

## **National Innovations in Climate Resilient Agriculture (NICRA)**

National Innovations in Climate Resilient Agriculture (NICRA) is a multi-institutional and multi-disciplinary network project launched by ICAR in 2011 which aims to build resilience in Indian agriculture to climate change and climate variability through strategic research and technology demonstrations.

### **Objectives**

- To enhance the resilience of Indian agriculture covering crops, livestock and fisheries to climatic variability and climate change through development and application of improved production and risk management technologies
- To demonstrate site specific technology packages on farmers fields for adapting to current climate risks.
- To enhance the capacity of scientists and other stakeholders in climate resilient agricultural research and its application.

Technology Demonstration Component (TDC) of NICRA which is implemented in 121 climatically vulnerable districts of the country focuses on enhancing the adaptive capacity of farmer in these districts to climatic change and to ensure security of livelihood in times of climatic aberrations. The Technology Demonstration Component (TDC) of NICRA was implemented through Krishi Vigyan Kendras (KVKs) during 2022-23 in 11 climatically vulnerable districts located in the states of Maharashtra, Gujarat and Goa under ICAR-ATARI, Pune. These include KVKs of Ahmednagar-I, Beed-I, Jalna-I, Nandurbar, Osmanabad, Latur in Maharashtra (6 KVKs). Panchmahal, Banaskantha-I, Dahod and Narmada in Gujarat (4 KVKs) and North Goa in Goa (1 KVK).

Under the project, KVKs conducted demonstration of climate resilient technologies in four farming system typology viz., NRM, crop production, livestock and fisheries and institutional interventions besides conducting capacity building and extension activities related to these farming system. During 2022-23, a total of 76 demonstrations were implemented in Natural Resource Management covering 185.60 ha by involving 257 farmers. Under Crop production, 439.50 ha area and 1269 farmers were covered, in Livestock and Fisheries 1819 Animals and 753 farmers covered. In Institutional Intervention, 115.40 ha area covered, Rs. 23340/- amount

mobilized through Custom Hiring centres, 16.05 tonnes of seed produced along with 182 tonnes of fodder production in 22 villages. NICRA KVKs organized 116 capacity development courses benefitting 3146 farmers which included 2431 male farmers and 715 women farmers. KVKs carried out 163 extension activities and created awareness among 3904 farmers including 3036 males and 900 females on varieties, production technologies, integrated pest and disease management, animal health and nutrition.

