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**Irrigation and Waterways Directorate  
Government of West Bengal**

**Annual Flood Report  
2023**

**DIRECTOR**

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# **ANNUAL FLOOD REPORT 2023**

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## **PREFACE**

West Bengal being the lowermost riparian state of Ganga Basin and situated at the foothills of several Himalayan rivers of Brahmaputra Basin, the problem of flood management and drainage is quite acute here. Most of the rivers in the State originate from outside the State boundary and thus they are either of inter State or International category. The State has often witnessed destructive flood, even without any substantial rainfall within the geographical limits of its own. Along-with flood and water logging, various allied problems like bank erosion, embankment breach, drainage congestion and cyclonic storm has often accentuated the flood disaster. The coastal areas along the Sundarbans delta, which happens to be the largest delta of the world, often experience high tidal surges resulting in severe erosion and inundation to the country sides. In a nutshell, West Bengal has about 43% of its geographical area as flood prone, happens to be one of the prime flood-affected States in the country.

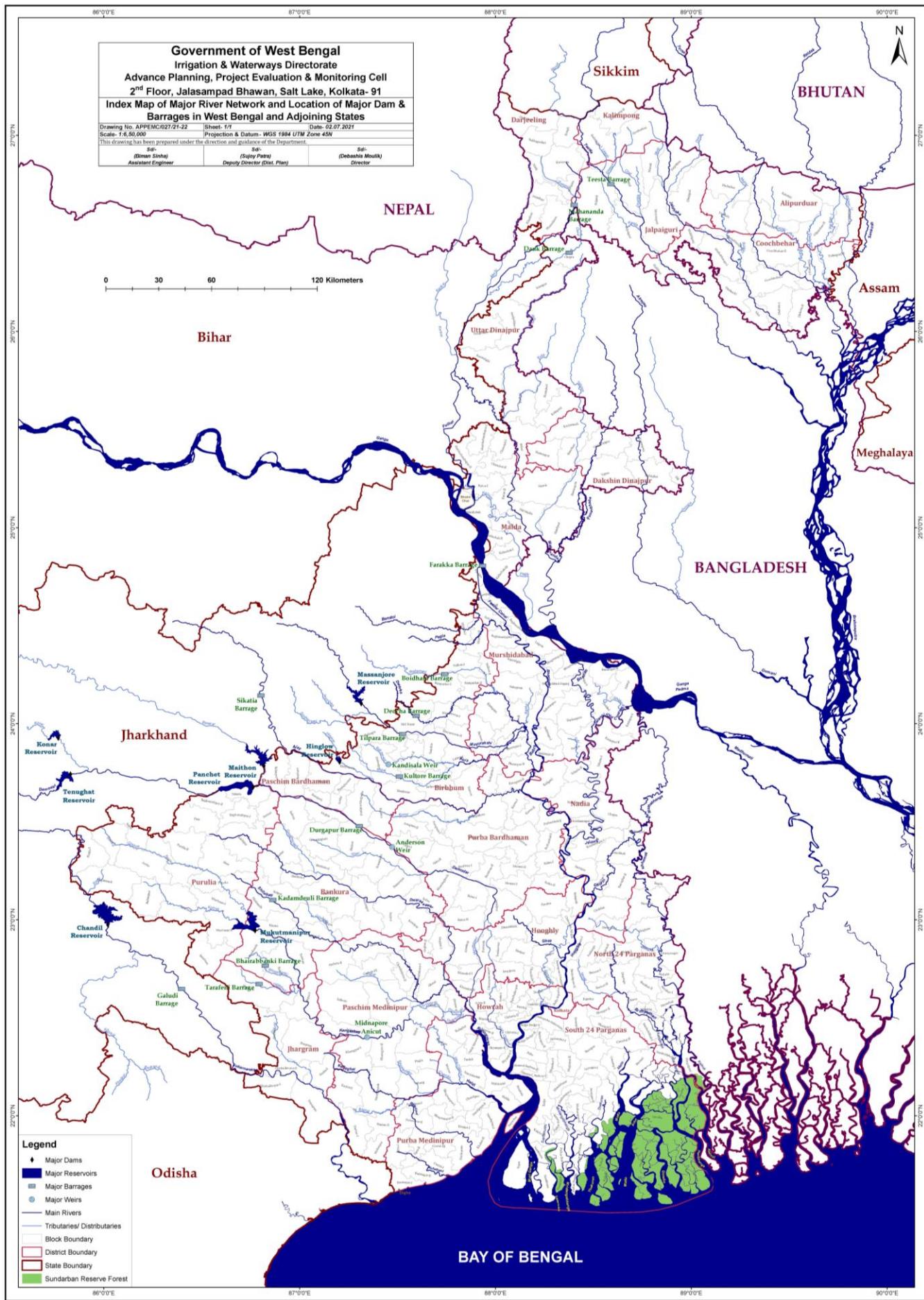
The flood and water related disasters and associated problems in West Bengal has become almost an annual feature. Many parts of the State get onslaught of flood water almost every year resulting in severe loss to standing crops, cattle and properties. Statistically, this flood fury has increased during the last two decades.

To protect the country-side from flood ingress during peak monsoon and high tide, flood embankments are constructed along the vulnerable river banks. Those embankments constructed in various districts of the State in general and in the deltaic Sundarbans in particular, are used as prime communication links, particularly during the period of natural calamity for safe passage of people and relief materials. It virtually serves as vital lifeline to the affected areas during adverse situation. Disruption of such communication links by way of subsidence and sudden breach during flood creates disaster. Daily life in the affected areas get jeopardized as the areas become devoid of basic amenities of life.

Factors such as intensity and duration of rainfall, sedimentation of river bed, imprudent reservoir control, tidal lockage, obstruction and encroachment in natural waterways play vital role in the occurrence of flood. Basin-wise study of flood factors and evaluation of flood hazards are indispensable for chalking out future effective plans for flood control and management measures. Accordingly, Irrigation & Waterways Directorate at the end of every flood season ritually brings out an Annual Flood Report incorporating the history of rainfall patterns of the monsoon season, district rainfall records, and major river gauge levels across the State, reservoir inflow-outflow and major flood events of the year.

Throughout the year, overall average rainfall of the State is 8.1% below normal. The rainfall in the north is 4.5% less than normal while in the south, it is 14.7% less than normal. Significant incessant rainfall in frequent spells observed in the month of June, August and September for North Bengal while in August, September and October for South Bengal made few rivers to flow in high stages and as a consequence some damages had occurred. Few damages had also occurred at vulnerable spots of the coastal earthen embankments due to effect of Bhora Kotal synchronized with rain and easterly wind. However, the restoration works were well undertaken by the Department during the year 2023.

## RIVER NETWORK IN WEST BENGAL



## 1. INTRODUCTION

Geographically, the State of West Bengal is capped by the Himalayan snow-peaks in the North and frothy sea of Bay of Bengal on the South. The terrain is a combination of land varying from hilly regions in the north and partly high plateau in the south-west to the Gangetic alluvial plains in the rest areas. The State is beset with extensive network of rivers, their tributaries, rivulets, jhoras, irrigation canals, wetlands, ponds, beels and low-lying pockets of water bodies. With the Tropic of Cancer passing across it, the State is situated in between 21°31' & 27°13'14" North Latitudes and 85°45'20" & 89°53' East Longitudes.

Salient features of West Bengal are given below in seriatim to give an outline of the flood situation of the State.

### **Salient Features:**

Geographical area of State	:	88,752 sq. km.
Population (as per last census, 2011)	:	9.13 crores
No. of Districts	:	23
Total no. of blocks	:	341
No. of flood susceptible districts	:	19
No. of Vulnerable blocks	:	198 (in Flood & Tidal inundation)
River basins (with CWC code)	:	Ganga (2A), Brahmaputra (2B), and Subarnarekha (6).
Number of River Sub-basins	:	39
Total Catchment area	:	1,80,628 sq. km.
Catchment area outside of the State	:	91,876 sq. km. (outside of West Bengal but within India: 57624 sq.km. & outside of country: 34,252 sq.km.)
Annual average rainfall	:	1,826 mm (Northern part: 2750 mm, Alluvial & Deltaic plain: 1650 mm, Western plateau: 1450 mm)
Total flood prone area	:	38,168 sq. km.
Area already protected	:	35,380 sq. km.
Length of Embankment	:	10,584 km.
Length of Drainage Channel	:	8,409 km.
Length of erosion protection work other than embankments	:	2,389 km.
Length of sea wall	:	67 km.
Total number of Outfall sluices	:	2,781
Number of Pumping stations	:	20
Surface water potential	:	132.77 BCM
Ground water potential	:	27.58 BCM

## 2. RIVER SYSTEMS AND FLOOD PROBLEMS

West Bengal, a part of Bengal Delta, has a long-recorded history of flood. At present 42.5% of total area of the State is susceptible to flood. Reason is the landmass of the State was formed by the Ganga-Padma system of rivers through the delta building process of which flood being the main carrier of sediments, the bulk of fluvial deposit, in huge volumes. The highest affected area as recorded in 1978 is about 30,607 sq. km and in 2000, it is about 23,971 sq. km.

Most of the rivers in the State are either Inter-State or International in character. The flood problems of the State are of different nature at different regions which are described below.

### 2.1. In North Bengal:

In North Bengal, rivers viz. **Teesta, Torsa, Jaldhaka, Raidak** and **Sankosh** after originating in the neighboring countries of Bhutan and Tibet and the State of Sikkim, flow downwards through the districts of Darjeeling, Kalimpong, Jalpaiguri, Alipurduar and Coochbehar to meet the River Brahmaputra at different locations in Bangladesh, another neighbouring country. The combined catchment of all this system of rivers up to the international border is 37,545 sq. km.

The rivers of the districts of Uttar Dinajpur and Dakshin Dinajpur namely, **Dauk, Nagor, Kulik, Tangon** and **Punarbhava** after originating at Bangladesh pass through these districts and either directly or indirectly contribute catchment discharges into the River Ganga-Padma in Bangladesh after the Farakka Barrage. River **Atreyee**'s major upstream inflow from Bangladesh, runs across Dakshin Dinajpur and outfalls into River Brahmaputra in Bangladesh again. The combined catchment area of the river system up to the international border is 8,873 sq. km.

The southern part of district Malda through which the River **Ganga** flows receives its flood water from about 11 States and is battered by the run-off flow generated from these vast areas. Ultimately the river flows down the Farakka Barrage to Bangladesh. The western side of the Malda district receives floodwater mostly from neighboring country of Nepal and State of Bihar through a network of rivers called **Mahananda** and **Fulahar**. Fulahar, after flowing straight south, joins with Ganga upstream of Farakka barrage while Mahananda turns towards south-east and after bifurcating Malda, outfalls into River Ganga-Padma at downstream of Farakka Barrage in Bangladesh. The combined catchment of Mahananda-Fulahar system is 19,342 sq. km.

Major contributing factors to flood in North Bengal regions are the run-off because of heavy local rainfall, discharge of upper basin areas and also outfall condition in the neighboring countries. The Mahananda and most of the rivers of Uttar and Dakshin Dinajpur districts get stagnated when the Ganga upstream and downstream of Farakka Barrage rules high thereby not allowing drainage of flood discharge during that period.

### 2.2. In South Bengal:

There are certain distinctive features of drainage condition which give rise to flood situation in south Bengal. The flood in this zone becomes voluminous because of the shape of the catchment area, its steep slope starting from a high-level plateau area and sloping sharply down to a flat terrain near the

outfall of limited capacity. This feature is again adversely affected by tidal conditions as is generally noticed in the month of September, the likely month of occurrence of flood.

Basin-wise there are quite a number of river systems on the right bank of the river Bhagirathi-Hooghly like **Pagla-Bansloi, Dwarka-Brahmani, Mayurakshi-Babla** and **Ajoy**. These rivers together drain out flood water from an area of 18,177 sq. km, spread over the State of Jharkhand (i.e., Chotanagpur Plateau) and the districts of Birbhum, western part of Murshidabad, Purba & Paschim Bardhaman, and finally outfall into river **Bhagirathi**. Carrying capacity of the river Bhagirathi is only 25% of the combined peak flood discharges generated from these basins because of simultaneous heavy rainfall, as it occurred during the flood of September 2000. In this vast tract of land there is one major reservoir, that is, Massanjore Dam over river **Mayurakshi** which interferes the flood discharge of only 11% of aforesaid combined catchments.

On the left bank of the Bhagirathi River system the **Bhairab-Jalangi-Sealmari** group of rivers originate from Ganga-Padma at Akherigunj in Murshidabad district and meet the Bhagirathi at Swarupgunj in Nadia District. This system of rivers between them drains a total area of 2,537 sq. km. of Murshidabad and Nadia districts. Generally, this area suffers from flood because of three reasons – (i) high intensity rainfall in the basin area itself (ii) inflow of flood water from Ganga-Padma at its high spate and (iii) drainage congestion at its outfall because of high stage of river Bhagirathi during high tide.

In the **Damodar-Barakar** River system, the rivers originate at Chotanagpur plateau of Jharkhand and flows down the plains of West Bengal to outfall into the **Rupnarayan-Hooghly** system through two channels namely **Mundeswari** and **Amta Channel**. The catchment area up to **Durgapur Barrage** is 18,026 sq. km. as against total catchment of 24,341 sq. km. In this catchment area there are only 4 (four) reservoirs having a storage capacity of 1.21 BCM. The original concept of flood storage was to have an area reserved for storing a volume of 3.58 BCM. Thus, with this limited flood storage capacity the storage dams at present can modify only the peak flood discharge. Any discharge above 70,000 cusecs downstream of Durgapur barrage may cause flood depending on the outfall condition of the Mundeswari at Harinkhola.

The **Shilabati-Darakeswar** and **Kangsabati-Kaliaghai** river systems which have combined catchment areas of 16,938 sq. km spread out in the districts of Purulia, Bankura, Jhargram, Paschim and Purba Medinipur outfall into river **Rupnarayan** and **Haldi** respectively which finally meet river Hooghly. The **Kangsabati-Kumari dam** at Mukutmanipur, Bankura intercepts flood discharge of only 22% of the aforesaid combined catchment area. In this basin spillway discharge from Kangsabati dam above 50,000 cusecs may cause flood at lower reaches downstream of **Mohanpur Anicut** near Midnapore Town depending on tidal condition of the outfall and rainfall in the uncontrolled catchment downstream of Kangsabati dam.

The **Mathabhanga-Churni-Ichamati** system of rivers originate at the Mathabhanga off-taking from Ganga-Padma downstream of Farakka Barrage in Bangladesh and on reaching West Bengal at Majdia in Nadia district, bifurcates in two branches (i) the Churni flowing on South-Westerly direction meeting the Bhagirathi at Ranaghat and (ii) the other branch namely, the Ichamati flowing on South-Easterly direction to meet Bay of Bengal through the

creek of **Raimangal**. The main flood situation in this area arises because of inflow from Ganga-Padma (when it rules high), rainfall in the own catchment area and also tide lockage. In 2000 flood, a very unusual situation arose where the Bhagirathi transferred a large volume of its floodwater to this basin area by breaching its embankments at several places.

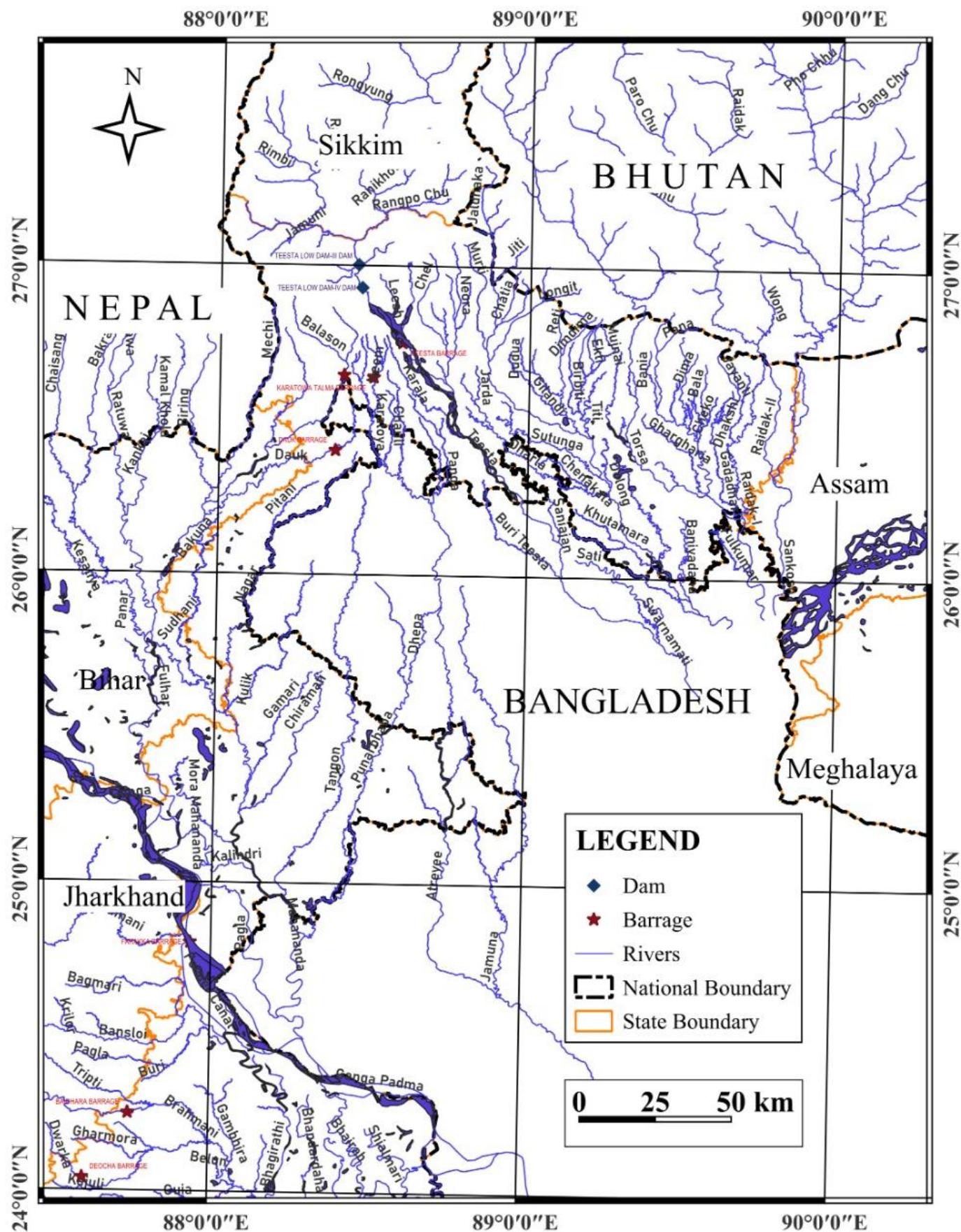
Index map of river system in North Bengal and South Bengal is presented below. The inventories of rivers, tributaries, branch channels within the sub basins have been presented in **Annexure-I**.

### **2.3. Historical record of flood:**

Historical record of flood available in West Bengal from 1960 till present year i.e. 2023 is given below:

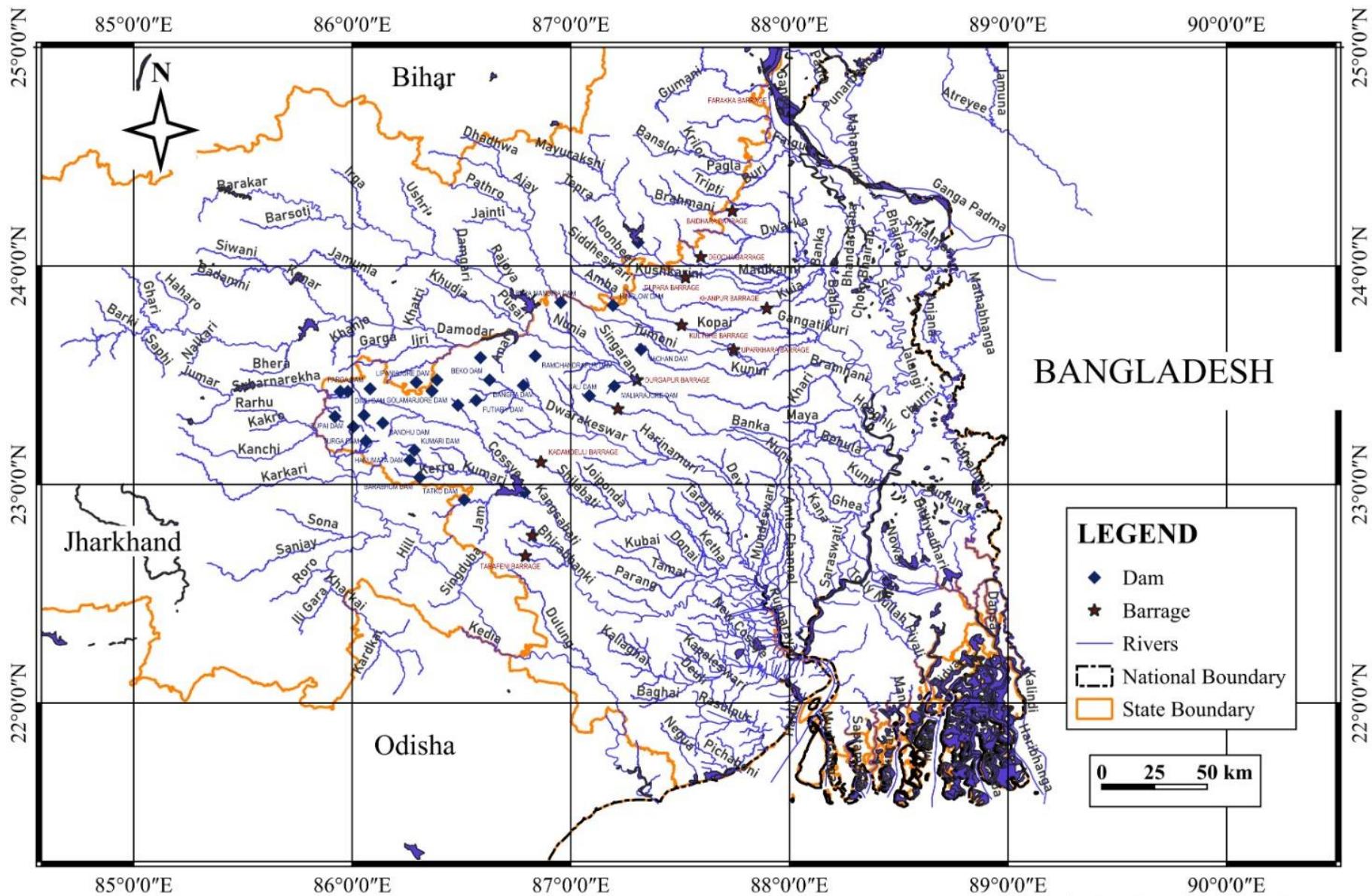
<b>HISTORICAL RECORD OF FLOOD IN WEST BENGAL</b>		
<b>Flood affected Area (in Sq. Km.)</b>	<b>Years during which Flood occurred (1960 to 2023)</b>	<b>Total Number of Years</b>
Below 500	1985, 1989, 1992, 1994, 1997, 2001, 2002, 2005, 2006, 2010, 2012, 2013, 2014, 2016, 2018, 2019, 2022 & 2023	18
Between 500 – 2,000	1962, 1963, 1964, 1965, 1966, 1972, 1975, 1996, 2003, 2004, 2011, 2015 & 2020	13
2,000 – 5,000	1960, 1961, 1967, 1969, 1970, 1974, 1976, 1980, 1981, 1982, 1998, 2009, 2017 & 2021	14
5,000 – 10,000	1973, 1977, 1991, 1993, 1995, 2007 & 2008	7
10,000 – 15,000	1968, 1979, 1983, 1990 & 1999	5
15,000 – 20,000	1971, 1986, 1987 & 1988	4
Above 20,000	1978, 1984 & 2000	3

# Index Map of North Bengal Rivers



Prepared at State Data Centre, I &amp; WD

# **Index Map of South Bengal Rivers**



### 3. DETAILS OF RIVER BASINS AND SUB-BASINS

The State can be demarcated into three distinct drainage basins namely Ganga (CWC basin code no. 2A), Brahmaputra (CWC basin code no. 2B) and Subarnarekha (CWC basin code no. 6) basins respectively. Ganga basin has been further divided into two parts namely Bhagirathi lower & others and Damodar. These three main river basins can be divided into sub-basins having individual catchment of their own. Index maps of different river sub-basins and basins are presented in **Annexure-II**.

#### 3.1. BRAHMAPUTRA BASIN

The rainfall in the northern region of the State is generally high. The ground slope is steep, particularly in the Sub-Himalayan regions of the northern districts. Most of these northern districts belong to Brahmaputra basin. This system consists of a total area of 10,584 sq. km., nearly 12% of the geographical area of the State. This basin area is interspersed with a large number of drainage channels, which join the main drainage arteries of the regions like the rivers Teesta, Torsa, Raidak, Jaldhaka etc. All these rivers originate from the Himalayas in neighboring countries Bhutan and Tibet as well as neighboring state Sikkim, flow across Terai region and reach the plains of West Bengal and then flow towards another neighboring country Bangladesh to join River Brahmaputra. The catchment area distribution of this basin and sub-basins bounded within different neighboring States and countries has been presented in the following table.

Distribution of Catchment Area of River Basins & Sub-Basins of West Bengal									
CWC Basin Code	River Basin	Sub-Basins	CATCHMENT AREA (Sq. Km.)						TOTAL (Sq. Km)
			Assam	Sikkim	West Bengal	Bangla-desh	Bhutan	Tibet	
<b>BRAHMAPUTRA</b>									
2B	Brahmaputra Lower	Jaldhaka		76	3916	351	959		5302
		Raidak			246		4590	16	4852
		Sankosh	175		162		9734	75	10146
		Teesta		7000	3012	12		29	10053
		Torsa			3248		2363	1581	7192
		<b>Sub-Total</b>	<b>175</b>	<b>7,076</b>	<b>10,584</b>	<b>363</b>	<b>17,646</b>	<b>1701</b>	<b>37,545</b>

##### 3.1.1. Sankosh Sub-basin

The river Sankosh with its origin in Bhutan is the eastern most river of Brahmaputra River basin. It serves as the boundary between the two states West Bengal and Assam. It joins with Raidak-II and finally falls into Brahmaputra in Bangladesh by name Gadadhar. The length of Sankosh in West Bengal is 24 km. The total catchment area of this river sub-basin is 10,146 sq.km.

##### 3.1.2. Raidak Sub-basin

It originates in Mt. Akungphu at an altitude of 6,400 m. in Bhutan. The river Raidak then bifurcates into two channels namely Raidak-I and Raidak-II at Bhutanghat, close to Indo-Bangladesh border. Raidak-I joins the united stream of Torsa and Kaljani, while Raidak-II is joined by Sankosh and finally outfalls into Brahmaputra in Bangladesh by the name Gadadhar. The

length of Raidak-II is around 50 km in West Bengal. The total catchment area of Raidak-II river sub-basin is 4,852 sq.km.

### **3.1.3. Torsa Sub-basin**

The river Torsa originates in Chumbi Valley of southern Tibet at an altitude of 7,065 m. It flows through Tibet, Bhutan, West Bengal and Bangladesh. Below Hasimara Bridge on NH-31, it bifurcates into two channels namely Sil-Torsa and Char-Torsa. They reunite at PatlaKhowa forest. The river passes by the Coochbehar town and is joined by river Kaljani and Raidak-I. The combined flows outfalls into Brahmaputra near Nageswari at Rangpur in Bangladesh. The total length of this river is 222 km out of which 74 km is situated within West Bengal. The total catchment area of this river sub-basin is 7,192 sq.km.

### **3.1.4. Jaldhaka Sub-basin**

The river Jaldhaka has its origin at Bitang Lake in Sikkim at an altitude of 4,400 m. It flows through Sikkim, Bhutan, West Bengal and Bangladesh. After the river is joined by a number of streams and tributaries; both in mountainous and sub-mountainous regions, it finally flows into river Dharala and the combined system, by the name Dharala ultimately outfalls into Brahmaputra in Bangladesh. The total length of this river is 192 km out of which 122 km is situated within West Bengal. The total catchment area of this river Sub-basin is 5,302 sq.km.

### **3.1.5. Teesta Sub-basin**

Teesta, the mighty river of North Bengal originates in the glaciers of North Sikkim at an altitude of 6,400 m and is formed by the union of two streams viz. Lachen and Lachung at Chunthung in Sikkim. It enters West Bengal at Rangpo and upto Mechi, it forms the boundary between West Bengal and Sikkim. Two of its tributaries, Great-Rangeet and Rammam also serve as the natural boundary between the two States. The river finally outfalls into Brahmaputra in Rangpur district of Bangladesh. The total length of this river is 309 km. out of which 103 km. is situated within Sikkim and 121 km. in West Bengal. The total catchment area of this river Sub-basin is 10,053 sq. km. Under '**Teesta Barrage Project**', a barrage has been constructed at Gajoldoba in Jalpaiguri district.

## **3.2. GANGA BASIN**

The two holy rivers - Bhagirathi and Alakananda originating from the glaciers of the Himalayas at an altitude of 7,000 m join at Devprayag and the combined stream is known as the Ganga. It emerges into the plains at Rishikesh in Uttarakhand. After flowing exclusively through Uttarakhand and Uttar Pradesh, it receives the flow of Yamuna, one of its major tributaries near Allahabad. The other major tributaries of Ganga are Ton, Gomti, Ghaghara, Son, Gandak, Kosi and Fulahar. The Ganga forms the boundary between Uttar Pradesh and Bihar for a length of about 110 km and the river then enters Bihar and flows more or less through the middle of the state. After its confluence with the Kosi, the Ganga continues its eastward flows in Bihar for about 40 km.

At Bhagalpur of Bihar, the river begins to flow south-southeast and as it enters West Bengal, the river swings round the Rajmahal hill range. It begins its attrition with the branching away of its first distributary, the Bhagirathi-Hooghly, which goes on to become the Hooghly River after meeting with Jalangi near Nabadwip and ultimately outfalls into the Bay of Bengal near Sagar Island. Just before the border with Bangladesh, the Farakka Barrage controls the flow of the Ganges, diverting some of the water into a feeder canal linked to the Hooghly for keeping it relatively silt-free.

The North-Central, South-Central, Western, Southwestern and Southern parts of West Bengal constitute the Ganga Basin. This basin is largely divided into two major sub-basins namely Bhagirathi lower and Damodar. The total length of the river Ganga from its point of origin to the point where it falls into sea is about 2,575 km. (measured along Bhagirathi and the Hooghly) of which 1,450 km. lies in Uttarakhand and Uttar Pradesh, 110 km along Uttar Pradesh and Bihar border, 445 km. in Bihar and 570 km. in West Bengal.

The Ganga system comprises a total area of 74,575 sq. km. within the state of West Bengal. The catchment area distribution of this basin and sub-basins bounded within different neighboring states and countries has been presented in the following table.

Distribution of Catchment Area of River Basins & Sub-Basins of West Bengal								
CWC Basin Code	River Basin	Sub-Basins	CATCHMENT AREA (Sq. Km)					TOTAL (Sq. Km)
			Bihar	Jharkhand	Orissa	West Bengal	Bangladesh	
<b>GANGA</b>								
2A	Bhagirathi and Others (Ganga Lower)	Atreyee				1627	2262	3889
		Fulahar	2940			325		2684 5949
		Mahananda	2739			6040	1319	3295 13393
		Punarbhava				1125	1809	2934
		Tangon				1244	806	2050
		Ajay	386	3204		2503		6093
		Amta Channel Kana Damodar				1490		1490
		Bansloi		1794		119		1913
		Behula				549		549
		Bhagirathi-Hooghly		1292		4160		5452
		Bidyadhami				2014		2014
		Brahamani		985		154		1139
		Churni				975	1304	2279
		Dwarka		329		2649		2978
		Ganga-Padma				1673		1673
		Gheea				1167		1167
		Ichamati				2313	1063	3376
		Jalangi				2537		2537
		Khari				2268		2268
		Mayurakshi		2949		2529		5478
		Pagla		239		337		576

Distribution of Catchment Area of River Basins & Sub-Basins of West Bengal									
CWC Basin Code	River Basin	Sub-Basins	CATCHMENT AREA (Sq. Km)					TOTAL (Sq. Km)	
			Bihar	Jharkhand	Orissa	West Bengal	Bangladesh		
		Sundarban area				10209		10209	
Damodar, Rupnarayan And Others	Damodar		17087		4325			21412	
	Dwarakeswar				4292			4292	
	Haldi				614			614	
	Kaliaghai				1913			1913	
	Kangsabati	321			6324			6645	
	Mundeswari				1439			1439	
	Pichabani			17	791			808	
	Rasulpur				1556			1556	
	Rupnarayan				1226			1226	
	Shilabati				4088			4088	
		Sub-Total	6,065	28,200	17	74,575	8563	5979	1,23,399

### 3.2.1. Mahananda-Fulhar Sub-basin

The river Mahananda originates from Ghoom near Darjeeling town in the district of Darjeeling. It is bounded on the north by the Himalayas, in the east by the ridges separating it from Teesta river system, the river Ganga on the South and the Kosi river system in the east. The river bifurcates into two channels at Barsoi in Bihar. Out of the two branches one flows through Bihar by the name Fulahar and the other flows through West Bengal as Mahananda. The river Mahananda carrying the flow of four tributaries namely, Nagar, Kalindri, Tangon and Punarbhaba, drains into the river Ganga from the Northwestern side at Godogarighat just downstream of the point where Ganga leaves the boundary of West Bengal. The combined catchment area of these two Sub-basins is 19,342 sq. km. Under '**Teesta Barrage Project**', a barrage has been constructed over **Mahananda** near Fulbari and another pick-up barrage has been constructed over river **Dauk** near Chopra of North Dinajpur district, which is a tributary of Mahananda.

### 3.2.2. Atreyee Sub-basin

Some rivers like Sahu, Neem, Talma, Chaoai, Panga originating from the high lands in districts of Jalpaiguri and meet together to form Kartowa which then enters into Bangladesh by the name Atreyee. The river Atreyee then bifurcates into two channels namely Dheepa and Atreyee. The Western Channel named Atreyee re-enters into West Bengal in South Dinajpur district covering a length of 40 km in the State. It again enters into Bangladesh and ultimately outfalls into river Jamuna after passing through Chalanbeel. The total catchment area of this river sub-basin is 3,889 sq.km at the point of leaving West Bengal boundary.

### 3.2.3. Punarbhaba Sub-basin

The river Dheepa after emerging out from Atreyee in Bangladesh, has taken a South - Western course to enter into South Dinajpur district assuming the name Punarbhaba. Covering a length of about 40 km. in the district, it touches the eastern boundary of Malda district and finally enters into

Bangladesh. Further down, Punarbhaba meets the river Mahananda in Bangladesh. The catchment area of this sub-basin is 2,934 sq. km.

### **3.2.4. Nagar-Kulik, Gamari-Chiramati, Tangon Sub-basins**

All these rivers flow through the districts Malda and North Dinajpur and outfall into the river Mahananda. In course of their flow, somewhere they form the boundary either between West Bengal and Bihar or between West Bengal and Bangladesh. Nagar, originating in Bangladesh flows along the boundary of West Bengal and taking a Southeastern course, receives a spill channel of Mahananda and is joined by Kulick, which has also its origin in Bangladesh.

Gamari and Chiramati (or Srimati) are two small rivers that flow through North Dinajpur district before they are united. This combined streams finally outfalls into the river Mahananda. Tangon is a tributary of river Mahananda. It rises in Bangladesh. It flows through the district of North Dinajpur and Malda and meets Mahananda on the boundary of Malda and Bangladesh. The catchment area of Tangon is 2,050 sq. km.

### **3.2.5. Bhagirathi-Hooghly Sub-basin**

**Farakka Barrage** diverts water from river Ganga into Bhagirathi through a channel known as **Feeder canal** near Tildanga town of Murshidabad district in order to ensure minimum flow in Bhagirathi especially during dry season. This canal flowing parallel to Ganga passes Dhulian and ends just above Jangipur where Bhagirathi takes its own course. Two right bank tributaries namely Pagla and Bansloi outfall into the Feeder canal before it turns into actual Bhagirathi. It has been renamed as river Hooghly as it passes on the eastern side of Hooghly district until it outfalls into the Bay of Bengal near Sagar island.

During its entire course from origin to outfall, Bhagirathi has formed boundaries between the districts of Purba Bardhaman & Nadia, Hooghly & North 24-Parganas, Howrah & Kolkata, Purba Medinipur & South 24-Parganas. River Ajay, Mayurakshi, Damodar (Amta Channel), Rupnarayan and Haldi are the major tributaries on its right bank while river Jalangi and Churni are the major tributaries on its left bank. Some other minor tributaries on its right bank are Khari, Behula, Ghea and Rasulpur. Moreover, there are so many small drainage channels and khals which directly outfall into this river from its both banks thus forming local catchment areas of 5,452 sq.km. The Tolly's Nullah or the Adi-Ganga, as it is sometimes called is a small but important tidal creek draining into the river Hooghly from the left near the city of Kolkata.

