

## Aquatic Distillation System

The Aquatic Distillation System utilizes the natural process of evaporation and condensation to produce freshwater from seawater or contaminated water sources. Operating on principles similar to those found in nature, this system mimics the water cycle within a controlled environment. By harnessing solar energy, it accelerates evaporation, leaving impurities behind. The vapor is then collected and condensed into clean, drinkable water. With its simple yet effective design, this system offers a sustainable solution for providing safe drinking water in remote or resource-constrained regions, addressing global water scarcity challenges.



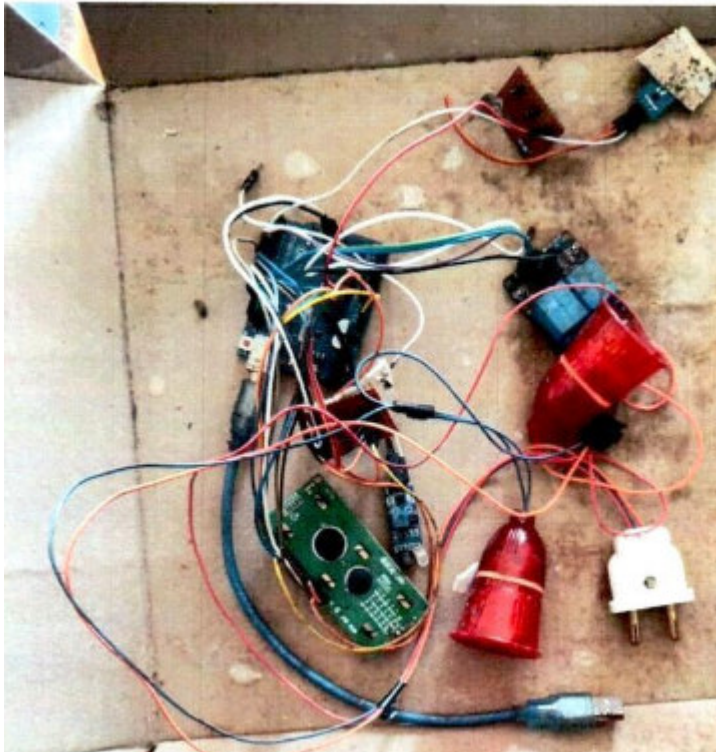
**PRINCIPAL**

**PRINCIPAL**

**Samskruti College of Engineering & Technology** 08)  
**Kondapur, Ghatkesar Municipality, Medchal (D)** (D)

## Arduino-Based Traffic Management System

The Arduino-Based Traffic Management System utilizes Arduino microcontrollers to regulate traffic flow efficiently. It employs sensors and actuators to detect vehicle presence and control traffic lights accordingly. Through real-time data processing, it adapts signal timing to minimize congestion and optimize traffic flow. With its customizable programming, the system can be tailored to specific road conditions and peak traffic hours. This cost-effective solution offers a smart and responsive approach to managing urban traffic, reducing travel time and enhancing road safety for commuters.



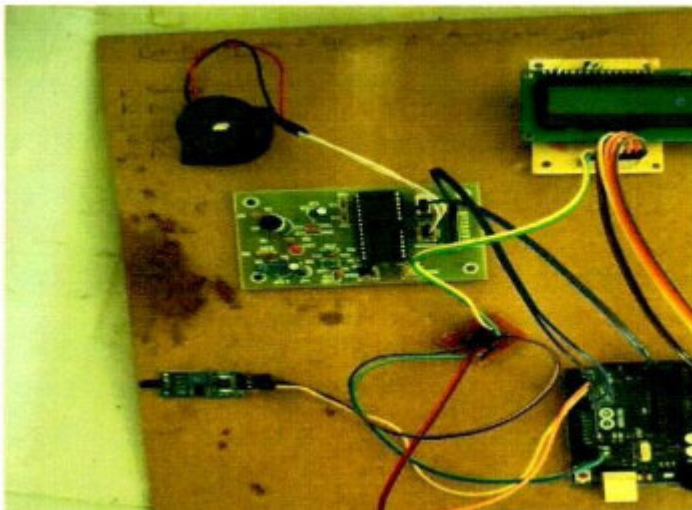
PRINCIPAL

PRINCIPAL

Samskruti College of Engineering & Technology  
Kondapur, Ghatkesar Municipality, Medchal (D)

## Arduino-Powered Fire Detection and Alarm System with Smoke Detection Capability

The Arduino-Powered Fire Detection and Alarm System integrates smoke detection capability for enhanced safety. Using Arduino microcontrollers and smoke sensors, it continuously monitors air quality. Upon detecting smoke, the system triggers alarms and sends alerts via SMS or email. With its customizable features, users can adjust sensitivity levels and alarm preferences. This DIY solution offers a cost-effective and reliable means of fire detection, suitable for homes, offices, and small businesses. By leveraging Arduino technology, it provides peace of mind and proactive protection against fire hazards.



