

1	2	3	4
11.	Rewari	39	0
12.	Sirsa	19	279.60
13.	Sonipat	1	0
14.	Yamunanagar	12	0
TOTAL		245	953.54

Source: MIS, DDWS

Anti-erosion project for protection from floods

884. SHRI KAMAKHYA PRASAD TASA: Will the Minister of JAL SHAKTI be pleased to state:

(a) whether it is a fact that Government is responsible for implementing anti-erosion projects for protection from floods across the country;

(b) if so, the details thereof and the anti-erosion projects sanctioned during the last three years;

(c) whether Government is aware of the breaching of Brahmaputra river at many places every year and if so, the details thereof, year-wise;

(d) whether Government contemplates any action plan or project to check flash floods which occurs in Assam routinely during monsoon; and

(e) if so, the details thereof and if not, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF JAL SHAKTI (SHRI RATTAN LAL KATARIA): (a) and (b) The flood management and anti-erosion schemes are planned, investigated and implemented by State Governments with their own resources as per their priority. The Union Government supplements the efforts of the States by providing technical guidance and promotional financial assistance for management of floods in critical areas. The Government of India has been making continuous efforts

to assist the State Governments in effective flood management. Government of India had launched "Flood Management Programme (FMP)" during XI Plan for providing Central assistance to the State Governments for taking up works related to river management, flood control, anti-erosion, drainage development, flood proofing works, restoration of damaged flood management work and anti-sea erosion works which was continued during XII Plan. For the period 2017-18 to 2019-20, FMP is a component of "Flood Management and Border Area Programme (FMBAP)" Scheme of Ministry.

A total of 522 projects with an estimated cost of ₹ 13238.36 crore were approved and included under FMP during XI and XII Plan. Since start of XI Plan, total Central assistance released to States under FMP up till March, 2019 is ₹5863.95 crore.

The Central assistance released to States under FMP component of FMBAP since 1st April 2017 till date is given in the Statement-I (See below). A Committee under Chairman, Central Water Commission in the year 2018 has reviewed the 522 projects approved during XI and XII Plan under FMP. As per the report of the Committee, 403 schemes have been physically completed.

(c) As informed by Water Resource Department, Government of Assam, the details of breaches in embankments of Brahmaputra River during the year 2017 to 2019 is given in the Statement-II (See below).

(d) and (e) In the State of Assam, a total of 141 projects with an estimated cost of ₹2383.11 crore were approved and included under FMP. During XI Plan, 100 projects with an estimated cost of ₹996.14 crore were approved while during XII Plan, 41 projects with an estimated cost of ₹ 1386.97 crore were approved. Since start of XI Plan, total Central Assistance released by Government of India to State Government of Assam under FMP uptill march, 2019 is ₹1201.36 crore. The Central assistance released to State of Assam during the Financial Year 2017-18 & 2018-19 under FMP are ₹245.49 crores and ₹142.12 crores respectively. The Schemes taken up by Water resources Department, Government of Assam for erosion protection during last three years is given in the Statement-III.

Statement-I

*Central assistance released under FMP component of FMBAP
scheme (Since 1st April, 2017 till September, 2019)*

(₹ in crore)

Sl. No.	States/UTs	Funds released during FY 2017-18	Funds released during FY 2018-19	Funds released during FY 2019-20	Total funds released
1.	Arunachal Pradesh	21.18	-	-	21.18
2.	Assam	245.49	142.12	-	387.61
3.	Bihar	-	16.58	-	16.58
4.	Himachal Pradesh	87.50	162.60	88.20	338.30
5.	Jammu and Kashmir	110.40	52.20	52.62	215.22
6.	Kerala	19.05	-	-	19.05
7.	Mizoram	0.47	-	-	0.47
8.	Nagaland	-	10.84	-	10.84
9.	Uttar Pradesh	13.55	15.58	24.13	53.26
10.	Uttarakhand	-	4.63	-	4.63
11.	West Bengal	65.03	23.65	117.12	205.80
	TOTAL	562.67	428.20	282.07	1272.94

Statement-II

*Details of Breaches in Brahmaputra Embankments Under Water Resource Department,
Government of Assam during the Year 2017 To 2019*

