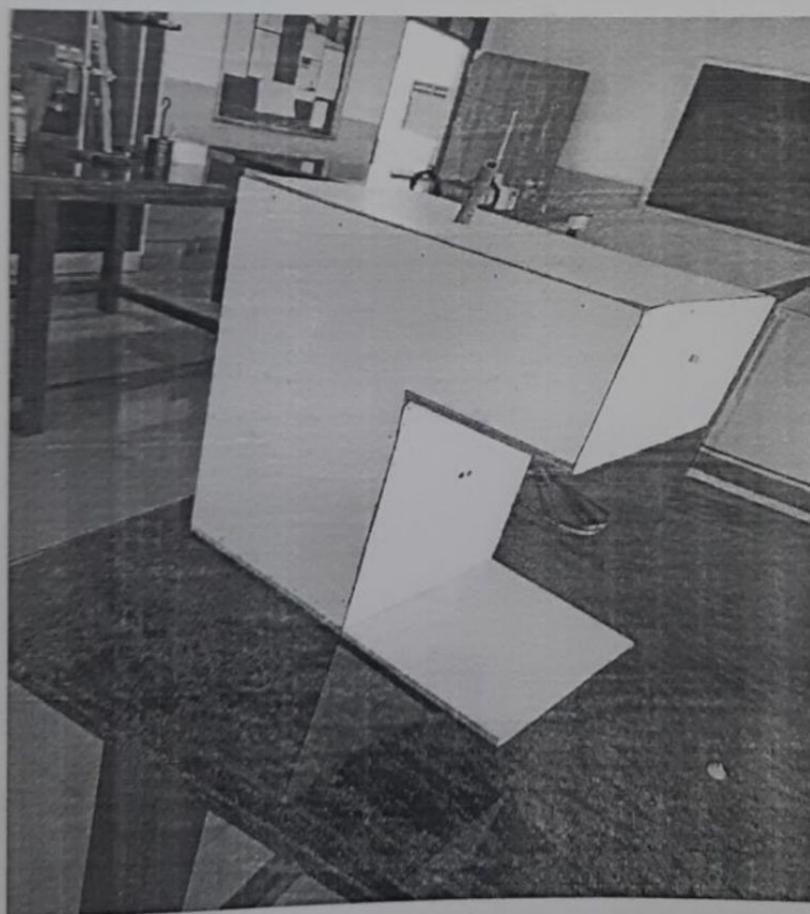


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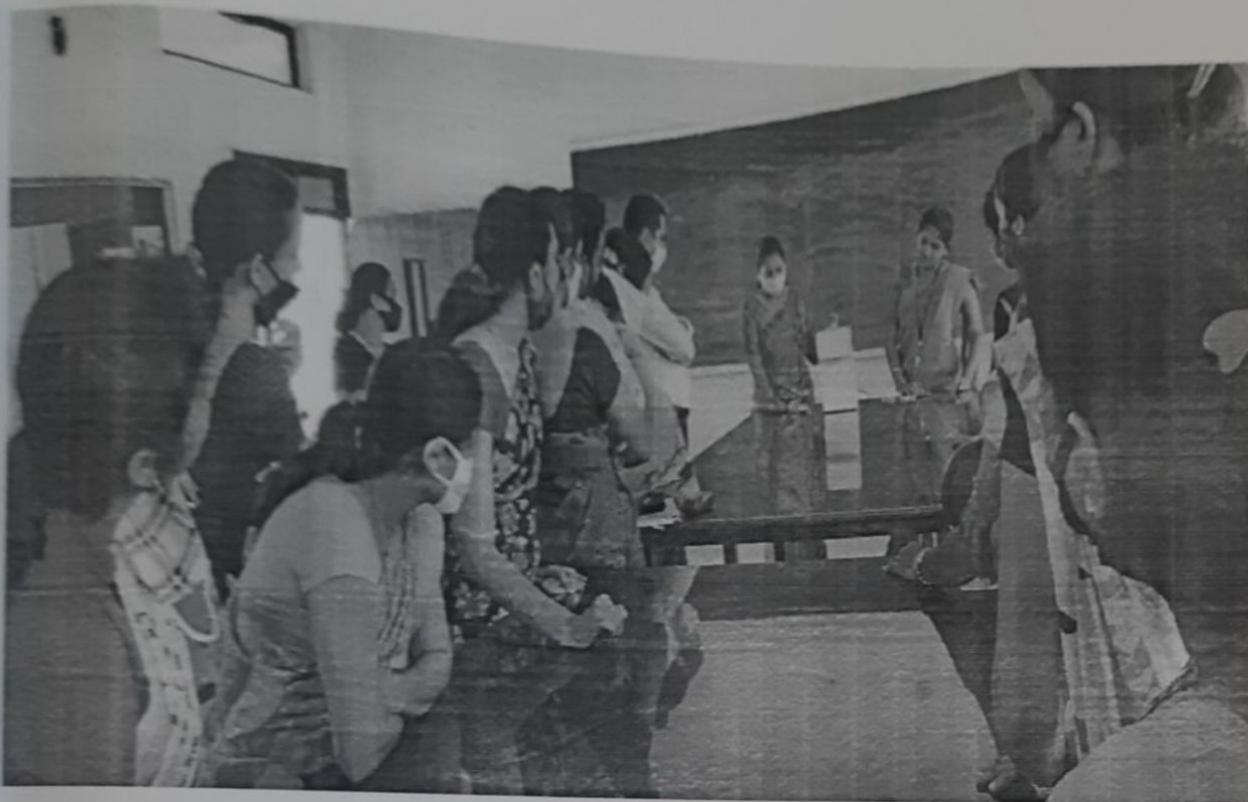
DEPARTMENT OF PHYSICS