PRINCIPAL

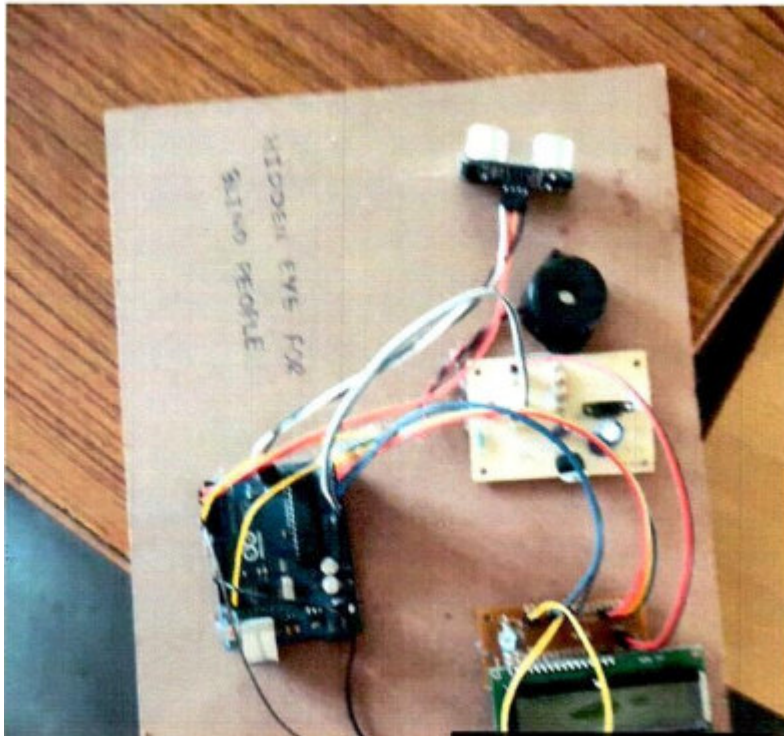
PRINCIPAL

Samskruti College of Engineering & Technology  
Kondapur, Ghatkesar Municipality, Medchal (D)



## Assistive Visual Aid for the Visually Impaired

The Assistive Aid for the Visually Impaired enhances independence and accessibility for individuals with visual impairments. Using cameras and advanced algorithms, it identifies objects, text, and obstacles, conveying information through auditory cues or tactile feedback. This aid enables users to navigate and interact with their environment confidently. By providing innovative solutions, it empowers visually impaired individuals to lead more autonomous lives.



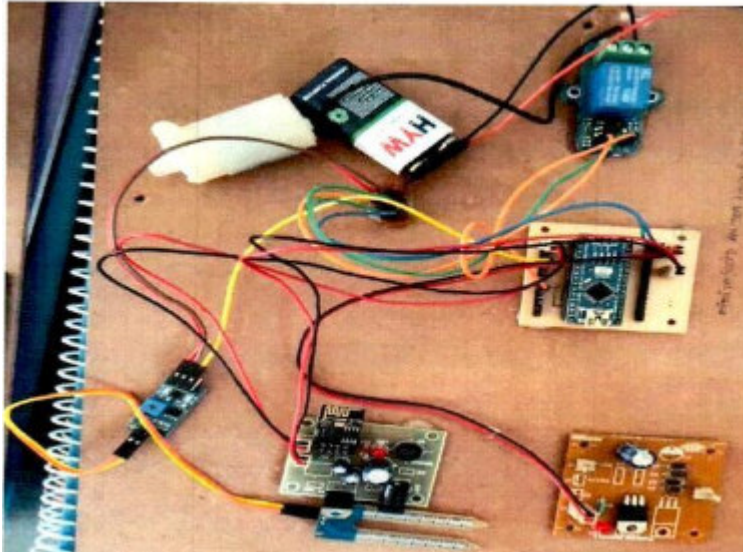
PRINCIPAL

PRINCIPAL

Samskruti College of Engineering & Technology  
Kondapur, Ghatkesar Municipality, Medchal (D)

## Automated Irrigation System for Efficient Watering

The Automated Irrigation System optimizes watering processes by employing sensors and smart technology. These sensors monitor soil moisture levels, weather conditions, and plant requirements in real-time. Integrated with an intelligent control system, the irrigation schedule is automatically adjusted to ensure efficient water usage and healthy plant growth. Users can manage and customize settings through a user-friendly interface, accessible via mobile app or web portal. By reducing water waste and promoting sustainability, this system offers an environmentally-friendly solution for maintaining lush gardens and landscapes.



PRINCIPAL

PRINCIPAL

**Samskruti College of Engineering & Technology**  
**Kondapur, Ghatkesar Municipality, Medchal (D)**