Sl. No.	District	River	Name of Embankment	No. of Breach	Length of Breach (m)	Year-2019	
						Date of Breach	
1.	Nagaon	Brahmaputra	Brahmaputra dyke (Borghuli Ring Bund)	1	50	23.7.19	
2.	Darrang	Brahmaputra	Brahmaputra dyke (Kukra Ring Bund)	1	60	17.7.19	
3.	Kamrup (Metro)	Brahmaputra	Brahmaputra dyke from Khanamukh to Majirgaon	1	30	15.7.19	
Year 2018							
Nil							
Year-2017							
1.	Barpeta	Brahmaputra	B/DykefromBahari to Baghbar	1	35	12.7.17	
2.	Morigaon	Brahmaputra	B/DykefromDhing to Hilloikhunda at Mikirgaon area	1	980	15.7.17	
3.	Majuli	Brahmaputra	B/Dyke from Haidhibari to Bessamora	1	50	12.8.17	
4.	Lakhimpur	Brahmaputra	B/Dyke from Lotachur to Tekeliphuta	1	30	12.8.17	
5.	Nagaon	Brahmaputra	Hatimura dyke from Kukurakata Hill to HatimuraHiU	1	80	13.8.17	
6.	Nagaon	Brahmaputra	B/Dyke from Silghat to Dhing (Lowkhowa Tie Bund)	1	35	13.8.17	

Statement-III*Schemes taken up by Water Resources Department for Erosion Protection during the last three years***(a) Schemes under State Plan for the year 2016-17** (₹ in Lakh)

Sl. No.	Name of Division	Name of scheme	Estimated Amount	Physical Progress
1	2	3	4	5
1.	Nagaon	Anti Erosion measures to protect B/dyke from the erosion of river Brahmaputra at No-1 Bihdubi area	300.00	100%
2.	Nagaon	A/E measures to protect Diphalu from the erosion of river Kollong	68.04	100%
3.	Nagaon	Reclamation of land in the Gakhirkhaity area by chocking of oblique channel of river Brahmaputra	299.95	100%
4.	Nagaon	Anti-erosion measures to protect Magurgaon from the erosion of river Kopili on left bank	99.80	100%

(b) Schemes under State Plan for the year 2017-18 (₹ in Lakh)

1.	Sivasagar	A/E measures to Dikhow bund L/B from Upper Nazira to A T Road (Protection of Nazira town and Haldhibari area)	350.00	85%
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2.	Chirang	A/E measures to protect villages Taisoguri, Garlajhar, Laokriguri and Santikunja from the erosion of Toklai river on L/B	400.00	100%
3.	Kokrajhar	A/E measures to protect village Saralpara from the erosion of river Saralbhanga on L/B	99.95	100%
4.	Dhubri	Anti erosion measures to protect Hatipota, Kathaldi, Kazaikata & its adjoining areas from the river Gaurang on its R/Bank	150.00	70%
5.	Dhubri	Anti erosion measures to protect KutiBhamadanga, Bhamadanga Pt-III and its adjoining areas from flood damages of river Raidak	150.00	90%
6.	Nagaon	Protection of Hatimura dyke from Kukurkata Hill to Hatimura Hill at Sawguri village near HatimuraShivmandir Including beautification	500.00	14%
7.	Haflong	Protection of BoroNarayanpur village and surrounding areas from the erosion of Jatinga river, (Ph-I)	19.98	100%
8.	Haflong	Protection of Rangapur village and surrounding areas from the erosion of Jatinga river (L/B), Ph-1	17.03	100%
9.	Nagaon	Rejuvenation at Kollong river (Bank protection work near Amlapatty area)	146.75	98%
10.	Nagaon	Rejuvenation at Kollong river (Bank protection work near Koliabor B. Ed College)	188.93	40%

1	2	3	4	5
11.	Nagaon	Rejuvenation at Kollong river (Protection work at Teliagaon and its adjoining area)	64.14	98%
12.	Nagaon	Rejuvenation at Kollong river-Protection work near Sishu Bidyapeeth High school at Konworitol	139.09	47%
13.	Nagaon	Rejuvenation at Kollong river-Protection work near Uluoni area Mishamukh area and near Khaloiatl Irrigation Office	168.90	83%
(c) Schemes under SOPD-G for Re-appropriation for 2017-18				
1.	Jorhat	Protection of link Road Neamati Kamalabari Ferry ghat	1494.47	65%
2.	Nagaon	Protection of Hatimura area from Hatimura temple hill to Irrigation Barge	698.10	25%
3.	Nagaon	Protection of Hatimura from Kukurakata Hill to Hatimura hill at Sawguri village near Hatimura Siv Mandir including beautification, Ph-II	315.75	15%
4.	Tezpur	Protection of Chaiduar college from flood problem of river Mora Chatrang	150.41	28%

