

DESIGN AND FABRICATION OF AGARBATHHI COUNTING AND PACKING MACHINE

*[Project sponsored by Karnataka State Council for Science and Technology, Bangalore
under 37th Student Project Program]*

Project Report Submitted by

**Abhijith Y K
(4NM10ME003)**

**Krishna Mohan J
(4NM10ME047)**

**Dilip Shenoy U
(4NM10ME032)**

**Lohith S Shetty
(4NM10ME051)**

UNDER THE GUIDANCE OF

**Prof. Veerasha R. K.
Assistant Professor**

in partial fulfillment of the requirements for the award of the Degree of

Bachelor of Engineering in Mechanical Engineering

from

Visvesvaraya Technological University, Belgaum



N.M.A.M. INSTITUTE OF TECHNOLOGY

(An Autonomous Institution under VTU, Belgaum)

(AICTE approved, NBA Accredited, ISO 9001:2008 Certified)

NITTE –574 110, Udupi District, KARNATAKA



April 2014

ABSTRACT

Agarbatti has got its own significance in Indian culture as well as in the India's business sector. Agarbatti production has always been a profitable business in India. There are different methods in which agarbattis are produced and packed. Due to increase in demand for agarbattis, lack of cheap and efficient labor, and decrease in production, delivery time has urged the manufacturers to be quick and accurate in production. This has paved way for automation in agarbatti manufacturing sector.

Our project "AGARBATTI COUNTING AND PACKING MACHINE" focuses on fabricating of a cheap, efficient and reliable method of counting and packing Agarbattis. The machine works on basic principles of mechanical and electronics engineering. The setup comprises of two major units namely counting unit and packing unit. The Counting unit consists of a conveyor chain, slotted acrylic bars, stopper, motor, base structure, sensors and other electronic circuits. The Packing Unit consists of base structure, timer, transformer, coils and solenoid actuated Pneumatic Valve.

The same theme can be implemented for packaging of other light weight objects as well. Hence, we hope our project would be a significant contribution to packaging and automation industry. There are no efficient and cheap agarbatti counting machine available in the market, and we aspire to build one.