One important factor that affects the drainage potential of river Hooghly is the effect of tides. The tide runs rapidly on Hooghly and produces a remarkable example of the fluvial phenomenon known as a '*tidal bore*'. This consists of the head-wave of the advancing tide, hemmed in where the estuary narrows suddenly into the river, and often exceeds 2.1 m. in height. The difference from the lowest point of low water in the dry season to the highest point of high water in the rainy season is reported to be more than 6 m. It has been observed that the incident of flood devastation in the districts

of Purba & Paschim Medinipur, Howrah and Hooghly occur mostly when high flood discharges from Jharkhand districts along-with those from Bankura, Birbhum, Paschim Bardhaman, Purba Bardhaman and Purulia districts of West Bengal synchronizes with high tides in river Hooghly specially during the month of August and September.

### **3.2.6. Jalangi-Bhairab Sub-basin**

The river Jalangi originates from the right bank of the river Padma in Murshidabad district, 165 km. downstream of Farakka. Jalangi is dead for all purposes except during the periods of heavy rain, when it receives water from Padma. The river ends its journey by finally outfalling into the river Bhagirathi near Nabadwip town of Nadia district. The major tributary of Jalangi is river Bhairab that starts its journey from the river Ganga near Lalbag of Murshidabad district. It is now almost a dead channel but during rainy season, it receives water from Padma. Catchment area of Jalangi Sub-basin is 2,537 sq.km.

### **3.2.7. Mathabhanga-Churni Sub-basin**

River Mathabhanga originates from the right bank of the Padma, at Munshiganj in Kushtia district of Bangladesh. It bifurcates near Majdia of Nadia in India, creating two channels. The western course, Churni runs a few km. through Nadia in a south-west direction to meet Bhagirathi and the other course Ichamati, after traversing a length of 20 km in India, enters into Bangladesh near Mubarakpur. The length of Churni is almost 56 km. Catchment area of Mathabhanga-Churni Sub-basin is 2,279 sq.km.

### **3.2.8. Ichamati- Bidyadhari Sub-basins**

After entering into Bangladesh near Mubarakpur, river Ichamati flows for 35 km in Bangladesh and again re-enters into India at Duttaphulia of Nadia. It forms the international border between India and Bangladesh for 21 km. and finally outfalls into river Kalindi of Sundarban area. The length of Ichamati is 208 km. with the catchment area of 2,313 sq. km. within West Bengal and 1,063 sq. km. within Bangladesh. Bidyadhari originates near Haringhata in Nadia district and then flows through Deganga, Habra and Barasat areas of North 24 Parganas before joining the Raimangal River in the Sundarbans. It has been the major drainage system of North 24-Parganas and Kolkata having catchment area of 2,014 sq. km.

### **3.2.9. Pagla-Bansloji Sub-basins**

These rivers originate from the Rajmahal hills in the Sahebganj district of Jharkhand. Flowing eastern across Birbhum district, they entered Murshidabad district as the tributaries of the river Bhagirathi. The combined catchment area of these sub-basins is 2,489 sq. km.

### **3.2.10. Brahamani-Dwarka Sub-basin**

Dwaraka originating in Dumka district of Jharkhand, flows through Birbhum and Murshidabad districts where it joins with Mayurakshi to form Babla which finally outfalls into the river Bhagirathi. Brahamani is the main tributary of Dwarka. It also originates in Dumka district of Jharkhand and flows through Birbhum and Murshidabad districts to meet with Dwarka. There are

Baidhara and Deocha barrages across the river Brahamani and Dwarka respectively under the '**Mayurakshi Reservoir Project**'. The total catchment area of this sub-basin is 4,117 sq. km.

### **3.2.11. Mayurakshi-Babla Sub-basin**

River Mayurakshi (or Mor), the major river in Birbhum district, has a long history of devastating floods. It has its source on Trikut hill, about 16 km from Deoghar in Jharkhand state. Several spill channels - the Manikarnika, Kana Mor etc. takeoff from the Mayurakshi in its lower reaches. All these rivers including river Dwarka flow into the lower pocket of Hijal beel in the district of Murshidabad. The combined flow when starts journey from the beel named as river Babla that finally drains into the river Bhagirathi. The ruling level of Bhagirathi considerably influences the drainage and flood level in the Hijal beel.

**Massanjore dam** and **Tilpara barrage** have been constructed across this river as a part of 'Mayurakshi Reservoir Project', which is the first major irrigation project in West Bengal after independence. Other important structures of this project situated in Birbhum are Kopai barrage on river Kopai and Kandisala weir over river Bakreswar. The combined flows of Kopai and Bakreswar are called river Kuia which outfalls into Mayurakhshi near Kandi of Murshidabad. Mayurakshi is about 250 km long out of which nearly 100 km passes through West Bengal. The total catchment area of this sub-basin is 5,478 sq.km. River Siddheswari and Noonbeel are two major tributaries of Mayurakshi out falling into it at 8 km downstream of Massanjore dam and largely contribute the high volume of uncontrolled flood discharge during monsoon.

### **3.2.12. Ajay Sub-basin**

River Ajay originates on a small hill about 300 m high, southwest of Munger in Bihar. It then flows through Jharkhand and enters West Bengal at Simjuri, near Chittaranjan. It forms the border between Birbhum and Paschim-Purba Bardhaman districts and finally joins the Bhagirathi River near Katwa town of Purba Bardhaman. Total length of the Ajay is 288 km. out of which 152 km. lays in West Bengal. The important tributaries of Ajay are Pathro and Jayanti in Jharkhand, Hinglow in Birbhum and Kunur in Purba Bardhaman district of West Bengal.

There is a barrage across river Ajay constructed by Govt. of Jharkhand at Sikatia. The floods of this river are flashy and of short duration. There are some pockets in the Ajay-Kunur catchment, which suffer from frequent inundation. Large areas of Purba Bardhaman, Birbhum and Murshidabad districts experience inundation due to drainage congestion whenever flood of the Ajay coincides with those of the Mayurakshi and Dwarka. A dam has been constructed over the tributary Hinglow for the purpose of irrigation in some parts of Birbhum district. The total catchment area of this Sub-basin is 6,093 sq.km.

### **3.2.13. Khari-Behula-Ghea Sub-basins**

Khari river a minor right bank tributary of river Bhagirathi originates from the swampy field of Kanksa-Panagarh region of Purba Bardhaman district

and flows mainly eastward and later south-eastward to outfall into river Bhagirathi upstream of Kalna town. Its main tributary is Banka River, which acts as a spill channel of river Damodar, and after flowing almost parallel to Khari, it meets with Khari just before its outfall into Bhagirathi. The catchment area of this sub-basin is 2,268 sq. km.

Behula, also a spill channel of river Damodar originates near Palla village of Purba Bardhaman district and after flowing eastward it outfalls into river Bhagirathi upstream of Balagarh town of Hooghly district. Its main tributary is Gangur river. The catchment area of this sub-basin is 549 sq. km.

Ghea is another spill channel of river Damodar, originating in the Purba Bardhaman district and after flowing southward and south-eastward through Hooghly district it outfalls into Hooghly river near Champdani town. The main tributaries of this river are Kana and Kunti having a catchment area of 1,167 sq. km.

### **3.2.14. Damodar-Mundeswari Sub-basins**

River Damodar originating from Palamu hills in Jharkhand and flowing through a length of 541 km between several districts of Jharkhand and West Bengal bifurcates into two channels at Beguahana of Purba Bardhaman district near Jamalpur. One channel carrying dominant flood discharge has been named as river Mundeswari that drains into Rupnarayan at Bakshi of Howrah district. The other channel after passing through Hooghly and Howrah districts as Amta channel carries its discharge and outfalls into the river Hooghly through an outfall sluice near Uluberia.

The river causes floods in its lower reaches in the districts of Purba Bardhaman, Hooghly and Howrah, mainly on the right bank of the river below Beguahana. Earlier known as the '*Sorrow of Bengal*' because of its ravaging floods in the plains of West Bengal, the Damodar and its tributaries have been somewhat tamed with the construction of four dams (**Maithon, Panchet, Konar** and **Tilayia**) under the control of '**Damodar Valley Corporation (DVC)**'. There is another dam at Tenughat across Damodar under the direct control of Government of Jharkhand and in the lower catchment; there are one **barrage** at **Durgapur** and one **weir** at **Randiha** under the direct control of Irrigation & Waterways Department, Government of West Bengal.

River Barakar and Bokaro are two major tributaries of Damodar in Jharkhand which meet Damodar from its left bank whereas river Shali in Bankura district of West Bengal is another major tributary situated on its right bank. Harinkhola, Short-Cut channel, Kana Dwarakeswar, Hurhura khal are other important drainage arteries of this catchment which play important role in draining out flood discharge into river Rupnarayan, having tidal influence. The total catchment area of Damodar sub-basin in Jharkhand is 17,087 sq.km and in West Bengal is 4,325 sq. km. upto Beguahana point. The local catchment area of Mundeswari sub-basin is 1,439 sq.km and that of Amta Channel-Kana Damodar sub-basin is 1,490 sq.km.

### **3.2.15. Dwarakeswar Sub-basin**

Dwarakeswar river (also known as Dhalkishore) is a major river in the

western part of West Bengal. It originates from Tilboni hill of Chhotanagpur Plateau in Purulia district and enters Bankura district near Chatna. It mainly flows southeastward and after entering into Hooghly district it turns south near Arambag. Its main tributary Gandheswari rising from Bankura district meets Dwarakeswar near Bankura town. After receiving contributions from other minor tributaries like Arkasha, Berai, Shankari etc. Dwarakeswar finally joins with Shilabati at Bandar near Ghatal town of Paschim Medinipur district to form river Rupnarayan. There is proposal of "Dwarakeswar-Gandheswari Reservoir Project" within this sub-basin. Catchment area of this sub-basin is 4,292 sq. km.

### **3.2.16. Silabati Sub-basin**

Like Dwarakeswar, river Silabati (also known as Shilai) emerging from hilly terrain of Chhota Nagpur Plateau in the Purulia district, traverses south-eastward through the districts of Bankura and Paschim Medinipur to meet with Dwarakeswar to form Rupnarayan River. River Joyponda, Ketia, Donai, Kubai and Parang are major tributaries of Shilabati. There is a small pickup barrage constructed across the river at **Kadamdeuli** in Bankura district as a part of 'Kangsabati Reservoir Project'. The catchment area of this sub-basin is 4,088 sq. km.

### **3.2.17. Kangsabati Sub-basin**

The river Kangsabati (also variously known as the Kasai and Cossye) originating from Chhota Nagpur Plateau in the Purulia district and flowing south-eastward, joins with its main tributary Kumari River at Mukutmanipur of Bankura district where a reservoir popularly known as Mukutmanipur dam has been constructed under the '**Kangsabati Reservoir Project**' for the purpose of both irrigation and flood control. An **Anicut** structure built on this river near **Midnapore** town in 1872 was also added to the operations of the project. Further down, after entering into the district of Paschim Medinipur it joins with combined streams of Bhairab Banki and Tarafeni rivers. Both the rivers have barrages over them under the Project. After travelling further east in a tortuous course, it bifurcates into two rivers at Kapastikri of Paschim Medinipur.

Northern branch, known as Old Cossye after flowing through certain distance, further bifurcates into two courses at Daspur of Paschim Medinipur. One course, named as Palaspai khal flow further east to outfall into the Rupnarayan and the main course, known as Durbachati flows southeasterly along the border of both Medinipur districts to outfall into river Rupnarayan. Old Cossye is also connected with river Silabati through a small channel known as Kanki khal.

The southern course, known as New Cossye, flows further southeasterly direction to meet with river Kaliaghai at Dheubhangal of Purba Medinipur district and forms river Haldi that flows eastwardly into the river Hooghly at Haldia. Kherai and Bakshi khal is the main tributary of river New Cossye. The total length of Kangsabati is around 465 km. The catchment area of this sub-basin is 6,645 sq.km. Very often, lower portion of this sub-basin especially Ghatal area of Paschim Medinipur and Panskura area of Purba Medinipur

districts suffer from inundation due to high flood discharge from its uncontrolled catchment downstream of the Mukutmanipur dam synchronizing with high tide in river Rupnarayan.

### **3.2.18. Kaliaghai Sub-basin**

The river Kaliaghai trickles out from Dudhkundi of Jhargram district and flows south-easterly through Paschim and Purba Medinipur to meet the other arm of Kangabati i.e., New Cossye to form Haldi. During the course of its journey, it is fed by the flow of its tributaries namely Kapaleswari, Baghai and Chandia. The length of this river is 121 km and catchment area is 1,913 sq. km. This river is mainly responsible for flood in Sabang area of Paschim Medinipur district.

### **3.2.19. Rupnarayan Sub-basin**

River Rupnarayan is the major drainage artery of southwestern districts of South Bengal. Being the main tributary of Hooghly River, it receives tidal discharge of Bay of Bengal throughout the year and plays an important role in draining floodwater from vast catchment area. Irrespective of discharges from its major tributaries like Mundeswari, Darakeswar, Shilabati and Kangabati, it also receives flood water from many local drainage channels like Kata khal of Hooghly, Bakshikhal of Howrah, Chandreswar khal of Paschim Medinipur, Denan-Dehaty-Soadighi-Gangakhali-Pratapkhal-Shankrara khals of Purba Medinipur which directly outfall into Rupnarayan from its both banks. The length of this river is 80 km having local catchment area of 1,226 sq.km.

### **3.2.20. Haldi Sub-basin**

Two rivers New Cossye and Kaliaghai join at Dheubhanga of Purba Medinipur to form river Haldi which after traversing southeastward outfalls into river Hooghly near Haldia town. It divides the Purba Medinipur district into two parts, the Northern part can be categorized as drainage area of Tamluk and the southern part can be categorized as Rasulpur-Nandigram drainage area. Except upper catchment discharges from Kaliaghai-New Cossye sub-basins, river Haldi drains out water from parts of both the above-mentioned drainage areas. The lower portion of the river Haldi is affected by over bank spills and drainage problem during the monsoon as entire stretch of 42 km of the river falls under the tidal influence of river Hooghly. The local catchment area of this sub-basin is 614 sq.km.

### **3.2.21. Rasulpur Sub-basin**

The river Rasulpur is formed by union of two drainage channels namely Bagda and Sadarkhals. It is the main drainage channel in Contai sub-division of Purba Medinipur district. The river having length 19 km drains out floodwater of 1,556 sq. km. into the river Hooghly.

### **3.2.22. Pichabani-Negua Channel Sub-basin**

River Pichabani and Negua Diversion channel systems are used to discharge rainwater out from Dubda basin of Purba Medinipur district. The two channels outfall into Bay of Bengal. Catchment area of this sub-basin is 808 sq.km.

### 3.2.23. Sundarban Drainage Sub-basin

Apart from the rivers described earlier within the Ganga basin, there is a group of rivers in Southern part of the State, which falls in the deltaic zone. These tidal rivers, estuaries and creeks are situated on the eastern side of Hooghly River popularly known as Sundarbans, which is nothing but an intricate network of number of deltaic islands of the district of South 24-Parganas. These rivers drain off whatsoever fresh discharge comes from countrysides, thus ultimately draining into Bay of Bengal. Some important rivers in Sundarban are Muriganga, Mridangabhang, Saptamukhi, Raimangal, Matla, Bidya, Thakuran, Malancha, Kalindi, Gomar etc. The total land area of Sundarban sub-basin is 6,747 sq. km. whereas including all rivers and creeks, Sundarban has gross area of 10,209 sq. km.

### 3.3. SUBARNAREKHA BASIN

The river Subarnarekha (also called Swarnarekha) though it has small catchment within this state, has separate entity as it directly falls into the Bay of Bengal. Originating in the Chhotonagpur Range at an elevation of 609 m. near Ranchi, it traverses through three states viz. Jharkhand, West Bengal and Orissa. It drains out rainwater from a total area of 19,684 sq. km. out of which only 3,593 sq. km falls within Purulia, Paschim Medinipur and Jhargram districts of West Bengal.

One major dam at **Chandil** and one barrage at **Galudi** have been constructed across Subarnarekha in Jharkhand. The important tributaries on the right bank of this river are Kanchi and Karkari, which meet Subarnarekha above Chandil dam and another right bank main tributary named as Kharkai meets this river near Jamshedpur upstream of Galudi barrage. Dulung is the main tributary, which joins Subarnarekha from its left in the Jhargram district of West Bengal. The total length of this river is 395 km. out of which 83 km. falls within West Bengal.

Distribution of Catchment Area of River Basins & Sub-Basins of West Bengal						
CWC Basin Code	River Basin	Sub-Basins	CATCHMENT AREA (Sq. Km.)			TOTAL (Sq. Km)
			Jharkhand	Orissa	West Bengal	
6	SUBARNAREKHA	Subarnarekha	13014	3077	3286	19377
		Kashpal			307	307
		<b>Sub-Total</b>	13,014	3,077	3,593	<b>19,684</b>

#### 4. HYDRO-METEOROLOGICAL DATA COLLECTION & DISSEMINATION

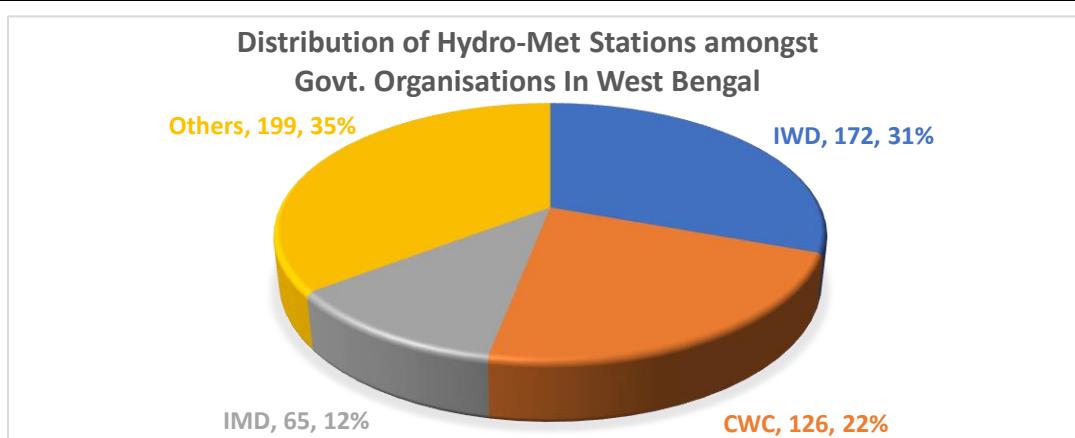
Irrigation and Waterways Department (IWD), Govt. of West Bengal is responsible for maintenance, collection, compilation and dissemination of hydrological and meteorological data for the purpose of monitoring of flood or flood-like situation for almost all river sub-basins of the State during monsoon. For this purpose, network of river gauges and rain gauges have been established at the important locations and during monsoon flood control rooms in each district are set up including the Central Flood Control Room (CFCR) at Jalasampad Bhavan, Salt Lake, Kolkata.

##### 4.1. Rain and River Gauges

Apart from IWD, other organizations like Central Water Commission (CWC), India Meteorological Department (IMD), State Agricultural Department (AGRI), Kolkata Port Trust (KoPT), Damodar Valley Corporation (DVC) and Surface Water Investigation Directorate (SWID) under Water Resources Investigation & Development Department (WRIDD) have set up network of river gauges and rain gauges of their own at different locations for monitoring hydrological and meteorological data. These field data mainly include daily rainfall, water level of river and reservoir, river discharge and inflow-outflow from reservoir. In addition to that other information like inflow forecast, meteorological forecast and flood damage are also collected.

**Existing Hydro-Met Monitoring Stations in the State**

Type	IWD	CWC	IMD	Others
Rain Gauge Stations (ORG/ARG/AWS/FCS)	95	45	65	55
River Gauge / Discharge Stations (G/G-D/HOS)	77	81	-	144
<b>Total</b>	<b>172</b>	<b>126</b>	<b>65</b>	<b>199</b>
ORG = Ordinary Rain Gauge		ARG = Automatic Rain Gauge		
AWS= Automatic Weather Station		FCS = Full Climatic Station		
G=Gauge, G-D=Gauge Discharge		HMS = Hydro-Meteorological Station (Rainfall, Temperature, Wind speed, Solar radiation, Humidity, & other Weather parameters)		
HOS = Hydrological Observation Station (Gauge, Discharge, Silt/Sediment, Water Quality)				



Besides Ordinary Rain & River gauges, IWD also maintains seven (7) Gauge-Discharge stations at different rivers and fourteen (13) Hydrological Observation Stations (HOS) at Dam & Barrage sites for measurement of Reservoir levels, Inflow, Outflow, Canal discharges & sediment/silt content if requires.

### **Summary of Hydro-Met Stations under Irrigation and Waterways Department**

Type of Hydro-Met Stations	Total number of Data collected in IWD web inventory	Published in Daily Flood Reports
Number of Rain Gauges	137	84
Number of River Gauges	85	60
Number of River Gauge & Discharge	7	7
Number of Dam & Barrage Monitoring Sites (Reservoir/Pond Level, Inflow, Outflow)	20	13

A comprehensive list of Hydro-Met stations data recorded by IWD, existing Pumping Stations of IWD are provided in **Annexure-III**.

Under National Hydrology Project (NHP), IWD is going to commission a 'Real Time Data Acquisition System (RTDAS)' for efficient flood forecasting and inundation modelling within the State. For this, fully automated radar and sensor type hydro-met stations proposed to install. Following sensors are proposed:

RTDAS Sensor Type	Total No. to be installed
Automatic Rain Gauge (ARG)	69
Automatic Weather Station (AWS, including ARG)	7
Automatic Water Level Recorder (AWLR)	158
Dam-Barrage Gate Sensor (GS)	13
PAN evaporimeter (PAN)	4
Automatic Flow Meter (AFM)	19
Automatic Tide Gauge (ATG)	3
PAN evaporimeter (ePAN)	4

The above work is conceived in four phases and installation of instruments in three phases are over and one phase is under progress. Besides these, IWD had also installed two no. canal RTDAS system under Kangsabati & Mayurakshi Reservoir Projects under NHP. Recently IWD has installed 45 no. AWLR and 8 no. ADVM for drainage channels in and around Kolkata. Detailed lists of automated hydro-met stations are given in **Annexure-III**.

#### **4.2. Role of Central Flood Control Room**

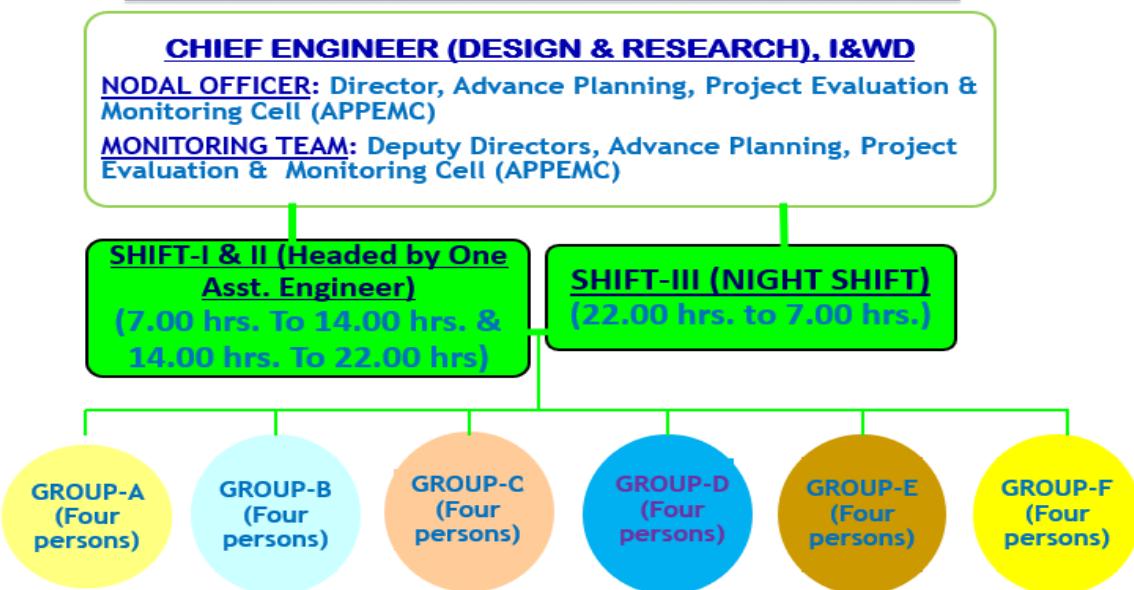
The present flood monitoring and management system in the State comprises with the preparation of Daily Flood Report (DFR) by Central Flood Control Room (CFCR) of IWD and transmission of the same to the State Disaster Management Department with the Head Quarter at Kolkata. Daily report is also shared with the Chief Secretary, Home Secretary of the State and other organization like Railway Authorities, Bengal Army Headquarters, CWC-Easten Zone Monitoring Office, Kolkata Port Trust (KoPT), Kolkata Municipal Corporation (KMC) and all District Magistrates of the State through e-mail.

This Daily Flood Report (DFR) generally contains rainfall, river and gauge and discharge, river warning levels/ signals, weather information, reservoir level/inflow/outflow data of different Stations within and outside the State. Sometimes the location and extent of major damages, the status of affected areas under inundation etc. are also included, as and when the situation such warrants. These

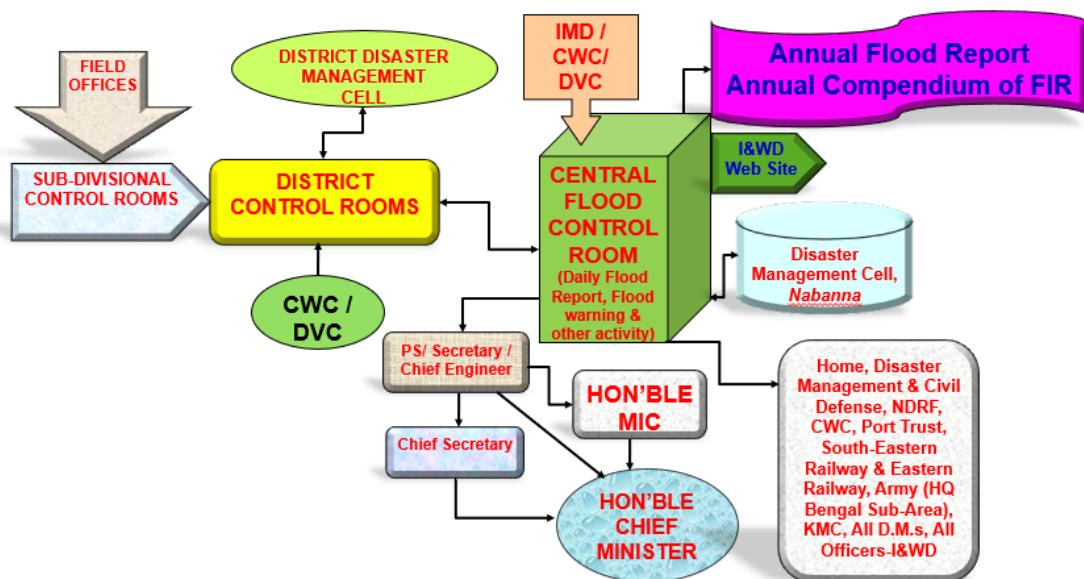
data are collected from different district flood control rooms under IWD (details given in **Annexure-XII**) along with other agencies like IMD, CWC and DVC by telephone, e-mail or WhatsApp messages. During emergency, separate Flood Bulletin is issued and the same are disseminated also to the district Disaster Management Cells and other authorities via e-mail, SMS or WhatsApp messages. Daily flood reports are also uploaded in the departmental web site: [www.wbiwd.gov.in](http://www.wbiwd.gov.in).

This year, CFCR was operational 24x7 during entire monsoon & flood season starting from 1<sup>st</sup> June, 2023 to 31<sup>st</sup> October 2023, collected raw data from all existing hydro-met stations & Dam-Barrage data from IWD's district control rooms, pertinent rainfall and weather forecast/warning from IMD websites, relevant data from CWC-Kolkata, Chandil Dam, Galudih Barrage and Sikatia Barrage data from the concerned authorities, compiled all these in the standard proforma and finally prepared the DFR for dissemination around 10.00 to 10:30 a.m.

### **HUMAN RESOURCE MANAGEMENT OF CFCR**



### **FLOW DIAGRAM SHOWING DATA COLLECTION & TRANSMISSION SYSTEM**



## 5. RAINFALL

Climatological variations are observed in West Bengal due to its physical and geographical position. The annual normal rainfall of the State is 1,836 mm, while the hilly regions at the foothills of Himalaya receive the heaviest rainfall ranging from 2500 mm to 4000 mm. The southern districts in the plains receive average of 1325 mm to 1925 mm. Main rainfall season in this state is the South-West monsoon season during which the entire State gets 76% of the annual rainfall. The Gangetic plains of West Bengal get 64% of its annual rainfall during the monsoon period distributed normally from 1<sup>st</sup> week of June to the end of September. But during last few years, some parts of West Bengal have experienced cyclone and associated heavy rainfall in the last week of May causing drainage congestion. However, the late withdrawal of monsoon has also been observed.

### 5.1. Normal Rainfall Pattern

The river Ganga divides the State into two parts, which are by and large homogeneous from the meteorological point of view. The northern half is designated as 'Sub-Himalayan West Bengal' and the southern half as 'Gangetic West Bengal'. Sub-Himalayan West Bengal is more susceptible to heavy rains both in respect of amount as well as in frequency of occurrence.

Very heavy rain is more frequent in first two months (June and July) than in subsequent, in the Sub-Himalayan West Bengal. In Gangetic West Bengal, the frequency is maximum in August followed by June, July and September in that order. On the basis of rainfall distribution, the State can be divided into two broad zones -(i) The Himalayan and Sub-Himalayan Region (ii) The Gangetic Plains

#### i) Himalayan and Sub-Himalayan Region

The Himalayan and Sub-Himalayan Region comprises the districts of Darjeeling, Kalimpong, Jalpaiguri, Alipurduar, Coochbehar and Northern part of Islampur Sub-Division of Uttar Dinajpur district of high intensity of average annual rainfall from 2000 mm to over 4000 mm, about 80% of which is found to occur during monsoon season (presently, annual normal rainfall of North Bengal Sector = 2479 mm). On an average, Darjeeling, Jalpaiguri and Coochbehar get 126, 175 and 112 rainy days respectively in a year.

The monsoon generally follows a northern track to ultimately break up against Eastern Himalaya causing very heavy rainfall and thereafter, trough of low pressure under break monsoon conditions. It then shifts northward to the Himalayan foothills. It has been found that a precipitation between 200 to 300 mm in two hours is not unusual.

#### ii) Gangetic Plains

The Gangetic plains which constitute the major portion of the State, can be further sub-divided into the following three sectors on the basis of average rainfall.

**Sector-I:** Bankura, Purba & Paschim Bardhaman, Hooghly, Nadia and Purulia districts which receive an average annual rainfall between 1150 mm and 1450 mm (presently, annual normal rainfall = 1427 mm).

**Sector-II:** Birbhum, Purba & Paschim Medinipur, Jhargram, Murshidabad and North 24-Parganas having an average annual rainfall between 1450 mm and 1650 mm (presently, annual normal rainfall = 1548 mm).

**Sector-III:** Kolkata, Howrah and South 24-Parganas having an average annual rainfall - between 1650 mm and 1900 mm (presently, annual normal rainfall = 1767 mm).

Such regional variations in the precipitation may causes flood condition time to time.

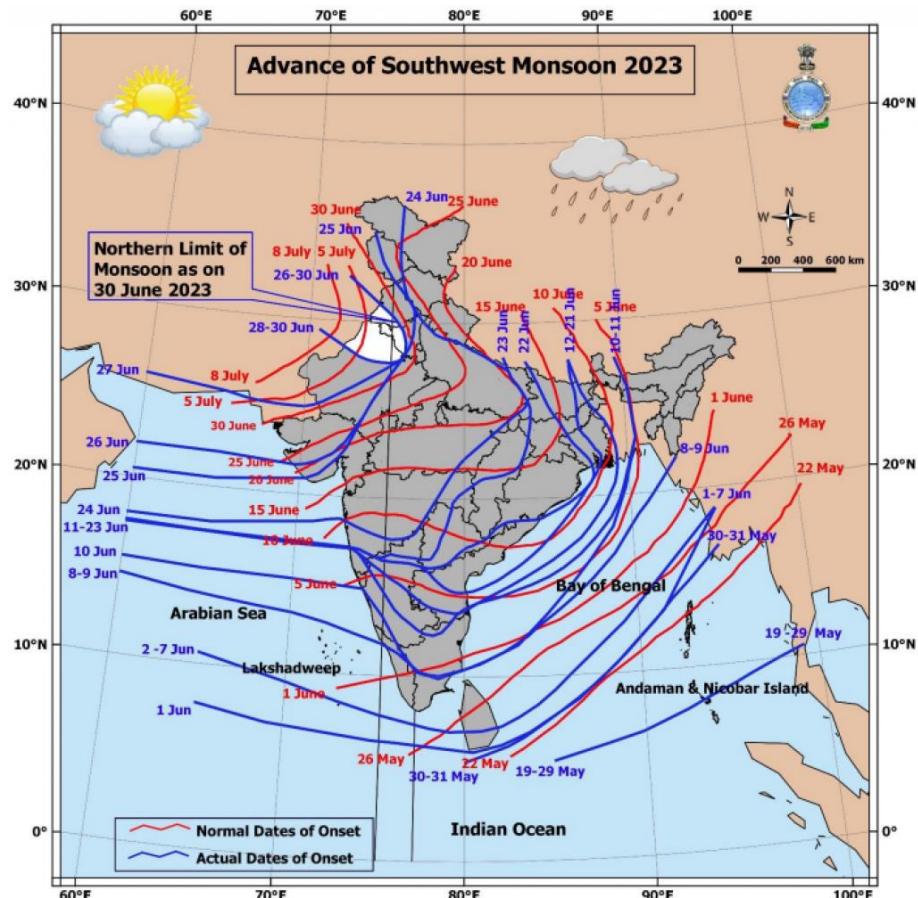
## 5.2. Intensity & Spatial Distribution of Rainfall

As per Heavy Rain Warning Services of India Meteorological Department (IMD), Ministry of Earth Sciences, Govt. of India, Classification of Rainfall, Category of Rain Spell and Spatial distribution of daily Rainfall are as follows:

<b>Classification of Rainfall Intensity</b>			
<b>Category</b>	<b>24 hours Rainfall over a station ending at 0830 Hrs IST (in mm)</b>	<b>Category</b>	<b>24 hours Rainfall over a station ending at 0830 Hrs IST (in mm)</b>
Very Light Rain	Trace - 2.4	Heavy Rain	64.5 – 115.5
Light Rain	2.5 - 15.5	Very Heavy Rain	115.6 - 204.4
Moderate Rain	15.5 – 64.4	Extremely Heavy Rain	>= 204.5
<b>Category of Rain Spell</b>			
<b>Category</b>	<b>Range of daily Rainfall of a Station (mm/hour)</b>	<b>Category</b>	<b>Range of daily Rainfall of a Station (mm/hour)</b>
Light spell	10	Very Intense spell	31 - 50
Moderate spell	11 – 20	Extremely Intense spell	51 - 99
Intense spell	21 - 30	Cloud Brust	>= 100
<b>Spatial Distribution of Rainfall</b>			
<b>Distribution</b>	<b>No. of Places</b>	<b>Description</b>	
Isolated	One or two places	< 25% of stations get rainfall	
Scattered	At a few Places	(26–50) % of stations get rainfall	
Fairly Widespread	At many places	(51–75) % of stations get rainfall	
Wide spread	At most places	(76–100) % of stations get rainfall	
Dry	-	No station reported rainfall	
<b>Weekly/Seasonal Rainfall Distribution on Regional Scale</b>			
Large Excess	Percentage departure of realized rainfall from normal rainfall is + 60% or more.		
Excess	Percentage departure of realized rainfall from normal rainfall is between + 20% to + 59%.		
Normal	Percentage departure of realized rainfall from normal rainfall is between - 19 % to + 19 %.		
Deficient	Percentage departure of realized rainfall from normal rainfall is between - 20 % to - 59 %.		
Scanty	Percentage departure of realized rainfall from normal rainfall is between - 60 % to - 99 %.		
No Rain	Percentage departure of realized rainfall from normal rainfall is - 100 %.		
<b>Rainfall Distribution on All India Scale</b>			
Normal	Percentage departure of realized rainfall from normal rainfall is within $\pm 10\%$ of the Long Period Average.		
Below Normal	Percentage departure of realized rainfall from normal rainfall is < 10 % of the Long Period Average.		
Above Normal	Percentage departure of realized rainfall from normal rainfall is > 10 % of the Long Period Average.		
All India Drought Year	When the rainfall deficiency is more than 10%, and when 20 to 40% of the country is under drought conditions, then the year is termed as All India Drought Year		
All India Severe Drought Year	When the rainfall deficiency is more than 10% and when the spatial coverage of drought is more than 40%, it is called as All India Severe Drought Year.		

### 5.3. Monsoon 2023

As per IMD-Delhi, this year onset of South West Monsoon over Kerala was on 8<sup>th</sup> June and further advanced to touch North Bengal on 10<sup>th</sup> June. It covered entire North Bengal on 12<sup>th</sup> June. So, entry of SW monsoon was almost normal. It further advanced into South Bengal and covered entire West Bengal on 22<sup>nd</sup> June. Advancement of monsoon in West Bengal is shown below:



The Sectoral variations of monthly average rainfall in West Bengal during monsoon months 2023 is given below with colour coding, which is derived from IMD's district-wise monthly rainfall data (presented in **Annexure IV-A**).

