

GOVERNMENT OF INDIA
MINISTRY OF JAL SHAKTI,
DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION
LOK SABHA
UNSTARRED QUESTION NO. 773
ANSWERED ON 17.09.2020

ADVANCED TECHONOLGIES FOR FLOOD FORECASTING

773. SHRI PRADAN BARUAH

Will the Minister of JAL SHAKTI be pleased to state:

- (a) the manner by which the Government plans to mitigate river erosion in Lakhimpur, Diburgarh and Majuli districts of Assam;
- (b) whether the Government is planning to install advanced technologies for flood forecasting and Hydro-Meteorological system, if so, the details thereof and the time by which advanced technologies are likely to be installed;
- (c) whether the Government co-ordinates with Ministry of Railways and Ministry of Road Transport and Highways for a safety/technical audit of rail network, roads and bridges in the region to safeguard against any potential loss of life and asset/infrastructure thereby ensuring seamless connectivity as the geographic area is of strategic importance; and
- (d) if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR JAL SHAKTI & SOCIAL JUSTICE AND EMPOWERMENT

(SHRI RATTAN LAL KATARIA)

(a) As per the view expressed by the experts, floods are natural phenomena except the situations involving failure of flood control structures or faulty regulation of reservoirs; and permanent immunity against floods is not techno-economically feasible. However, impacts of floods & erosion can be mitigated to a certain degree by adopting appropriate structural and nonstructural measures. For the state of Assam, a total of 141 projects costing Rs 2383.11 Cr were approved during XI (100 projects costing Rs 996.14 Cr) Plan and XII (41 projects costing Rs 1386.97 Cr) Plan. Out of these 141 projects, 103 projects were completed during XI and XII Plan. A Central Assistance of Rs 813.75 Cr was released during XI(Rs 748.86 Crore) and XII(Rs 64.89 Cr) Plan. Further a Central assistance of Rs 472.64 Cr during the year 2017-20 has been released. Thus, since start of XI Plan, total Central Assistance released is Rs 1286.39 Cr till date. For the district of Majuli, erosion protection works in different phases has been executed by the Brahmaputra Board.

Further, with the financial assistance of Rs.207cr from MoDONER another scheme “Protection of Majuli Island from flood and erosion” as per recommendations of Technical Advisory Committee of Brahmaputra Board at an estimated cost of Rs.233.57crores" is being executed by Brahmaputra Board.

In Addition to above, the Water Resources Department, Assam has also taken up erosion management schemes in the districts of Lakhimpur,Majuli & Diburgarh. A list of such schemes taken up during last three years in appended at **Annexure-I**.

(b) Central Water Commission has installed 54 stations working on Satellite Based Automatic Data Acquisition System in various river basins in Assam. The Water Resources Department, Assam also has a plan to install Real Time Data Acquisition System (RTDS) under National Hydrology project. This will help in acquisition of real time Hydro Meteorological Data from the proposed stations all over the State of Assam. These stations provide near real time hydro meteorological data such as Water level, Precipitation (Rainfall) etc. This caters to the need of flood forecasting in Brahmaputra & other rivers in Assam.

(c) & (d) Yes, Meetings of the Assam State Committee of Engineers’ are held at regular intervals. Northeast Frontier Railway is a Member of this Committee along with other Stake-holders. Schemes for mitigation of floods and other related infrastructural improvement schemes proposed to be undertaken by Assam Government concerning Railways are discussed in these Meetings. Issues raised by Railways are discussed in these Meetings. Issues raised by Railways to protect the Railway track/embankment/ bridges have to be taken care of while implementing the schemes.

In addition, there are total 88 Nos. Railway Affecting Works (RAWs) and Railway Affecting Tanks (RAT’s) which are inspected every year jointly by Railway Officials and concerned State Government Officials after Monsoon and repair/strengthening/augmentation measures are taken by concerned State Government Department (S) before onset of monsoon.

ANNEXURE-1**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 773 TO BE ANSWERED IN LOK SABHA ON 17.09.2020 REGARDING “ADVANCED TECHONOLGIES FOR FLOOD FORECASTING”****Schemes taken up by the Water Resources Department, Government of Assam in Lakhimpur, Dibrugarh and Majuli districts of Assam to mitigate river erosion**

A) Lakhimpur District

(Rs. In Lakh)

Sl. No.	Source of fund	Name of scheme	Estimated Cost
1.	NABARD (RIDF XXIII) during 2017-18	Protection work on R/B of river Subansiri at Hekerajan near Boginadi (Ph-I)	750.00
2.	NABARD (RIDF XXIII) during 2017-18	A/E measures to protect the Subansiri R/B along with R/S work (from Badati to Kharoi outfall) (Ph-I)	200.00
3.	RIDF XXIV during 2018-19	R/S to Korha L/B dyke from Bhogamukh to Moukhua in between Ch. 0 to 1900m Including A/E measure at different reaches and Improvement of communication network through the dyke (Ph-I)	150.00

B) Dibrugarh District

(Rs. In Lakh)

Sl. No.	Source of fund	Name of scheme	Estimated Cost
1.	NABARD (RIDF XXIII) during 2017-18	Protection of T/dyke along the R/B of river Burhidehing from Deochalli hill to Tipling ghat (Ph-I)	400.00
2.	SOPD-G, 2019-20	Pro-siltation measures at the spill channel of river Brahmaputra near Mulukgaon to protect Mulukgaon and its adjoining areas from the erosion of river Brahmaputra	499.50
3.	SOPD-G, 2019-20	Restoration of damages at Saikhowa bund Ph-I Including existing land Spur at Dirak Chumoni area	500.00
4.	DoNER for 2019-20	Re- Building and Development of the Banks of Brahmaputra (Ananta Nallah) river along with protection of Sarbananda Singha Samadhi Xetra & Guijan and its adjoining areas	1800.00
5.	RIDF-XXV for 2020-21	Anti erosion measures to Tengakhat bund section-III on the R/B of river Buridehing upto Jokai R.F. at 11 th & 12 th Km	250.00
6.	RIDF-XXV for 2020-21	Protection of Tipling-Nagaon area from the erosion of river Buridehing	200.00

C) Majuli District

(Rs. In Lakh)

Sl. No.	Source of fund	Name of scheme	Estimated Cost
1.	RIDF XXIV for 2018-19	Bank Protection work at Barkumua and its adjoining area under Jengrai GP from the erosion of river Subansiri	300.00
2.	RIDF XXV for 2020-21	Bank protection work at Kumarbari area from the erosion of river Kherkotia	180.00
