

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

**LOK SABHA  
UNSTARRED QUESTION NO. 1285  
TO BE ANSWERED ON 11<sup>TH</sup> FEBRUARY, 2025**

**Impact of Heatwaves**

**1285. Shri Putta Mahesh Kumar:**

Will the MINISTER OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING be pleased to state:

- (a) Whether the Government has conducted any study/survey into the impact of heatwaves on the fisheries-based business in the country during the last five years;
- (b) if so, the details regarding the total amount of losses suffered by fisheries due to heatwaves in the country during such period, State and district-wise in Andhra Pradesh and in Eluru District;
- (c) the details regarding the total number of fisheries that have had to shut down due to heatwaves over the last five years across India, State-wise, district-wise in Andhra Pradesh and in Eluru District;
- (d) the details regarding the steps taken by the Government to reduce the losses suffered by fisheries due to heatwaves in the country during such period; and
- (e) whether the Government has undertaken any campaign/initiative to raise awareness regarding the impact of heatwaves on fisheries and solutions for the same, if so, the details thereof?

**ANSWER**

**THE MINISTER OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING  
(SHRI RAJIV RANJAN SINGH ALIAS LALAN SINGH)**

- (a) The fisheries research institutes under the aegis of the Indian Council of Agricultural Research (ICAR), Government of India have studied the characteristics of the marine heatwaves over the Bay of Bengal and Arabian Sea. However, the intricate interactions that are being happening in the marine ecosystem and the fisheries-based business due to the marine heatwaves are to be studied further.
- (b) and (c): The Department Fisheries, Government of Andhra Pradesh has reported no loss in the fisheries sector due to heatwaves in Andhra Pradesh including Eluru District during past five years.

(d) and (e): The Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Science, Government of India, has been issuing advisories on the intensity of marine heatwaves and risk categories over the Indian Ocean on a daily basis. To mitigate the impact of heatwaves on fisheries and the aquaculture, the Fisheries Department, Government of Andhra Pradesh conducts annual awareness campaigns and issues preventative advisories. Distributed through village-level fisheries assistants (VFAs) and district offices, these resources inform businesses on how to avoid summer fish kills and minimize losses. Further, to address the issues related to climate change impacts including heatwaves, the Department of Fisheries, Government of India under the *Pradhan Mantri Matsya Sampada Yojana* (PMMSY), has identified 100 coastal fishermen villages situated close to the coastline as Climate Resilient Coastal Fishermen Villages (CRCFV) for focused investment to enhance the economic resilience of coastal communities impacted by climate change. The program promotes climate-resilient fisheries through initiatives such as seaweed cultivation, artificial reefs, sea ranching and use of green fuel etc. Safety and security measures for fishermen and fishing vessels, economic activities like ornamental fisheries, and support programs like insurance, livelihood and nutritional support, Kisan Credit Cards (KCC), and training also supported. The activities in the identified coastal fishermen villages are need-based facilities, including common facilities like fish drying yards, fish processing centers, fish markets, fishing jetties, ice plants, cold storage, and emergency rescue facilities. Further, ICAR-Fisheries Research Institutes have been contributing to enhance aquaculture through ongoing research, technology development, and capacity-building in marine as well as inland aquaculture funded by the Government of India.

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