#### Variation of Monthly Average Rainfall (mm) of Sub-Himalayan West Bengal during Monsoon 2023

Month	June			July			August			September		
	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep
North Bengal Sector	494.5	453.6	9.0%	522.7	615.2	-15.0%	523.1	462.9	13.0%	407.8	398.3	2.4%

#### Variation of Monthly Average Rainfall (mm) of Gangetic Plains of West Bengal during Monsoon 2023

Month	June			July			August			September		
	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep
South Bengal	119.9	232.5	-48.4%	161.1	316.1	-49.1%	282.4	279.2	1.1%	203.0	242.6	-16.3%
Sector-I	196.1	244.0	-19.6%	192.5	336.3	-42.8%	268.4	298.8	-10.2%	281.8	271.6	3.7%
Sector-III	198.5	269.9	-26.5%	200.6	394.5	-49.1%	336.0	355.6	-5.5%	383.7	302.0	27.0%

\*Dep = Departure

\*\*Raw Data Source: IMD, Kolkata

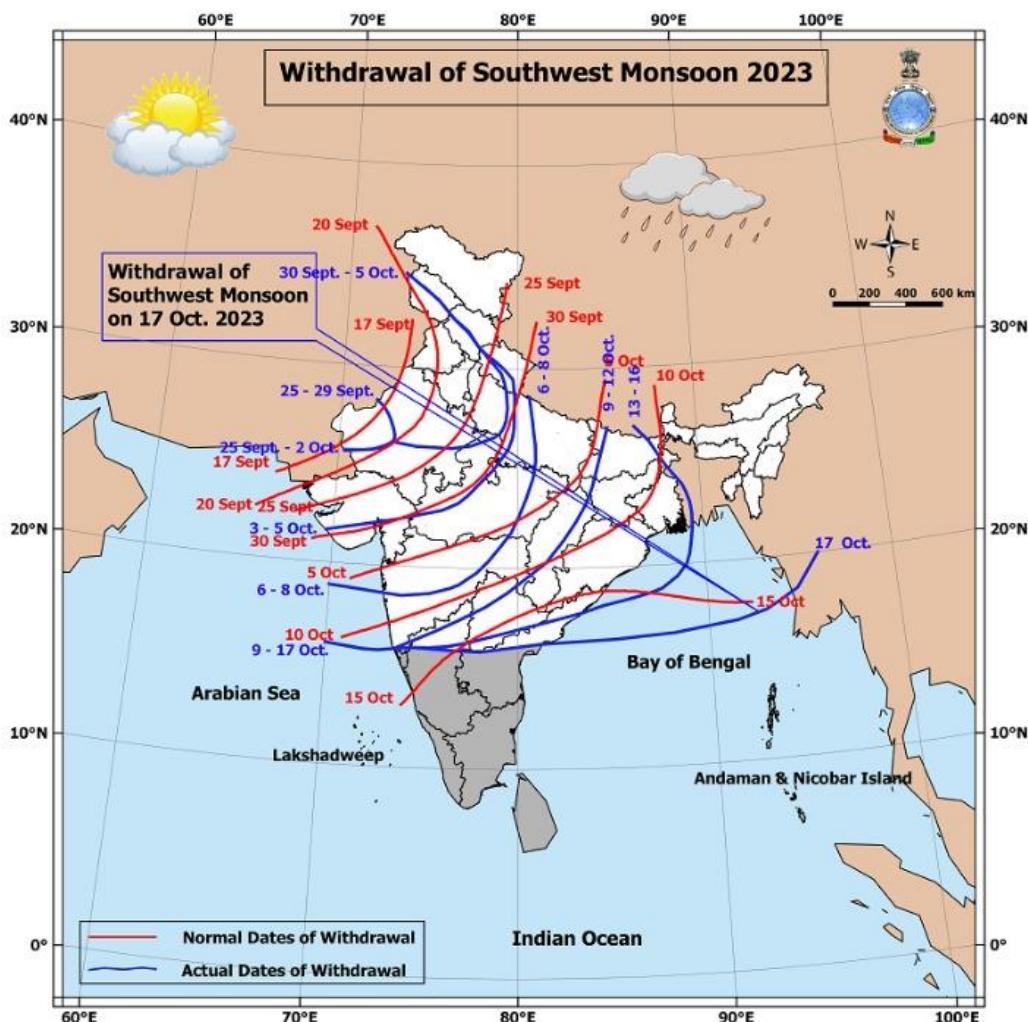
The graphical representation of district-wise monthly rainfall 2023 vis-à-vis normal rainfall are given in **Annexure IV-B**. The cumulative monthly rainfall of various Rain gauge stations for different River Sub-Basins, as observed at IWD's Central Flood Control Room during entire flood season i.e., from 1<sup>st</sup> June to 31<sup>st</sup> October, is given in **Annexure V-B**.

In North Bengal districts, the average monsoon rainfall deviation was 0.9% from its normal average i.e., NORMAL while that of South Bengal districts was -21.2% i.e., DEFICIENT. For the State as a whole, the **monsoon rainfall** as per IMD, from 1<sup>st</sup> June to 30<sup>th</sup> September 2023 was just **Deficient** with the percentage departure (i.e., deviation from its normal value) was **-10.4%**.

Average Monsoon [01.06.23-30.09.23] Rainfall (mm)			
Zone	Actual	Normal	% Dep
North Bengal	1948.05	1930.02	0.9%
South Bengal	913.9	1159.4	-21.2%
<b>West Bengal</b>	<b>1204.3</b>	<b>1344.2</b>	<b>-10.4%</b>

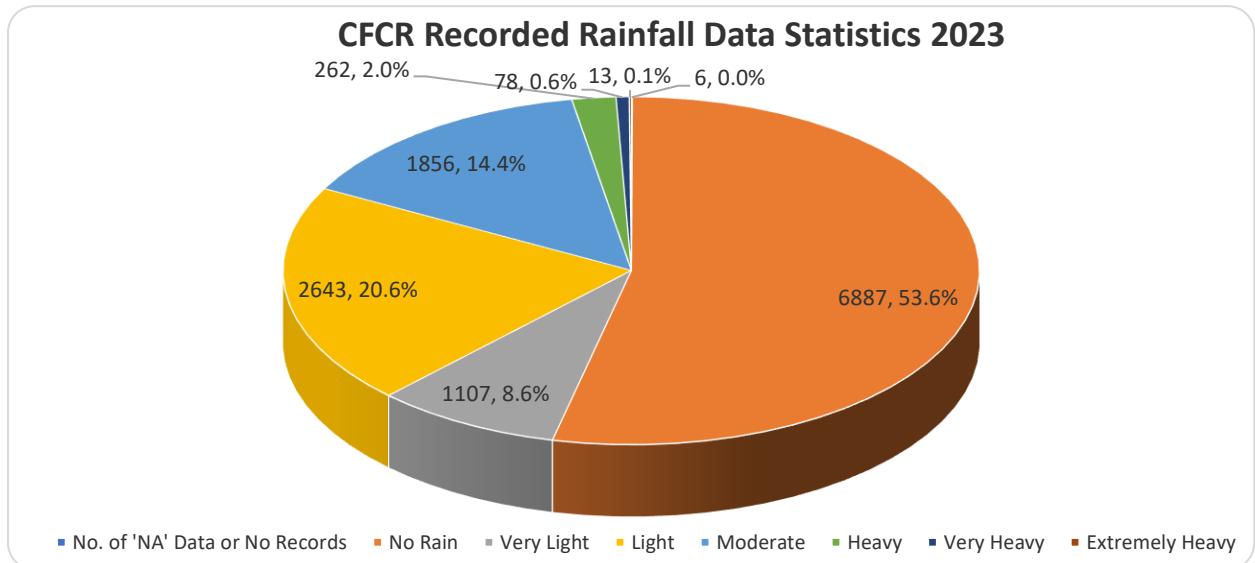
The annual rainfall of the State was NORMAL with percentage departure **-8.1%**. Season-wise Average Rainfall Statistics of West Bengal for the Year 2023 as per data provided by IMD, Kolkata is presented in **Annexure V-A**.

As per IMD-Delhi, the process of South-west monsoon withdrawn from West Bengal started on 13<sup>th</sup> October in North Bengal and finally withdrawn on 17<sup>th</sup> October from entire West Bengal, with a little delay. The withdrawal map is given below.



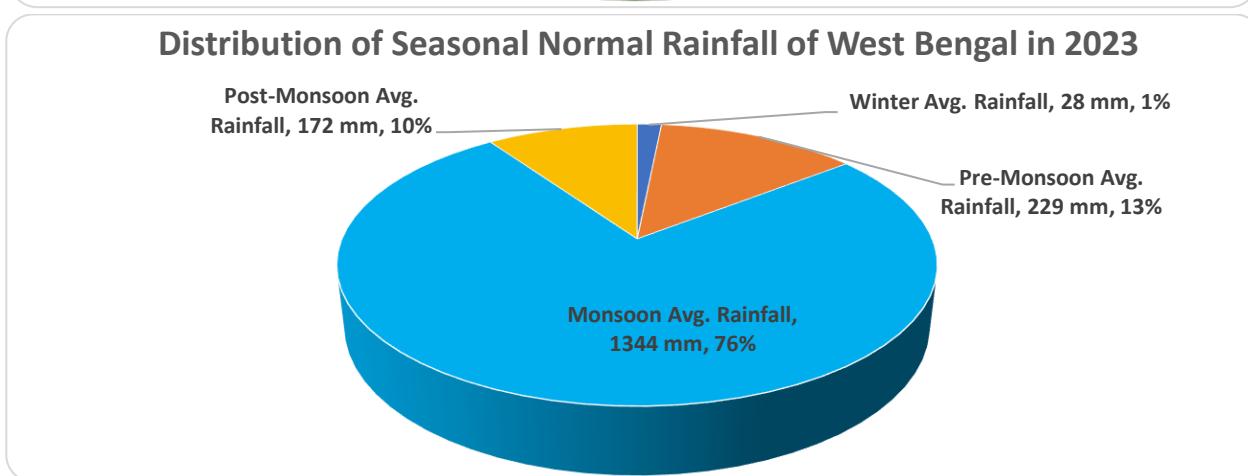
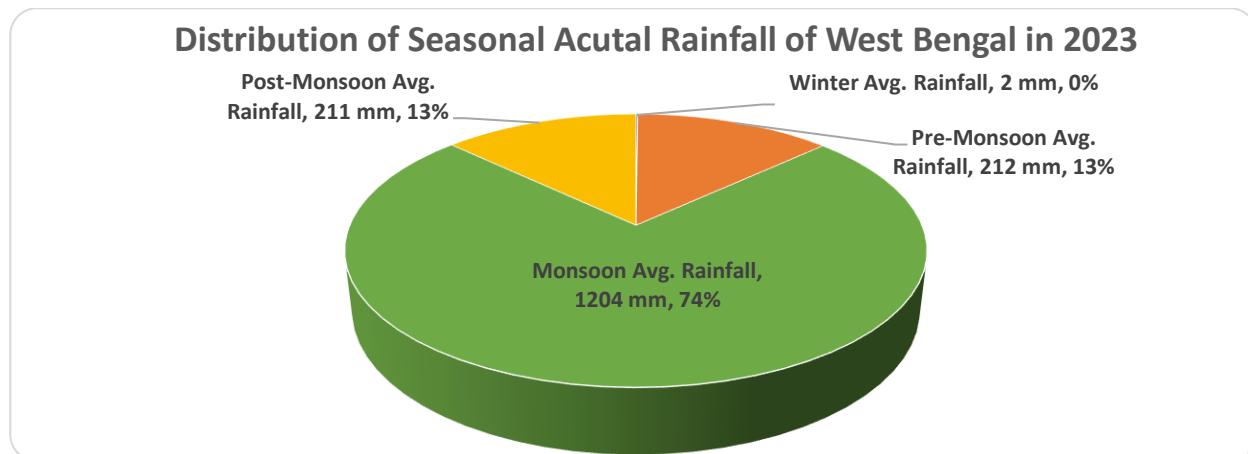
#### 5.4. Rainfall Observed at CFCR

The DFR of CFCR, IWD contains 84 rain gauge stations that captures daily rainfall data from 1<sup>st</sup> June to 31<sup>st</sup> October. The Rainfall Data Statistics out of 12,852 data is presented below:



#### 5.5. Annual Rainfall 2023

As defined by IMD, meteorological seasons comprising of four seasons. They are: Winter (1<sup>st</sup> January to 28<sup>th</sup> February), Pre-monsoon (1<sup>st</sup> March to 31<sup>st</sup> May), Monsoon (1<sup>st</sup> June to 30<sup>th</sup> September) and Post-monsoon (1<sup>st</sup> October to 31<sup>st</sup> December) seasons. The seasonal distribution of total annual rainfall of the State is presented below:



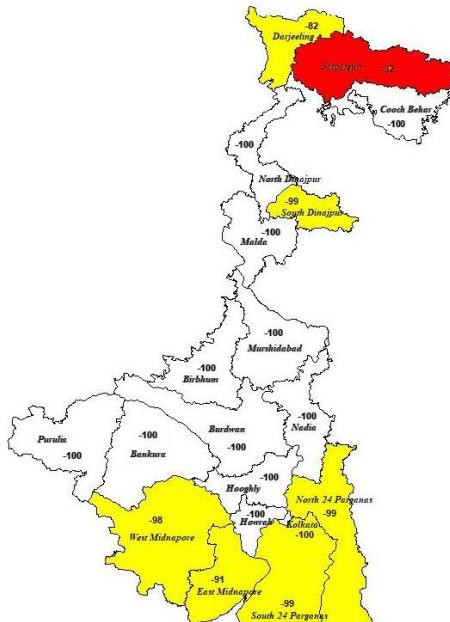
A district-wise visual comparison of last five years (2017-2023) average monsoon rainfall is presented in **Annexure VI**.

IMD, RMC, Kolkata has prepared percentage rainfall departure maps from long period average for the districts in West Bengal for winter, pre-monsoon, monsoon and post monsoon period that are presented below:

**INDIA METEOROLOGICAL DEPARTMENT  
RMC KOLKATA**

**Rainfall % Departures from the Long Period Averages  
for Districts in WEST BENGAL**

PERIOD : 01.01.2023 - 28.02.2023



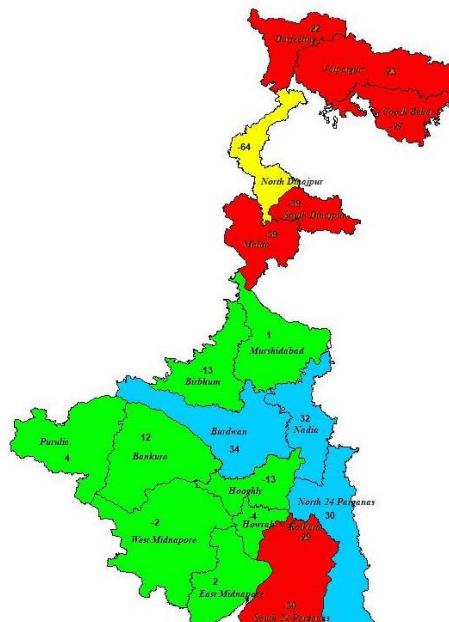
LEGEND:  
■ LARGELY EXCESS +60% OR MORE    ■ EXCESS +20% TO +59%    ■ NORMAL +19% TO -19%  
■ DEFICIENT -59% TO -20%    ■ LARGELY DEFICIENT -99% TO -60%    □ NO RAIN    ■ NO DATA -100%

NOTE: Percentage Departures of Rainfall are based on Operational data.

**INDIA METEOROLOGICAL DEPARTMENT  
RMC KOLKATA**

**Rainfall % Departures from the Long Period Averages  
for Districts in WEST BENGAL**

PERIOD : 01.03.2023 - 31.05.2023



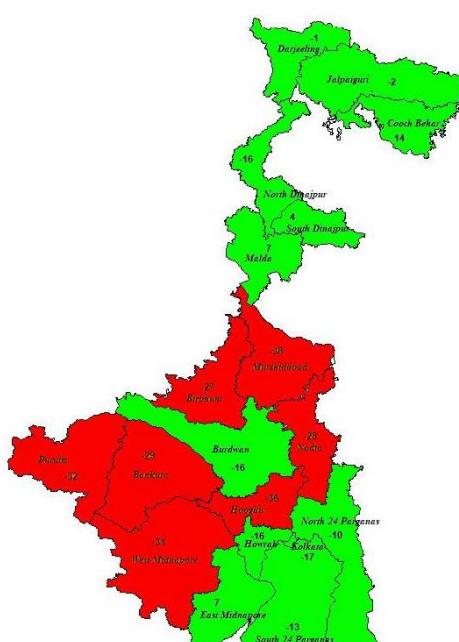
LEGEND:  
■ LARGELY EXCESS +60% OR MORE    ■ EXCESS +20% TO +59%    ■ NORMAL +19% TO -19%  
■ DEFICIENT -59% TO -20%    ■ LARGELY DEFICIENT -99% TO -60%    □ NO RAIN    ■ NO DATA -100%

NOTE: Percentage Departures of Rainfall are based on Operational data.

**INDIA METEOROLOGICAL DEPARTMENT  
RMC KOLKATA**

**Rainfall % Departures from the Long Period Averages  
for Districts in WEST BENGAL**

PERIOD : 01.06.2023 - 30.09.2023



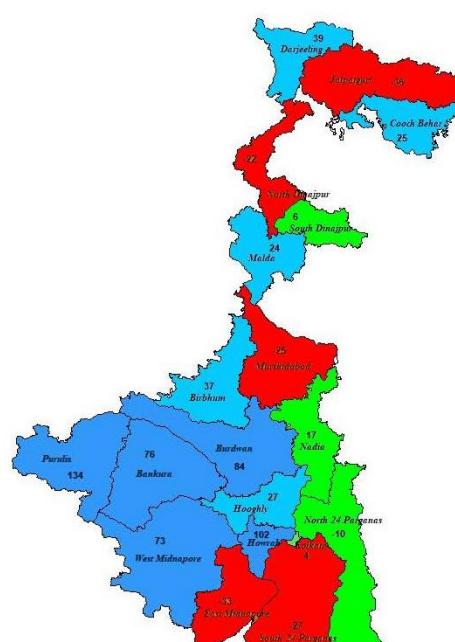
LEGEND:  
■ LARGELY EXCESS +60% OR MORE    ■ EXCESS +20% TO +59%    ■ NORMAL +19% TO -19%  
■ DEFICIENT -59% TO -20%    ■ LARGELY DEFICIENT -99% TO -60%    □ NO RAIN    ■ NO DATA -100%

NOTE: Percentage Departures of Rainfall are based on Operational data.

**INDIA METEOROLOGICAL DEPARTMENT  
RMC KOLKATA**

**Rainfall % Departures from the Long Period Averages  
for Districts in WEST BENGAL**

PERIOD : 01.10.2023 - 31.12.2023



LEGEND:  
■ LARGELY EXCESS +60% OR MORE    ■ EXCESS +20% TO +59%    ■ NORMAL +19% TO -19%  
■ DEFICIENT -59% TO -20%    ■ LARGELY DEFICIENT -99% TO -60%    □ NO RAIN    ■ NO DATA -100%

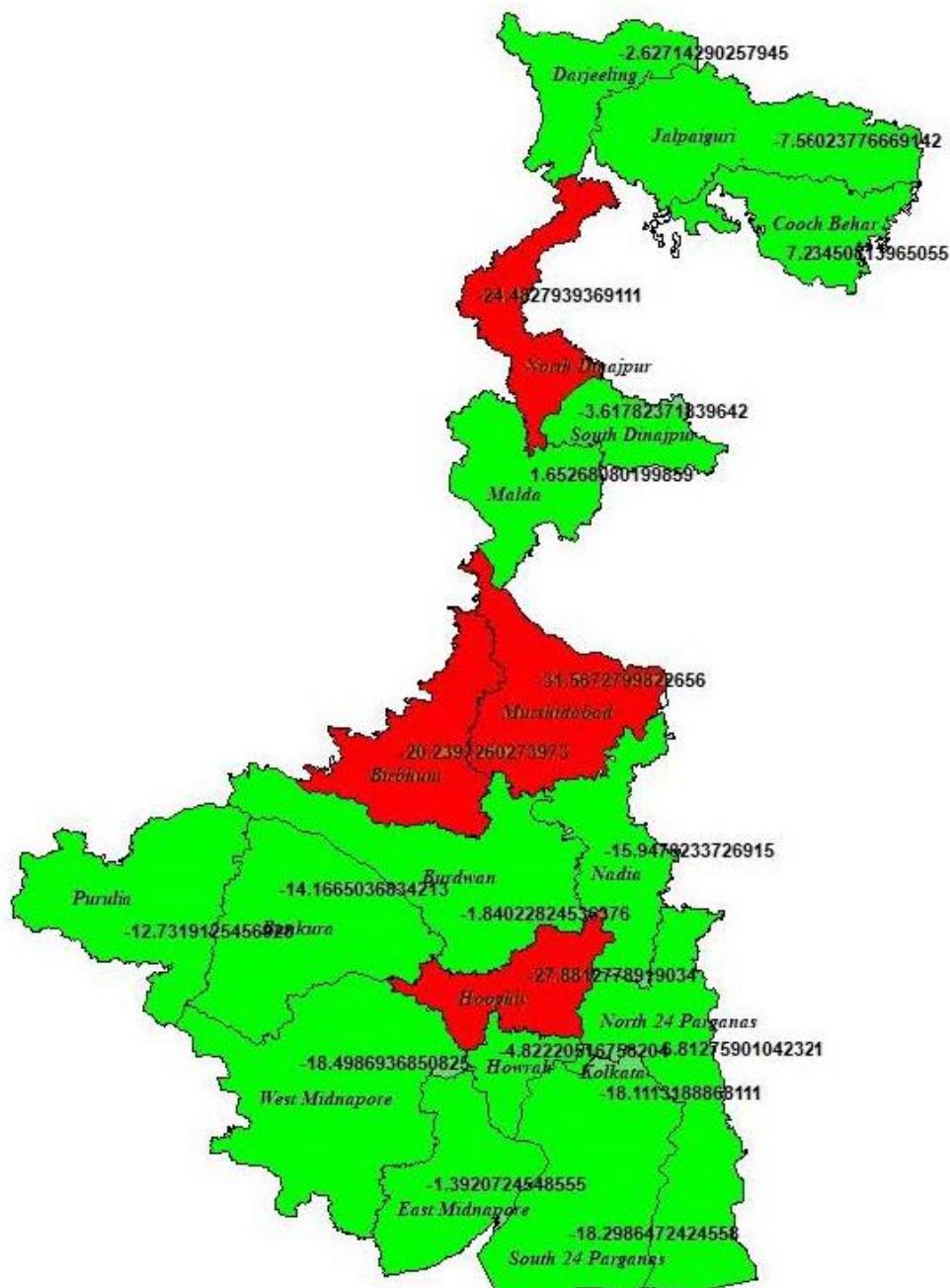
NOTE: Percentage Departures of Rainfall are based on Operational data.

The Annual Rainfall Departure Map of 2023 prepared from the long period average for the districts in West Bengal is also presented below:

## INDIA METEOROLOGICAL DEPARTMENT RMC KOLKATA

### Rainfall % Departures from the Long Period Averages for Districts in WEST BENGAL

PERIOD : 01.01.2023 - 31.12.2023



NOTE: Percentage Departures of Rainfall are based on Operational data.

## 6. FLOOD SEASON 2023

As per Govt. of India's Water Resources Information System (India-WRIS) and Central Water Commission (CWC), monsoon period comprises of five months from June to October. Accordingly, flood season in West Bengal also covers from June to October. The distribution of monthly average rainfall in the State for this season shows less rainfall than normal with average departure of -7.4% that varies from minimum deficit of -30.7% in July 2023 to maximum excess of 22.4% in October 2023. Thus, the overall monsoon rainfall in 2023 may be termed as Normal.

### Distribution of Monthly Average Rainfall in West Bengal during Flood Season 2023

Month	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure	Remarks
June-23	271.7	295.3	-8.0%	Normal rainfall
July-23	282.1	407.3	-30.7%	Deficient rainfall
Aug.-23	356.8	345.0	3.4%	Normal rainfall
Sept.-23	293.6	296.6	-1.0%	Normal rainfall
Oct.-23	167.9	137.2	22.4%	Excess rainfall

\* Data source: IMD-Kolkata

Month-wise statistical analysis of River Gauges i.e., Maximum peak values, Minimum River gauges, average river stages, number of days river level crossed primary danger level (PDL) or warning level (WL), danger level (DL) and extreme danger level (EDL) and during Flood Season, 2023 is presented in **Annexure-VII**.

#### 6.1. Flood Spells in North Bengal

**6.1.1. In June 2023:** With onset of SW Monsoon, significant widespread rainfall occurred at many places of North Bengal from 12<sup>th</sup> to 23<sup>rd</sup> June with very heavy to extremely heavy rainfall at Barobhisa, Alipurduar, Banarhat, Hasimara, Malbazar & Coochbehar rain gauge stations. Maximum one day rainfall noticed 272 mm at Banarhat on 19<sup>th</sup> June. This was caused due to active monsoon condition over Sub-Himalayan West Bengal (SHWB) and strong moister incursion from Bay of Bengal (BoB). The rivers which were normally thirsty after summer, gradually raised and crossed primary danger level (PDL), danger level (DL) extreme danger level (EDL). River Raidak-I at Tufanganj crossed DL on 22<sup>nd</sup> & 23<sup>rd</sup>. River Teesta & Torsa remained above PDL at Mekhliganj & Hasimara from 17<sup>th</sup> to 23<sup>rd</sup> June, respectively. River Kaljani at Alipurduar crossed PDL on 21<sup>st</sup> & 22<sup>nd</sup> June. Condition of River Jaladhaka at NH-31 Crossing was worst. It even crossed EDL on 19<sup>th</sup> June. Warning Signals were imposed for the unprotected/protected areas by the local flood warning authorities.

**6.1.2. In July 2023:** In the 1<sup>st</sup> week of July, a cyclonic circulation laid over SHWB and Sikkim and strong moisture incursion from BoB was there. Enhanced rainfall with thunderstorm and lightening continued over districts of North Bengal during 2<sup>nd</sup> – 7<sup>th</sup> July. Due to these, considerable amount of precipitation received at Malbazar, Mainaguri, Banarhat, Barobisha, Hasimara & Alipurduar. Maximum one day rainfall noticed 216.2 mm at Barobisha on 2<sup>nd</sup> July. In consequence, River Jaladhaka at NH-31 crossing was in very high spate and crossed DL on 3<sup>rd</sup>. River Torsa at Hasimara and Teesta at Mekhliganj were also above PDL.

The monsoon trough at MSL passed through Gaya, Bhagalpur, Balurghat and thence NE-wards to Arunachal Pradesh and strong moisture incursion from BoB, enhanced rainfall activity and very heavy to extremely heavy rainfall occurred over the districts of North Bengal during 12<sup>th</sup> – 14<sup>th</sup> July. Due to these, Malbazar, Jalpaiguri, Banarhat, Hasimara, Alipurduar, Tufanganj & Siliguri received very high rainfall. Maximum one day rainfall noticed 290 mm at Banarhat on 13<sup>th</sup> July. As a result, River Jaladhaka at NH-31 crossing was flowing closed to EDL on 13<sup>th</sup> and other rivers were also at very high spate.

Warning Signals were imposed for the unprotected/protected areas by the local flood warning authorities time to time.

**6.1.3. In August 2023:** In anticipation with shifting of monsoon trough close to foothills of Himalayas and strong moisture incursion from BoB, very heavy to extremely heavy rainfall happened over Malbazar, Jalpaiguri, Banarhat, Barobisha, Hasimara & Siliguri during 23<sup>rd</sup> – 28<sup>th</sup>. Maximum one day rainfall noticed 275 mm at Banarhat on 28<sup>th</sup> August. As a result, River Teesta, Jaldhaka, Fulahar & Ganga-Padma were ruling very high. River Jaldhaka flew close to EDL on 28<sup>th</sup>. Warning Signals were imposed accordingly.

**6.1.4. In September 2023:** Due to active monsoon and strong moisture incursion from BoB, heavy to very heavy rainfall occurred over the districts of North Bengal during 21<sup>st</sup> – 25<sup>th</sup> August. This time Coochbehar, Noth & South Dinajpur and Malda got considerable amount of rainfall. Maximum one day rainfall noticed 195 mm at Gangarampur on 24<sup>th</sup>. Due to its effect, River Punarbhaba at Gangarampur was flowing above EDL w.e.f. 25<sup>th</sup> – 27<sup>th</sup> September and then subsided gradually.

**6.1.5. In October 2023:** Overall monthly rainfall was normal and less eventful. Maximum one day rainfall noticed 120.6 mm at Darjeeling on 4<sup>th</sup>. Due to heavy rainfall at Sikkim uphill, a Glacial Lake Outburst Flood (GLOF) from South Lhonak Lake in North Sikkim took place. As a result, huge sediment and suspended loads carried by River Teesta.

All monthly rainfall variations are stated in cl. 5.3 of previous chapter and also presented in **Annexure IV- A & B**. Flood frequency curves (Gauge Level vs. Time) of different rivers in entire North Bengal have been presented in **Annexure VIII-A**. Due to high river stages, warning signals were frequently imposed for unprotected & protected areas of North Bengal. List of such signals is presented in **Annexure-X**.

## 6.2. Flood Spells in South Bengal

**6.2.1. In June & July 2023:** There was delayed onset of SW monsoon in South Bengal. Heat wave, Hot & humid discomfort weather prevailed in the month of June except some isolated intense rainfall, thunderstorm and lightening due to Nor'westers or Kalboishakhi. Deficient rainfall observed in first two months. About 13% in June and 32% in July were rainfall deficit than monthly normal value. So, the South Bengal rivers were almost dry or below the measurable gauge levels.

**6.2.2. In August 2023:** Due to presence of well-marked low-pressure (WMLP) area over central parts of northeast BoB and its intensification into deep depression, heavy to very heavy rainfall occurred over the districts of South Bengal during 31<sup>st</sup> July to 2<sup>nd</sup> August. Maximum one day rainfall noticed 154.2 mm at Ghatal on 2<sup>nd</sup>. Due to passing of monsoon trough through UP, Bihar, Balurghat & thence east-SE wards Mizoram and moisture incursion from BoB, there was some increase of rainfall in South Bengal districts during 23<sup>rd</sup> – 26<sup>th</sup> August. Widespread moderate to heavy rainfall observed.

No significant water rise observed in South Bengal rivers during this month.

**6.2.3. In September:** Rainfall pattern of August & September was almost similar, on an average 2.5% little more rainfall than normal. Due to strong moisture incursion from BoB, significant rainfall occurred over the districts of South Bengal during 4<sup>th</sup> – 5<sup>th</sup> September and again on 21<sup>st</sup> – 23<sup>rd</sup> September. However, rivers were under control.

**6.2.4. In October 2023:** A Low to WMLP area laid over SW Jharkhand and adjoining north Chhattisgarh and associated cyclonic circulation caused enhanced rainfall during 1<sup>st</sup> – 3<sup>rd</sup> October in the western part of South Bengal. On 4<sup>th</sup> Oct. morning severe rainfall recorded at Panskura, Amgachia, Sabang and Barisha. One day max. rainfall at Barisha was 522 mm – the season's highest!

In anticipating depression in Damodar valley upper catchment, 95,485 and

1,33,280 Ac.Ft./Day dam releases were made from Maithon and Panchet reservoirs respectively on 3<sup>rd</sup> October. Corresponding Durgapur Barrage downstream discharge was 1,34,725 cusecs on 4<sup>th</sup> October. Galudih Barrage downstream discharge of Subarnarekha River was 1,65,932 cusecs on 4<sup>th</sup> October. Kangsabati dam release was 62,167 Ac.Ft./Day on 5<sup>th</sup> October.

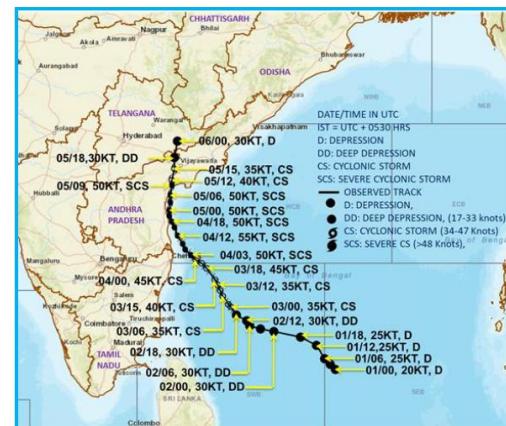
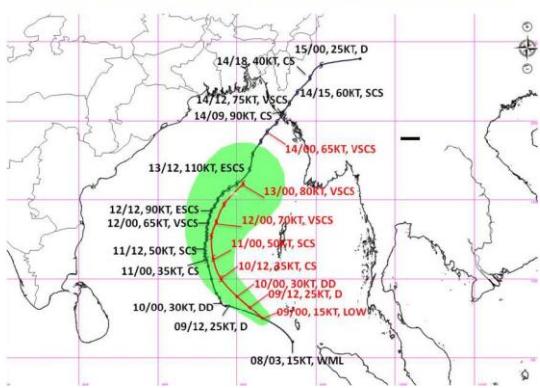
Due to such huge rainfall, River Kaliaghai, Kapaleswari, Old Cossye, New Cossye, Rupnarayan etc. were ruling very high. River Kaliaghai & Kapaleswari were flowing above EDL for 5 to 7 days from 4<sup>th</sup> October and Old Cossye & New Cossye were flowing above EDL from 5<sup>th</sup> – 7<sup>th</sup> October. River Rupnarayan at Bandar was above EDL from 6<sup>th</sup> – 8<sup>th</sup> October. River Kangsabati at Kapastikri and River Chandia at Barisha also flowing above DL.

Due to release of huge water into lower DV area, Amta Channel, Short Cut Channel and Hurhura Khal were flowing above EDL during this flood spell.

Statistical analysis of River gauge data for whole West Bengal during the flood season 2023 is detailed in **Annexure-VII**. Flood frequency curves of different rivers in South Bengal have been presented in **Annexure VIII-B**.

**6.3. Cyclonic Storms in 2023:** On 14<sup>th</sup> May (1230-1430 IST) extremely severe cyclonic storm 'Mocha' heat in between Myanmar & Bangladesh, which was formed over southeast BoB on 9<sup>th</sup> May. On 5<sup>th</sup> December (1230-1430 IST) severe cyclonic storm 'Michaung' heat in between Andhra Pradesh & Tamil Nadu, which was formed over South Andaman Sea on 1<sup>st</sup> December. As influence area of the both were outside of West Bengal, the impacts on the State were minimal. Tract of cyclones is given below:

OBSERVED TRACK (09-15 MAY 2023) AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY BASED ON 1200 UTC OF 10 MAY OF EXTREMELY SEVERE CYCLONIC STORM 'MOCHA' OVER BAY OF BENGAL DURING 09-15 MAY 2023



Observed track of severe cyclonic storm "Michaung" over the Bay of Bengal during 1<sup>st</sup>-6<sup>th</sup> December

#### 6.4. Reservoir and Barrage Data

The instantaneous Inflow-Outflow and Reservoir level of major dams and barrages either under the control of Irrigation & Waterways Department or those have direct impact on the flood situation of West Bengal have been measured during the flood season. Monthly Statistics of data of those Dam-Barrage Operations i.e., maximum, minimum & average reservoir level, inflow & outflow data was analyzed and presented in **Annexure IX-A**. The inflow-outflow data along-with reservoir levels of those important Dams and Barrages during 1<sup>st</sup> June to 31<sup>st</sup> October, 2023 have been graphically presented in **Annexure IX-B**.

#### 6.5. North Bengal Warning / Signal System

Regional Flood Control Room at Jalpaiguri imposes yellow/red signals for unprotected and protected banks of North Bengal rivers during peak flood period as warning to all concerned. The details of Flood Warning Levels for imposing and withdrawal of a signal is given in the following table.

