

Department : **Mechanical**

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Group No: **4**

Guided By

**PROF. V. P. RAJPUT**

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

### **Project Title**

### **DESIGN & DEVELOPMENT DOUBLE PASS ACTIVE SOLAR DRYER FOR FOOD PRESERVING**

#### **Abstract:**

The sun oriented drying framework uses sunlight based vitality to warm up air and to dry any nourishment substance stacked, which is valuable in diminishing wastage of agrarian item and aides in conservation of farming item. In view of the constraints of the normal sun drying for example introduction to coordinate daylight, risk to bugs and rodents absence of appropriate observing, and the heightened expense of the mechanical dryer, a sun based is consequently created to cook for this confinement.

This task displays the structure, development and execution of a blended mode sun powered dryer for sustenance safeguarding. In the dryer, the warmed air from a different sun based gatherer is gone through a grain bed, and in the meantime, the drying bureau retains sun oriented vitality straightforwardly through the straightforward dividers and rooftop. The outcomes acquired amid the trial uncovered that the temperatures inside the dryer and sun powered authority were a lot higher than the surrounding temperature amid most hours of the light. The temperature ascend inside the evaporating bureau was to 74% for around three hours following 12.00 hr. (early afternoon). The dryer displayed adequate capacity to dry sustenance things sensibly quickly to a protected dampness level and at the same time it guarantees an unrivaled nature of the dried item.

#### **Prepared By:**

<b>Sr. No.</b>	<b>Student Name</b>	<b>Enrollment No</b>
1	CHAUDHARY DHRUVAL UJAMBHAI	150780119007
2	DAVE DAKSH HITESHKUMAR	150780119009
3	MODH JAYMIN BHARATKUMAR	150780119022
4	SAIYAD SHADABHUSEN SHARAFATHUSEN	150780119074