5.	Kamrup (M)	Protection of Tilling gaon area of North Gumahati from the erosion of Brahmaputra river	195.00	100%
6.	Kamrup (M)	Channelization of river Brahmaputra at Khanamukh, Garigaon, Dharapur and Garal area, Ph-II	199.46	100%
7.	Kamrup(M)	A/E measures to protect Rajabari area from the erosion of river Brahmaputra, Ph-I	199.45	100%
(d) Schemes under CM's special package				
For Lakhimpur & Dhemaji for the 2015-16				
1.	North Lakhimpur	Protection work of RCC porcupine at river Subansiri right bank at Katori Chapori, Kamalpur and its adjoining area	1000.00	100%
2.	Dhakuakhana	Erosion protection at Charikaria river, Dhakuakhana	500.00	100%
3.	Dhakuakhana	Protection of RCC porcupine at Goroimari and its adjoining areas river Subansiri left bank	496.07	100%
4.	North Lakhimpur	Protection of RCC porcupine at Khalihamari and its adjoining areas river	500.00	100%

(e) Schemes under (NABARD) for 2015-16

1	2	3	4	5
1.	Dibrugarh	Anti erosion measures to T/dyke along the R/B of river Buridehing from Bhekulajan to Tipling (near Panchuti) Ph-II	575.00	100%
2.	Jorhat	Anti erosion measures against the erosion of river Brahmaputra at up stream of Swarasath Math	375.00	86% (Completed)
3.	North Lakhimpur	Protection of Subansiri R/B from the erosion of river Subansiri including extension and strengthening of existing check bund at Dhunaguri area	525.00	100%
4.	Kamrup (R)	A/E measures to protect d/s area of Chamariasatra from the erosion of river Jaljali	499.89	100%
5.	Silchar	A/E measures to protect Dudpatil area from the erosion of river Borak on its R/B (Gap portion)	300.00	100%
6.	Sivasagar	A/E measures of ofDikhow bund L/ B from Namdang outfall to Dikhowmukh a t Nakatani, Decial and Raghubari area from the erosion of river Dikhow.	760.00	100%

7.	Nagaon	A/E measures to protect Bhurbandha-Bazargaon and its adjoining area (D/S of Kaliabhomora Bridge) from the erosion of river Brahmaputra	450.00	100%
8.	Baksa	Closing avulsion of Nanoi river at Gariajhar u/s of Bhutiachang steel bridge	836.25	100%
9.	Baksa	Anti-erosion measures to protect different reaches from the erosion of river Baralia	758.00	100%
10.	Morigaon	Anti-erosion work to protect Brahmaputra dyke from 69t h km (Ulubari) to 78th km Borigaon	800.00	84%
11.	Kamrup (M)	Protection of Dharapur and Garal area D/S of Dhoptola bazar from the erosion of river Brahmaputra from Ch. 5500m to 6100m, Ph-II.	350.00	100% /
12.	Kamrup (M)	A/E measures to protect Soalkuchi Chandrapur area from the erosion of river Brahmaputra	651.00	100%
13.	Barpeta	Protection of Pampara, Pun-Mahachara, Kachumara, Alopai, Majerchar and its adjoining areas from the erosion of river Brahmaputra.	850.00	100%
14.	Dhubri	Training of river Champamati by Pro-Siltation measures to protect Barchara, Chikibiki, Naldoba and Bamumtila village	750.00	85%
15.	Badarpur	A/E measures to protect Mahadevpur area from the erosion of river Surma on its R/B near Mahadevpur BOP camp and boundary Pillar No. 1346 in the District of Cachar Ph-II (Ch. 350-700m), (international border area protection)	600.00	85%