SENSOR-BASED HAND SANITIZER 2020-21

Nowadays due to Corona pandemic disease sanitizer has a significant role in our daily life. There are different ways in using sanitizer like pressing of the bottles, opening of the lid etc., in such cases there is a possibility of spreading of the virus is more. To avoid this circumstance, the **Department of Physics** developed **Touch free hand sanitizer using the Sensor Technology**



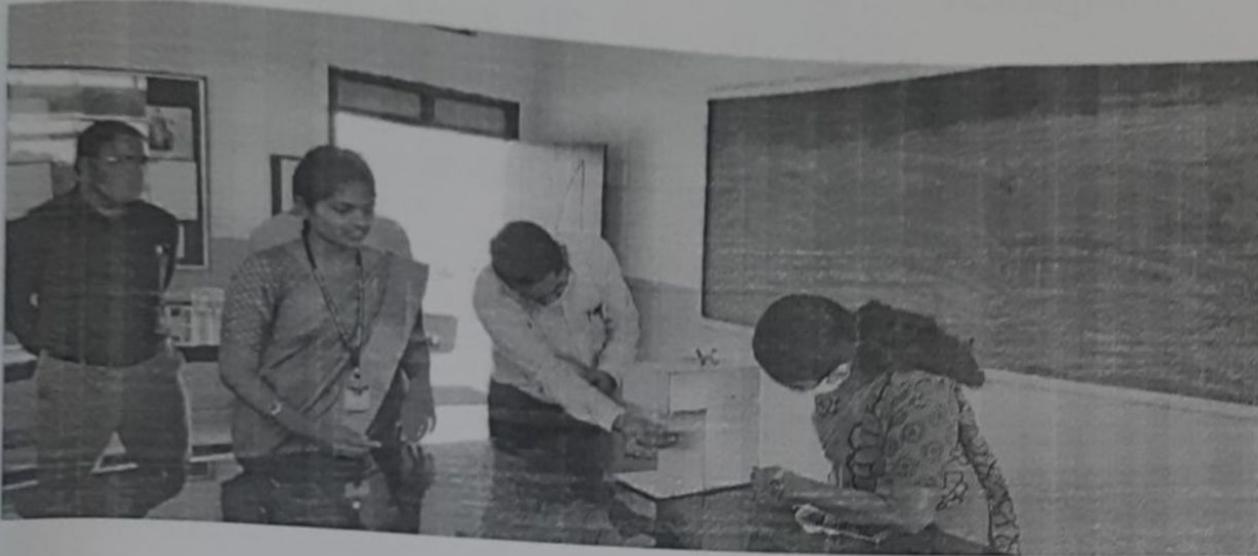
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Demonstration:

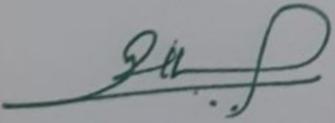
On 26th June 2020 the Department of Physics organised the demonstration on the way of usage of touch free hand sanitizer for the faculties of Dr. B. B. Hegde First Grade College, Kundapura

