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

LOK SABHA
UNSTARRED QUESTION NO. 493
TO BE ANSWERED ON THE 6TH FEBRUARY, 2024

USE OF AI TO IMPROVE AGRICULTURE

493.   Shri Sanjay Sadashivrao Mandlik
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Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि एवं किसान कल्याण मंत्री be pleased to state:

(a) Whether the Government is planning to use Artificial Intelligence (AI) to tackle the problem of inferior crops, reduction in production and increasing input cost in the field of agriculture and if so, the details thereof;
(b) Whether the Government also proposes to use Artificial Intelligence to check the loss of produce/ crops due to global warming and changes in climate;
(c) If so, the details thereof and the steps taken in this regard;
(d) Whether the Government has developed any technique through Artificial Intelligence by which the health of crops can be ascertained and monitored and if so, the details thereof;
(e) The details and names of crops on which the Government is working presently through Artificial Intelligence; and
(f) The manner in which farmers are going to be benefitted through this technology?

ANSWER

MINISTER OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण मंत्री (SHRI ARJUN MUNDA)

(a)   to (f): The Ministry of Agriculture and Farmers Welfare in India 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 to assist farmers with 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. This system utilizes AI and Machine Learning to detect 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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