1	2	3	4	5
16.	Hailakandi	A/E measures to protect the P.W.D. Road from Kalacherra to Gudamghat at Goalipar under Sudarshanpur Part-III area from the erosion of river Katakhal on its R/B (L=500m)	755.20	100%
17.	Mangaldai	Anti-erosion measures to protect Gadhowa Bazar and its adjoining areas from the erosion of river Tangni (Golandi)	585.60	100%
18.	Barpeta	A/E measures to protect Paschim Moinbari area from the erosion of river Aai-Manas	640.02	60%
19.	Jorhat	Protection of Sonalee Pathar area from the erosion of river Doyang	500.00	100% .
20.	Barpeta	Pro-siltation measures at different reaches on both banks of river Deojara and Kaldia (Review)	681.21	98%
21.	Dibrugarh	A/E measures to Dehing bund left bank from Aghunibari to Sessughat (Protection work at 36th km.)	855.99	100%
22.	Kamrup (M)	A/E measures to protect F/E along L/B of Kollong river from the erosion of river Kollong at different reaches in between ch. 17.00 km to 46.00 km.	750.00	100%
23.	Kokrajhar	A/E meaures to protect village Bamungaon Part-I Y and Part-II and its adjoining areas from the erosion of river Gaurang on its L/B	821.37	100%

24.	Goalpara	A/E measures to protect Krishna Bazar and its adjoining areas from the erosion of river Krishnai	752.79	100%
25.	Goalpara	Anti-erosion measures to protect Jaleswar Beelpara and Superivita area from the erosion of river Brahmaputra	501.51	100%
26.	Dibrugarh	Anti-erosion measures to protect Chapakhowa town and its adjoining areas from the erosion of river Kundil (Ph-IV)	497.47	100%
27.	Dibrugarh	Anti-erosion measures to Dehing bund R/bank from Bhogamur to Sessamukh (Protection work at 10th km)	844.81	100%
28.	Nagaon	Protection of Bihdubi area from the erosion of river Brahmaputra	757.65	100%
29.	Tezpur	Extension of existing protection works at U/S of different location and D/S from ch. 225 m to ch. 825 m of BardikaraiBamunipani area of river Jiabharili L/Bank	733.50	100%
30.	Barpeta	Protection of B/B from the erosion of river Bhellengi at different reaches	651.33	100%

(f) Schemes under NABARD (RIDF-XXHIII) for 2017-18

1	2	3	4	5
1.	Kamrup (R)	Anti erosion measures to protect Kalbagan area from the erosion of river Brahmaputra	350.00	100%
2.	Mangaldai	A/E measures to B/B of river Saktola to protect the village Pariapara, Neopara, Muslimchuba, Dakhin Bokrajhar from erosion of river Saktola	449.69	70%
3.	Mangaldai	A/E measures to protect Chereng Bazar and its adjoining atreas from the erosion of river Mangaldai and Brahmaputra	466.55	74%
4.	Kamrup (M)	Pro-Siltation measures to protect Sarulah-Barlah village and its adjoining areas from the erosion of river Brahmaputra	500.00	100%
5.	Kamrup (M)	A/E measures to protect Panikhati and Sontoli area from the erosion of river Brahmaputra	650.00	100%
6.	Kamrup (M)	Channelisation of river Brahmaputra at Khanamukh, Garigaon, Dharapur and Garal area, Ph-1	750.00	100%
7.	Morigaon	A/E works to protect from Muwamari to Leruamukh area from the erosion of river Brahmaputra	400.00	60%

8.	Kokrajhar	A/E measures to protect village Simultapu Block, Simultapu-II and Birgaon village from the erosion of river Sonkosh under NABARD	300.00	100%
9.	Kokrajhar	A/E measures to protect village Umanagar and its adjoining areas from the erosion of river Gangia	200.00	100%
10.	Chirang	A/E measures to protect village AiePoali No.1,2, Khanibhur and its adjoining areas from the erosion of river Aie on R/B (Ph-1)	400.00	100%
11.	Dhubri	A/E measures to protect Bhangaduli and Pub Kaldoba village from the erosion of river Gangadhar	475.00	75%
12.	Dhubri	Training of river Kanibhur and Kujia by prosiltation measures against severe damage at Bhadrangaon village and its adjoining areas	98.00	60%
13.	Nagaon	Protection of Hatimura dyke and its adjoining areas from the erosion of river Brahmaputra	550.00	30%
14.	Nagaon	A/E measures to protect Borghuli and its adjoining areas from the erosion of river Brahmaputra	750.00	30%
15.	Nagaon	A/E measures to protect Pub Guimari and Pachim Guimari from the erosion of river Kopili, Ph-I	400.00	40%
16.	Nalbari	A/E measures to protect the R/B of B/dyke from Adabari to Kukarjan (at Saikiapara area) from Ch. 5,830m to Ch. 7,270m	325.00	80%

