**An autonomous Agricultural Robot**

Problem Statement:

According to the news published on December 2020, around the world almost 381 million people (particularly farmers and agricultural workers) get poisoned by pesticides including 11,000 deaths per year among which 6,600 (more than 60%) deaths occur in India.

Proposed Solution:

An autonomous robot to perform functional and analytical operations such as Soil Health Monitoring and Prevention in-row Weed identification and removal, crop disease identification, detection, and optimized pesticide use for controlling crop disease. The aim is to develop a general purpose, sustainable robotic system to enhance crop yield and reduce dependence on herbicides, thereby improving its impact on yields of the environment and human beings.

Bot Mechanics:

4-wheel drive for better torque on rough field.

Front and Rear wheel Steering for lesser turning radius.

Delta Arm Mechanism

All traction wheels with Suspension System

Light Systems for better Visuals

