

GOVERNMENT OF INDIA  
MINISTRY OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING  
DEPARTMENT OF FISHERIES

**LOK SABHA**

UNSTARRED QUESTION No. 579  
TO BE ANSWERED ON 6<sup>TH</sup> FEBRUARY, 2024

**Impacts of Climate Change**

**579. SHRI G.M. SIDDESHWAR:**

Will the Minister of **FISHERIES, ANIMAL HUSBANDRY AND DAIRYING** मत्स्यपालन, पशुपालन और डेयरी मंत्री be pleased to state:

- (a) whether the Government has conducted any study on the impacts of climate change on the sustainability of fisheries and aquaculture;
- (b) if so, the details of such study;
- (c) the estimated number of fishermen community affected by impact of climate change; and
- (d) the details of strategies and the steps taken by the Government to protect the livelihood of fishermen community particularly in Karnataka?

**ANSWER**

**THE MINISTER OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING:**

**(SHRI PARSHOTTAM RUPALA)**

(a) to (c): The fisheries research institutes under the aegis of Indian Council of Agricultural Research (ICAR), Government of India have been conducting research regularly for understanding the impacts of climate change in order to develop climate resilient strategies for sustainability of fisheries and aquaculture. The studies on the impact of climate change undertaken by ICAR institutes under "National Innovation in Climate Resilient Agriculture (NICRA)" include vulnerability assessment of the wetland fisheries, climate trend analysis for major river basins across India, Impact on fish distributional range, catch composition and yield etc. In marine fisheries, studies on climate change modeling, projection on fish catch and mariculture production under climate change scenarios, risk and vulnerability assessment of marine fisheries, wetland mapping, carbon footprint, blue carbon potential, ocean acidification, response of capture and culture species to climate change and adaptive management in response to climate change are carried out under the NICRA Project. Climate campaigns and awareness programmes are also conducted in various States in order to increase preparedness and adaptive capacity of fishers against climate change.

(d) The Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India under the *Pradhan Mantri Matsya Sampada Yojana* (PMMSY) has approved fisheries development proposals worth Rs.1004.12 crore to the Government of Karnataka in past two financial years and current year. This investment is to support various fisheries related activities for overall development and welfare of fishermen in the State including livelihood and nutritional support for 20,414 traditional and socio-economically backward fishermen families during the annual fishing ban period.

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