GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

**RAJYA SABHA**
**UNSTARRED QUESTION NO.644**
TO BE ANSWERED ON 25/07/2025

## OBJECTIVES, COMPONENTS AND FUNCTIONING OF CROPIC

644. SHRI MILIND MURLI DEORA:

Will the Minister of AGRICULTURE AND FARMERS WELFARE be pleased to state:

(a) whether Government has recently launched an initiative named Collection of Real-Time Observations & Photos of Crops (CROPIC);

(b) if so, the main objectives and components of this initiative;

(c) whether CROPIC uses Artificial Intelligence (AI) and crowd-sourced data to monitor crop health and losses;

(d) if so, the manner in which CROPIC mobile application functions for data collection from farmers, the details thereof; and

(e) the manner in which AI and computer vision are being leveraged for image analysis under this initiative?

## ANSWER

THE MINISTER OF STATE FOR AGRICULTURE AND FARMERS WELFARE
(SHRI RAMNATH THAKUR)

(a) to (e): CROPIC (Collection of Real Time Observations and Photographs of Crops) is one of the technology initiatives under Pradhan Mantri Fasal Bima Yojana (PMFBY). It is a digital application for collection of crop field photographs, to ascertain the health of crops and identify damage due to perils. CROPIC app aims at collection of geotagged crowdsourced photographs from farmers and field coordinators through smartphones. The purpose of time-series geotagged photographs is crop validation against insured crops, and crop damage assessment in case of localized calamities.

The CROPIC supports PMFBY through general crop surveillance information reporting crop risks in near real time and supporting yield estimation models of YESTECH for validation as well as for accounting for certain risks.

CROPIC is envisaged to empower crop insurance stakeholders with a transparent, real-time, evidence-based system for monitoring and managing crops, strengthening the effectiveness of crop insurance and disaster response, and ensuring data-driven policy decisions.

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