

**GOVERNMENT OF INDIA  
ENVIRONMENT AND FORESTS  
LOK SABHA**

UNSTARRED QUESTION NO:6136  
ANSWERED ON:14.05.2012  
EFFECT OF CLIMATE CHANGE ON AGRICULTURE  
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**Will the Minister of ENVIRONMENT AND FORESTS be pleased to state:**

- (a) whether the Government is applying location specific research to assess the impact of climate change in the country;
- (b) if so, the details thereof;
- (c) whether agriculture itself is major contributor to the climate change in India; and
- (d) if so, the details thereof?

**Answer**

MINISTER OF STATE (INDEPENDENT CHARGE) FOR ENVIRONMENT AND FORESTS (SHRIMATI JAYANTHI NATARAJAN)

(a) & (b) Ministry of Environment and Forests, Government of India has assessed the impact of climate change on four regions of India namely Himalayan region, the Western Ghats, the Coastal Area and the North-East Region for four sectors including Agriculture and published a report titled "Climate Change and India: 4X4 Assessment - A Sectoral and Regional Analysis for 2030s" in 2010. The report projects a variable rate of change in agriculture production including losses in some crops such as mustard, peas, tomatoes, onion and garlic.

(c) & (d) According to the report titled "Greenhouse Gas Emission Inventory 2007", published by the Ministry of Environment and Forests, Government of India under the aegis of Indian Network for Climate Change Assessment (INCCA), emissions from agriculture sector amounts to 334.41 million tons of Carbon dioxide (CO<sub>2</sub>) equivalent i.e. 17% of the net green house gas emissions from India in 2007.