estimated cost of this machine is about 55000-60000 rupees which is comparatively low than the machines used in the industries. Just one person is required to carry out the whole process which would be an added advantage when compared to the two or three person requirement in the industries.