### Flood Warning Levels of North Bengal Rivers

Gauge obtained from	Signal Imposed By	Name of River	Name of Gauge Station	Unprotected Area		Protected Area	
				Yellow	Red	Yellow	Red
Irrigation & Waterways Department, Government of West Bengal	JGP	Teesta	Teesta Bazar	211.00	213.00	/\	/\
			Coronation Bridge	149.40	151.80	150.00	153.60
	CBR		Domohoni	85.65	85.95	85.95	86.30
			Mekhliganj	65.45	65.95	/\	/\
	JPG	Jaldhaka	N.H-31 C (Nagrakata)	160.70	161.30	161.00	161.80
			N.H-31 Crossing	80.00	80.50	80.10	80.90
	CBR	Mansai	Mathabhanga	47.70	48.70	48.40	48.90
	APD	Torsa	N.H-31 C (Hasimara)	116.30	116.90	116.30	117.50
	CBR		C.B.R (Kashab Ashram)	42.07	42.68	/\	/\
	APD	Kaljani	P.W.D (Alipurduar)	45.10	45.70	/\	/\
		Raidak-I	N.H-31C (Chapan)	46.70	47.60	47.00	47.90
		Raidak-II	N.H-31C (Telepara)	48.10	49.00	48.40	49.30
		Daina	Chengmari	200.50	201.40	/\	/\
		Sankosh	N.H-31C (LRP)	48.20	49.10	48.50	49.40
	CBR	Mujnai	Bhutnir Ghat	61.70	62.30	/\	/\
		Raidak-I	Tufanganj	34.22	35.30	/\	/\
	SLG	Mahananda	Siliguri	115.97	116.59	/\	/\

Abbreviations: - JGP: Jalpaiguri, CBR: Coochbehar, APD: Alipurduar, SLG: Siliguri

Warning signals imposed for different rivers in North Bengal during flood season 2023 is tabulated in **Annexure-X.**

#### 6.6. Bhora Kotal & Tidal Effects

Significant full moon or bhora kotals where tidal levels in river Hooghly as per Tide Table of KoPT were very high on 05.06.23, 05.07.23, 03.08.23, 01.09.23 (highest) & 29.09.23. If the wave thrust in purnima kotal is synchronized with heavy rainfall & easterly wind in association with depression Bay of Bengal, overtopping, breach and wash out of earthen embankments often happened in coastal areas. Due to effect of Purnima or Amabasya Kotal synchronized with heavy rain or high wind, several damages occurred on 04.06.23 to 07.06.23, 02.07.23 to 06.07.23, 16.07.23 to 19.07.23 (new moon), 01.08.23 to 04.08.23, 30.08.23 to 02.09.23 14.09.23 to 17.09.23(new moon), 28.09.23 to 05.10.23 & 27.10.23 to 30.10.23. IWD normally measures HTL at Sagar Island, Old Digha & Najirganj during Kottals. Tidal Surge, i.e., additional rise of water (HTL) than predicted value as per KoPT tide table are observed.

#### 6.7. Flood Damage Data

The flood damages in the year 2023 were not so significant. The nature and extent of damages and expenditure involved for restoration of flood damages occurred in different districts of West Bengal have been presented in **Annexure-XI.**

## 7. CONCLUSION

Our State is a huge recipient of run-off generated from outside of the State. It has typical basin characteristics. In the northern Sub-Himalayan region, the rainfall is high and the terrain slope is steep. The rivers in the Terai region are wide, shallow and mostly braided. Due to immense denudation of forest cover and unstable geology in the hills, the silt loads are continuously deposited in the river beds, reducing the carrying capacity of rivers. It causes overflow during high discharges, often creating flood situations. In the northern foothills, central and southern region, heavy rainfall and surface run-off descending from the upper catchments, often outside the State boundary, causes flood inundation and drainage congestion due to flat topography of the region.

Main structural measures of flood control in West Bengal are river embankments measuring about 10,500 km., spread over different river systems, constructed over the years. There are major dams across river Kangsabati, Mayurakshi and Damodar River systems. In the Damodar system, moderation of the dam release during the peak flood is possible to some extent.

In North Bengal, an elaborate flood warning system is maintained by the department that warns the common people about the trend of rise of water level in rivers and thus alarms them to take necessary precautionary measures well beforehand. In Central and South Bengal, the water level of different rivers together with their danger and extreme danger levels as well as the releases from different dams and barrages are intimated to different authorities' time to time during the entire flood season.

Besides this, our department continuously maintains close liaison with the Regional Meteorological Centre (RMC), Kolkata and keeps continuous track of India Meteorological Department (IMD) website in order to collect dynamic information on weather condition during entire monsoon period. In critical situations, the department adopts appropriate measures commensurate with the circumstances. Central Water Commission (CWC) always extend their co-operation by providing different hydro-meteorological data under their jurisdiction.

In every monsoon and flood season, Central Flood Control Room (CFCR), with toll-free landline facilities, becomes operational to keep close vigil of the situations. It functions round the clock and is always on high alert. It collects daily hydro-meteorological and climatological data from all possible sources, prepares Daily Flood Reports (DFR) and Bulletins and disseminates the same to all concerned. Daily reports during entire monsoon period are also available in public domain in the departmental website [www.wbiwd.gov.in](http://www.wbiwd.gov.in). Two regional flood control rooms (RFCR) of North Bengal, one at Club Road, Jalpaiguri and another at Green Park, Malda were also functional for communicating of information in a better way.

Besides the normal monsoon period, CFCR may pre-open or re-open during extreme exigencies like, severe cyclonic storms. It continuously monitors and kept track of the development and advancement of the storm, collected data of associated rainfall, wind speed, storm surge and damages of departmental infrastructure and published special bulletins twice daily during these exigencies.

In the previous year, overall annual rainfall has been below normal with few incessant rainfall spells and reservoir releases leading to some damages to IWD infrastructure at some places. Apart from that, few damages in river and sea embankments of coastal districts have occurred due to Bhora Kotal. In all such situations, department has taken appropriate action for timely completion and restoration of the damaged spots.

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Dated: 20<sup>th</sup> August, 2024.

**Annexure I: Details of River Network**

Sl. No.	RIVER	Tributaries		Location	
		Primary	Secondary	STATE	District
<b>BASIN 2A: BRAHAMAPUTRA</b>		<b>SUB-BASIN: LOWER BRAHAMAPUTRA</b>			
1	Sankosh			Assam	Kokrajhar
				West Bengal	Coochbehar
		Chhoto Sankosh		Assam	Kokrajhar
				West Bengal	Alipurduar
		Raidak-II		West Bengal	Alipurduar, Coochbehar
2	Torsa			West Bengal	Alipurduar, Coochbehar
		Raidak-I	Dhakshi	West Bengal	Alipurduar, Coochbehar
		Gadadhar	Jayanti	West Bengal	Alipurduar
		Kaljani	Bala	West Bengal	Alipurduar
			Nonai	West Bengal	Alipurduar
			Dima	West Bengal	Alipurduar
			Pana	West Bengal	Alipurduar
			Garam	West Bengal	Alipurduar
		Bania		West Bengal	Alipurduar
		Ghargharia		West Bengal	Alipurduar, Coochbehar
		Holong		West Bengal	Alipurduar, Coochbehar
		Dharala		West Bengal	Coochbehar
3	Jaldhaka			West Bengal	Kalimpong, Jalpaiguri, Coochbehar
		Mujnai	Titi	West Bengal	Alipurduar
			Pagli	West Bengal	Alipurduar
			Ekti	West Bengal	Alipurduar
		Jurapani	Shukti	West Bengal	Alipurduar
			Dudua	West Bengal	Jalpaiguri, Alipurduar
		Diana	Gilandi	West Bengal	Jalpaiguri
			Longit	West Bengal	Jalpaiguri
		Khuji Diana	Chetia	West Bengal	Jalpaiguri
			Jiti	West Bengal	Jalpaiguri
		Murti		West Bengal	Jalpaiguri
		Sutanga		West Bengal	Coochbehar
		Jarda	Bagdan	West Bengal	Jalpaiguri, Coochbehar
		Dolong		West Bengal	Coochbehar
4	Teesta			Sikkim	North Sikkim, South Sikkim
				West Bengal	Darjeeling, Jalpaiguri, Coochbehar
		Lachung	Yumthang	Sikkim	North Sikkim
		Lasha		Sikkim	North Sikkim
		Lohnak	Poke, Gome	Sikkim	North Sikkim
		Rangyung	Ringpi, Rukel	Sikkim	North Sikkim
		Chakung		Sikkim	North Sikkim
		Dick		Sikkim	North Sikkim
		Rangit	Rimbi	Sikkim	West Sikkim
			Kalej	Sikkim	West Sikkim
			Rammam	Sikkim	West Sikkim
			Little Rangit	West Bengal	Darjeeling
		Rani		Sikkim	East Sikkim
		Rangpochu	Nathang	Sikkim	East Sikkim
		Relli		West Bengal	Kalimpong
		Rangio		West Bengal	Darjeeling
		Leesh		West Bengal	Kalimpong, Jalpaiguri
		Gheesh		West Bengal	Kalimpong, Jalpaiguri
		Dharala		West Bengal	Kalimpong, Jalpaiguri
		Neora		West Bengal	Kalimpong, Jalpaiguri
		Mal		West Bengal	Darjeeling, Jalpaiguri
		Chel		West Bengal	Jalpaiguri
		Karla			

SI. No.	RIVER	Tributaries		Location	
		Primary	Secondary	STATE	District
		BASIN 2B: GANGA		SUB-BASIN: BHAGIRATHI LOWER & OTHERS	
1	Mahananda			West Bengal	Darjeeling, Uttar Dinajpur, Malda
				Bihar	Kishanganj, Purnia
		Balason	Rohini	West Bengal	Darjeeling
		Lachka		West Bengal	Darjeeling
		Taipu	Manjha	West Bengal	Darjeeling
		Mechi	Biring	Bihar	Kishanganj
		Kankai	Ratwa	Bihar	Kishanganj, Purnia
		Panar		Bihar	Araria, Purnia, Katihar
			Bakra	Bihar	Araria, Purnia
			Kesaliya	Bihar	Araria, Purnia
		Dauk		West Bengal	Uttar Dinajpur
		Pitani	Bakuna	West Bengal	Uttar Dinajpur
		Nagar	Sudhani	West Bengal	Uttar Dinajpur
			Kulik	West Bengal	Uttar Dinajpur
		Chiramati		West Bengal	Uttar Dinajpur
		Sui		West Bengal	Uttar Dinajpur
		Tangon		West Bengal	Uttar & Dakshin Dinajpur, Malda
		Mora Mahananda		West Bengal	Malda
		Kalindri		West Bengal	Malda
2	Fulhar			Bihar	Katihar
				West Bengal	Malda
3	Punarbhava			West Bengal	Dakshin Dinajpur, Malda
4	Atreyee			West Bengal	Dakshin Dinajpur
		Kartowa	Neem	West Bengal	Jalpaiguri
			Sahoo	West Bengal	Jalpaiguri
			Chauli	West Bengal	Jalpaiguri
			Talma	West Bengal	Jalpaiguri
		Panga		West Bengal	Jalpaiguri
		Jamuna		West Bengal	Dakshin Dinajpur
		Brahmani		West Bengal	Dakshin Dinajpur
5	Ganga-Padma	Pagla		West Bengal	Malda
		Gumani		West Bengal	Murshidabad
				Jharkhand	Godda, Sahebganj
6	Bansloi			Jharkhand	Sahebganj, Pakur
				West Bengal	Birbhum, Murshidabad
		Bagmari	Jharkhand		Pakur
			West Bengal		Murshidabad
		Krilon		West Bengal	Murshidabad
7	Pagla			Jharkhand	Pakur
				West Bengal	Birbhum, Murshidabad
		Buri		West Bengal	Birbhum
8	Dwarka	Brahamani		Jharkhand	Dumka
				West Bengal	Birbhum, Murshidabad
			Gumra	Jharkhand	Dumka
			Tripti	Jharkhand	Dumka
		Gambhira	Gamri	West Bengal	Birbhum
		Chailan		Jharkhand	Dumka
				West Bengal	Birbhum
		Ghormora		West Bengal	Birbhum
		Kajuli		West Bengal	Birbhum
		Daoka	Manikarnika	West Bengal	Birbhum, Murshidabad
		Banka		West Bengal	Murshidabad

Sl. No.	RIVER	Tributaries		Location	
		Primary	Secondary	STATE	District
9	Mayurakshi			Jharkhand	Deoghar, Dumka
				West Bengal	Birbhum, Murshidabad
		Dhabai		Jharkhand	Dumka
		Bhurbhuri		Jharkhand	Dumka
		Tepra		Jharkhand	Dumka
		Siddeswari		Jharkhand	Jamtara, Deoghar, Dumka
			Noonbeel	Jharkhand	Deoghar
		Kushkarini		Jharkhand	Jamtara
				West Bengal	Birbhum
		Kuia	Bakreswar	West Bengal	Birbhum, Murshidabad
				Jharkhand	Jamtara
			Kopai	West Bengal	Birbhum
10	Babla	Mayurakshi		West Bengal	Murshidabad
		Dwarka		West Bengal	Murshidabad
11	Ajay			Bihar	Munger
				Jharkhand	Deoghar, Jamtara
				West Bengal	Birbhum, East & West Burdwan
		Dudhwa		Bihar	Munger
				Jharkhand	Deoghar
		Pathro & Jayanti		Jharkhand	Giridih, Deoghar
		Hinglow	Amba	Jharkhand	Jamtara
				West Bengal	Birbhum
		Tumoni		West Bengal	West Burdwan
		Kunur		West Bengal	East & West Burdwan
		Kana Ajay		West Bengal	Birbhum
12	Jalangi			West Bengal	Murshidabad, Nadia
		Bhairab		West Bengal	Murshidabad
		Sialamari		West Bengal	Murshidabad
		Suti	Chhoto Bhairab	West Bengal	Murshidabad
			Bhandardaha	West Bengal	Murshidabad
13	Churni	Anjana		West Bengal	Nadia
14	Ichhamati			West Bengal	Nadia, North 24-Parganas
		Jamuna		West Bengal	North 24-Parganas
		Padma Nala		West Bengal	North 24-Parganas
15	Bidyadhari	Nowai		West Bengal	North 24-Parganas
16	Khari	Brahmani		West Bengal	East Burdwan
		Banka		West Bengal	East Burdwan
17	Behula	Gangur		West Bengal	East Burdwan, Hooghly
18	Kunti			West Bengal	Hooghly
19	Ghea	Kedarmati		West Bengal	East Burdwan, Hooghly
		Kana		West Bengal	East Burdwan, Hooghly
20	Saraswati		West Bengal	Hooghly, Howrah	
21	Kana Damodar		West Bengal	East Burdwan, Hooghly, Howrah	
22	Amta Channel		West Bengal	East Burdwan, Hooghly, Howrah	
23	Kalindri		West Bengal	South 24-Parganas	
24	Rai Mangal		West Bengal	South 24-Parganas	
25	Bidya		West Bengal	South 24-Parganas	
26	Matla		West Bengal	South 24-Parganas	
27	Gosaba		West Bengal	South 24-Parganas	
28	Thakuran		West Bengal	South 24-Parganas	
29	Saptamukhi		West Bengal	South 24-Parganas	
30	Muri Ganga		West Bengal	South 24-Parganas	
31	Adi Ganga / Tolly's Nullah		West Bengal	Kolkata, South 24-Parganas	
32	Bhagirathi-Hooghly		West Bengal	Birbhum, Murshidabad, Nadia, East Burdwan, Hooghly, Howrah, South & North 24 Parganas, Purba Medinipur	

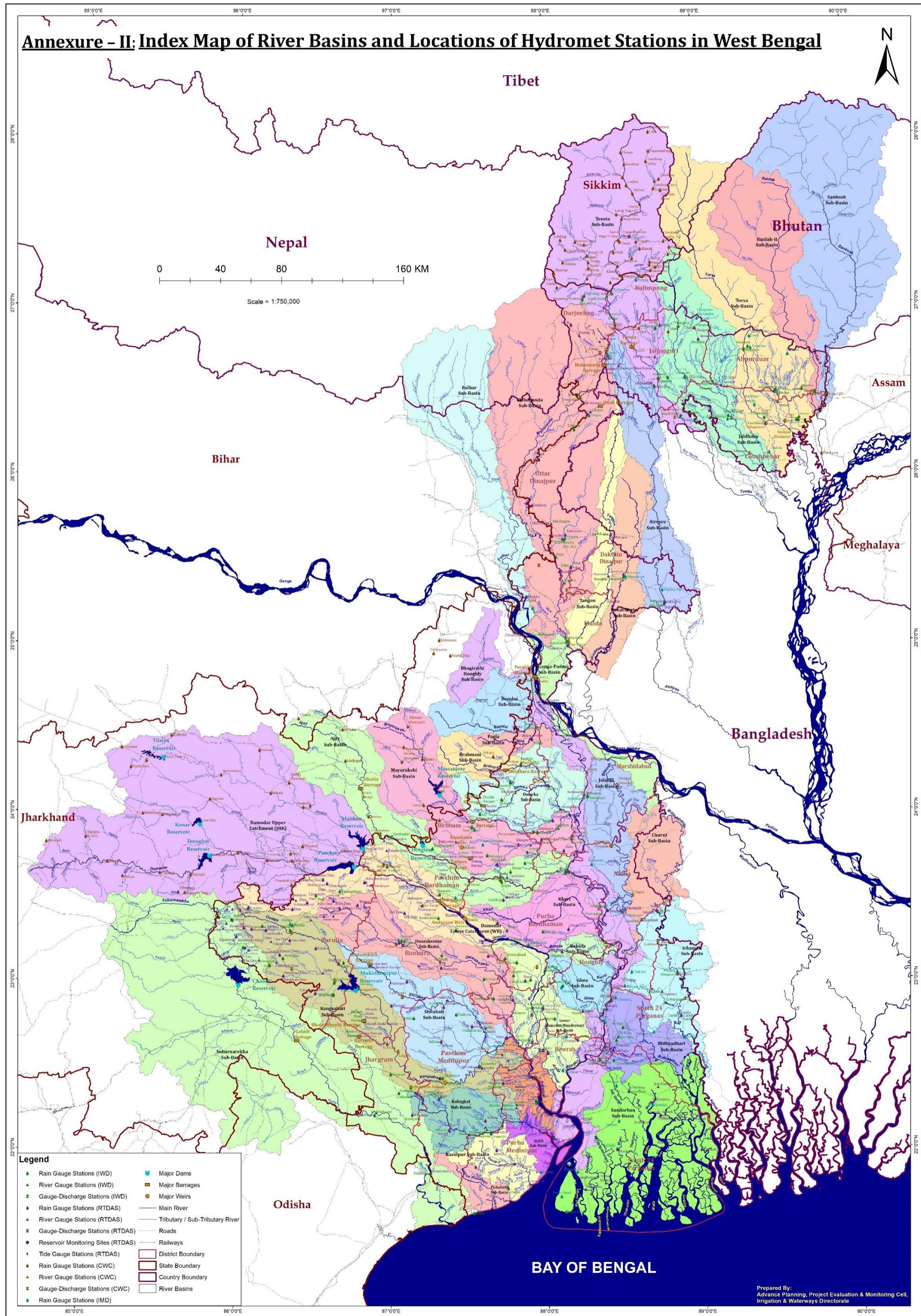
Sl. No.	RIVER	Tributaries		Location	
		Primary	Secondary	STATE	District
BASIN 2B: GANGA		SUB-BASIN: DAMODAR, RUPNARAYAN & OTHERS			
1	Damodar			Jharkhand	Latehar, Chatra, Hazaribag, Ramgarh, Bokaro Dhanbad
				West Bengal	East & West Burdwan, Purulia, Bankura, Hooghly, Howrah
			Barakar	Jharkhand	Hazaribag, Giridih, Kodarma, Dhanbad
				West Bengal	Paschim Bardhaman
				Igra	Giridih
				Ushri	Giridih
				Dumohon	Giridih
			Barki	Barsoti	Hazaribag
				Jharkhand	Latehar, Chatra, Hazaribag
			Haharo	Jharkhand	Hazaribag
				Jharkhand	Hazaribag
			Ghari	Jharkhand	Hazaribag
				Jharkhand	Hazaribag, Bokaro
			Bokaro	Jharkhand	Hazaribag, Bokaro
				Jharkhand	Hazaribag
			Konar	Jharkhand	Bokaro
				Siwani	Hazaribag
			Jamunia	Jharkhand	Hazaribag, Giridih, Bokaro, Dhanbad
				Jharkhand	Ranchi, Ramgarh
			Naikari, Bhera	Jharkhand	Khanjo, Garga
				Jharkhand	Bokaro
			Khadia, Katri	Jharkhand	Dhanbad
				Jharkhand	Bokaro
			Gowai, Ijri	Jharkhand	Purulia
				West Bengal	Sali
			Singaran, Tamal	West Bengal	Bankura
				West Bengal	Nunia
			West Burdwan	West Bengal	West Burdwan
2	Mundeswari	Harinkhola	West Bengal	West Bengal	East Burdwan, Hooghly
3	Darakeswar		Futiary, Beko, Dudhibheria	West Bengal	Purulia, Bankura, East Burdwan, Hooghly
				West Bengal	Purulia
			Arkasha	Kansachor	Purulia, Bankura
			Dangra	West Bengal	Purulia, Bankura
				West Bengal	Bankura
			Gandheswari, Berai, Khukra	West Bengal	Paschim Medinipur
				West Bengal	Bankura, Paschim Medinipur
				West Bengal	Bankura, Paschim Medinipur
4	Shilabati		Shankari	Dev	West Bengal
				West Bengal	East Burdwan
			Jaiponda	West Bengal	Purulia, Bankura, Paschim Medinipur
				West Bengal	Bankura
			Puratan, Champayan, Ketia	West Bengal	Purulia, Paschim Medinipur
				West Bengal	Paschim Medinipur
			Ruparghghra	West Bengal	Donai
				West Bengal	West Bengal
5	Kangsabati / Kansai		Kubai	Tamal, Parang	Paschim Medinipur
				West Bengal	Paschim Medinipur
			Katan	West Bengal	Paschim Medinipur
				West Bengal	Purulia, Bankura, Paschim Medinipur, Jhargram
			Saharjore, Bandhu, Patloj	West Bengal	Purulia
				West Bengal	Jhargram, Purulia
			Kumari	Hanumata, Kerro, Jore, Charan	West Bengal
			Jam	West Bengal	Jhargram, Bankura, Purulia
				Jharkhand	Purba Singhbhum
				West Bengal	Purulia
			Bhairabbanki	Jhinuk	Bankura, Paschim Medinipur
				West Bengal	Jhargram
			Kalaichu	Tarapheni	West Bengal
				West Bengal	Paschim Medinipur
6	Old Cossye			West Bengal	Paschim Medinipur
7	New Cossye	Kherai	Bakshi	West Bengal	Paschim & Purba Medinipur

Sl. No.	RIVER	Tributaries		Location	
		Primary	Secondary	STATE	District
8	Rupnarayan	Kana Dwarakeswar		West Bengal	Hooghly, East Burdwan
		Polashpai		West Bengal	Paschim Medinipur
		Durbachaty		West Bengal	Purba Medinipur
10	Kaliaghai			West Bengal	Paschim & Purba Medinipur
		Kapaleswari, Deuli		West Bengal	Paschim Medinipur
		Chandia		West Bengal	Paschim & Purba Medinipur
		Baghai		West Bengal	Paschim & Purba Medinipur
11	Haldi			West Bengal	Purba Medinipur
12	Rasulpur			West Bengal	Purba Medinipur
13	Pichabani			West Bengal	Purba Medinipur
14	Negua Channel			West Bengal	Paschim & Purba Medinipur

**BASIN 6: SUBARNAREKHA**

1	Subarnarekha			Jharkhand	Ranchi, Seraikela-Kharawan, Purba Shingbhum
				West Bengal	Purulia, Jhargram, Paschim Medinipur
				Odisha	Balasore
		Jhumur, Rupai		Jharkhand	Ranchi
		Kakro	Rarhu	Jharkhand	Ranchi
		Karru		Jharkhand	Ranchi
				West Bengal	Purulia
		Kanchi		Jharkhand	Ranchi
		Damra		Jharkhand	Ranchi, Seraikela-Kharawan
		Karkari		Jharkhand	Ranchi, Seraikela-Kharawan
		Chinguru		West Bengal	Purulia
				Jharkhand	Seraikela-Kharawan
		Kharkai	Bankabol, Khadkari, Kandria, Nesa, Burhai	Odisha	Mayurbhanj
			Torlo, Illgara, Roro, Sanjai	Jharkhand	Paschim Shingbhum
		Garra, Sankh, Kodia		Jharkhand	Purba Shingbhum
		Gurma		Jharkhand	Purba Shingbhum
				West Bengal	Purulia
		Singaduba		Jharkhand	Purba Shingbhum
				West Bengal	Paschim Medinipur
		Dulung, Khajiori		West Bengal	Jhargram

**Annexure - II: Index Map of River Basins and Locations of Hydromet Stations in West Bengal**



**Annexure -III****A) List of Existing Rain Gauge Stations recorded under I. & W. Dept.**

Sl. No.	Rain Gauge Station	Type	Name of the River Sub-basin	District	Normal Annual Rainfall (mm)	Division	
1	Uttarbhag	ORG	Ajoy	Adi Ganga	South 24 Parganas	1922.00	Metropolitan Drainage Mechanical Div.
2	Bahari	ORG		Birbhum	1460.00	Mayurakshi South Canal Division	
3	Bhedia	ORG		Purba Bardhaman	1402.00	Damodar Head Works Division	
4	Debogram	ORG		Birbhum	1460.00	Mayurakshi South Canal Division	
5	Nanur	ORG		Birbhum	1460.00	Mayurakshi South Canal Division	
6	Satkahania	ORG		Paschim Bardhaman	1402.00	Damodar Head Works Division.	
7	Sikatia	CWC		Deoghar	1162.10	Dy. Director (Dist. Plan)	
8	Balurghat	ORG	Atrai	Dakshin Dinajpur	1431.80	South Dinajpur (I) Division	
9	Salar	ORG	Babla	Murshidabad	1353.30	Mayurakshi South Canal Division	
10	Kadisala	ORG	Bakreswar	Birbhum	1460.00	Mayurakshi South Canal Division	
11	Balgona	ORG	Banka-Khari	Purba Bardhaman	1402.00	EE-II, Damador Canal Division	
12	Kanainutsal	ORG		Purba Bardhaman	1402.00	EE-I, Damodar Canal Division	
13	Sanko	ORG		Purba Bardhaman	1402.00	EE-I, Damodar Canal Division	
14	Paikor	ORG	Bansloj	Birbhum	1460.00	Mayurakshi North Canal Division	
15	Berhampur	ORG	Bhagirathi-Hooghly	Murshidabad	1353.30	Berhampur (I) Division	
16	Katwa	ORG		Purba Bardhaman	1402.00	EE-II, Damador Canal Division	
17	Bhairab Banki Barrage	ORG	Bhairab Banki	Bankura	1533.90	Kangsabati Canal Division-V	
18	Barasat	AGRI	Bidyadhari	North 24 Parganas	1592.60	Bidyadhari Drainage Division	
19	Chowbhaga	ORG		South 24 parganas	1922.00	Metropolitan Drainage Mechanical Div.	
20	Dum Dum	RMC		North 24 Parganas	1592.60	Dy. Director (Dist. Plan)	
21	Md. Bazar	ORG	Brahmani	Birbhum	1460.00	Mayurakshi North Canal Division	
22	Nalhati	ORG		Birbhum	1460.00	Mayurakshi North Canal Division	
23	Arsha	ORG	Cossye	Purulia	1449.90	Purulia Const. Division	
24	Barabhum	ORG		Purulia	1449.90	Purulia Const. Division	
25	Hanumata	ORG		Purulia	1449.90	Purulia Const. Division	
26	Purulia	ORG		Purulia	1449.90	Purulia(I) Division	
27	Simulia	ORG		Purulia	1449.90	Bankura Irrigation Division	
28	Tusuma	ORG		Purulia	1449.90	Bankura Irrigation Division	
29	Amra	ORG	Damodar	Howrah	1563.60	EE-I, Lower Damodar Construction Div.	
30	Antpur	ORG		Hooghly	1411.70	EE-I, Lower Damodar (I) Division	
31	Asansol	IMD		Paschim Bardhaman	1402.00	Damodar Head Works Division	
32	Champadanga	ORG		Hooghly	1411.70	EE-I, Lower Damodar (I) Division	
33	Durgapur	CWC		Paschim Bardhaman	1402.00	Damodar Head Works Division	
34	Edilpur	ORG		Purba Bardhaman	1402.00	EE-I, Damodar Canal Division	
35	Galsi	ORG		Purba Bardhaman	1402.00	Dy. Director (Statistics)	
36	Jamalpur	ORG		Purba Bardhaman	1402.00	EE-I, Lower Damodar (I) Division	
37	Lohai (Raina)	ORG		Purba Bardhaman	1402.00	Right Bank (I) Division	
38	Maithon	CWC		Dhanbad	1355.20	Dy. Director (Dist. Plan)	
39	Panchet	CWC		Dhanbad	1355.20	Dy. Director (Dist. Plan)	
40	Para	ORG		Purulia	1449.90	Purulia I&P Division	
41	Raghunathpur	ORG		Purulia	1449.90	Purulia Const. Division	
42	Rondia	CWC		Purba Bardhaman	1402.00	Damodar Head Works Division	
43	Tenughat	CWC		Bokaro	1247.50	Dy. Director (Dist. Plan)	
44	Tilaiya	CWC		Koderma	1116.20	Dy. Director (Dist. Plan)	
45	Uchalan	ORG		Bankura	1533.90	Right Bank (I) Division	

Sl. No.	Rain Gauge Station	Type	Name of the River Sub-basin	District	Normal Annual Rainfall (mm)	Division	
46	Barisha	ORG	Dwarakeswar	Chandia	Paschim Medinipur	1569.30	East Midnapur Division
47	Chandrakona	ORG		Donai	Paschim Medinipur	1569.30	Kangsabati Canal Division-I
58	Lodhashuli	ORG		Dulung	Jhargram	1569.30	Kangsabati Canal Division-V
49	Arambag	ORG			Hooghly	1411.70	EE-I, Lower Damodar (I) Division
50	Bankura	ORG			Bankura	1533.90	Bankura Irrigation Division
51	Bowaichandi	ORG			Purba Bardhaman	1402.00	Right Bank (I) Division
52	Indus	ORG			Bankura	1533.90	Right Bank (I) Division
53	Kamarpukur	ORG			Hooghly	1411.70	Kangsabati Canal Division III
54	Kotulpur	ORG			Bankura	1533.90	Kangsabati Canal Division III
55	Salbandh	ORG			Bankura	1533.90	Right Bank (I) Division
56	Beko	ORG			Purulia	1449.90	Purulia Const. Division
57	Deocha Barrage	ORG	Dwarka		Birbhum	1460.00	Mayurakshi North Canal Division
58	Mollarpur	ORG			Birbhum	1460.00	Mayurakshi North Canal Division
59	Rampurhat	ORG			Birbhum	1460.00	Mayurakshi North Canal Division
60	Singur	ORG	Ghea		Hooghly	1411.70	EE-I, Lower Damodar (I) Division
61	Itamogra	ORG	Haldi		Purba Medinipur	1788.70	Contai (I) Division
62	Hinglow Dam	ORG	Hinglow		Birbhum	1460.00	Mayurakshi South Canal Division
63	Khayrashole	ORG			Birbhum	1460.00	Mayurakshi South Canal Division
64	Alipore	RMC	Hooghly		Kolkata	1818.20	Dy. Director (Dist. Plan)
65	Bongaon	ORG	Ichamati		North 24 Parganas	1592.60	Bidyadhari Drainage Division
66	Tentulia	ORG			North 24 Parganas	1592.60	Basirhat Irrigation Division
67	Swarupganj	ORG	Jalangi		Nadia	1321.20	Nadia (I) Division
68	Banarhat	ORG	Jaldhaka		Jalpaiguri	3768.40	Jalpaiguri (I) Division
69	Maynaguri	ORG			Jalpaiguri	3768.40	Jalpaiguri (I) Division
70	Amgachia	ORG	Kaliaghari		Purba Medinipur	1788.70	Contai (I) Division
71	Kesiapata	ORG			Jhargram	1569.30	Kangsabati Canal Division-V
72	Jhargram	ORG	Kangsabati		Jhargram	1569.30	Kangsabati Canal Division-V
73	Manikpara	ORG			Jhargram	1569.30	Kangsabati Canal Division-V
74	Midnapore	CWC			Paschim Medinipur	1569.30	West Midnapur Division
75	Mohanpur	IMD			Paschim Medinipur	1569.30	West Midnapur Division
76	Mukutmanipur	CWC			Bankura	1533.90	Bankura Irrigation Division
77	Sabang	ORG	Kapaleswari		Paschim Medinipur	1569.30	Kaliaghari-Kapaleswari-Baghai Project Div.
78	Tarakeswar	RMC	Behula		Hooghly	1411.70	Dy. Director (Dist. Plan)
79	Memari	ORG			Purba Bardhaman	1402.00	EE-I, Lower Damodar (I) Division
80	Kultore Barrage	ORG	Kopai		Birbhum	1460.00	Mayurakshi South Canal Division
81	Shyambati	ORG			Birbhum	1460.00	Mayurakshi South Canal Division
82	Adalia	ORG	Kubai		Paschim Medinipur	1569.30	Kangsabati Canal Division-I
83	Kirnahar	ORG	Kuia		Birbhum	1460.00	Mayurakshi South Canal Division
84	Balarampur	ORG	Kumari		Purulia	1449.90	Purulia(I) Division
85	Khardidwar	ORG			Purulia	1449.90	Bankura Irrigation Division
86	Phulberia	ORG			Purulia	1449.90	Bankura Irrigation Division
87	Purihansa	ORG			Purulia	1449.90	Bankura Irrigation Division
88	Gushkara	ORG	Kunur		Purba Bardhaman	1402.00	Damodar Head Works Division
89	English Bazar	IMD	Mahananda		Malda	1561.10	Malda (I) Division
90	Islampur	ORG			Uttar Dinajpur	1952.80	North Dinajpur (I) Division
91	Raiganj	ORG			Uttar Dinajpur	1952.80	North Dinajpur (I) Division
92	Siliguri	ORG			Darjeeling	3144.10	Siliguri (I) Division

Sl. No.	Rain Gauge Station	Type	Name of the River Sub-basin	District	Normal Annual Rainfall (mm)	Division
93	Malbazar	ORG	Mayurakshi	Mal	Jalpaiguri	3768.40
94	Mathabhangha	CWC		Mansai	Coochbehar	3016.10
95	Haripur	CWC			Dumka	1381.50
96	Kandi	ORG			Murshidabad	1353.30
97	Khushiyary	CWC			Dumka	1381.50
98	Maharo	CWC			Dumka	1381.50
99	Massanjore	CWC			Dumka	1381.50
100	Narayanpur	CWC			Murshidabad	1353.30
101	Suri	CWC			Birbhum	1460.00
102	Tilpara Barrage	CWC			Birbhum	1460.00
103	Lohai (Raina)	ORG	Mundeswari	Purba Bardhaman	1402.00	Right Bank (I) Division
104	Sehera Bazar	ORG		Purba Bardhaman	1402.00	Right Bank (I) Division
105	Panskura	ORG	New Cossye	Purba Medinipur	1788.70	East Midnapur Division
106	Gangarampur	ORG	Punarbhava	Dakshin Dinajpur	1431.80	South Dinajpur (I) Division
107	Tufanganj	AGRI	Raidak-I	Coochbehar	3016.10	Coochbehar (I) Division
108	Contai	CWC	Rasulpur	Purba Medinipur	1788.70	Contai (I) Division
109	Ghatal	CWC	Rupnarayan	Paschim Medinipur	1569.30	West Midnapur Division
110	Tamluk	ORG		Purba Medinipur	1788.70	East Midnapur Division
111	Barabisha	CWC	Sankosh	Alipurduar	3768.40	Dy. Director (Dist. Plan)
112	Domjur	ORG	Saraswati	Howrah	1563.60	EE-I, Lower Damodar Construction Div.
113	Kantabandh	ORG	Shali	Bankura	1533.90	Damodar Head Works Division
114	Gangajalghati	ORG		Bankura	1533.90	Damodar Head Works Division
115	Sonamukhi	ORG		Bankura	1533.90	Right Bank (I) Division
116	Amlagora	ORG	Shilabati	Paschim Medinipur	1569.30	Kangsabati Canal Division-I
117	Panikotar	ORG		Paschim Medinipur	1569.30	Kangsabati Canal Division-I
118	Tantloi	ORG	Siddheswari	Dumka	1381.50	Mayurakshi Headquarter Division
119	Baghmundi	ORG	Subarnarekha	Purulia	1449.90	Purulia(I) Division
120	Digha	ORG		Purba Medinipur	1788.70	Contai (I) Division
121	Gopiballavpur	ORG		Jhargram	1569.30	Jhargram Flood Management & Planning Div.
122	Jhalda	ORG		Purulia	1449.90	Purulia(I) Division
123	Sagar Island	RMC	Sundarban	South 24 Parganas	1922.00	Dy. Director (Dist. Plan)
124	Salboni	ORG	Tamal	Paschim Medinipur	1569.30	Kangsabati Canal Division-I
125	Tarapheni Barrage	ORG	Tarapheni	Jhargram	1569.30	Kangsabati Canal Division-V
126	Darjeeling	RMC	Teesta	Darjeeling	3144.10	Dy. Director (Dist. Plan)
127	Gangtok	RMC		East Sikkim	2756.40	Dy. Director (Dist. Plan)
128	Gazoldoba	CWC		Jalpaiguri	3768.40	Jalpaiguri (I) Division
129	Jalpaiguri	IMD		Jalpaiguri	3768.40	Jalpaiguri (I) Division
130	Alipurduar	IMD	Torsa	Alipurduar	3768.40	Alipurduar (I) Division
131	Coochbehar	IMD		Coochbehar	3016.10	Coochbehar (I) Division
132	Hasimara	ORG		Alipurduar	3768.40	Alipurduar (I) Division

\*ORG: Ordinary Rain Gauge of I&WD; ARG: Rain Gauge of Agriculture Dept.; IMD: Rain Gauge of India Meteorological Dept.; RMC: Regional Meteorological Centre (IMD, Kolkata); CWC: Rain Gauge of Central Water Commission.

