

**GOVERNMENT OF INDIA  
AGRICULTURE  
LOK SABHA**

UNSTARRED QUESTION NO:1998

ANSWERED ON:17.12.2013

IMPACT OF GLOBAL WARMING ON AGRICULTURE

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**Will the Minister of AGRICULTURE be pleased to state:**

- (a) whether the Government has undertaken any survey to assess the impact of global warming on agricultural production in the country;
- (b) if so, the outcome thereof, crop-wise;
- (c) the notable achievements made under 'The National Initiative on Climate Resilient Agriculture' (NICRA) scheme during the last one year; and
- (d) the steps taken/proposed to be taken by the Government to minimize the impact of global warming on agriculture in the country?

**Answer**

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FOOD PROCESSING INDUSTRIES (SHRI TARIQ ANWAR)

(a) & (b): Yes, Madam. Indian Council of Agricultural Research (ICAR) has conducted climate change impact analysis on crop yields using crop simulation models incorporating future projections for 2020, 2050 and 2080. The crop-wise details of study are given in Annexure-I.

(c) The notable achievements made under 'The National Initiative on Climate Resilient Agriculture' (NICRA) scheme during last one year are given in Annexure-II.

(d) ICAR is implementing NICRA project with the objectives of enhancing resilience of Indian agriculture to climate change through Strategic Research, Technology Demonstration, Capacity Building and Sponsored/Competitive Grant Projects. The research on adaptation and mitigation covers crops, livestock, fisheries and natural resource management. Besides, a mission document on National Mission on Sustainable Agriculture (NMSA) under the aegis of National Action Plan on Climate Change (NAPCC) has been formulated. NMSA identified 10 key dimensions namely seed & culture, water, pest, nutrient, farming practices, credit, insurance, market, information and livelihood diversification for promoting suitable agricultural practices that covers both adaptation and mitigation measures through four functional areas, namely, Research & Development, Technologies & Practices, Infrastructure, and Capacity building. During XII Plan, these dimensions have been embedded and mainstreamed into Missions/Programmes/Schemes of Ministry of Agriculture, including NMSA through a process of restructuring of various schemes/missions implemented during XI Plan. NMSA as a restructured programmatic Mission aims at promoting location specific integrated/composite farming systems; soil and moisture conservation measures; comprehensive soil health management; efficient water management practices and mainstreaming rainfed technology.