

Department : **Mechanical**

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Group No: **16**

Guided By

**PROF. SUMIT  
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## **SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA**

### **Project Title**

### **AUTOMATIC PLASTIC RAW MATERIAL LOADING SYSTEM**

#### **Abstract:**

Now a day, in the word most of items are made of plastic material. For making plastic material or product different machinery are uses. One of this, injection moulding machine is mostly use. In this machine plastic bin is use as a raw material for manufacturing final product.

In this project work, we are manufacturing one small plastic bin automatic filling system. In this system, we use two sensors for scanning lever of raw material. One sensor is place on the top side of hopper and other at the bottom side of the hopper.

Hopper is the device in which plastic raw material store. When raw material is empty from hopper than bottom sensor send signal to controller for start the system and when material filled to the top sensor at that time system is stop. In filling system we are manufacture high vacuum and blower for pressure plastic bin. By using this project system industries processes become fast compeer to manually and time of filling of raw material is also reduce. This system is special focusing for small scale plastic industries.

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