**Annexure -III**  
**B) List of Existing River Gauge Stations under I. & W. Dept.**

Sl. No.	River Gauge Station	Name of the River Sub-basin	Danger Level (Metre)	Extreme Danger Level (Metre)	District	Division
1	Satkahania	Ajay	172.50	177.50	Paschim Bardhaman	Damodar Head Works Division
2	Budra (CWC)		39.42	40.34	Purba Bardhaman	Damodar Head Works Division
3	Gheropara		39.42	40.42	Birbhum	Mayurakshi South Canal Division
4	Katwa		14.48	15.04	Purba Bardhaman	EE-II, Damador Canal Division
5	Balurghat	Atrayi	23.15	23.76	Dakshin Dinajpur	South Dinajpur (I) Division
6	Bazarshow	Babla	15.02	15.65	Murshidabad	Mayurakshi South Canal Division
7	Bansloi Rail bridge	Bansloi	31.85	32.76	Birbhum	Mayurakshi North Canal Division
8	Berhampur	Bhagirathi-Hooghly	17.22	17.83	Murshidabad	Berhampur (I) Division
9	Kalna		7.63	8.24	Purba Bardhaman	EE-II, Damador Canal Division
10	Katwa		13.71	14.32	Purba Bardhaman	EE-II, Damador Canal Division
11	Swarupganj		8.44	9.05	Nadia	Nadia (I) Division
12	Jagdhari Road Bridge	Brahmani	33.00	33.40	Birbhum	Mayurakshi North Canal Division
13	Barisha	Chandia	6.30	6.90	Paschim Medinipur	East Midnapur Division
14	Hanskiali	Churni	7.53	8.14	Nadia	Nadia (I) Division
15	Champadanga	Damodar	12.90	13.50	Hooghly	EE-I Lower Damodar (I) Division
16	Edilpur		32.79	32.95	Purba Bardhaman	EE-I Damodar canal division
17	Jiara		16.16	16.77	Hooghly	EE-I Lower Damodar (I) Division
18	Jamalpur		23.24	23.54	Purba Bardhaman	EE-I Lower Damodar (I) Division
19	Rondiha		52.13	52.89	Purba Bardhaman	Damodar Head Works Division
20	Chopra	Dauk	69.46	70.07	Uttar Dinajpur	North Dinajpur (I) Division
21	Chengmari	Diana	200.50	201.20	Jalpaiguri	Jalpaiguri (I) Division
22	Khanyadihi	Durbachati	5.03	5.65	Purba Medinipur	East Midnapur Division
23	Arambag	Dwarakeswar	17.22	17.83	Hooghly	EE-I, Lower Damodar (I) Division Div.
24	Bankura		76.50	77.11	Bankura	Bankura Irrigation Division
25	Patakholia		76.50	77.11	Bankura	Bankura Irrigation Division
26	Shakepore		11.75	12.35	Hooghly	EE-I, Lower Damodar (I) Division
27	Ranagram	Dwarka	17.36	17.86	Murshidabad	Berhampur (I) Division
28	Sankoghat		20.40	21.30	Murshidabad	Berhampur (I) Division
29	Teljana	Fulhar	27.43	28.35	Malda	Malda (I) Division
30	Itahar	Gamari	26.82	27.41	Uttar Dinajpur	North Dinajpur (I) Division
31	Manikchakghat	Ganga	24.69	25.30	Malda	Malda (I) Division
32	Akheriganj	Ganga-Padma	18.44	19.05	Murshidabad	Berhampur (I) Division
33	Geria		20.94	21.55	Murshidabad	Ganga Anti Erosion Division-I
34	Nimtita		21.90	22.51	Murshidabad	Ganga Anti Erosion Division-I
35	Nurpur		21.03	21.64	Murshidabad	Ganga Anti Erosion Division-I
36	Muchighata	Hurhura khal	6.16	6.77	Howrah	EE-I, Lower Damodar Construction Div.
37	RD Setu (Bangaon)	Ichamati	4.70	5.25	North 24 Parganas	Bidyadhari Drainage Division
38	Tentulia		5.10	5.40	North 24 Parganas	Basirhat Irrigation Division
39	Nagrakata (CWC)	Jaldhaka	160.70	161.80	Jalpaiguri	Jalpaiguri (I) Division
40	NH 31 Crossing (CWC)		80.10	80.90	Jalpaiguri	Jalpaiguri (I) Division
41	Hili	Jamuna	24.18	24.80	South Dinajpur	South Dinajpur (I) Division
42	Gaighata	Jamuna	4.45	5.05	North 24 Parganas	Bidyadhari Drainage Division
43	Gobardanga		4.30	4.90	North 24 Parganas	Bidyadhari Drainage Division
44	Amgachia	Kaliaghari	5.79	6.40	Purba Medinipur	Contai (I) Division
45	Bhakrabad		8.40	8.85	Paschim Medinipur	Kaliaghari-Kapaleswari-Baghari Proj. Div.
46	Dehati		6.55	7.00	Paschim Medinipur	Kaliaghari-Kapaleswari-Baghari Proj. Div.
47	Kalimondop		5.03	5.65	Paschim Medinipur	Kaliaghari-Kapaleswari-Baghari Proj. Div.
48	Alipurduar	Kaljani	45.10	45.70	Alipurduar	Alipurduar (I) Division
49	Mohanpur	Kangsabati	25.75	26.36	Paschim Medinipur	West Midnapur Division

Sl. No.	River Gauge Station	Name of the River Sub-basin	Danger Level (Metre)	Extreme Danger Level (Metre)	District	Division
50	Narayanbarh	Kapaleswari	5.33	5.94	Paschim Medinipur	Kaliaghai-Kapaleswari-Baghai Proj. Div.
51	Angarpur	Kuia	19.05	20.05	Murshidabad	Mayurakshi South Canal Division
52	Tarapur		22.71	23.35	Murshidabad	Berhampur (I) Division
53	Railway Bridge	Kulick	31.20	32.69	Uttar Dinajpur	North Dinajpur (I) Division
54	Hill Curt Road	Mahananda	115.98	116.59	Darjeeling	Siliguri (I) Division
55	Sonapur		75.77	76.38	Uttar Dinajpur	North Dinajpur (I) Division
56	Mathabhanga (CWC)	Mansai	47.70	48.20	Coochbehar	Coochbehar (I) Division
57	Majdia	Mathabhanga	7.82	8.43	Nadia	Nadia (I) Division
58	Narayanpur	Mayurakshi	27.99	28.79	Murshidabad	Berhampur (I) Division
59	Makdampur	Nagar	31.54	31.86	Uttar Dinajpur	North Dinajpur (I) Division
60	Dobandi	New Cossye	5.02	5.63	Purba Medinipur	East Midnapur Division
61	Panskura		9.29	9.90	Purba Medinipur	East Midnapur Division
62	Kalmijole	Old Cossye	9.29	9.90	Paschim Medinipur	West Midnapur Division
63	Gangarampur	Punarbhava	25.82	26.42	Dakshin Dinajpur	South Dinajpur (I) Division
64	LRP Crossing	Raidak-I	47.00	47.90	Alipurduar	Alipurduar (I) Division
65	Tufanganj (CWC)		35.30	35.90	Coochbehar	Coochbehar (I) Division
66	LRP Crossing	Raidak-II	48.40	49.30	Alipurduar	Alipurduar (I) Division
67	Bandar	Rupnarayan	6.85	7.46	Paschim Medinipur	West Midnapur Division
68	Denan		4.42	5.02	Purba Medinipur	East Midnapur Division
69	Gopiganj		5.03	5.65	Paschim Medinipur	West Midnapur Division
70	Ranichak		5.33	5.94	Paschim Medinipur	West Midnapur Division
71	LRP Crossing	Sankosh	48.50	49.40	Alipurduar	Alipurduar (I) Division
72	Banka	Shilabati	15.08	15.69	Paschim Medinipur	West Midnapur Division
73	Gadghat		8.99	9.60	Paschim Medinipur	West Midnapur Division
74	Gopiballavpur	Subarnarekha	45.50	46.50	Jhargram	Jhargram Flood Management & Planning Div.
75	Sonakonia		16.15	16.75	Paschim Medinipur	Contai (I) Division
76	Kachua	Sui	25.49	26.09	Uttar Dinajpur	North Dinajpur (I) Division
77	Pajol		27.43	28.00	Uttar Dinajpur	North Dinajpur (I) Division
78	Bansihari	Tangon	25.60	26.21	Dakshin Dinajpur	South Dinajpur (I) Division
79	Radhikapur		33.45	34.05	Uttar Dinajpur	North Dinajpur (I) Division
80	Coronation Bridge (CWC)	Teesta	150.00	153.60	Darjeeling	Jalpaiguri (I) Division
81	Domohani (CWC)		85.95	86.30	Jalpaiguri	Jalpaiguri (I) Division
82	Mekhliganj (CWC)		65.95	66.30	Coochbehar	Jalpaiguri (I) Division
83	Coochbehar	Torsa	42.07	42.68	Coochbehar	Coochbehar (I) Division
84	Hasimara		116.30	117.50	Alipurduar	Alipurduar (I) Division

**Annexure -III****C) List of Existing Dam Barrage Monitoring Stations under I. & W. Dept.**

Sl. No.	Dam / Barrage	Name of the River Sub-basin	Conservation / Pond Level (ft.)	Maximum Flood Level (ft.)	Location / District	Division
1	Chandil Dam	Subarnarekha	630.00	630.00	Jharkhand	Dy. Director (Dist. Plan)
2	Durgapur Barrage	Damodar	211.50	211.50	Paschim Bardhaman	Damodar Head Works Division
3	Galudih Barrage	Subarnarekha	302.00	332.00	Jharkhand	Dy. Director (Dist. Plan)
4	Hinglow Dam	Hinglow	321.00	324.00	Birbhum	Mayurakshi South Canal Division
5	Mahananda Barrage	Mahananda	352.00	352.00	Darjeeling	Mahananda Barrage Division
6	Maithon Dam	Damodar	480.00	495.00	Jharkhand-WB border	Damodar Head Works Division
7	Massanjore Dam	Mayurakshi	398.00	398.00	Birbhum	Mayurakshi Headquarter Division
8	Mukutmonipur Dam	Kangsabati	434.00	440.00	Bankura	Kangsabati Canal Division No.-II
9	Panchet Dam	Damodar	410.00	425.00	Jharkhand-WB border	Damodar Head Works Division
10	Sikatia Barrage	Ajay	558.00	559.70	Jharkhand	Dy. Director (Dist. Plan)
11	Teesta Barrage	Teesta	375.00	378.30	Jalpaiguri	Teesta Barrage Division
12	Tenughat Dam	Damodar	852.00	864.00	Jharkhand	Damodar Head Works Division
13	Tilpara Barrage	Mayurakshi	206.00	206.00	Birbhum	Mayurakshi Headquarter Division

**D) List of Existing River Gauge Discharge Stations under I. & W. Dept.**

Sl. No.	River Gauge Discharge Station	Name of the River / Channel	Danger Level (Metre)	Extreme Danger Level (Metre)	District	Division
1	Amuliaghata	Ajoy	104.73	105.33	Purba Bardhaman	Burdwan Inv. & Planning Division
2	Amta	Amta Channel	5.64	6.24	Howrah	EE-I, I.& P. Division. (South)
3	Champadanga	Lower Damodar	12.90	13.50	Hooghly	EE-I, I.& P. Division. (South)
4	Kapastikri	Kangsabati	16.00	16.60	Paschim Medinipur	Dy. Director (Statistics)
5	Englishbazar	Mahananda	21.00	21.75	Malda	Malda (I) Division
6	Harinkhola	Mundeswari	12.80	13.41	Hooghly	EE-I, I.& P. Division. (South)
7	Sehagori	Short Cut Channel	5.10	5.70	Howrah	EE-I, I.& P. Division. (South)

**Annexure -III****E) List of Existing Pumping Stations under I. & W. Dept.**

Sl No.	Name of pumping station	Date of commission	Location	District	No of Pumps	Capacity each (cusec)	Total capacity (cusec)	Motor rating (KW)	Drainage channel
1	Chowbhaga Pumping Station (CPS)	1967	Paschim Chowbhaga, P.S.- Anandapur	South 24 Parganas	9	50	450	75	T.P. main channel
2	Addl. CPS	1972	-do-	South 24 Parganas	10	50	500	100	Intercepting channel
3	2nd. ACPS	1991	-do-	South 24 Parganas	10	50	500	90	1st diversion channel of the intercepting channel
4	3rd. ACPS	2013	-do-	South 24 Parganas	4	50	1100	160	2nd diversion channel of the intercepting channel
					6	150		400	
5	Keorapukur P.S.	2013	Keorapukur, P.S.- Regent Park	South 24 Parganas	4	150	750	415	Western channel
					3	50		135	
6	Uttarbhag Pumping Station (UPS)	1953	Uttarbhag, P.S.- Baruipur.	South 24 Parganas	4	250	1000	630 P.S.	Diversion channel
7	Addl. UPS	1989	-do-	South 24 Parganas	5	50	250	135	Diversion channel
8	2nd Addl. UPS	2019	-do-	South 24 Parganas	2	50	850	180	Diversion channel
					5	150		475	
9	Ranichak pumping Station	1997	Ranichak, PS. Daspur	Paschim Medinipur	12	20	240	75	Ranichak khal
10	Bagjola P.S.	2006	Bagjola, Haroa, Kultigang	North 24 Parganas	14	100	1650	210	Bagjola Khal & at the outfall to Bidhyadhar River
					5	50		125	
11	Kalagachia P.S.	2006	Kalagachia	Kolkata	4	5	20	15	Suti Khal & Outfall of Suti to Charial Khal
12	Kabarganga P.S.	2006	Kabarganga	Kolkata	4	2	8	7.5	Keorapukur Branch Channel & outfall to Suti khal
13	Fatesha P.S.	2007	Fatesha, New Barrakpore	North 24 Parganas	1	5	7.5	15	Fatesha Khal & at the middle bank of the Khal near BT College (New Barrackpore)
					1	2.5		7.5	
14	Khardah B.T Road P.S.	2007	Khardah, Near Khardah Police Station	North 24 Parganas	2	5	10	15	Khardah Upstream Channel & at the bank of channel to boost the flow of channel
15	Khardah outfall P.S.	2007	Khardah, Near Biswas para log gate	North 24 Parganas	3	5	17.5	15	Khardah Upstream Channel & at Khardah Outfall
					1	2.5		7.5	
16	Bongaon P.S. (Sluice no-2)	2011	Bongaon, (Near Dinobandhu Mitra College at Ward No. 5)	North 24 Parganas	4	5	20	15	At outfall of the Drainage system (of Rain water) to Ichhamati River.
17	Bongaon P.S. (Sluice no-3)	2011	Bongaon, (Near Dinobandhu Mitra College at Ward No. 6)	North 24 Parganas	4	5	20	15	At outfall of the Drainage system to Ichhamati River.
18	Bongaon P.S. (Sluice no-4)	2011	Bongaon, near Dinobandhu Mitra College at Ward No. 7	North 24 Parganas	4	5	20	15	At outfall of the Drainage system (of Rain water) to Ichhamati River.
19	Kurebhanga P.S.	2016	Kurebhanga	South 24 Parganas	6	25	150	75	Kurebhanga

**Annexure -III**  
**F) List of Proposed RTDAS Stations under NHP (Phase-I)**

Sl.	Rain Gauge Site	River Sub basin	District	Latitude (N)	Longitude E)	Sensor	Remarks
1	Banarhat	Jaldhaka	Jalpaiguri	26.794000	89.02525	ARG	
2	Dalkhola	Mahananda	North Dinajpur	25.819648	87.92152	ARG	New Site
3	Karnajora	Kulik	North Dinajpur	25.642981	88.136773	ARG	New Site
4	Balurghat	Atreyee	South Dinajpur	25.24033	88.78315	ARG	
5	Bishnupur	Dwarakeswar	Bankura	23.080000	87.320000	ARG	New Site
6	Indus	Dwarakeswar	Bankura	23.150587	87.621309	ARG	
7	Kenduadihi	Dwarakeswar	Bankura	23.230267	87.050337	ARG	
8	Taldangra	Shilabati	Bankura	22.999655	87.099753	ARG	
9	Shyambati	Kopai	Birbhum	23.694512	87.681606	ARG	
10	Paikar	Pagla	Birbhum	24.432831	87.910331	ARG	
11	Satkahania	Ajay	Paschim Burdwan	23.596498	87.500395	ARG	
12	Memari	Behula	Purba Burdwan	23.173334	88.095281	ARG	
13	Galsi	Damodar	Purba Burdwan	23.344731	87.682500	AWS	
14	Manteswar	Khari	Purba Burdwan	23.306178	88.136978	ARG	New Site
15	Gushkara	Kunur	Purba Burdwan	23.482142	87.720728	ARG	
16	Raina	Mundeswari	Purba Burdwan	23.002687	87.858034	ARG	
17	Champadanga	Damodar	Hooghly	22.836581	87.970381	ARG	
18	Arambag	Dwarakeswar	Hooghly	22.889978	87.779453	ARG	
19	Singur	Ghea	Hooghly	22.820612	88.224939	ARG	
20	Amta	Amta Channel	Howrah	22.572492	88.001253	ARG	
21	Domjur	Saraswati	Howrah	22.649848	88.191212	ARG	
22	Salar	Babla	Murshidabad	23.771800	88.11129	ARG	
23	Kandi	Mayurakshi	Murshidabad	23.951253	88.041917	ARG	
24	Swarupganj	Bhagirathi	Nadia	23.415383	88.390032	ARG	
25	Majdiha	Bhagirathi	Nadia	23.413444	88.703336	ARG	
26	Salt Lake	Bidyadhari	North 24 Parganas	22.590617	88.417589	AWS	New Site
27	Tentulia	Ichamati	North 24 Parganas	22.789750	88.854534	ARG	
28	Hijli	Kaliaghrai	Paschim Medinipur	22.302765	87.303007	ARG	New Site
29	Sabang	Kaliaghrai	Paschim Medinipur	22.173553	87.599134	ARG	
30	Ghatal	Rupnarayan	Paschim Medinipur	22.664131	87.738594	ARG	
31	Amlagora	Shilabati	Paschim Medinipur	22.847276	87.33489	ARG	
32	Chandrakona	Shilabati	Paschim Medinipur	22.732016	87.516456	ARG	New Site
33	Pirorgari	Shilabati	Paschim Medinipur	22.856260	87.001822	ARG	New Site
34	Salboni	Shilabati	Paschim Medinipur	22.642119	87.318483	ARG	New Site
35	Kesiapata	Subarnarekha	Paschim Medinipur	22.208892	87.133575	ARG	
36	Itamogra	Haldi	Purba Medinipur	22.113286	87.945075	ARG	
37	Panskura	Kangsabati	Purba Medinipur	22.395875	87.712793	ARG	
38	Egra	Pichabani	Purba Medinipur	21.900021	87.537202	ARG	New Site
39	Itaberia	Rasulpur	Purba Medinipur	21.998417	87.670433	ARG	New Site
40	Ramchandrapur	Damodar	Purulia	23.586845	86.826762	ARG	New Site
41	Kashipur*	Dwarakeswar	Purulia	23.434136	86.667866	ARG	New Site
42	Kenda	Kangsabati	Purulia	23.195514	86.515855	ARG	New Site
43	Tatko	Kangsabati	Purulia	22.929089	86.512748	AWS	New Site
44	Uttarbhag	Sundarban	South 24 Parganas	22.343076	88.514740	ARG	
Sl.	Dam Site	River Sub basin	District	Latitude (N)	Longitude E)	Sensor	
1	Hinglow Dam	Hinglow	Birbhum	23.822585	87.193983	AWLR with Gate sensor	
2	Kangsabati Dam	Kangsabati	Bankura	22.965221	86.786532	AWLR with Gate sensor	

Sl.	River Gauge Site	River/ Tributary	District	Latitude (N)	Longitude (E)	Type of site	Sensor	Remarks
1	Alipurduar	Kaljani	Alipurduar	26.480157	89.515881	Road Bridge	AWLR	
2	NH-31D Crossing	Mujnai	Alipurduar	26.519988	89.170432	Road Bridge	AWLR	New Site
3	Coochbehar	Torsa	Coochbehar	26.285950	89.458847	Road Bridge	AWLR	
4	Dharla Aqueduct	Dharla	Jalpaiguri	26.691721	88.736939	Hydraulic Str.	AWLR	New Site
5	Hill Curt Road	Mahananda	Darjeeling	26.719813	88.419856	Road Bridge	AWLR	
6	Raiganj	Kulik	Uttar Dinajpur	25.619053	88.115633	Road Bridge	AWLR	
7	Makdampur	Nagar	Uttar Dinajpur	25.708746	88.046213	Road Bridge	AWLR	
8	Balurghat	Atreyee	Dakshin Dinajpur	25.224993	88.776686	Road Bridge	AWLR	
9	Gangarampur	Punarbhava	Dakshin Dinajpur	25.405853	88.514005	Road Bridge	AWLR	
10	Bansihari	Tangon	Dakshin Dinajpur	25.395988	88.416242	Road Bridge	AWLR	
11	Englishbazar	Mahananda	Malda	24.986039	88.147669	Road Bridge	AWLR	
12	Bankura	Dwarakeswar	Bankura	23.212857	87.076035	Road Bridge	AWLR	New Site
13	Bankura	Gandheswari	Bankura	23.237074	87.084168	Road Bridge	AWLR	New Site
14	Illambazar	Ajay	Birbhum	23.615138	87.531678	Road Bridge	AWLR	New Site
15	Banslo Road	Banslo	Birbhum	24.479712	87.861192	Road Bridge	AWLR	
16	Paikar	Pagla	Birbhum	24.436354	87.898999	Road Bridge	AWLR	New Site
17	Burdwan	Damodar	Purba Burdwan	23.211614	87.848477	Road Bridge	AWLR	New Site
18	Randiha Weir	Damodar	Paschim Burdwan	23.372641	87.475325	Hydraulic Str.	AWLR	New Site
19	Guskara	Kunur	Purba Burdwan	23.49849	87.7438	Road Bridge	AWLR	New Site
20	Champadanga	Damodar	Hooghly	22.840060	87.969621	Road Bridge	AWLR	
21	Arambag	Dwarakeswar	Hooghly	22.887077	87.775808	Road Bridge	AWLR	
22	Muchighata	Hurhura	Hooghly	22.635565	87.899648	Road Bridge	AWLR	New Site
23	Amta	Amta Channel	Howrah	22.573748	87.998360	Road Bridge	AWLR	
24	Sehagori	Short Cut Chnl.	Howrah	22.586448	87.968046	Road Bridge	AWLR	
25	Kazipara	Uttarasan	Murshidabad	23.908793	88.189504	Road Bridge	AWLR	New site
26	Srikrishnapur	Babla	Murshidabad	23.945892	88.164232	Road Bridge	AWLR	New site
27	Berhampore	Bhagirathi	Murshidabad	24.100453	88.245508	Road Bridge	AWLR	
28	Sankoghat	Dwarka	Murshidabad	24.156715	88.017284	Road Bridge	AWLR	
29	Ranagram	Dwarka	Murshidabad	24.016806	88.093360	Road Bridge	AWLR	
30	Tarapur	Kuia	Murshidabad	23.839406	87.968376	Road Bridge	AWLR	
31	Hanskhali	Churni	Nadia	23.355547	88.607073	Road Bridge	AWLR	
32	Swarupganj	Hooghly	Nadia	23.385263	88.367727	River Bank	AWLR	
33	Krishnanagar	Jalangi	Nadia	23.413683	88.471300	Road Bridge	AWLR	New Site
34	Ghusighata	Bidyadhari	North 24 Parganas	22.524207	88.687412	Road Bridge	AWLR	New Site
35	Gaighata	Jamuna	North 24 Parganas	22.931127	88.732460	Road Bridge	AWLR	
36	Tentulia	Ichamati	North 24 Parganas	22.787288	88.852451	Road Bridge	AWLR	
37	Barisha	Chandia	Paschim Medinipur	22.245505	87.703644	Road Bridge	AWLR	
38	Khukurdah	Durbachati	Paschim Medinipur	22.473935	87.750782	Road Bridge	AWLR	New Site
39	Dehati	Kaliaghari	Paschim Medinipur	22.090965	87.495089	Road Bridge	AWLR	
40	Sal Dahari	Kanki	Paschim Medinipur	22.578049	87.668090	Road Bridge	AWLR	New Site
41	Khirpai	Ketia	Paschim Medinipur	22.720523	87.602071	Road Bridge	AWLR	New Site
42	Kapastikri	Old Cossye	Paschim Medinipur	22.498421	87.558884	River Bank	AWLR	New Site
43	Tabageria	New Cossye	Paschim Medinipur	22.451479	87.629313	Road Bridge	AWLR	New Site
44	Goura	Palashpali	Paschim Medinipur	22.527944	87.746223	Road Bridge	AWLR	New Site
45	Bandar	Rupnarayan	Paschim Medinipur	22.664589	87.783971	River Bank	AWLR	
46	Banka	Shilabati	Paschim Medinipur	22.727636	87.577081	Road Bridge	AWLR	
47	Garhbeta	Shilabati	Paschim Medinipur	22.886163	87.361286	Road Bridge	AWLR	New Site
48	Ghatal	Shilabati	Paschim Medinipur	22.661713	87.731618	Road Bridge	AWLR	New Site
49	Narghat	Haldi	Purba Medinipur	22.135447	87.890932	Road Bridge	AWLR	New Site
50	Moyna	New Cossye	Purba Medinipur	22.248224	87.798520	Road Bridge	AWLR	New Site
51	Panskura	New Cossye	Purba Medinipur	22.395875	87.712793	Road Bridge	AWLR	
52	Kalinagar	Rasulpur	Purba Medinipur	21.916866	87.786026	Road Bridge	AWLR	New Site
53	Petuaghata	Pichaboni	Purba Medinipur	21.696763	87.743633	Road Bridge	AWLR	New Site
54	Budhpur	Cossye	Purulia	23.105106	86.661912	Road Bridge	AWLR	New Site
55	Dabra	Kumari	Purulia	23.047784	86.561858	Road Bridge	AWLR	New Site
56	Diamond Harbour	Hooghly	South 24-Pargans	22.193544	88.181347	River Bank	AWLR	New Site

**Annexure -III****G) List of Proposed Dam-Barrage RTDAS Stations under NHP (Phase-II)**

Sl.	Name of the Site	River/	District	Latitude (N)	Longitude	Sensor Type(s)		
1	Saharajore Dam	Saharajore	Purulia	23.3162417	86.0542556	AWLR	ARG	
2	Kumari Dam	Kumari	Purulia	23.1564778	86.2846111	AWLR	ARG	
3	Tatko Dam	Tatko	Purulia	22.9290055	86.5127527	AWLR	GS	
4	Barabhum Dam	Kerro	Purulia	23.0320306	86.3087611	AWLR	ARG	
5	Hanumata Dam	Hanumata	Purulia	23.1105694	86.2643167	AWLR		
6	Kestobazar Dam	Kistobazar	Purulia	23.182721	86.086156	AWLR		
7	Tara Dam	Tara	Purulia	23.2433778	86.3486806	AWLR	ARG	
8	Sankha Dam	Sankha	Purulia	23.123191	86.15222	AWLR		
9	Fakidih Dam	Nimijore	Purulia	23.340085	85.941618	AWLR		
10	Parga Dam	Parga	Purulia	23.4376556	86.0820278	AWLR	ARG	
11	Buridumur Dam	Buridumur	Purulia	23.308984	86.103979	AWLR	ARG	
12	Golamarajore Dam	Golamarajore	Purulia	23.4274444	86.3650667	AWLR	ARG	
13	Patloj Dam	Patloj	Purulia	23.3622583	86.4838472	AWLR		
14	Dimu Dam	Dimu	Purulia	23.424883	85.980239	AWLR		
15	Turga Dam	Turga	Purulia	23.1978917	86.0626389	AWLR	ARG	
16	Khairabera Dam	Khairabera	Purulia	23.2637361	86.0052861	AWLR	AWS	PAN
17	Dangra Dam	Dangra	Purulia	23.4529111	86.7832278	AWLR	ARG	
18	Majra Dam	Majrajore	Purulia	23.386448	86.62844	AWLR		
19	Bandajore Dam	Bandajore	Purulia	23.603415	86.560724	AWLR	ARG	
20	Fuljore Dam	Fuljore	Purulia	23.233175	86.2290472	AWLR		
21	Taragonia Dam	Taragoniajore	Purulia	23.4780083	86.3875889	AWLR		
22	Moutorejore Dam	Moutorejore	Purulia	23.5801778	86.5870222	AWLR	ARG	
23	Lipaniajore Dam	Lipaniajore	Purulia	23.4669528	86.4601111	AWLR	AWS	PAN
24	Futiary Dam	Futiary	Purulia	23.3845583	86.5672833	AWLR		
25	Beko Dam	Beko	Purulia	23.4778389	86.6286056	AWLR	ARG	
26	Ramchandrapur Dam	Muchkunda	Purulia	23.5876167	86.8376778	AWLR		
27	Rupai Dam	Rupai	Purulia	23.3100083	85.9213306	AWLR		
28	Karrior Dam	Karrior	Purulia	23.4251222	85.9456861	AWLR		
29	ExtnBandhu Dam	Bandhu	Purulia	23.302029	86.195946	AWLR	ARG	
30	Kansai Dam	Kansai	Purulia	23.4188278	86.0302	AWLR		
31	Sali Dam	Sali	Bankura	23.4054333	87.0853889	AWLR	ARG	
32	Malimarajore Dam	Malimarajore	Bankura	23.4494611	87.19975	AWLR	ARG	
33	Puinala Dam	Puinala	Paschim Bardhaman	23.775587	86.971121	AWLR		
34	Bara Mandira Dam	Baramandira	Paschim Bardhaman	23.832875	86.9544111	AWLR		
35	Nachan Dam	Nachan	Paschim Bardhaman	23.6172611	87.3215056	AWLR		
36	Deocha Barrage	Dwarka	Birbhum	24.040025	87.59495	AWLR	GS	
37	Baidhara Barrage	Brahmani	Birbhum	24.251252	87.739034	AWLR	ARG	GS
38	Kultore Barrage	Kopai	Birbhum	23.728264	87.506661	AWLR	AWS	PAN GS
39	Khanpur Mini Barrage	Kuye	Birbhum	23.8048611	87.8970278	AWLR	GS	
40	Uparkhara Mini Brrg.	Kana Ajay	Birbhum	23.6150306	87.7457083	AWLR	GS	
41	Kadamdeuli Barrage	Shilabati	Bankura	23.1013028	86.8634528	AWLR	GS	
42	Bhairab Banki Barrage	Bhairab Banki	Bankura	22.764825	86.8245083	AWLR	AWS	PAN GS
43	Tarafeni Barrage	Tarafeni	Jhargram	22.6718889	86.792675	AWLR	ARG	GS
44	Mahananda Barrage	Mahananda	Jalpaiguri	26.645126	88.400538	AWLR	ARG	
45	Karatowa T alma Brrg.	Karatowa	Jalpaiguri	26.639125	88.496803	AWLR	GS	
46	Dauk Barrage	Dauk	Uttar Dinajpur	26.401805	88.376217	AWLR	GS	
47	Berai Weir	Berai	Bankura	23.092564	87.176453	AWLR		

**Annexure -III**  
**H) List of Proposed Additional RTDAS Stations under NHP (Phase-III & IV)**

Sl.	Name of the site	River / Tributary	Gauge Type	District / Taluka	Latitude (N)	Longitude (E)	Site Location	Sensor Type*	Remarks
1	Mirik	Mahananda	Rain Gauge	Darjeeling	26.888160	88.186720	PWD-Roads Rest shed	ARG	New
2	Itahar	Mahananda	Rain Gauge	Uttar Dinajpur	25.451104	88.172672	Itahar Block Office Premises	ARG	
3	Mallikpur	Punarbhava	Rain Gauge	Dakshin Dinajpur	25.509963	88.569652	Govt. Premises (BSF)	ARG	New
4	Bhaluka	Fulahar	Rain Gauge	Malda	25.278866	87.880474	Govt Premises (I&WD)	ARG	
5	Jangipur	Bhagirathi	Rain Gauge	Murshidabad	24.465546	88.068915	I & W Dte. Office Premises	ARG	
6	Kadamdeuli	Silabati	Rain Gauge	Bankura	23.100118	86.864475	Sec. Office of Barrage, I&WD	ARG	
7	Bakhrabad	Kaliaghari	Rain Gauge	Paschim Medinipur	22.116294	87.370680	Govt. Premises (GP Office)	ARG	
8	Raidighi	Raidighi	Rain Gauge	South 24 Parganas	21.998686	88.441926	Govt. Premises	ARG	
9	Gosaba	Bidya	Rain Gauge	South 24 Parganas	22.171808	88.803347	Gosaba Irr. Sub-Div.	ARG	
10	Basanti	Sundarban	Rain Gauge	South 24 Parganas	22.197060	88.713458	Govt Premises	ARG	
11	English Bazar	Mahananda	Gauge Discharge	Malda	24.984297	88.150206	Road Bridge	AFM	New
12	Nakkati Bridge	Fulahar	Gauge Discharge	Malda	25.245087	87.861989	Road Bridge	AFM	New
13	Kalyani	Bhagirathi	Gauge Discharge	Nadia	22.967148	88.407206	Iswar Gupta Setu	AFM	New
14	Laghata	Kuia	Gauge Discharge	Birbhum	23.806019	87.819267	Laghata Bridge	AFM	New
15	Bankura	Darakeswar	Gauge Discharge	Bankura	23.212857	87.076035	Road Bridge (NH 14)	AFM	New
16	Belut	Shali River	Gauge Discharge	Bankura	23.230382	87.584232	Road Bridge	AFM	New
17	Asansol Dhanbad NH	Barakar	Gauge Discharge	Paschim Bardhaman	23.766014	86.825526	Road Bridge (NH 19)	AFM	New
18	Disergarh Bridge	Damodar	Gauge Discharge	Paschim Bardhaman	23.684485	86.823237	Road Bridge	AFM	New
19	Pandaweswar	Ajoy	Gauge Discharge	Paschim Bardhaman	23.733112	87.278529	Road Bridge (NH 14)	AFM	New
20	Budra	Ajoy	Gauge Discharge	Purba Bardhaman	23.618055	87.702148	Road Bridge (NH 2B)	AFM	New
21	Jamalpur	Damodar	Gauge Discharge	Purba Bardhaman	23.068315	87.987929	Road Bridge	AFM	New
22	Kolaghat	Rupnarayan	Gauge Discharge	Purba Medinipur	22.438348	87.880435	Sarat Setu (NH 6)	AFM	New
23	Muchighata	Hurhura Khal	Gauge Discharge	Hooghly	22.635565	87.899648	Road Bridge	AFM	New
24	Harinkholia	Mundeswari	Gauge Discharge	Hooghly	22.838311	87.903269	SH-2 Bridge	AFM	New
25	Sehagori	Short-cut Channel	Gauge Discharge	Howrah	22.586448	87.968046	Road Bridge	AFM	New
26	Buxi	Buxi Khal	Gauge Discharge	Howrah	22.531319	87.897505	Buxi Road Bridge	AFM	New
27	Satpota	Lower Rampur Khal	Gauge Discharge	Howrah	22.589710	87.948080	Road Bridge	AFM	New
28	Amta	Amta Channel	Gauge Discharge	Howrah	22.573748	87.998360	Road Bridge	AFM	New
29	Bokpota	Amta Channel	Gauge Discharge	Howrah	22.722550	87.990300	Road Bridge	AFM	New