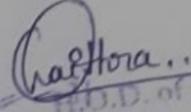
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Inauguration

Prof. K. Umesh Shetty, Pricipal of Dr. B. B. Hegde First Grade College, Kundapura was the inaugurator, Mr. Chethan Kumar Shetty Vice Principal and all the faculties were present during this event. Ms. Chaithra, I/C HOD, Dept. Of Physics and Ms. Deekshitha U G Asst. Prof. in Physics were demonstrated the device


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DR. B. B. HEGDE FIRST GRADE COLLEGE, KUNDAPURA

DEPARTMENT OF PHYSICS

SENSOR-BASED HAND SANITIZER

PLAN OF ACTION 2020-21

AIM:

This device is a touch free hand Sanitizer where staff members can use the sanitizer for hand sanitisation to deal with Covid-19 disaster.

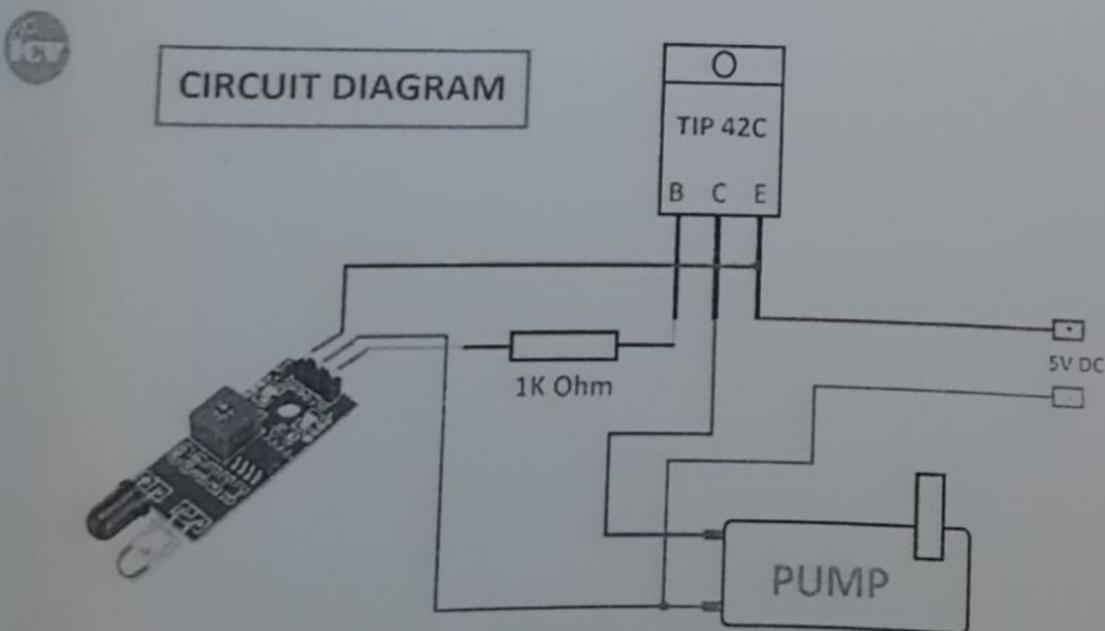
COMPONENTS:

Obstacle sensor, TIP 42C Transistor, 1K Ω Resistor, Water pump, Lithium battery, USB cable, plywood, Switch, Small tube, Alcohol, 500ml plastic jar, 5V Battery.

CONSTRUCTION:

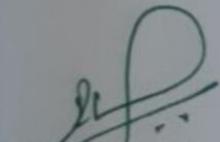
This mini project is mainly based on Obstacle sensor as well as electronic circuit in the core part. And the core part of the device is covered by plywood which includes switch.

CIRCUIT DIAGRAM:



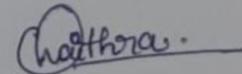
OPERATION OF THE DEVICE:

Before pouring the sanitizer into the plastic jar charge the device with USB cable. After adding the sanitizer, place the hand below the end of the water dropper. Now the obstacle sensor starts its working, which actually sends the message to the water pump to pump the alcohol in the jar to the tube. Thereafter alcoholic droplets will come out of the tube which will sanitize our hand.



PRINCIPAL

Principal
Dr. B. B. Hegde First Grade College
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HOD

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