

Department : **Mechanical**

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Group No: **7**

Guided By

**PROF. V. P. RAJPUT**

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

### **Project Title**

### **ATMOSPHERIC WATER GENERATOR**

#### **Abstract:**

As we know, in nowadays crises were going out for drinking water in all over the places. There is noticeable amount of depletion in water level in many places of India. There are many places where people don't have water for even primary use like drinking or irrigation.

But at the same time, we are ignoring the abundance amount of water source as humidity in atmospheric air. We already have some systems and processes by which we can convert this humidity or moisture content which is present in atmospheric air. Prior innovations regarding to this field were working on mostly VCR system or other high input or low COP systems which are not so economical to use. This system generally works on basic refrigeration concept in which this atmospheric air is cooled down up to its dew point so the moisture condenses and we can use it.

So our main objective of the project is to formulate a system and a process by which we can dehumidify the humidity in the air into usable form of water which works more economically, more efficiently and with low power input.

#### **Prepared By:**

<b>Sr. No.</b>	<b>Student Name</b>	<b>Enrollment No</b>
1	ANAVADIYA RAJATKUMAR MUKESHBHAI	150780119001
2	PARMAR BHAVIKKUMAR JAYANTIBHAI	150780119029
3	PATEL KULDIP LALITBHAI	150780119052
4	THAKKAR JESALKUMAR RAJENDRABHAI	150780119083