Sl.	Name of the site	River / Tributary	Gauge Type	District / Taluka	Latitude (N)	Longitude (E)	Site Location	Sensor Type*	Remarks
30	Dudhia	Balason	River Gauge	Darjeeling	26.821710	88.242100	Road Bridge	AWLR	New
31	Gulma	Mahananda	River Gauge	Darjeeling	26.806312	88.409390	Composite Rd. Bridge	AWLR	New
32	Mohorgaon	Panchnoi	River Gauge	Darjeeling	26.784810	88.375410	Road Bridge	AWLR	New
33	Chengmari	Diana	River Gauge	Jalpaiguri	26.862567	89.000197	Road Bridge (NH 31C)	AWLR	
34	Jubilee Park	Karola	River Gauge	Jalpaiguri	26.522988	88.729507	Subhash Setu	AWLR	New
35	Radhikapur	Tangon	River Gauge	Uttar Dinajpur	25.644083	88.434591	Road Bridge	AWLR	
36	Chopra	Dauk	River Gauge	Uttar Dinajpur	26.369917	88.310012	Road Bridge (NH-31)	AWLR	
37	Nalagola	Tangon	River Gauge	Malda	25.259957	88.401152	Road Bridge	AWLR	
38	Teljana	Fulahar (confluence of a channel)	River Gauge	Malda	25.32592	87.790926	River side sluice	AWLR	
39	Ashapur	Mahananda	River Gauge	Uttar Dinajpur	25.444199	88.090483	Road Bridge	AWLR	New
40	Manikchakghat	Pagla	River Gauge	Malda	24.98929	87.990030	Sluice	AWLR	New
41	Nimtitা	Ganga-Padma	River Gauge	Murshidabad	24.679667	87.960082	Intake Structure	AWLR	New
42	Sundarpur	Mayurakshi	River Gauge	Murshidabad	23.882425	87.941999	Road Bridge	AWLR	New
43	Akheriganj	Bhairab	River Gauge	Murshidabad	24.283903	88.448616	Road Bridge	AWLR	
44	Dhanyagram	Kushkarini	River Gauge	Birbhum	23.944587	87.490265	PWD Bridge	AWLR	New
45	Saithia	Mayurakshi	River Gauge	Birbhum	23.952987	87.671479	PWD Bridge (MDR)	AWLR	New
46	Bakreswar	Bakreswar	River Gauge	Birbhum	23.825664	87.416303	D/S of Weir	AWLR	New
47	Jagdhari Road Bridge	Brahamani	River Gauge	Birbhum	24.275350	87.837801	Road Bridge (NH 14)	AWLR	
48	Mejia Bridge	Damodar	River Gauge	Paschim Bardhaman	23.583020	87.103025	Road Bridge (NH 14)	AWLR	
49	Duttaphulia	Ichamati	River Gauge	North 24 Parganas	23.233731	88.709058	Road Bridge	AWLR	New
50	Chorki, Katowa	Ajoy	River Gauge	Purba Burdwan	23.649210	88.072140	SH-6 Bridge	AWLR	
51	Nandai	Khari	River Gauge	Purba Burdwan	23.314414	88.315739	Road Bridge	AWLR	New
52	Shakepore	Dwarakeswar	River Gauge	Hooghly	22.78477	87.777707	Road Bridge	AWLR	New
53	Cut Kunti Sluice	Hooghly	River Gauge	Hooghly	22.806980	88.351837	G.T. Road Lock Gate	AWLR	New
54	Ulughata	Amta Channel	River Gauge	Howrah	22.349589	88.074767	D/S of 58-Vent Sluice	AWLR	New
55	Bhatora	Arora Khal	River Gauge	Howrah	22.63749	87.8106	Proposed Arora Sluice	AWLR	New
56	Gopiballavpur	Subarnarekha	River Gauge	Jhargram	22.219580	86.904295	SH-9 Bridge	AWLR	
57	Narayanbar	Kapaleswari	River Gauge	Paschim Medinipur	22.133633	87.600077	Mohinibazar RC bridge	AWLR	
58	Kalanchi	Ichamati	River Gauge	North 24 Parganas	22.897087	88.896869	Road Bridge	AWLR	New
59	Gopiganj	Rupnarayan	River Gauge	Paschim Medinipur	22.545484	87.854500	D/S of Sluice	AWLR	

Sl.	Name of the site	River / Tributary	Gauge Type	District / Taluka	Latitude (N)	Longitude (E)	Site Location	Sensor Type*	Remarks
60	Kalmijole	Old Cossye	River Gauge	Paschim Medinipur	22.564755	87.708222	River Bank	AWLR	
61	Bhakrabad	Kaliaghai	River Gauge	Paschim Medinipur	22.129409	87.379108	Road Bridge (NH 16)	AWLR	
62	Kalimondop	Kaliaghai	River Gauge	Paschim Medinipur	22.148124	87.705948	RC Foot Bridge	AWLR	
63	Dheubhangha	Kaliaghai	River Gauge	Purba Medinipur	22.165187	87.822112	D/S of 8-vent sluice	AWLR	
64	Geonkhali	Rupnarayan	River Gauge	Purba Medinipur	22.240776	87.967043	Rupnarayan Jetty	AWLR	New
65	Bhaitgarh	Rasulpur	River Gauge	Purba Medinipur	21.913889	87.781730	D/S of 3-vent Sluice	AWLR	New
66	Sonakonia	Subarnarekha	River Gauge	Paschim Medinipur	22.049727	87.182817	Jangal Kanya Setu	AWLR	
67	Hasnabad	Dansa River (Branch of Ichamati)	River Gauge	North 24 Parganas	22.564763	88.911027	Road Bridge	AWLR	New
68	Chitpur Lock Gate	Hooghly	River Gauge	Kolkata	22.608083	88.367237	U/S of Lock Gate	AWLR	New
69	Bidhannagar	Kestopur Khal	River Gauge	Kolkata	22.595896	88.401331	Lake Town Foot Bridge	AWLR	New
70	Kestopur	Lower Bagjola Khal	River Gauge	Kolkata	22.604458	88.425652	1st Bridge Kestopur	AWLR	New
71	Majdia	Mathabhanga	River Gauge	Nadia	23.416267	88.704961	Road Bridge	AWLR	
72	Bangaon	Ichamati	River Gauge	North 24 Parganas	23.044745	88.832305	RD Setu (NH-35)	AWLR	
73	Kulti Gang	Lower Bagjola Khal	River Gauge	South 24 Parganas	22.543248	88.677205	D/S of Pumping Station	AWLR	New
74	Namkhana	Hatania Dohania	River Gauge	South 24 Parganas	21.760695	88.234525	Road Bridge (NH-117)	AWLR	New
75	Lot Number 8	Muriganga	River Gauge	South 24 Parganas	21.890664	88.165655	Jetty	AWLR	New
F7 6	Gangadarpur	Saptamukhi	River Gauge	South 24 Parganas	21.839496	88.312402	Road Bridge	AWLR	New
77	Basanti	Hogol	River Gauge	South 24 Parganas	22.200946	88.714861	Road Bridge	AWLR	New
78	Godkhali	Bidya	River Gauge	South 24 Parganas	22.168239	88.788287	Jetty	AWLR	New
79	Chhoto Mollakhali	Puinjali	River Gauge	South 24 Parganas	22.220078	88.906049	Chhoto Mollakhali Jetty	AWLR	New
80	Budhakhali	Matla	River Gauge	South 24 Parganas	22.174497	88.651736	Madhukhali Launch Ghat	AWLR	New
81	Nikarighata	Matla	River Gauge	South 24 Parganas	22.274169	88.663436	D/S of Sluice	AWLR	New
82	Kurebhanga	Karati	River Gauge	South 24 Parganas	22.366347	88.700806	D/S of Pump House	AWLR	New
83	Harikhali	Connecting R. Raimagal & Harinbhanga	Tide Gauge	South 24 Parganas	21.988178	88.971436	Indian Coast Guard camp jetty, within Core Forest Area	ATG	New
84	Jharkhali	Connecting R. Matla & Bidya	Tide Gauge	South 24 Parganas	22.018883	88.682328	Forest Dept's jetty	ATG	New
85	Pathar Pratima	Barchara	Tide Gauge	South 24 Parganas	21.795900	88.361917	Sundarbans Affairs Dept's Ferry Ghat	ATG	New

\* ARG: Automatic Rain Gauge, AWS: Automatic Weather Station (including ARG), AWLR: Automatic Water Level Recorder, PAN: PAN evaprometer, AFM: Automatic Flow Meter, ATG: Automatic Tide Gauge

**Annexure -III****I) List of Proposed AWLRs & ADVMs on drainage channels of Kolkata**

Sl.	Name of Site	Name of Khal	Latitude (°N)	Longitude (°E)	Name of Division	Sensors
1	Hanspukur Bridge	Charial Main Khal	22.449131	88.289809	Suburban Drainage Div.	AWLR
2	Mohisgote Bridge	Charial Main Khal	22.452648	88.235707	Suburban Drainage Div.	AWLR
3	Charial Sluice at Shankh Pukur	Charial Main Khal (Outfall to Hooghly River)	22.478221	88.170843	Suburban Drainage Div.	AWLR + ADVM
4	Charial Diversion at Pujali	Charial Diversion (Outfall to Hooghly River)	22.472318	88.145815	Suburban Drainage Div.	AWLR + ADVM
5	Begore Khal Outfall	Begore Khal	22.509877	88.287257	Suburban Drainage Div.	AWLR
6	Khalpole (BB Trunk Road)	New Monikhali Khal	22.513894	88.274697	Suburban Drainage Div.	AWLR
7	Santoshpur Rly Bridge	Monikhali Khal	22.523901	88.269856	Suburban Drainage Div.	AWLR
8	Outfall (Steel Bridge) at Akra	New Monikhali Khal (Outfall to Hooghly River)	22.543387	88.248263	Suburban Drainage Div.	AWLR + ADVM
9	Keorapukur old pump house	Western Channel	22.471528	88.343294	Canals Div. (EE II)	AWLR
10	Das para	Guniagachhi Khal	22.489869	88.410043	Metropolitan Drainage Div. II	AWLR
11	EM By Pass	Guniagachhi Khal	22.492114	88.397149	Metropolitan Drainage Div. II	AWLR
12	Garpha P.S.	BB1 Khal	22.498209	88.38767	Metropolitan Drainage Div. II	AWLR
13	Kalikapur Bridge (2640 Ch.)	T.P. Khal	22.499272	88.396305	Metropolitan Drainage Div. II	AWLR
14	Iron Barrier (6570 Ch.)	T.P. Khal	22.527533	88.414571	Metropolitan Drainage Div. II	AWLR
15	Anandapur Bazar (3600 Ch.)	Intercepting Channel	22.524600	88.401111	Metropolitan Drainage Div. II	AWLR
16	Garia Station	Tolly's Nullah	22.467394	88.404132	Metropolitan Drainage Div. II	AWLR
17	Bantala PWD Bridge (D/S Left Bank at Ch.7.32 Km)	Suburban Head Cut Channel	22.525837	88.441164	Calcutta Drainage Outfall Div.	AWLR
18	16-vent sluice, Ghusighata	Storm Weather Flow (SWF) Channel (Outfall to Bidyadharji R)	22.522778	88.687778	Calcutta Drainage Outfall Div.	AWLR + ADVM
19	Kulti Pump House	Lower Bagjola Khal (Outfall to Bidyadharji River)	22.542189	88.67547	Metropolitan Drainage Div. I	AWLR + ADVM
20	Jirangachhi Bridge (13.77 Km of LBC)	Lower Bagjola Khal	22.547175	88.540133	Metropolitan Drainage Div. I	AWLR
21	Pratiraksha Nagar	Extnd. portion of Sonai Khal	22.667093	88.420871	Urban Drainage Div.	AWLR
22	Nimta P.S.	Sonai Khal	22.6628195	88.4195177	Urban Drainage Div.	AWLR
23	Matri Sadan	Sonai Khal	22.6449969	88.4075712	Urban Drainage Div.	AWLR
24	Belghoria Expressway Near Srinagar	Sonai Khal	22.6561909	88.417492	Urban Drainage Div.	AWLR
25	Sonai Outfall	KLMNE Khal	22.6423874	88.3995886	Urban Drainage Div.	AWLR
26	Jatin Das Nagar	Confluence of Udaypur Khal & Bridge of Udaypur Khal	22.6550028	88.3946915	Urban Drainage Div.	AWLR
27	Rajib Nagar Bridge	KLMNE Khal	22.6461325	88.3945256	Urban Drainage Div.	AWLR
28	Motish Roy Bridge	Confluence Point of Bagjola & KLMNE Khal	22.6344595	88.3979608	Urban Drainage Div.	AWLR
29	Metro car shed Noapara	KLMNE Khal	22.6406305	88.3988195	Urban Drainage Div.	AWLR
30	Chitpur Lock Gate	Circular Canal	22.607819	88.368092	Canals Div. (EE-I)	AWLR + ADVM
31	Gajnabi bridge	Kestopur Khal	22.601536	88.378906	Canals Div. (EE-I)	AWLR
32	Lake Town Foot bridge	Kestopur Khal	22.6003878	88.4080018	Canals Div. (EE-I)	AWLR
33	206 Concrete Bridge	Kestopur Khal	22.590913	88.43158	Canals Div. (EE-I)	AWLR
34	Sealdah	Beleghata Khal	22.569556	88.378001	Canals Div. (EE-I)	AWLR
35	Chingrighata Byepass	Beleghata Khal	22.55824	88.411166	Canals Div. (EE-I)	AWLR
36	Mission Bazar	Kestopur Khal	22.584663	88.437109	Canals Div. (EE-I)	AWLR
37	Kantatala	Bhangorekata Khal	22.512169	88.499617	Canals Div. (EE-I)	AWLR
38	Chowreswar Khal Outfall	Chowreswar Khal	22.506708	88.555727	Canals Div. (EE-I)	AWLR
39	Kulti 14 vent Sluice	Kulti Gang (Outfall of Bhangore Kata Khal to Bidyadharji River)	22.539348	88.678593	Canals Div. (EE-I)	AWLR + ADVM
40	Baroz (Near Kulti pump house)	Kulti Gang (Outfall of Bagjola Part-II Khal to Bidyadharji River)	22.344942	88.403627	Canals Div. (EE-I)	AWLR + ADVM
41	B.T. Road (0 Ch. of Upper Bagjola at Kamarhati)	Upper Bagjola Khal	22.65691	88.377175	Canals Div. (EE-I)	AWLR
42	Up Stream of 35 no. Railway Culvert	Upper Bagjola Khal	22.64646	88.39171	Canals Div. (EE-I)	AWLR
43	Dum Dum Road Bridge (Near Hanuman Mandir)	Upper Bagjola Khal	22.621581	88.402962	Canals Div. (EE-I)	AWLR
44	Upper Bagjola 10 vent	Upper Bagjola Khal	22.604129	88.42429	Canals Div. (EE-I)	AWLR
45	Shyamnagar Bridge	Cantonment Khal	22.609278	88.420474	Canals Div. (EE-I)	AWLR

\* AWLR: Automatic Water Level Recorder, ADVM: Acoustic Doppler Velocity Meter

**Annexure IV-A: District-wise Monthly Rainfall Statistics of West Bengal for the Year 2023**

Month	January			February			March			April		
	Rainfall in mm			Rainfall in mm			Rainfall in mm			Rainfall in mm		
District	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep
Coochbehar	0.0	8.4	-100.0%	0.0	15.6	-100.0%	85.3	32.1	165.7%	56.3	128.6	-56.2%
Darjeeling (including Kalimpong)	0.1	12.3	-99.2%	5.9	20.5	-71.2%	113.2	43.1	162.6%	78.1	129.2	-39.6%
Jalpaiguri (including Alipurduar)	0.0	8.6	-100.0%	19.0	19.6	-3.1%	125.0	49.7	151.5%	126.0	161.6	-22.0%
Malda	0.0	6.9	-100.0%	0.0	10.5	-100.0%	44.3	12.2	263.1%	15.9	48.9	-67.5%
North Dinajpur	0.0	4.1	-100.0%	0.0	6.4	-100.0%	55.4	17.7	213.0%	16.7	57.7	-71.1%
South Dinajpur	0.0	6.6	-100.0%	0.3	11.0	-97.3%	47.6	15.5	207.1%	12.8	58.5	-78.1%
<b>North Bengal calculated mean</b>	<b>0.0</b>	<b>7.8</b>	<b>-99.8%</b>	<b>4.2</b>	<b>13.9</b>	<b>-69.9%</b>	<b>78.5</b>	<b>28.4</b>	<b>176.5%</b>	<b>51.0</b>	<b>97.4</b>	<b>-47.7%</b>
Bankura	0.0	12.3	-100.0%	0.0	13.4	-100.0%	53.6	21.5	149.3%	29.3	59.7	-50.9%
Burdwan (Purba & Paschim)	0.0	9.9	-100.0%	0.0	16.7	-100.0%	65.6	24.8	164.5%	24.0	44.5	-46.1%
Hooghly	0.0	12.0	-100.0%	0.0	17.7	-100.0%	31.7	26.6	19.2%	30.9	48.0	-35.6%
Nadia	0.0	9.7	-100.0%	0.0	12.7	-100.0%	36.5	18.0	102.8%	56.7	36.6	54.9%
Purulia	0.0	11.4	-100.0%	0.0	12.7	-100.0%	65.6	17.9	266.5%	28.6	43.9	-34.9%
Birbhum	0.0	8.3	-100.0%	0.0	11.1	-100.0%	37.3	19.9	87.4%	29.4	38.4	-23.4%
East Midnapore	0.1	18.5	-99.5%	3.3	21.2	-84.4%	83.2	30.6	171.9%	34.2	48.2	-29.0%
West Midnapore (including Jhargram)	0.4	18.6	-97.8%	0.2	19.9	-99.0%	67.5	28.7	135.2%	30.1	58.8	-48.8%
Murshidabad	0.0	7.7	-100.0%	0.0	8.1	-100.0%	49.4	14.9	231.5%	36.8	47.8	-23.0%
North 24 Parganas	0.0	11.7	-100.0%	0.1	22.4	-99.6%	71.1	23.0	209.1%	66.7	43.8	52.3%
Howrah	0.0	12.3	-100.0%	0.0	23.1	-100.0%	29.7	28.9	2.8%	39.3	48.8	-19.5%
Kolkata	0.0	13.8	-100.0%	0.0	26.8	-100.0%	28.6	36.5	-21.6%	50.3	57.1	-11.9%
South 24 Parganas	0.2	13.8	-98.6%	0.0	20.6	-100.0%	42.5	39.1	8.7%	31.1	50.5	-38.4%
<b>South Bengal calculated mean</b>	<b>0.1</b>	<b>12.3</b>	<b>-99.6%</b>	<b>0.3</b>	<b>17.4</b>	<b>-98.4%</b>	<b>50.9</b>	<b>25.4</b>	<b>100.5%</b>	<b>37.5</b>	<b>48.2</b>	<b>-22.2%</b>
<b>West Bengal as State</b>	<b>0.1</b>	<b>11.6</b>	<b>-99.1%</b>	<b>1.7</b>	<b>16.0</b>	<b>-89.4%</b>	<b>62.7</b>	<b>26.3</b>	<b>138.4%</b>	<b>41.1</b>	<b>59.9</b>	<b>-31.4%</b>
<b>State Total</b>	<b>0.8</b>	<b>206.9</b>	<b>-99.6%</b>	<b>28.8</b>	<b>310.0</b>	<b>-90.7%</b>	<b>1133.1</b>	<b>500.7</b>	<b>126.3%</b>	<b>793.2</b>	<b>1210.6</b>	<b>-34.5%</b>

\*Data source: IMD-RMC, Kolkata

**Annexure IV-A: District-wise Monthly Rainfall Statistics of West Bengal for the Year 2023**

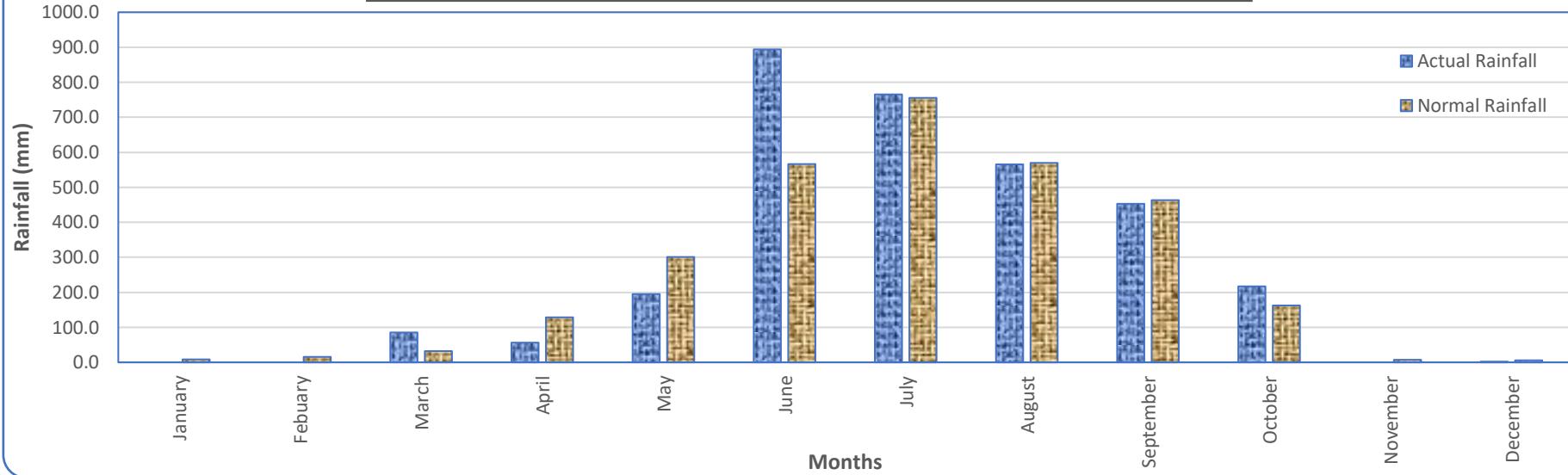
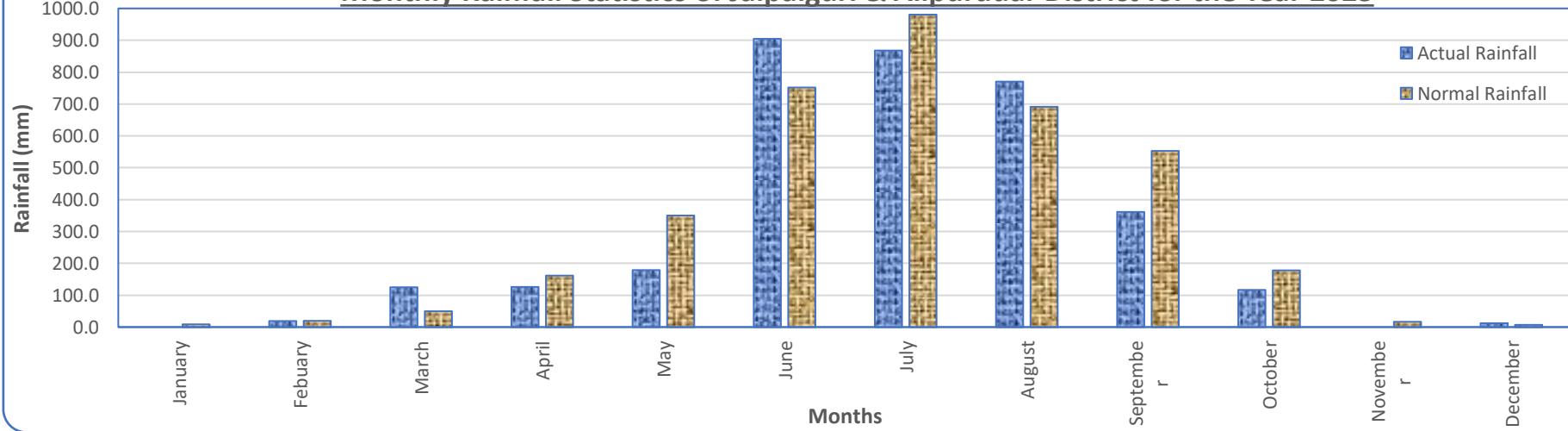
Month	May			June			July			August		
	Rainfall in mm			Rainfall in mm			Rainfall in mm			Rainfall in mm		
District	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep
Coochbehar	195.0	300.9	-35.2%	894.0	566.4	57.8%	765.4	755.5	1.3%	565.5	569.7	-0.7%
Darjeeling (including Kalimpong)	154.1	271.2	-43.2%	644.0	577.5	11.5%	705.0	844.4	-16.5%	812.0	611.4	32.8%
Jalpaiguri (including Alipurduar)	178.9	350.1	-48.9%	904.6	751.9	20.3%	867.9	980.6	-11.5%	770.4	691.3	11.4%
Malda	66.4	147.7	-55.0%	180.7	234.4	-22.9%	307.9	342.2	-10.0%	363.9	306.3	18.8%
North Dinajpur	36.9	225.8	-83.7%	201.1	339.6	-40.8%	272.9	438.7	-37.8%	294.6	366.6	-19.6%
South Dinajpur	80.0	155.2	-48.5%	142.7	251.6	-43.3%	216.8	330.0	-34.3%	332.1	232.0	43.1%
<b>North Bengal calculated mean</b>	<b>118.6</b>	<b>241.8</b>	<b>-51.0%</b>	<b>494.5</b>	<b>453.6</b>	<b>9.0%</b>	<b>522.7</b>	<b>615.2</b>	<b>-15.0%</b>	<b>523.1</b>	<b>462.9</b>	<b>13.0%</b>
Bankura	128.3	107.1	19.8%	102.9	252.7	-59.3%	175.2	341.4	-48.7%	337.9	313.8	7.7%
Burdwan (Purba & Paschim)	136.6	98.9	38.1%	168.6	225.3	-25.2%	152.0	316.5	-52.0%	334.0	287.4	16.2%
Hooghly	97.7	108.9	-10.3%	113.8	239.6	-52.5%	156.4	308.0	-49.2%	236.5	269.0	-12.1%
Nadia	134.5	118.5	13.5%	138.0	211.5	-34.8%	150.6	294.9	-48.9%	232.9	225.5	3.3%
Purulia	81.7	107.8	-24.2%	76.1	233.2	-67.4%	171.1	319.9	-46.5%	270.5	300.4	-10.0%
Birbhum	79.2	108.8	-27.2%	224.7	224.0	0.3%	158.0	354.1	-55.4%	207.9	290.3	-28.4%
East Midnapore	91.6	126.6	-27.6%	310.2	275.0	12.8%	299.0	340.2	-12.1%	306.6	348.2	-11.9%
West Midnapore (including Jhargram)	103.6	117.5	-11.8%	100.4	250.6	-59.9%	200.4	339.8	-41.0%	298.2	315.0	-5.3%
Murshidabad	99.3	120.0	-17.3%	113.5	218.1	-48.0%	107.9	304.9	-64.6%	222.5	240.4	-7.4%
North 24 Parganas	111.4	125.0	-10.9%	231.9	252.5	-8.2%	197.1	342.6	-42.5%	306.6	300.1	2.2%
Howrah	116.5	114.8	1.5%	68.3	226.9	-69.9%	223.6	360.8	-38.0%	363.2	310.7	16.9%
Kolkata	81.5	133.6	-39.0%	174.5	282.9	-38.3%	156.7	387.4	-59.6%	329.2	364.0	-9.6%
South 24 Parganas	70.5	115.7	-39.1%	352.7	300.0	17.6%	221.6	435.3	-49.1%	315.7	392.0	-19.5%
<b>South Bengal calculated mean</b>	<b>102.5</b>	<b>115.6</b>	<b>-11.4%</b>	<b>167.4</b>	<b>245.6</b>	<b>-31.8%</b>	<b>182.3</b>	<b>342.0</b>	<b>-46.7%</b>	<b>289.4</b>	<b>304.4</b>	<b>-4.9%</b>
<b>West Bengal as State</b>	<b>108.5</b>	<b>142.7</b>	<b>-24.0%</b>	<b>271.7</b>	<b>295.3</b>	<b>-8.0%</b>	<b>282.1</b>	<b>407.3</b>	<b>-30.7%</b>	<b>356.8</b>	<b>345.0</b>	<b>3.4%</b>
<b>State Total</b>	<b>2043.7</b>	<b>2954.1</b>	<b>-30.8%</b>	<b>5142.7</b>	<b>5913.7</b>	<b>-13.0%</b>	<b>5505.5</b>	<b>8137.2</b>	<b>-32.3%</b>	<b>6900.2</b>	<b>6734.1</b>	<b>2.5%</b>

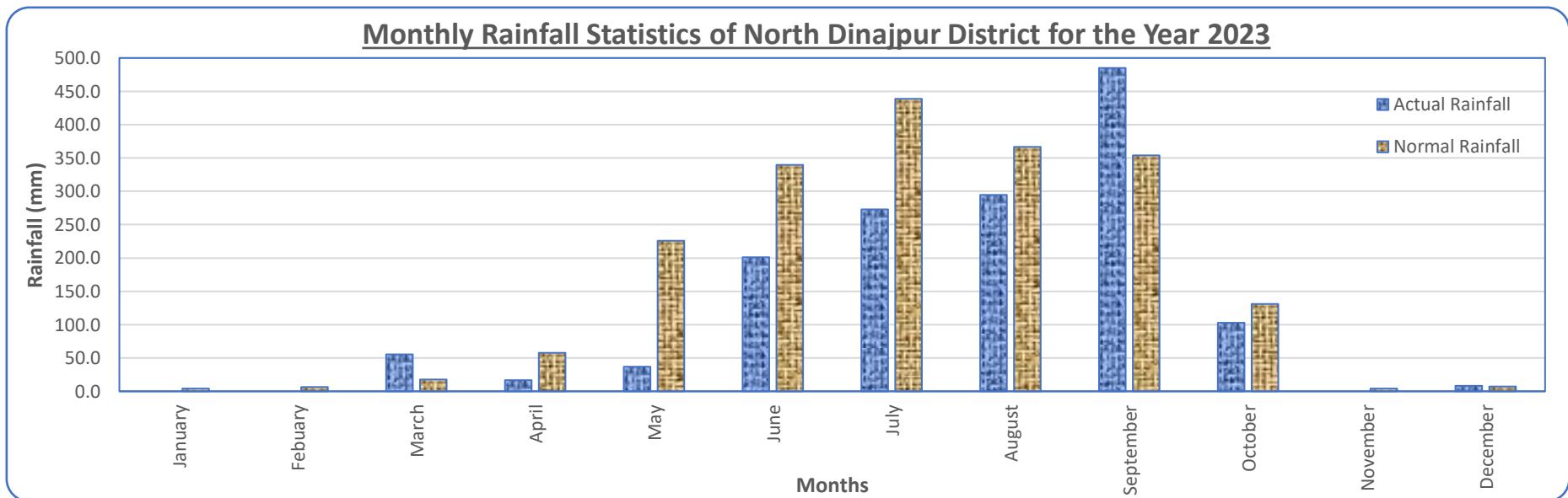
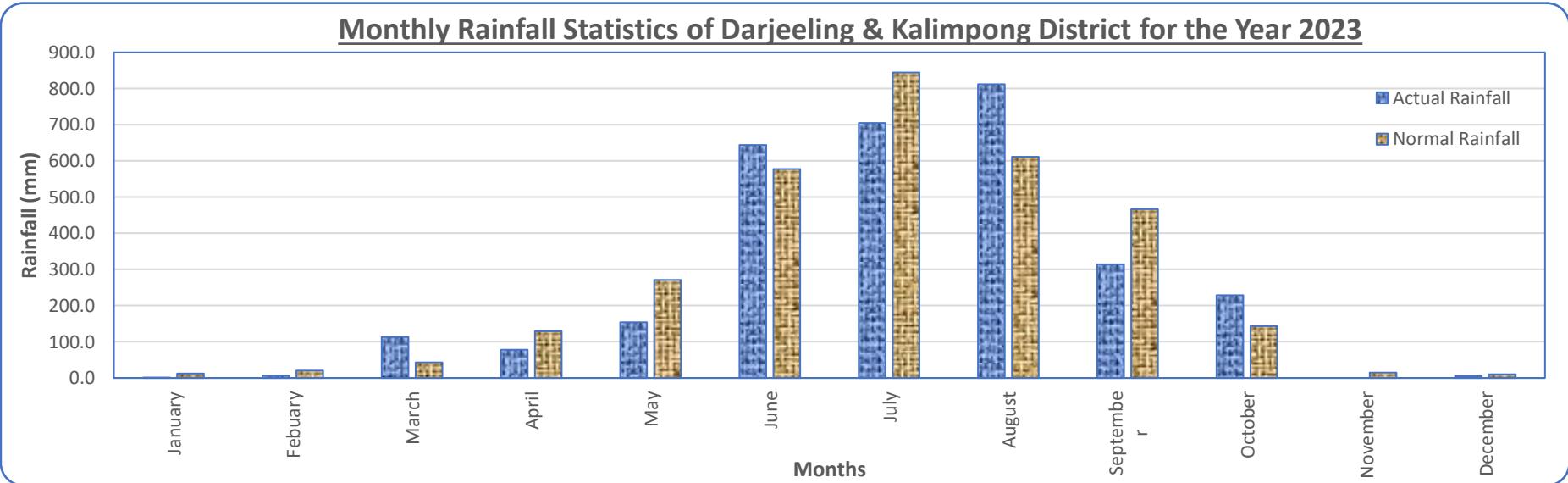
\*Data source: IMD-RMC, Kolkata

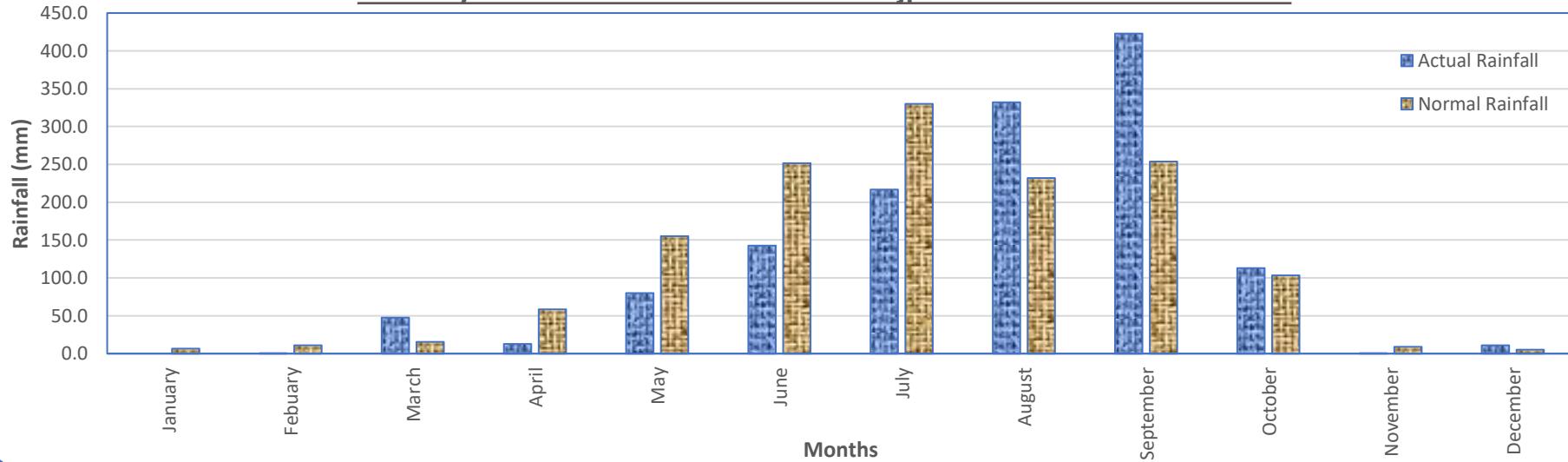
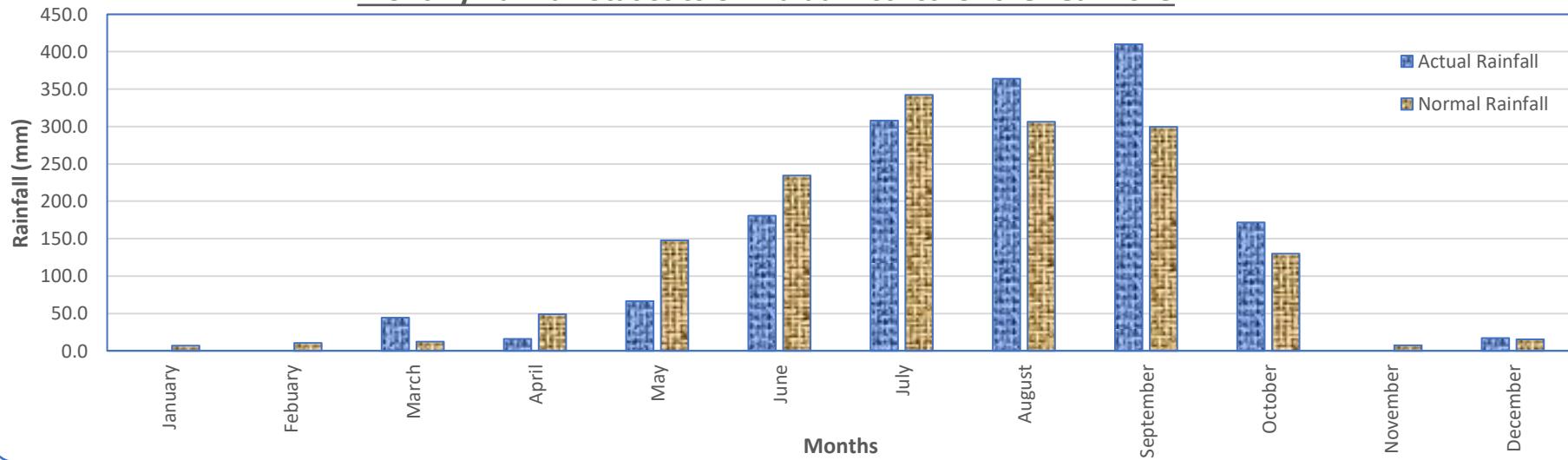
**Annexure IV-A: District-wise Monthly Rainfall Statistics of West Bengal for the Year 2023**