1	2	3	4	5
17.	Dibrugarh	Protection of T/dyke along the R/B of river Burhidehing from Deochalli hill to Tiplingghat (Ph-I)	400.00	100%
18.	Dibrugarh	Construction of embankment to prevent the back flow of Brahmaputra river water at Barekuri area (Ph-I)	800.00	28%
19.	Haflong	Protection of Siding area at Maibang (Near Dimasa Kingdom Stone House) from erosion of river Mahur (L/B)	88.96	75%
20.	Haflong	Protection of Mahur Town area from the erosion of Diyung river	72.37	100%
21.	North Lakhimpur	Protection work on R/B of river Subansiri at Hekerajan near Boginadi (Ph-I)	750.00	45%
22.	North Lakhimpur	A/E measures to protect the Subansiri R/B along with R/S work (From Badati to Kliaroi outfall) (Ph-I)	200.00	55%
23.	Barpeta	A/E measures to protect Sundardia Satra and its adjoining areas from the erosion of river Nakhanda (Ph-I)	407.00	70%
24.	Sivasagar	A/E measures to protect Sonari Town and its adjoining areas near Ward No. 12 from the erosion of river Towkak	300.00	100%
25.	Baksa	A/E measure at different reaches of Bhola river on its B/B	600.00	45%

26.	Baksa	A/E measures including closing avulsion of Suklai river on its B/B under Udalguri district	500.00	55%
27.	Baksa	Reconstruction of existing submersible dam at Tarabari including protection works on its R/B in the river Dhansiri	600.00	50%
28.	Hailakandi	A/E measures to protect Sahabad-Rongpur area including NH-154 from the erosion of river Khatakhai on its L/Bank (Length=165m)	350.00	-
29.	Badarpur	A/E measures to protect Mohadevpurarae from the erosion of river Surma on its R/B near Mohadevpur B.O.P. Camp and Boundary Pillar No. 1346 in the district Cachar (International Border Area Protection) Ph-I	350.00	-
30.	Jorhat	A/E measures at different reaches of Bhogdoi river on both bank in between Mariani town and Jorhat town Ph-I (NABARD-RIDF-XXII)	500.00	40%
31.	Jorhat	A/E measures at different reaches of Jhanji river (Construction of single barrel box sluice culverts on Jhanji bund L/B at Bhakatgaon and Hatiporagaon)	160.00	5%
32.	Jorhat	A/E measures to protect Daldolia and Ikorani area including Dergaon Township and Basic Training Centre from the erosion of river Gelabeel	250.00	100%

1	2	3	4	5
33.	Goalpara	A/E measures to protect Baladmari and its adjoining area from the erosion of river Brahmaputra	450.00	70%
34.	Tezpur	Protection of Gangmouthan and its adjoining areas from the erosion of river Borgarig on L/Bank	500.00	70%
35.	Tezpur	Protection of Left bank of river Jiabharali at up stream of NH-52	450.00	88%
36.	Tezpur	A/E measures to protect both bank of river Gabharu at Puthimari and Nabeel area from the erosion of river Gabharu (including R/S works)	400.00	57%
37.	Nalbari	A/E measures against bank erosion at different reaches of river Tihu (Bhadrakuchi and its adjoining areas)	200.00	85%
38.	Barpeta	A/E measures to protect Safarkamar and its adjoining area from erosion of river Beki	400.00	100%
39.	Morigaon	Protection of Sarukuloi area including R/S to ring bund at Dimoruguri, Satabori and Borkuloi along R/B of Kollong river	400.00	50%
40.	Barpeta	Protection of Jadavpur, Donga and its adjoining areas by channelisation of river Brahmaputra and reclamation of eroded land within the reach	300.00	80%