GOVERNMENT OF INDIA MINISTRY OF AGRICULTURE AND FARMERS WELFARE DEPARTMENT OF AGRICULTURAL RESEARCH & EDUCATION

LOK SABHA UNSTARRED QUESTION NO. 275 TO BE ANSWERED ON 4TH FEBRUARY, 2025

UPGRADATION OF AGRICULTURAL TECHNOLOGY

275. SHRI VE VAITHILINGAM:

Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि और किसान कल्याण मंत्री be pleased to state:

(a) whether the Government has taken any initiatives for the upgradation of agricultural technology, the application of modern skills in farm practices, enhancing agricultural marketing avenues, price stabilization, the adoption of innovation in farming, lowering wastages in the use of fertilizers, water and other inputs and improving the agriculture-industry linkages;

- (b) if so, the details thereof; and
- (c) if not, the reasons therefor?

ANSWER

THE MINISTER OF STATE FOR AGRICULTURE AND FARMERS WELFARE कृषि और किसान कल्याण राज्य मंत्री (SHRI BHAGIRATH CHOUDHARY)

(a) & (b): The Government has launched several key schemes to upgrade agricultural technology to improve productivity, sustainability, and farmers' income. The Digital Agriculture Mission, is a major initiative that leverages technologies like Artificial Intelligence (AI), Big Data, and geospatial data for better crop monitoring, soil management, and weather forecasting. Indian Council of Agricultural Research (ICAR), during the last ten years has developed 2900 varieties out of which, 2661 varieties are tolerant to one or more biotic and/or abiotic stresses. About156 technologies/machines/process protocols were developed for production and post-harvest production of agriculture. Technologies related to animal, Fisheries sector were also developed for enhancing productivity of animal, fisheries, aquaculture, diagnostics & vaccines for animal and fish health management, processing and value addition. For increasing awareness and promotion of newly developed technologies, Krishi Vigyan Kendras (KVKs) and State Agricultural Universities (SAUs) conduct trainings, field level demonstration, farmers' interface meetings, skill development programs among the small and marginal farmers and other stakeholders and making agriculture more efficient and profitable.

The Government has introduced many initiatives to enhance agricultural marketing such as e-NAM, Kisan Rail and Kisan Udan for improved logistics. The promotion of Farmer Producer Organizations (FPOs) aims to reduce intermediaries and strengthen market access for farmers. Additionally, agri-tech startups and online platforms like AGRI-Bazaar help farmers to connect directly with buyers, ensuring better pricing and increased income. ICAR recommends soil test based balanced and integrated nutrient management through conjunctive use of both inorganic and organic sources (manure, biofertilizers etc.) of plant nutrients for judicious use of chemical fertilizers and to improve soil health. All these measures reduce chemical fertilizer use in the country. Also, ICAR suggests judicious use of water through efficient irrigation techniques including micro-irrigation for various crops to save irrigation water substantially.

The Soil Health Card Scheme also promotes the use of soil-appropriate fertilizers to reduce wastage and improve productivity. Further, the Government supports State Governments through scheme the Per Drop More Crop (PDMC) to improve water use efficiency, reduce costs, and enhance farm income. While the Government has promoted the Pradhan Mantri Kisan Sampada Yojana, which focuses on enhancing value-added processing, improving the shelf-life of farm products, and linking farmers with agro-industries.

(c): Question doesn't arise.