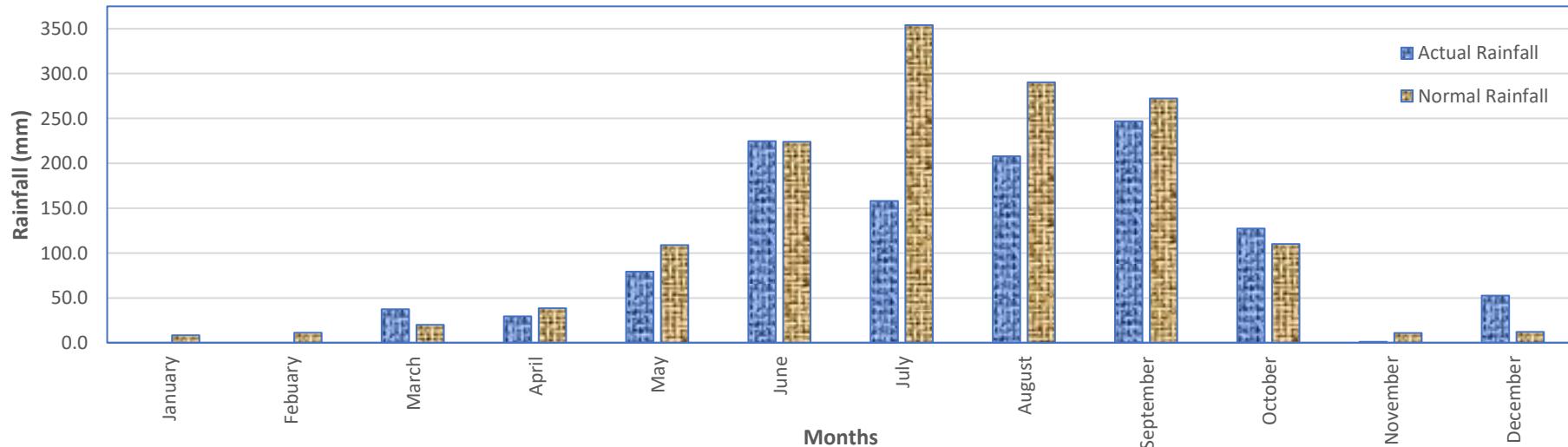
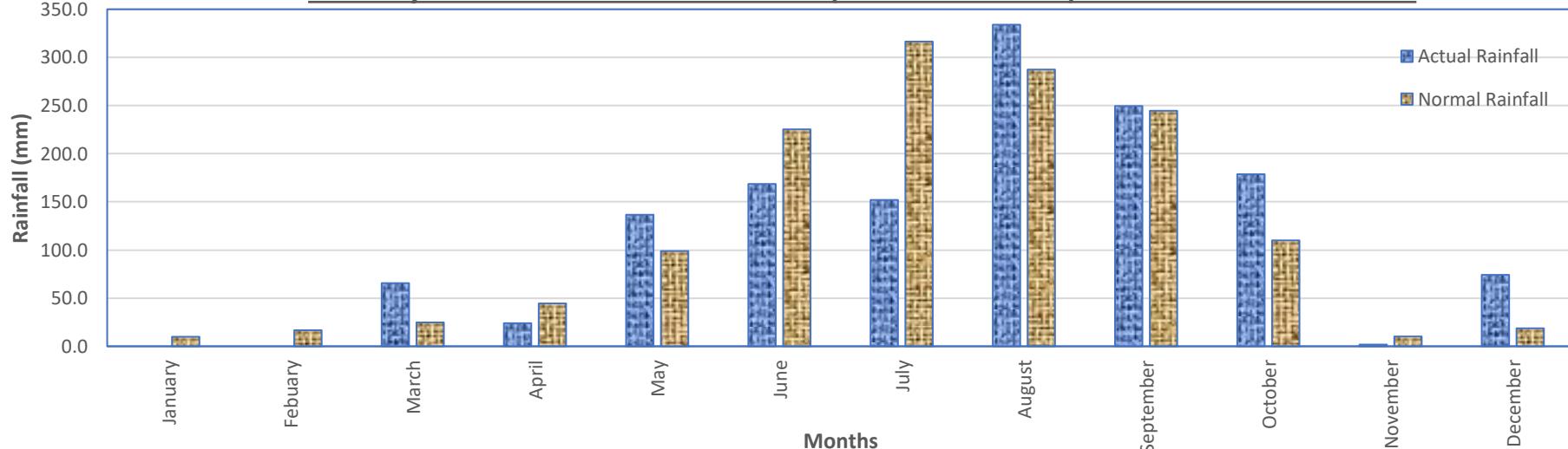
Month	September			October			November			December		
	Rainfall in mm			Rainfall in mm			Rainfall in mm			Rainfall in mm		
District	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep
Coochbehar	452.9	463.3	-2.2%	217.1	162.5	33.6%	0.0	7.3	-100.0%	2.1	5.8	-63.8%
Darjeeling (including Kalimpong)	314.3	466.7	-32.7%	228.8	143.3	59.7%	0.0	14.9	-100.0%	4.9	10.2	-52.0%
Jalpaiguri (including Alipurduar)	361.4	552.8	-34.6%	116.7	178.0	-34.4%	0.0	16.6	-100.0%	12.2	7.0	74.3%
Malda	410.0	299.5	36.9%	171.7	129.9	32.2%	0.0	7.3	-100.0%	17.0	15.3	11.1%
North Dinajpur	485.0	353.9	37.0%	102.8	131.0	-21.5%	0.0	4.1	-100.0%	8.2	7.2	13.9%
South Dinajpur	422.9	253.8	66.6%	113.0	103.4	9.3%	0.3	9.0	-96.7%	11.0	5.2	111.5%
<b>North Bengal calculated mean</b>	<b>407.8</b>	<b>398.3</b>	<b>2.4%</b>	<b>158.4</b>	<b>141.4</b>	<b>12.0%</b>	<b>0.1</b>	<b>9.9</b>	<b>-99.5%</b>	<b>9.2</b>	<b>8.5</b>	<b>9.3%</b>
Bankura	198.9	246.9	-19.4%	209.1	124.9	67.4%	0.3	15.7	-98.1%	84.4	24.5	244.5%
Burdwan (Purba & Paschim)	249.5	244.6	2.0%	178.7	110.0	62.5%	1.8	10.2	-82.4%	74.2	18.7	296.8%
Hooghly	164.4	235.3	-30.1%	141.6	110.5	28.1%	0.9	17.4	-94.8%	61.8	18.7	230.5%
Nadia	166.6	227.4	-26.7%	122.1	118.0	3.5%	4.3	14.0	-69.3%	39.5	40.5	-2.5%
Purulia	235.4	258.9	-9.1%	254.9	107.6	136.9%	3.5	15.5	-77.4%	40.4	24.9	62.2%
Birbhum	246.9	272.3	-9.3%	127.3	110.0	15.7%	1.0	10.8	-90.7%	52.5	12.0	337.5%
East Midnapore	467.1	328.8	42.1%	154.0	197.5	-22.0%	10.5	43.8	-76.0%	3.8	10.1	-62.4%
West Midnapore (including Jhargram)	206.9	263.0	-21.3%	197.1	130.7	50.8%	24.5	18.3	33.9%	48.1	8.4	472.6%
Murshidabad	178.6	234.5	-23.8%	73.1	103.9	-29.6%	0.0	12.5	-100.0%	31.8	10.1	214.9%
North 24 Parganas	309.3	259.4	19.2%	151.3	157.9	-4.2%	3.3	29.3	-88.7%	75.0	34.4	118.0%
Howrah	337.5	283.6	19.0%	262.9	118.7	121.5%	2.6	25.5	-89.8%	38.7	9.5	307.4%
Kolkata	454.5	311.0	46.1%	181.4	165.1	9.9%	0.4	29.9	-98.7%	0.0	8.4	-100.0%
South 24 Parganas	359.0	311.4	15.3%	169.9	190.7	-10.9%	5.1	38.4	-86.7%	3.7	14.5	-74.5%
<b>South Bengal calculated mean</b>	<b>275.0</b>	<b>267.5</b>	<b>2.8%</b>	<b>171.0</b>	<b>134.3</b>	<b>27.4%</b>	<b>4.5</b>	<b>21.6</b>	<b>-79.3%</b>	<b>42.6</b>	<b>18.1</b>	<b>136.0%</b>
<b>West Bengal as State</b>	<b>293.6</b>	<b>296.6</b>	<b>-1.0%</b>	<b>167.9</b>	<b>137.2</b>	<b>22.4%</b>	<b>4.7</b>	<b>18.6</b>	<b>-74.7%</b>	<b>39.2</b>	<b>16.4</b>	<b>139.0%</b>
<b>State Total</b>	<b>6021.1</b>	<b>5867.1</b>	<b>2.6%</b>	<b>3173.5</b>	<b>2593.6</b>	<b>22.4%</b>	<b>58.5</b>	<b>340.5</b>	<b>-82.8%</b>	<b>609.3</b>	<b>285.4</b>	<b>113.5%</b>

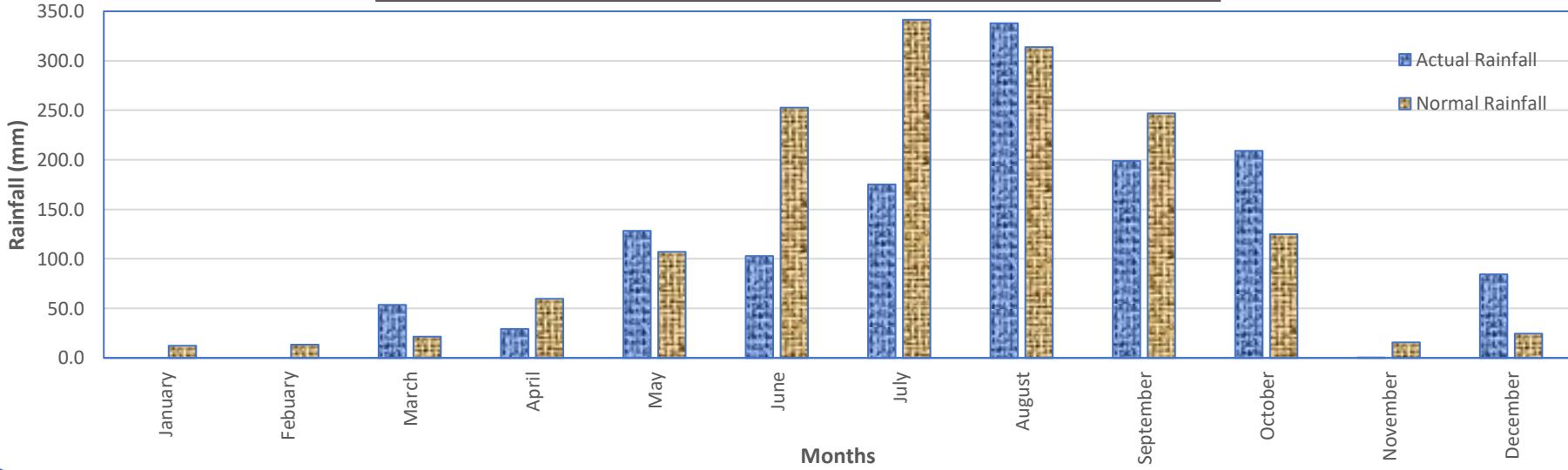
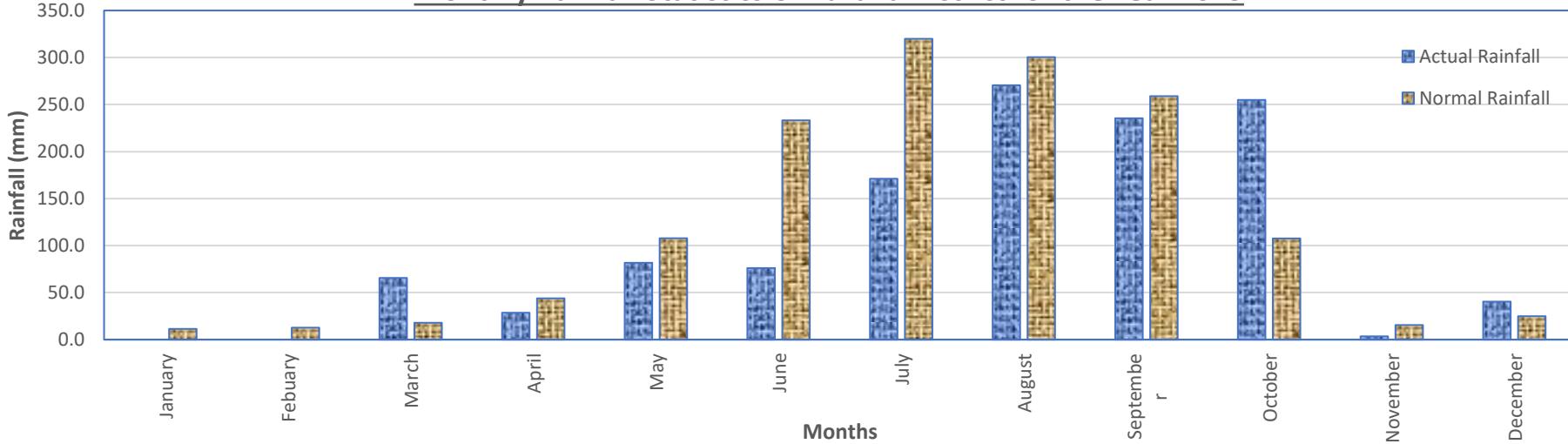
\*Data source: IMD-RMC, Kolkata

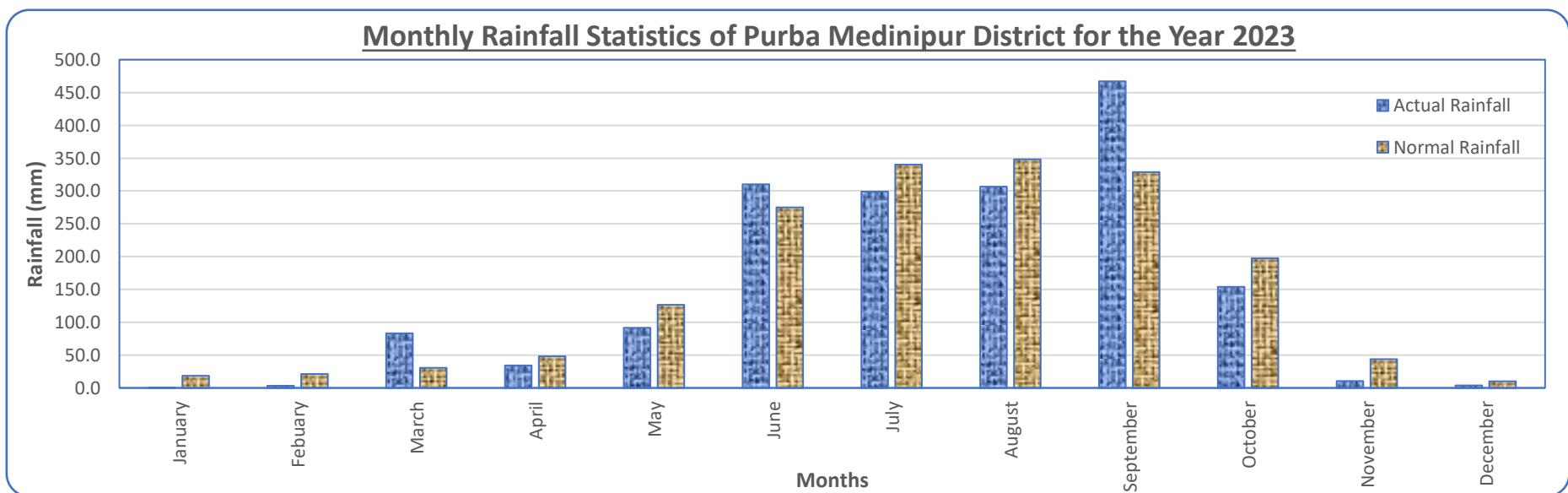
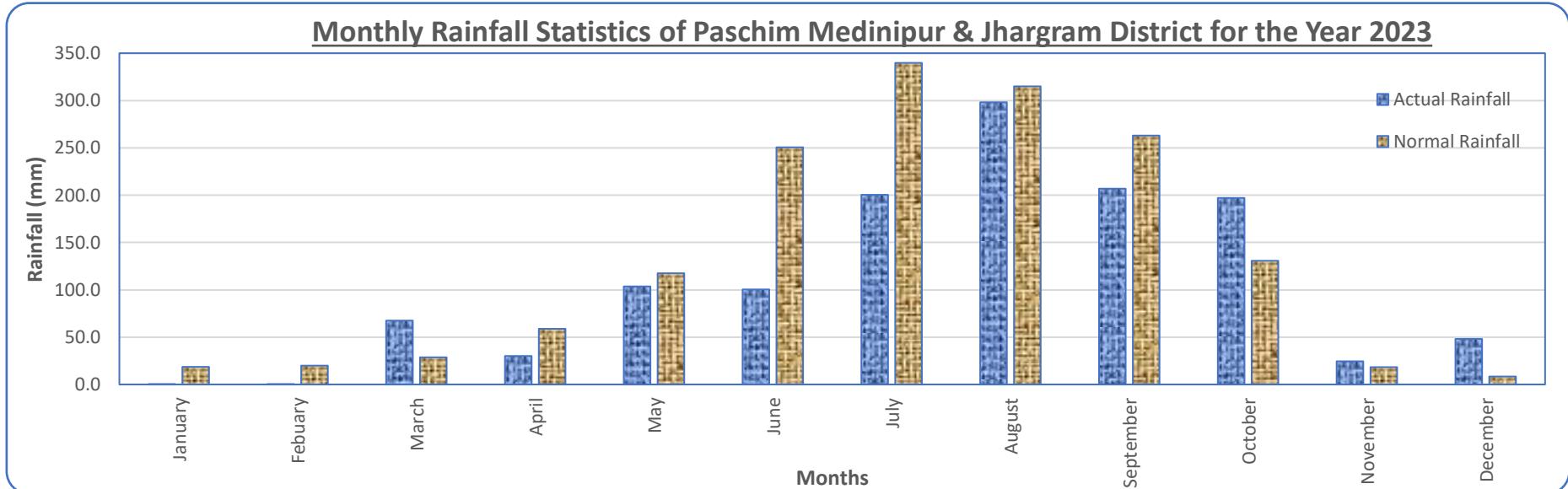
**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)****Monthly Rainfall Statistics of Coochbehar District for the Year 2023****Monthly Rainfall Statistics of Jalpaiguri & Alipurduar District for the Year 2023**

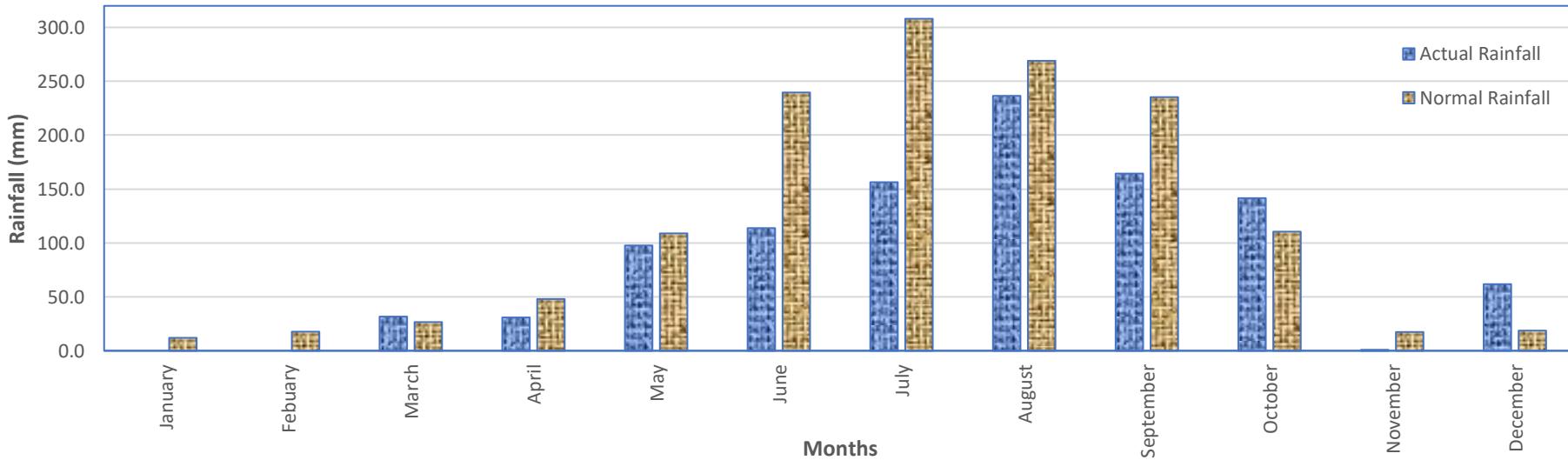
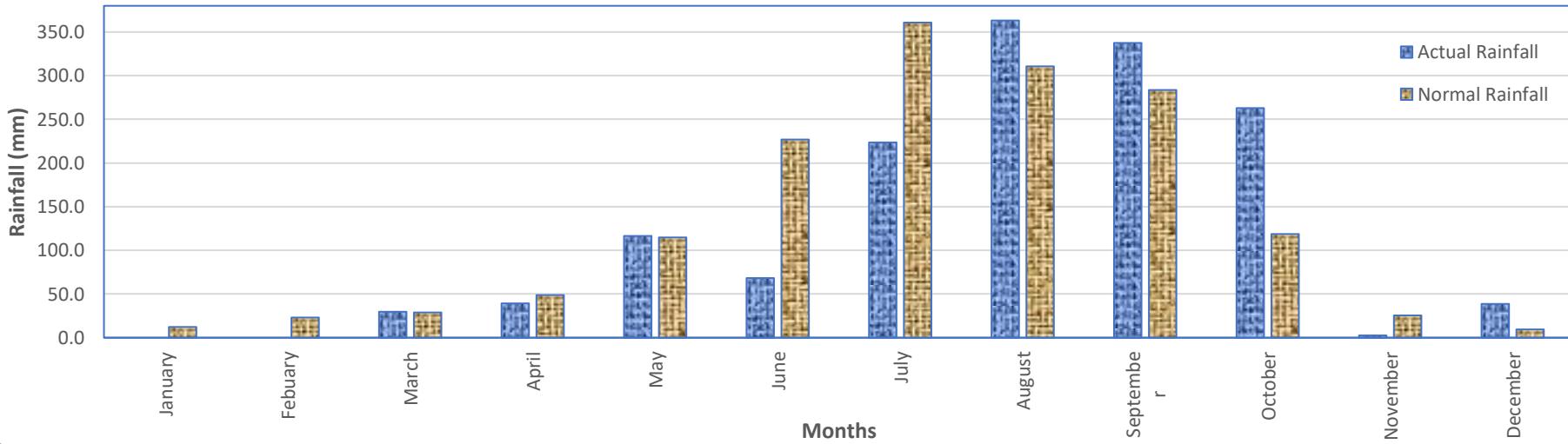
**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)**

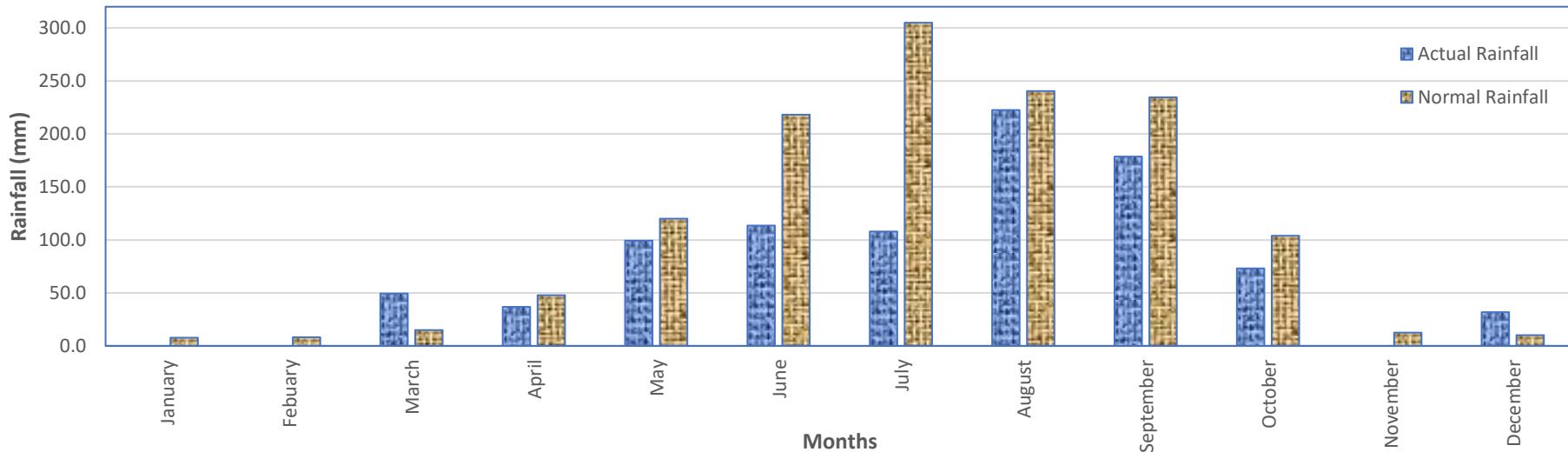
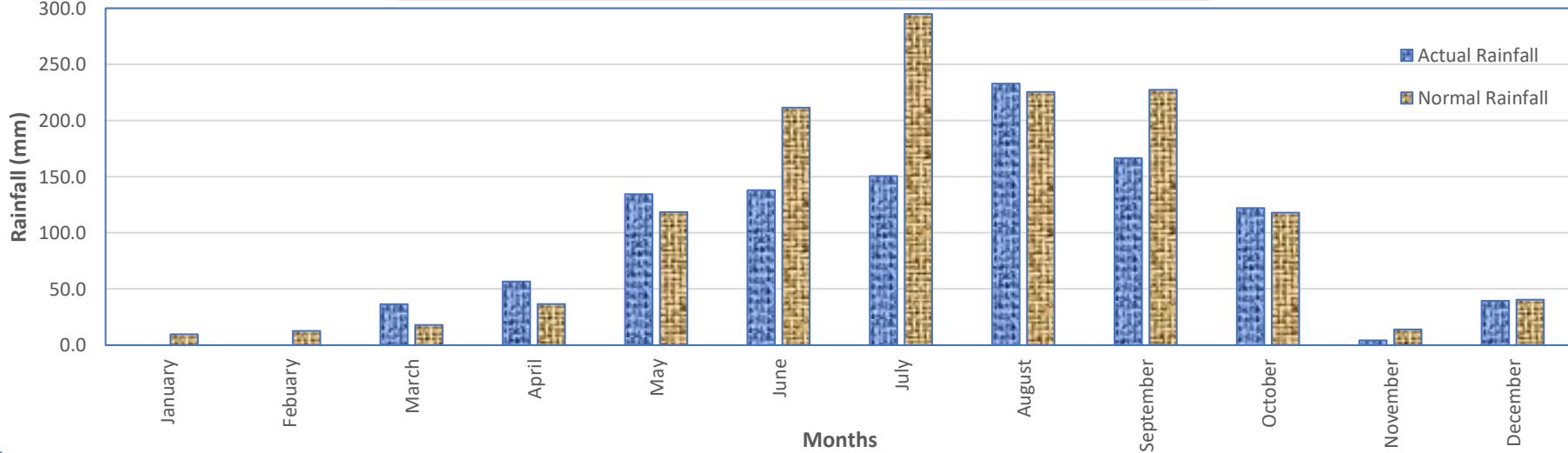
**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)****Monthly Rainfall Statistics of South Dinajpur District for the Year 2023****Monthly Rainfall Statistics of Malda District for the Year 2023**

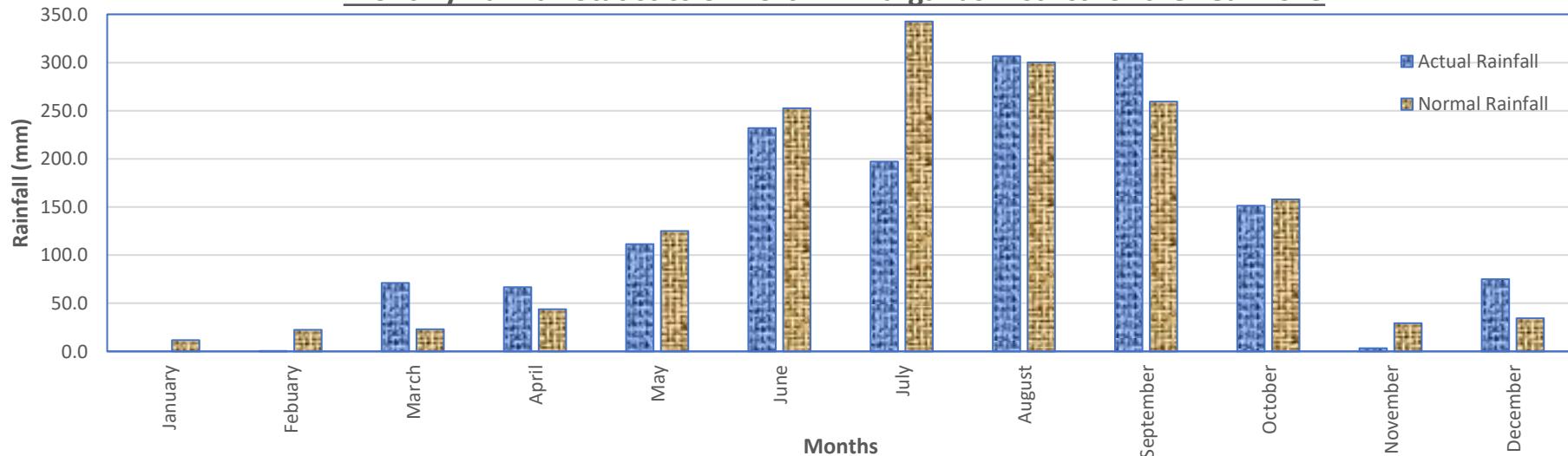
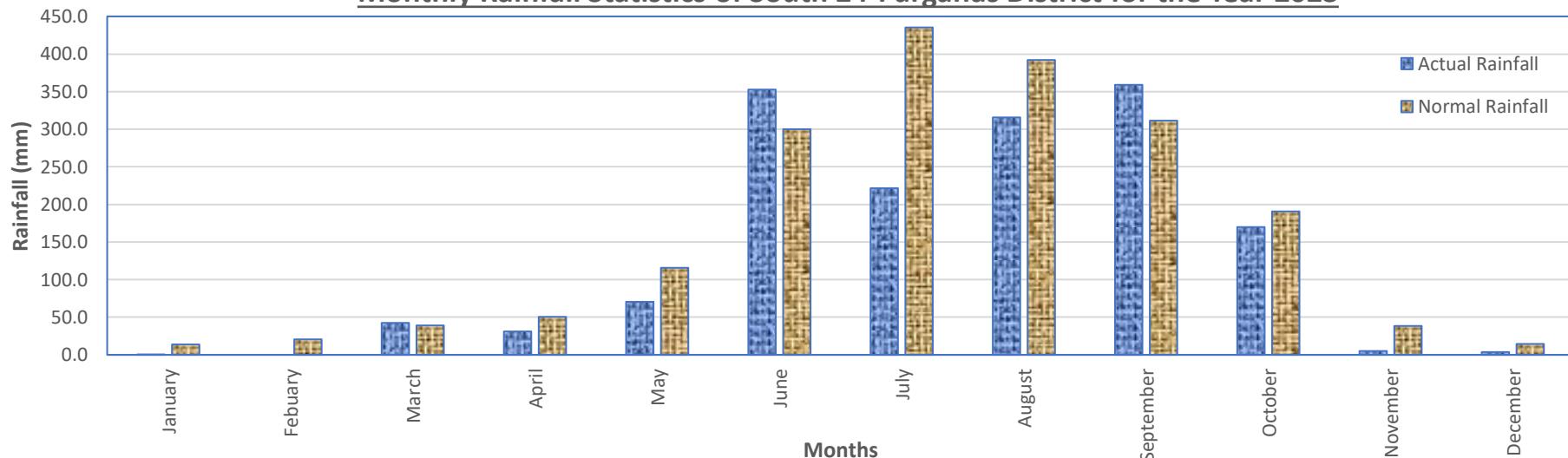
**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)****Monthly Rainfall Statistics of Birbhum District for the Year 2023****Monthly Rainfall Statistics of Burdwan (Purba & Paschim) District for the Year 2023**

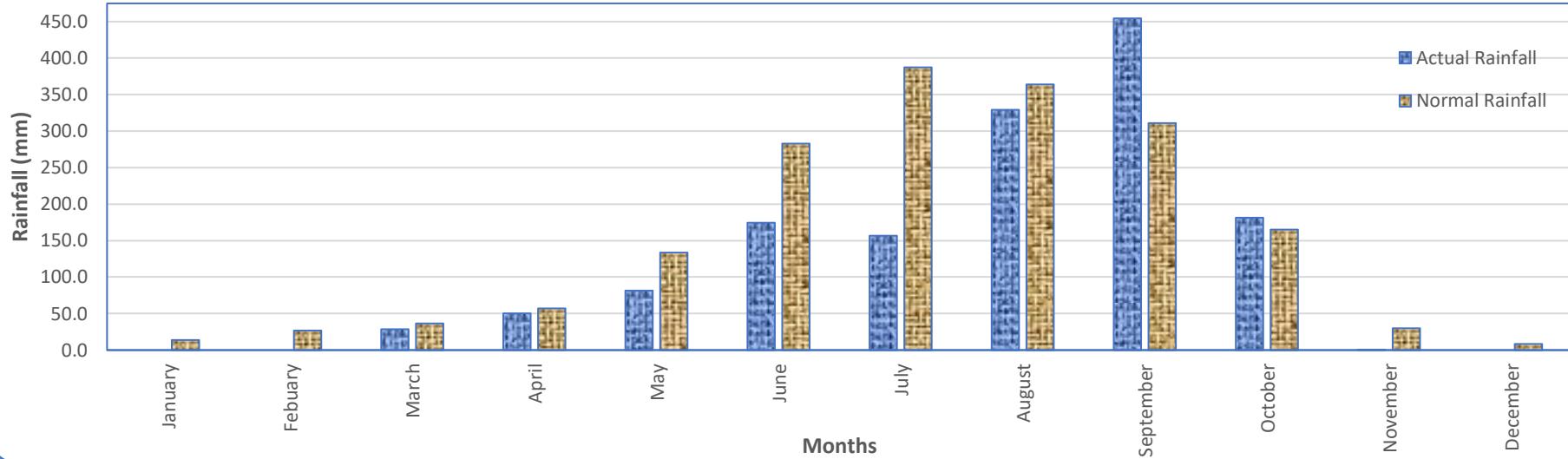
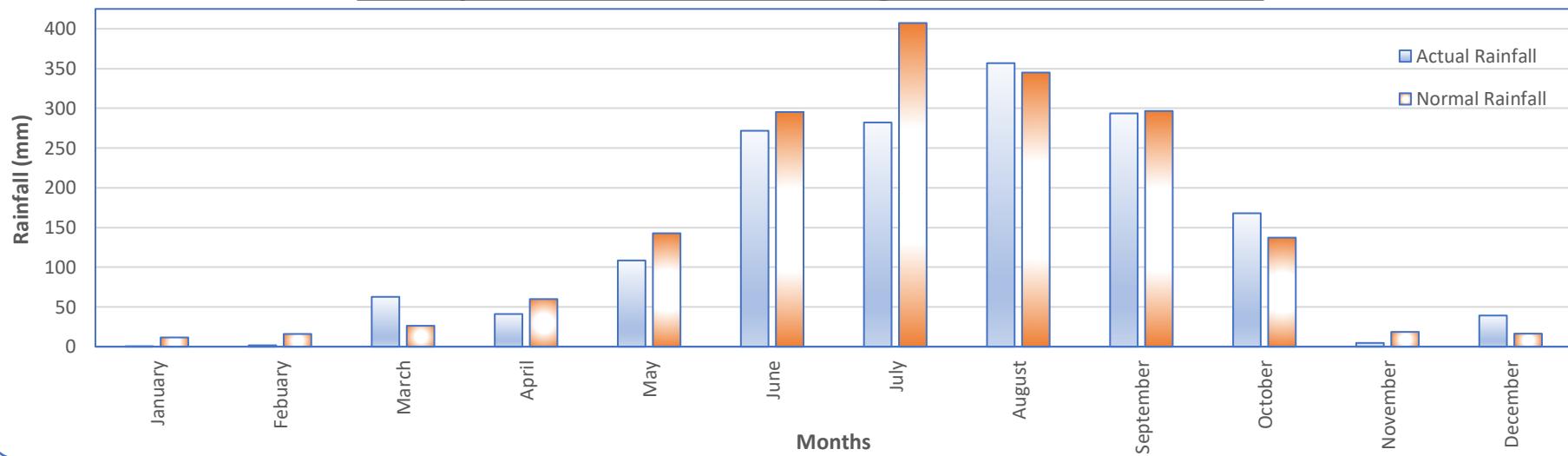
**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)****Monthly Rainfall Statistics of Bankura District for the Year 2023****Monthly Rainfall Statistics of Purulia District for the Year 2023**

**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)**

**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)****Monthly Rainfall Statistics of Hooghly District for the Year 2023****Monthly Rainfall Statistics of Howrah District for the Year 2023**

**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)****Monthly Rainfall Statistics of Murshidabad District for the Year 2023****Monthly Rainfall Statistics of Nadia District for the Year 2023**

