

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI,
DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION

RAJYA SABHA

UNSTARRED QUESTION NO. 1360

ANSWERED ON 13.03.2023

FLOOD MANAGEMENT AND BORDER AREAS PROGRAMME

1360. DR. DHARMASTHALA VEERENDRA HEGGADE

Will the Minister of **JAL SHAKTI** be pleased to state:

- (a) the data regarding damage caused by floods to crops, land, property, and life in the State of Karnataka particularly during the year 2022;
- (b) the quantum of funds released under the Flood Management and Border Areas Programme during the last three years;
- (c) the salient features and funding pattern of Flood Management and Border Areas Programme;
- (d) the number of projects sanctioned and completed under the flood management component of PMKSY till date, State-wise; and
- (e) the steps taken by Government for timely prediction and forecasting of meteorological changes in the country?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI

(SHRI BISHWESWAR TUDU)

(a) As per Revenue Department of Government of Karnataka, loss and damage of major items due to floods during the year 2022 (July to October, 2022) is as under-

Sl. No.	Item	Quantity
1	Agriculture+ Horticulture+ Plantation crop loss	13.16 lakh ha
2	House damage	71130 No.
3	Human loss	127
4	Road damage (SH+MDR+Rural+ Urban)	27655 Km
5	Bridges and culverts damaged	2325 units
6	Govt. Building damaged (Government schools, anganwadi, Panchayat Ghar, PHC etc.)	14347 units
7	Minor Irrigation infra damaged (schools)	870
8	MI and ZP tanks damaged	774

(b) The details of central assistance released to states/UTs under the Flood Management and Border Areas Programme (FMBAP) of Department of Water Resources, River Development & Ganga Rejuvenation during the last three Financial Years (2019-2020, 2020-2021, 2021-2022) and the current year is at **Annexure-I**.

(c) The objective of Flood Management and Border Areas Programme (FMBAP) Scheme is to enable

the State/UTs Governments to provide reasonable degree of protection against floods/erosion by adopting structural measures in critical flood/erosion prone areas. It is aimed to protect valuable land from flooding and erosion across the country. This Scheme also aims to enhance bilateral co-operation in the field of water resources with neighboring countries and includes hydro-meteorological observation, Flood Forecasting, critical flood protection/ anti-erosion works in Bordering Areas & UTs, survey & investigation and preparation of Detailed Project Report for projects and related activities on Borders Rivers.

During XII Plan period and 2017-18 to 2020-21, the funding pattern for FMP component for general category States was 50 % (Centre): 50 % (State) and for projects of 8 North Eastern States, J&K, Himachal Pradesh and Uttarakhand, the funding pattern was 70 % (Centre): 30 % (State). However, the funding pattern during the period 2021-22 has been subsequently revised for new projects in general category States as 60 % (Centre): 40 % (State) and for projects of 8 North Eastern States, J&K, Himachal Pradesh and Uttarakhand, the funding pattern revised to 90 % (Centre): 10 % (State). Whereas, RMBA component being specific to activities in border areas with neighbouring countries viz., Bangladesh, Nepal, China, Pakistan and Bhutan, the funding pattern continued throughout as 100% central assistance.

(d) Since the inception of Flood Management Programme (FMP) in the XI Plan, a total of 527 projects have been included for central assistance. The 427 projects have been completed giving reasonable protection to an area of around 4.994 mha and protected a population of about 53.57 million. The State-wise status of projects under FMP component of FMBAP is at **Annexure II**.

(e) Central Water Commission (CWC) issues flood forecasts and inflow forecasts as a non-structural measure of flood management at identified locations/reservoirs. Presently, flood forecasts are issued by CWC at 333 stations (134 Inflow Forecast Stations + 199 Level Forecast Stations) as per Standard Operating Procedure. Central Water Commission (CWC) has developed basin wise flood forecasting model based on rainfall-runoff mathematical modelling for 5 days advance flood forecast advisory for all forecasting stations. The five days advance forecast is generated using meteorological rainfall data provided by Indian Meteorological Department (IMD).

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1360 TO BE ANSWERED IN RAJYA SABHA ON 13.03.2023 REGARDING “FLOOD MANAGEMENT AND BORDER AREAS PROGRAMME”

Central Assistance released to States/UTs under Flood Management and Border Areas (FMBAP)

Sl. No.	Financial Year	Funds released in Rs. Crores
1.	2019-20	615.63
2.	2020-21	80.275
3.	2021-22	243.48
4.	2022-23 (till date)	375.59

ANNEXURE REFERRED TO IN REPLY TO PART (D) OF UNSTARRED QUESTION NO. 1360 TO BE ANSWERED IN RAJYA SABHA ON 13.03.2023 REGARDING “FLOOD MANAGEMENT AND BORDER AREAS PROGRAMME”**Area protected and population benefited by 427 completed projects under Flood Management Programme (FMP) component of FMBAP**

Sl. No	State	Projects in numbers	Area benefitted (Hectares)	Population benefitted (Numbers)
1	Arunachal. Pradesh	21	47616.53	201209
2	Assam	111	721018.5	17712497
3	Bihar	42	2867117	22345566
4	Chhattisgarh	3	100.05	35596
5	Goa	2	300	27000
6	Gujarat	2	319.97	46400
7	Haryana	1	141279	1053441
8	Himachal Pradesh	6	14461.9	275694
9	J&K	24	232194	1601693
10	Jharkhand	3	17700	196500
11	Karnataka	2	18	80000
12	Kerala	2	3841	10756
13	Manipur	22	39315	201640
14	Mizoram	1	135.68	312
15	Nagaland	14	2463.42	163000
16	Odisha	66	193749	1154300
17	Punjab	4	11383	55500
18	Sikkim	28	48727.87	206534
19	Tamilnadu	5	319516.9	2017103
20	Tripura	11	1964	88480
21	Uttar Pradesh	24	264862	3964469
22	Uttrakhand	18	25908.3	174372
23	West Bengal	15	31636.7	1957250
	Total	427	4985628	53569312
			4.99 (Million Hectares)	53.57 (Millions)