

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

**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 502**  
TO BE ANSWERED ON THE 07/02/2025

**USE OF AI IN AGRICULTURE SECTOR**

502. SHRI BABUBHAI JESANGBHAI DESAI:  
DR. MEDHA VISHRAM KULKARNI:

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

- (a) the manner in which Government is engaging with international organizations, research bodies, and other nations to foster cooperation on Artificial Intelligence (AI) research and policy development, while also protecting India's interests; and
- (b) Government's plan to promote the use of AI in agriculture, particularly for improving crop yields, predictive analytics weather forecasting and efficient resource management?

**ANSWER**

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

(a) & (b): The Government has employed Artificial Intelligence (AI) methods to address various challenges in the agricultural sector to aid farmers. Some of the initiatives are given below:

- i. 'Kisan e-Mitra', an AI-powered chatbot, has been developed to assist farmers with responses to the queries about the PM Kisan Samman Nidhi scheme. This solution supports multiple languages and is evolving to assist with other government programs.
- ii. National Pest Surveillance System, for tackling the loss of produce due to climate change, utilizes AI and Machine Learning to detect pest infestation in crop issues, enabling timely intervention for healthier crops.
- iii. AI based analytics using field photographs for crop health assessment and crop health monitoring using Satellite, weather & soil moisture datasets for rice and wheat crop.

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