

WHAT IS THE PROBLEM?



PESTICIDES ARE INTEGRAL TO INDIAN AGRICULTURE

Playing a vital role in protecting crops from pests and diseases.

145,126 hectares of cultivated land in India utilizing pesticides,

these chemicals help in enhancing crop yield and quality. This extensive use is crucial for ensuring food security in a country with a large and growing population.

By controlling harmful pests, pesticides enable farmers to maintain consistent and higher production levels, which is essential for the economic stability of the agricultural sector and the overall food supply chain in India.

in 2022 **Haryana alone, used 4066 metric tons (4066000 kgs) of pesticide while other agriculture rich states like Punjab used 5130 metric tons of pesticide.** India ranks 13th in the world in terms of pesticide use and the Indian pesticide market was worth 197 billion Rs in 2018



CHEMICAL PESTICIDES ARE HIGHLY HAZARDOUS TO HEALTH

With extended exposure causing short term symptoms like excessive sweating, eye irritations, dry/sore throat and excessive salivation as well as long term effects like abnormalities in sensory nerve conductions and cancer.

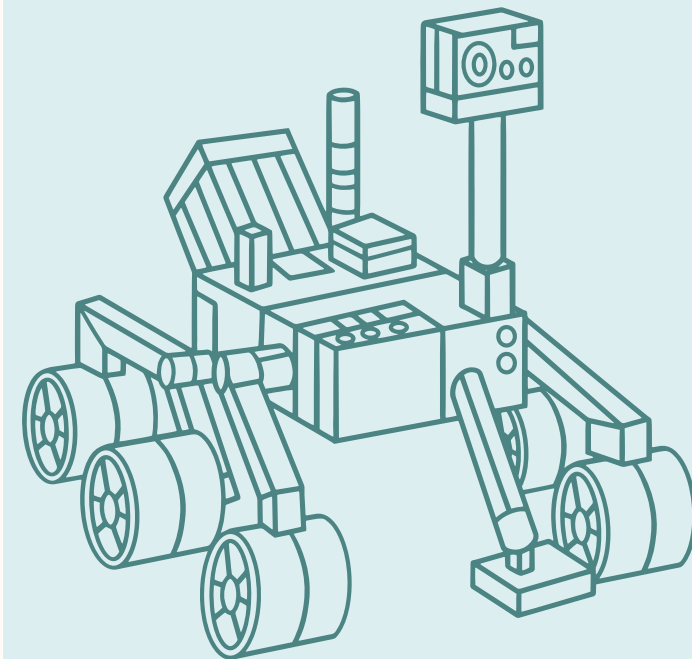
In a study published in the National Library of Medicine, it was found that while most were aware of the harmful effects of pesticides majority still failed to take any safety precautions while preparing and dispersing the pesticides. With pesticide being prepared and dispersed without any safety precautions.



HANIRAKSHAK

हानिकारक रसायन
के खिलाफ आपकी रक्षा

NO CONTACT AUTOMATED PESTICIDE DISPERSAL



**FOR A SAFER AND
SUSTAINABLE FUTURE**

HERE'S WHERE HANIRAKSHAK COMES IN

HANIRAKSHAK IS YOUR PERSONAL PROTECTOR AGAINST HARMFUL PESTICIDES

Four-wheel rover capable of spraying pesticides without any human intervention.

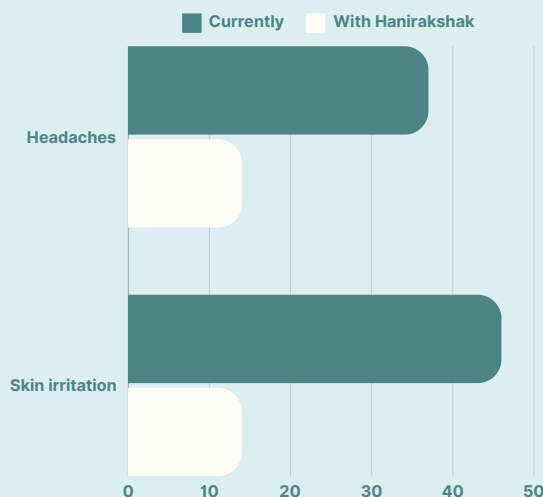
This game-changing technology makes the pesticide dispersal process contactless, significantly reducing farmers' exposure to harmful chemicals.



VISION

With **Hanirakshak**, we envision a future for Indian agriculture **where short-term effects like headaches and skin irritation, and long-term effects such as nerve dysfunction, become a thing of the past.**

This innovative solution promises to enhance farmer safety and promote healthier agricultural practices across India.



FEATURES

The rover uses multiple features in order to make the spraying process smooth and efficient.

Features	
1.	TWO 20 LITRE REFILLABLE DETTACHABLE TANKS
2.	SPRING SUSPENSION SYSTEM
3.	HIEGHT ADJUSTABLE SPRAY NOZZLES
4.	JOYSTICK MOVEMENT CONTROLLER

Hanirakshak's features provide many advantages including:

- the spring suspension system allows the rover to absorb jerks on uneven land and **travel smoothly**
- Height-adjustable spray nozzles makes is **useful for crops of different hieghts and types**
- Individual spray nozzles for both left and right **ensures maximum coverage of the land area**
- Simple remote control with joystick maneuvering to control the direction of motion of the controller, **makes it simple and easy to use**



CHOOSE US



76.02% OF FARMERS EXPERIENCED LONG TERM ILL EFFECTS DUE TO PESTICIDE EXPOSURE

WITH HANIRAKSHAK

The number of cases of long term and short term illnesses due to pesticide exposure can be significalty reduced.

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