

Kisan kavach

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Bharat's Indigenous anti-pesher

Launch By

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About Kisan kavach:

- It is a first-of-its-kind **anti-pesticide bodysuit** designed to protect farmers from the harmful effects of pesticide exposure.
 - The suit is intended to protect farm labourers from imbibing the pesticides they spray. Several of the common pesticides are potential neurotoxins and detrimental to health.
 - It is developed by the **Biotechnology Research and Innovation Council (BRIC-inStem), Bangalore**, in collaboration with Sepio Health Pvt. Ltd.
 - **Features**
 - The kit consists of a trouser, pullover, and a face-cover **made of 'oxime fabric'** that can chemically breakdown any of the common pesticides that get sprayed onto cloth or body during spraying operations.
 - This prevents chemicals from leaching into the skin. The price per kit is ₹4,000.
 - **Working:** This Kisan Kavach fabric can deactivate pesticides upon contact through **nucleophilic mediated hydrolysis**, thereby preventing pesticide-induced toxicity and lethality.
 - The kit retained its potency in a wide temperature range, under UV-light exposure and was protective even after a 150 washes
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Q1: What is Hydrolysis?

It is a chemical reaction in which a chemical compound is broken down by reaction with water.

News: Scientists develop 'kisan kavach' to shield farmers from pesticide sprays

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