

**GOVERNMENT OF INDIA  
ENVIRONMENT, FORESTS AND CLIMATE CHANGE  
LOK SABHA**

UNSTARRED QUESTION NO:2159  
ANSWERED ON:10.03.2015  
IMPACT OF CLIMATE CHANGE  
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**Will the Minister of ENVIRONMENT, FORESTS AND CLIMATE CHANGE be pleased to state:**

- (a) whether the Government is aware of the adverse impact of climate change on the agriculture sector, biodiversity, quality of soil and disease burden in the country;
- (b) if so, the steps taken/being taken by the Government to address the problems of decline in agricultural production, quality of soil, loss of biodiversity and disease burden due to climate change in the country including Jammu and Kashmir;
- (c) the estimated losses caused due to this effect over the years; and
- (d) the concrete measures taken by the Government to minimize the losses due to climate change in future?

**Answer**

MINISTER OF STATE (INDEPENDENT CHARGE) FOR ENVIRONMENT, FORESTS AND CLIMATE CHANGE (SHRI PRAKASH JAVADEKAR)

(a) A scientific study to assess the impact of climate change has been undertaken and a report titled "Climate Change and India: 4X4 Assessment - A Sectoral and Regional Analysis for 2030s" was published in 2010 by the Government of India. The report has assessed impacts of climate change on four key sectors of Indian economy, namely Agriculture, Water, Natural Ecosystems & Biodiversity and Health in four climate sensitive regions of India, namely the Himalayan region, the Western Ghats, the Coastal Area and the North-East Region.

The study projects a mixed picture of implications for climate parameters and related impacts on the relevant sectors. The report has projected a variable rate of change in agriculture production including losses in some crops, change in the composition of the forests & Net Primary Productivity and spread of Malaria in new areas.

(b) to (d) Government has launched the National Action Plan on Climate Change (NAPCC) in June, 2008 to deal with the climate change related issues. NAPCC outlines eight Missions in specific areas of solar energy, enhanced energy efficiency, habitat, water, sustaining Himalayan Ecosystems, forestry, agriculture and strategic knowledge for climate change. Further, all State/Union Territories have prepared State Action Plan on Climate Change consistent with objectives of NAPCC highlighting State's specific issues relating to climate change. No studies have been conducted to estimate losses caused due to the impact of climate change.