**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)****Monthly Rainfall Statistics of North 24-Parganas District for the Year 2023****Monthly Rainfall Statistics of South 24-Parganas District for the Year 2023**

**Annexure IV-B: Graphical Representation of Monthly Rainfall Statistics at different Districts of West Bengal (after IMD, Kolkata)****Monthly Rainfall Statistics of Kolkata District for the Year 2023****Monthly Rainfall Statistics of West Bengal as State for the Year 2023**

**Annexure V-A: Season-wise Average Rainfall Statistics of West Bengal for the Year 2023**

Seasonal Rainfall (mm)	Winter Avg. Rainfall			Pre-Monsoon Avg. Rainfall			Monsoon Avg. Rainfall			Post-Monsoon Avg. Rainfall			Annual Average Rainfall		
	(1st January to 28th February)			(1st March to 31st May)			(1st June to 30th September)			(1st October to 31st December)			(1st January to 31st December)		
Districts	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep	Actual	Normal	% Dep
Coochbehar	0	24	-100.0%	336.6	461.6	-27.1%	2677.9	2354.9	13.7%	219.8	175.6	25.2%	3234.30	3016.10	7.2%
Darjeeling (including Kalimpong)	6	32.8	-81.7%	345.4	443.5	-22.1%	2475.4	2500.0	-1.0%	234.7	167.8	39.9%	3061.50	3144.10	-2.6%
Jalpaiguri (including Alipurduar)	19	28.2	-32.6%	429.9	561.4	-23.4%	2904.3	2976.6	-2.4%	130.3	202.2	-35.6%	3483.50	3768.40	-7.6%
Malda	0	17.4	-100.0%	126.6	208.8	-39.4%	1262.5	1182.4	6.8%	197.5	152.5	29.5%	1586.60	1561.10	1.6%
North Dinajpur	0	10.5	-100.0%	109	301.2	-63.8%	1253.7	1498.8	-16.4%	112	142.3	-21.3%	1474.70	1952.80	-24.5%
South Dinajpur	0.3	17.6	-98.3%	140.3	229.2	-38.8%	1114.5	1067.4	4.4%	124.9	117.6	6.2%	1380.00	1431.80	-3.6%
<b>North Bengal calculated mean</b>	<b>4.22</b>	<b>21.75</b>	<b>-80.6%</b>	<b>247.97</b>	<b>367.62</b>	<b>-32.5%</b>	<b>1948.05</b>	<b>1930.02</b>	<b>0.9%</b>	<b>169.87</b>	<b>159.67</b>	<b>6.4%</b>	<b>2370.10</b>	<b>2479.05</b>	<b>-4.4%</b>
Bankura	0	25.7	-100.0%	211.1	188.3	12.1%	814.8	1154.8	-29.4%	290.7	165.1	76.1%	1316.60	1533.90	-14.2%
Birbhum	0	19.4	-100.0%	145.9	167.1	-12.7%	837	1140.7	-26.6%	181.6	132.8	36.7%	1164.50	1460.00	-20.2%
Burdwan (Purba & Paschim)	0	26.6	-100.0%	226.2	168.2	34.5%	904.1	1073.8	-15.8%	245.9	133.4	84.3%	1376.20	1402.00	-1.8%
East Midnapore	3.5	39.7	-91.2%	209	205.4	1.8%	1383	1292.2	7.0%	168.4	251.4	-33.0%	1763.90	1788.70	-1.4%
Hooghly	0	29.7	-100.0%	160.3	183.5	-12.6%	671.1	1051.9	-36.2%	186.7	146.6	27.4%	1018.10	1411.70	-27.9%
Howrah	0	35.4	-100.0%	185.5	192.5	-3.6%	992.5	1182	-16.0%	310.1	153.7	101.8%	1488.10	1563.60	-4.8%
Kolkata	0	40.6	-100.0%	160.4	227.2	-29.4%	1114.9	1345.3	-17.1%	213.6	205.1	4.1%	1488.90	1818.20	-18.1%
Murshidabad	0	15.8	-100.0%	185.4	182.7	1.5%	622.5	997.9	-37.6%	118.1	156.9	-24.7%	926.00	1353.30	-31.6%
Nadia	0	22.4	-100.0%	227.7	173.1	31.5%	688	959.3	-28.3%	194.7	166.4	17.0%	1110.40	1321.20	-16.0%
North 24 Parganas	0.1	34.1	-99.7%	249.1	191.8	29.9%	1044.9	1154.6	-9.5%	190	212.1	-10.4%	1484.10	1592.60	-6.8%
Purulia	0	24.1	-100.0%	175.8	169.6	3.7%	753	1112.4	-32.3%	336.5	143.8	134.0%	1265.30	1449.90	-12.7%
South 24 Parganas	0.2	34.4	-99.4%	144.1	205.3	-29.8%	1248.9	1438.7	-13.2%	177.7	243.6	-27.1%	1570.90	1922.00	-18.3%
West Midnapore (including Jhargram)	0.6	38.5	-98.4%	201.2	205	-1.9%	805.9	1168.4	-31.0%	271.7	157.4	72.6%	1279.40	1569.30	-18.5%
<b>South Bengal calculated mean</b>	<b>0.3</b>	<b>29.7</b>	<b>-98.9%</b>	<b>190.9</b>	<b>189.2</b>	<b>0.9%</b>	<b>913.9</b>	<b>1159.4</b>	<b>-21.2%</b>	<b>222.0</b>	<b>174.5</b>	<b>27.2%</b>	<b>1327.1</b>	<b>1552.8</b>	<b>-14.5%</b>
<b>West Bengal as State</b>	<b>1.8</b>	<b>27.6</b>	<b>-93.5%</b>	<b>212.3</b>	<b>228.9</b>	<b>-7.3%</b>	<b>1204.3</b>	<b>1344.2</b>	<b>-10.4%</b>	<b>211</b>	<b>172.2</b>	<b>22.5%</b>	<b>1629.4</b>	<b>1772.9</b>	<b>-8.1%</b>

\*Data source: IMD-RMC, Kolkata

**Annexure V-B: Station-wise Monthly Rainfall Statistics during Monsoon, 2023**

Sl.	RIVER SUB BASIN	DISTRICT	Annual Normal Rainfall (mm)	Location of Rain Gauge Station	Monthly Total Rainfall (mm)					One Day Maximum Rainfall (mm)				
					Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	1-D Max.	Type of Rainfall	Date of Max.		
1	TEESTA	EAST SIKKIM	2756.40	Gangtok	543.20	664.80	588.10	291.60	224.70	84.00	Heavy	2.7.23		
2		DARJEELING	3144.10	Darjeeling	569.80	434.60	716.40	330.60	237.40	126.20	V. Heavy	25.8.23		
3		JALPAIGURI	3768.40	Malbazar	798.18	667.48	883.54	479.67	135.92	222.78	V. Heavy	28.8.23		
4				Jaipaiguri	739.40	930.50	698.90	414.00	85.00	143.30	V. Heavy	22.6.23		
5	JALDHAKA			Banarhat	1191.82	1093.40	896.30	405.40	158.30	290.00	E. Heavy	13.7.23		
6				Mainaguri	853.00	752.00	666.00	334.50	71.00	165.00	V. Heavy	23.8.23		
7	COOCHBEHAR	3016.10	Mathabhanga	961.20	909.40	505.50	423.90	217.60	183.20	V. Heavy	21.6.23			
8	SANKOSH	ALIPURDUAR	3768.40	Barabisha	1134.69	924.68	855.60	333.10	119.40	216.20	V. Heavy	2.7.23		
9	TOSA	JALPAIGURI		Hasimara	931.80	827.00	726.00	417.20	147.00	172.00	V. Heavy	3.7.23		
10		ALIPURDUAR		Alipurduar	1112.20	1188.00	839.00	446.40	84.20	208.20	V. Heavy	2.7.23		
11	COOCHBEHAR	3016.10		Coochbehar	942.40	706.20	528.40	418.00	292.00	167.60	V. Heavy	25.9.23		
12				Tufanganj	890.00	626.20	649.20	358.40	233.60	128.80	V. Heavy	21.6.23		
13	MAHANANDA-FULHAR	DARJEELING	3144.10	Siliguri	576.00	785.20	701.40	307.00	95.40	223.40	V. Heavy	25.8.23		
14		UTTAR DINAJPUR	1952.80	Islampur	212.20	310.80	230.80	280.20	78.40	106.80	Heavy	24.9.23		
15				Raiganj	204.40	240.30	318.10	461.50	75.10	180.20	V. Heavy	24.9.23		
16		MALDA	1561.10	English Bazar	164.72	321.63	356.50	464.19	191.64	143.90	V. Heavy	24.9.23		
17	ATREYEE	DAKSHIN DINAJPUR	1431.80	Balurghat	111.40	282.40	381.60	258.60	196.20	116.00	Heavy	8.8.23		
18	PUNARBABA			Gangarampur	155.00	178.00	385.00	462.00	141.00	195.00	V. Heavy	24.9.23		
19	BHAGIRA THI-HOOGLY	MURSHIDABAD	1353.30	Berhampore	148.00	72.20	317.80	262.60	165.20	120.00	Heavy	26.8.23		
20		PURBA BURDWAN	1402.00	Katwa	154.10	72.42	301.02	122.30	72.58	103.50	Heavy	14.8.23		
21	JALANGI	NADIA	1321.20	Swarupganj	223.40	216.40	309.00	186.00	110.80	105.40	Heavy	1.8.23		
22	PAGLA-BANSLOI	BIRBHUM	1460.00	Paikor	143.40	250.80	163.60	201.60	41.20	110.20	Heavy	3.7.23		
23	BRAHAMA NI-DWARKA			Md. Bazar	329.80	98.10	419.30	279.20	233.90	121.90	Heavy	1.10.23		
24				Rampurhat	96.10	89.50	205.80	298.80	89.40	51.40	Normal	23.8.23		
25				Mallarpur	249.00	196.00	172.00	286.00	139.70	75.00	Heavy	22.6.23		
26				Deocha	250.20	168.10	327.20	229.80	99.00	85.00	Heavy	30.7.23		
27	MAYURAK SHI-BABLA	DUMKA	1381.50	Haripur	184.80	85.80	248.80	304.60	74.00	71.80	Heavy	22.9.23		
28				Khusiary	106.40	248.20	257.80	249.20	104.00	80.20	Heavy	31.7.23		
29				Maharo	196.20	94.60	242.60	346.40	121.40	92.20	Heavy	26.9.23		
30				Massanjore	236.60	126.00	140.80	321.20	145.40	79.00	Heavy	28.6.23		
31				Tantloj	251.40	127.60	144.40	285.00	89.40	138.20	V. Heavy	23.9.23		
32	BIRBHUM	1460.00	Tilpara Barrage	345.60	126.20	158.20	159.80	125.40	85.00	Heavy	19.6.23			
33			Shyambati	542.00	274.00	554.00	320.00	255.00	135.00	V. Heavy	30.6.23			
34	MURSHIDABAD	1353.30	Kandi	125.20	105.00	243.40	160.40	127.20	74.60	Heavy	5.10.23			
35	AJAY-HINGLOW	DEOGHAR	1162.10	Sikatia	97.80	272.80	231.80	293.40	140.00	157.60	V. Heavy	3.7.23		
36	BIRBHUM	1460.00	Hinglow	132.00	74.00	330.00	245.00	133.00	74.00	Heavy	11.8.23			
37			Debogram	124.00	106.00	248.00	196.00	138.00	54.00	Normal	19.6.23			
38	PASCHIM BURDWAN	1402.00	Satkhania	111.80	58.40	145.20	118.20	84.20	38.00	Normal	5.10.23			
39			Guskara	256.50	420.00	283.00	285.50	214.50	109.00	Heavy	15.7.23			
40	DAMO DAR	KODARMA	1116.20	Tilaiya	104.20	69.20	164.00	318.20	103.80	45.20	Normal	22.9.23		
41		BOKARO	1247.50	Tenughat	75.80	282.80	204.80	377.80	237.00	124.80	V. Heavy	21.9.23		
42		DHANBAD	1355.20	Maithon	36.00	168.20	374.00	261.80	181.00	93.80	Heavy	15.8.23		
43				Panchet	79.00	238.60	324.20	307.60	291.40	97.20	Heavy	5.10.23		

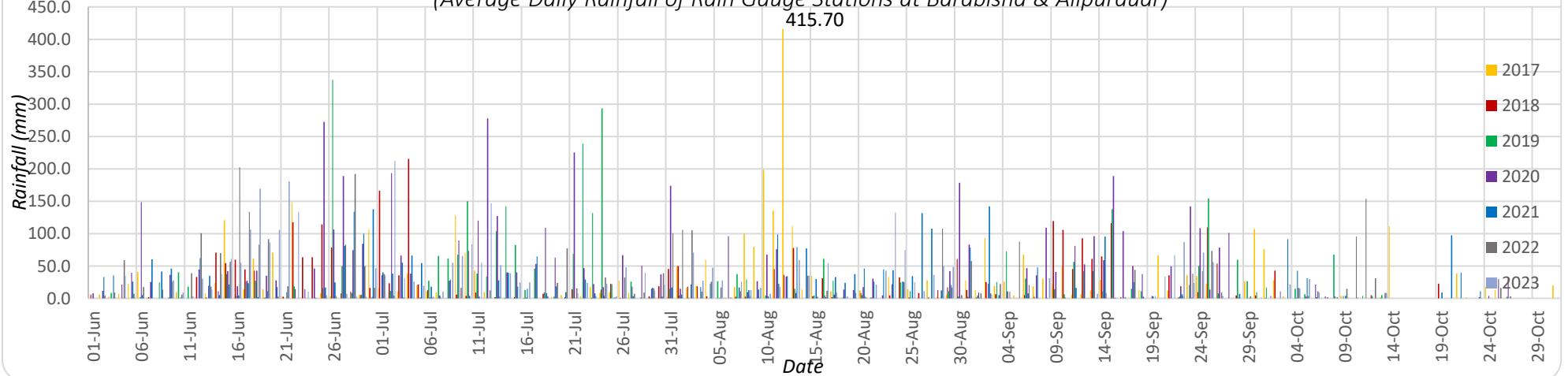
## ANNUAL FLOOD REPORT, 2023

Sl.	RIVER SUB BASIN	DISTRICT	Annual Normal Rainfall (mm)	Location of Rain Gauge Station	Monthly Total Rainfall (mm)					One Day Maximum Rainfall (mm)		
					Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	1-D Max.	Type of Rainfall	Date of Max.
44	DAMODAR	PASCHIM BURDWAN	1402.00	Asansol	76.80	112.40	401.30	277.60	289.80	90.20	Heavy	15.8.23
45				Durgapur	168.20	157.20	383.20	256.20	155.60	70.80	Heavy	5.10.23
46		PURBA BURDWAN		Jamalpur	106.00	110.00	350.00	223.00	160.00	96.00	Heavy	1.8.23
47		BANKURA	1533.90	Sonamukhi	77.10	111.40	376.00	140.00	91.00	80.00	Heavy	1.8.23
48	KHARI-BEHULA-GHEA	PURBA BURDWAN	1402.00	Kanainatsal	154.80	227.70	339.40	225.20	133.40	82.60	Heavy	26.8.23
49				Memari	145.00	246.00	337.00	316.00	147.00	97.00	Heavy	1.8.23
50				Seharabazar	112.00	154.50	183.09	151.50	111.50	44.00	Normal	29.6.23
51	MUNDES WARI			Lohai (Raina)	146.00	235.00	178.00	142.00	163.00	49.00	Normal	2.7.23
52	AMTA CHANNEL (DAMODAR)	HOOGLY	1411.70	Tarakeswar	155.40	137.70	296.70	305.50	244.00	85.40	Heavy	5.10.23
53				Champadanga	96.50	119.50	350.70	217.30	149.00	84.30	Heavy	25.8.23
54				Singur	131.75	180.25	209.00	310.00	123.00	80.00	Heavy	1.8.23
55		HOWRAH	1563.60	Amta	56.00	103.00	214.00	185.00	133.00	58.00	Normal	2.8.23
56				Domjur	99.00	137.00	291.00	267.00	116.00	62.00	Normal	22.9.23
57	DWARA KESWAR	BANKURA	1533.90	Bankura	169.00	152.80	422.20	166.60	266.80	96.00	Heavy	1.8.23
58				Indus	154.35	416.80	455.35	148.50	16.00	110.00	Heavy	2.8.23
59		HOOGLY	1411.70	Arambag	93.50	207.00	260.25	239.75	123.00	70.00	Heavy	24.8.23
60	SHILA BATI	PASCHIM MEDINIPUR	1569.30	Amlagora	33.20	123.00	340.00	146.40	169.60	100.40	Heavy	11.8.23
61				Ghatal	153.20	235.00	413.00	353.40	227.60	154.20	V. Heavy	2.8.23
62	KANGSA BATI	PURULIA	1449.90	Simulia	67.60	204.60	314.40	159.40	283.20	190.60	V. Heavy	1.10.23
63				Purihansa	41.00	123.60	202.20	304.20	235.40	91.20	Heavy	1.10.23
64				Tusuma	65.00	230.00	239.80	314.00	230.40	123.00	Heavy	1.10.23
65				Khardiwar	87.00	138.60	143.20	328.60	261.80	140.80	V. Heavy	1.10.23
66				Phulberia	137.40	136.20	285.40	241.20	186.80	73.60	Heavy	1.10.23
67		BANKURA	1533.90	Mukutmanipur	77.80	108.80	251.40	252.00	234.40	129.80	V. Heavy	1.10.23
68		PASCHIM MEDINIPUR	1569.30	Midnapore	97.60	314.80	319.10	169.60	226.00	127.00	V. Heavy	1.10.23
69	RUPNARA YAN	PURBA MEDINIPUR	1788.70	Panskura	113.56	213.81	422.88	413.35	359.64	242.31	V. Heavy	4.10.23
70				Tamluk	134.50	280.50	300.60	366.30	197.90	121.80	Heavy	4.10.23
71	KALIA GHAI			Amgachia	152.60	310.80	319.60	480.40	504.80	440.80	E. Heavy	4.10.23
72	PASCHIM MEDINIPUR	1569.30	Sabang	127.50	252.00	333.50	386.00	587.50	438.50	E. Heavy	4.10.23	
73	KANGSA BATI	JHARGRAM	Jhargram	132.60	253.30	381.65	296.65	120.10	55.25	Normal	1.10.23	
74	CHANDIA	PASCHIM MEDINIPUR	Barisha	168.00	270.00	262.00	288.00	577.00	522.00	E. Heavy	4.10.23	
75	HALDI	PURBA MEDINIPUR	1788.70	Itamogra	127.10	127.30	244.80	212.70	214.90	127.20	V. Heavy	4.10.23
76	RASULPUR			Contai	284.00	382.00	200.00	499.00	101.20	78.60	Heavy	27.6.23
77	HOOGHLY	KOLKATA	1818.20	Alipore	169.90	147.70	329.20	454.50	181.40	84.00	Heavy	2.8.23
78	ICHHA MATI	NORTH 24-PARGANAS	1592.60	Bangaon	161.20	159.60	181.20	181.20	187.40	65.40	Heavy	5.10.23
79				Tentulia	284.00	237.00	387.00	340.00	156.00	87.00	Heavy	28.6.23
80				Dum dum	139.10	164.30	344.00	365.70	92.90	72.20	Heavy	7.9.23
81	BIDYA DHARI	SOUTH 24-PARGANAS	1922.00	Chowbaga	273.00	269.00	326.00	302.00	147.00	73.00	Heavy	2.8.23
82				Uttarbhag	333.00	288.00	298.00	254.00	152.00	107.00	Heavy	29.6.23
83	SUNDARBAN AREA			Sagar Island	354.70	368.50	229.50	460.00	101.20	134.00	V. Heavy	27.6.23
84	SUBARNA REKHA	PURBA MEDINIPUR	1788.70	Digha	273.00	366.00	271.00	386.50	64.00	134.50	V. Heavy	29.6.23

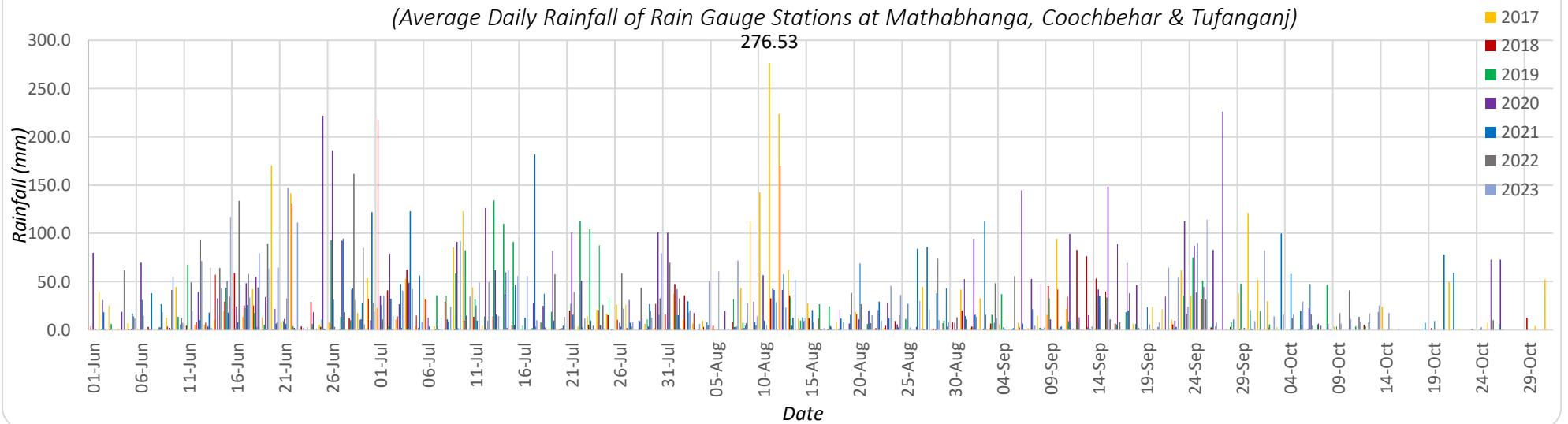
\* Data Source: Daily Flood Reports of Central Flood Control Room, I&amp;WD

**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of Alipurduar District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Barabisha &amp; Alipurduar)

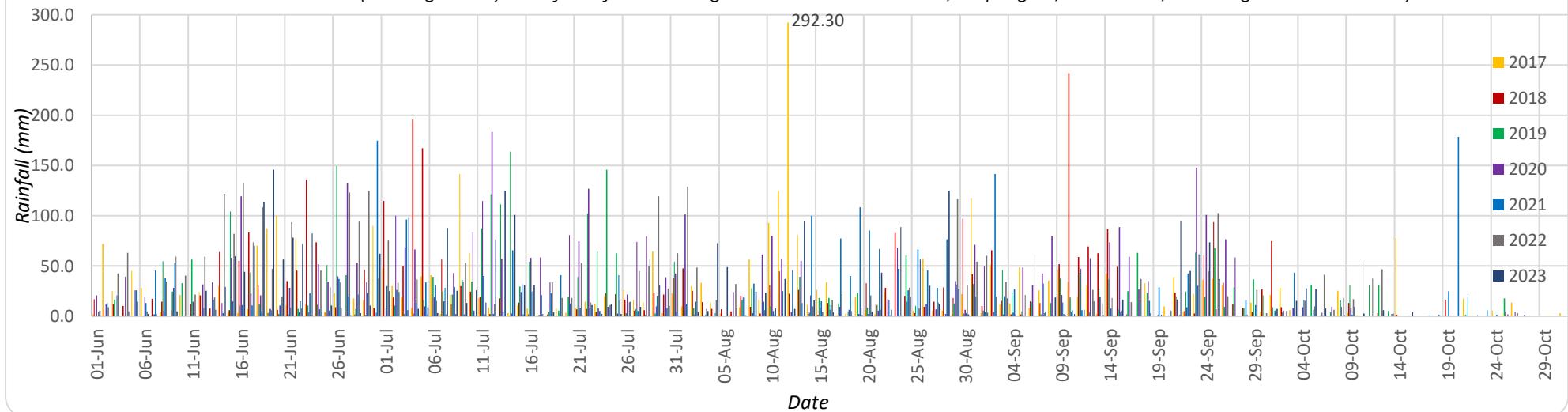
**Daily Rainfall Average of Coochbehar District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Mathabhanga, Coochbehar &amp; Tufanganj)

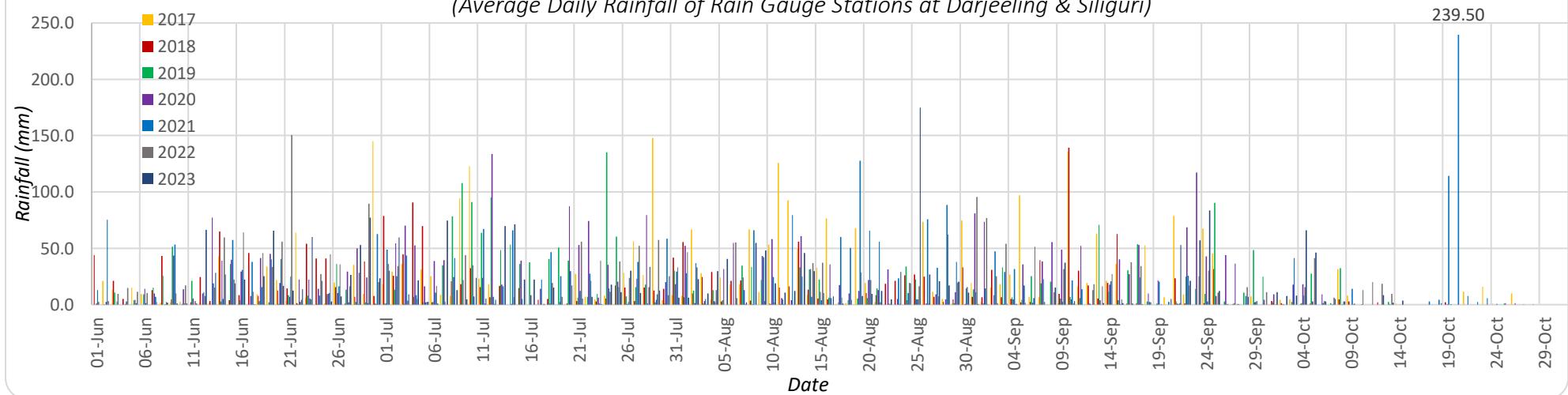


**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of Jalpaiguri District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Malbazar, Jalpaiguri, Banarhat, Mainaguri &amp; Hasimara)

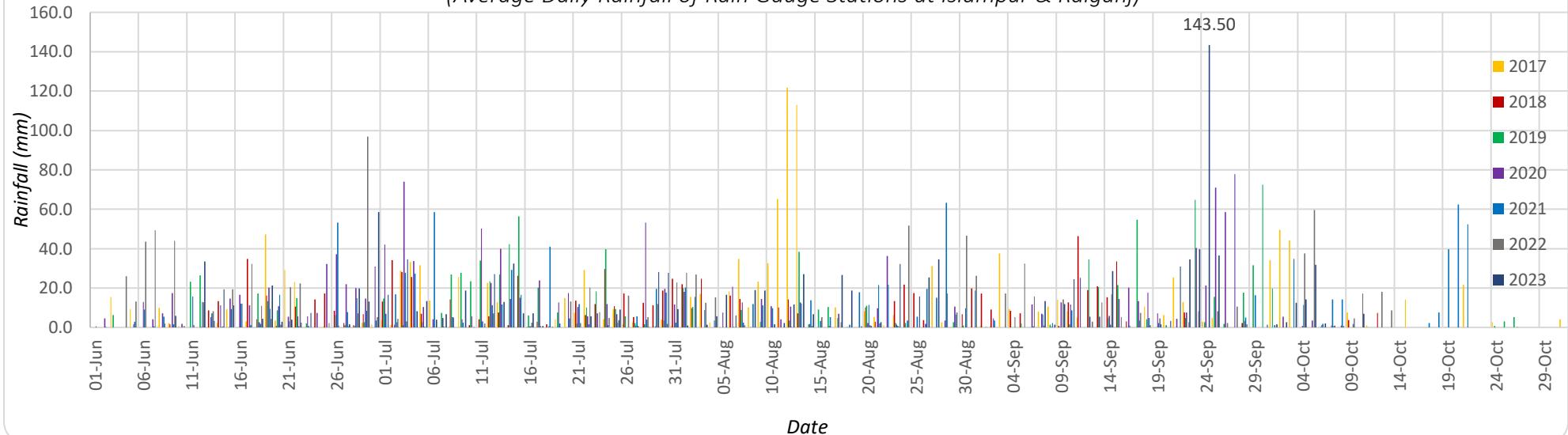
**Daily Rainfall Average of Darjeeling District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Darjeeling &amp; Siliguri)

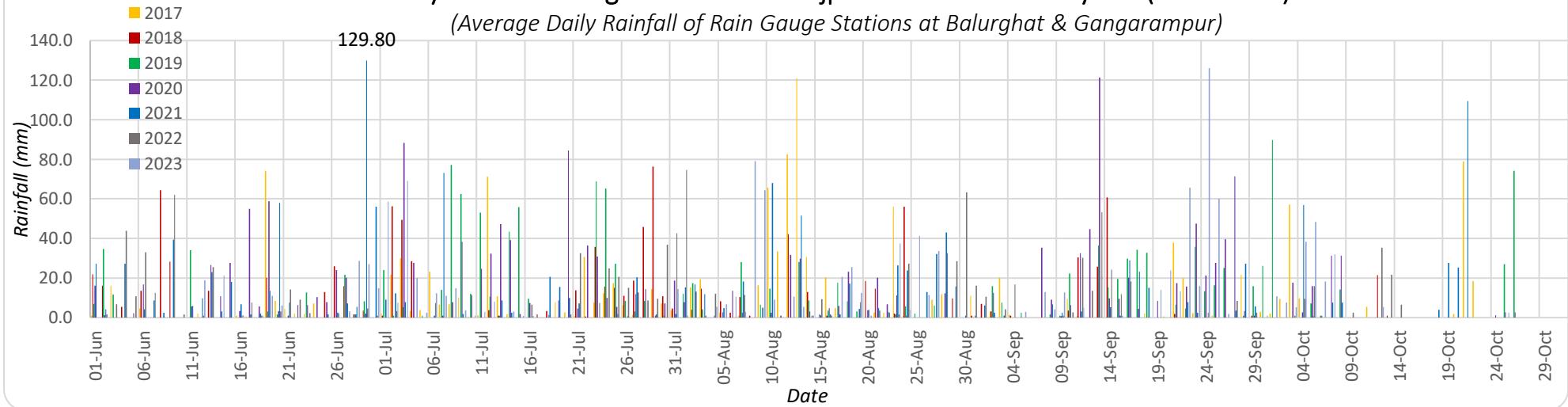


**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of Uttar Dinajpur District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Islampur &amp; Raiganj)

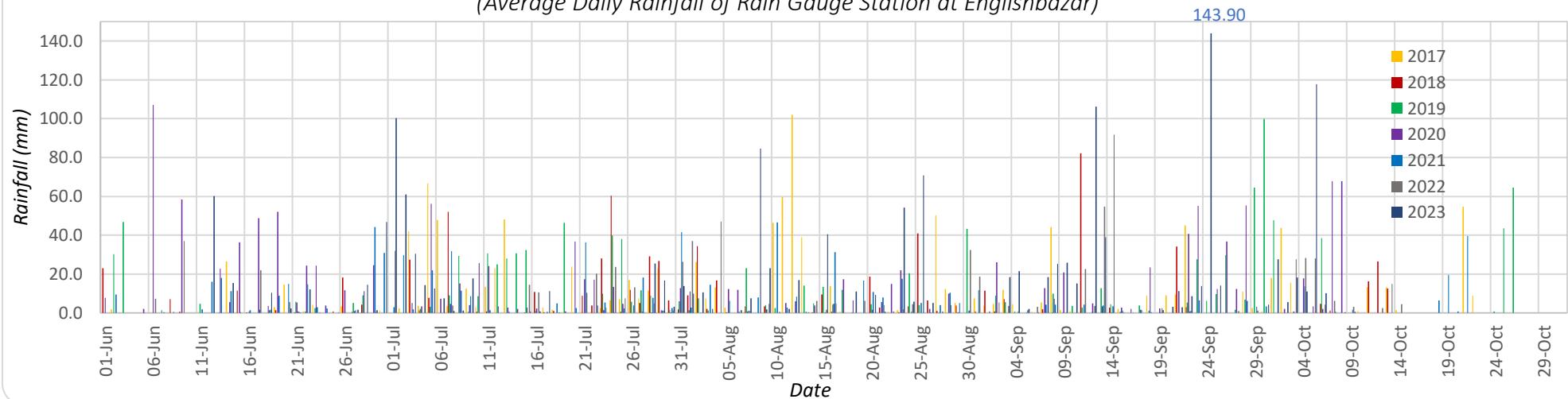
**Daily Rainfall Average of Dakshin Dinajpur District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Balurghat &amp; Gangarampur)

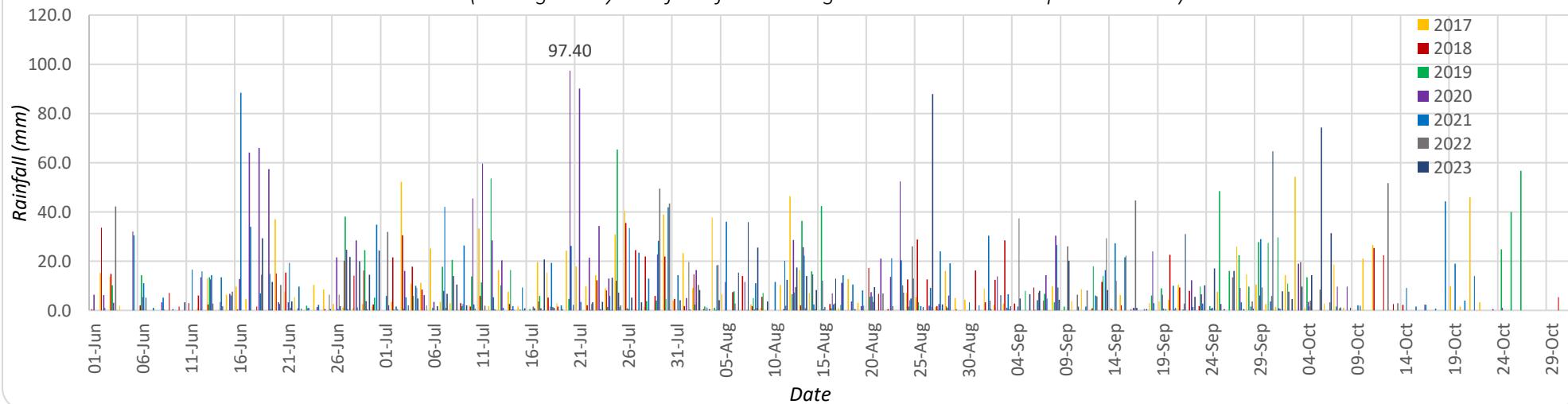


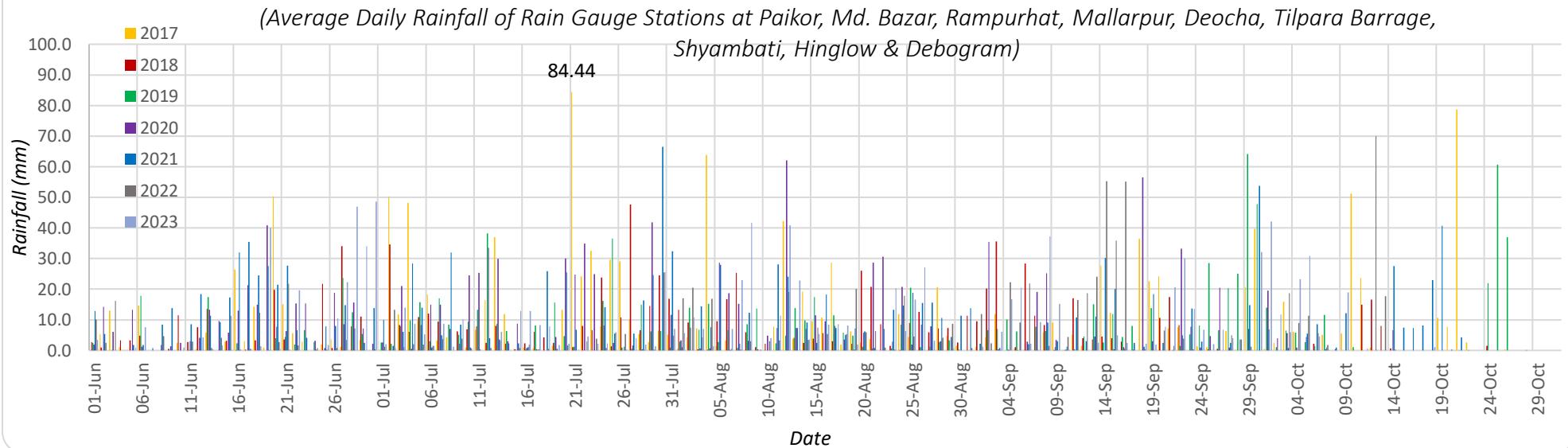
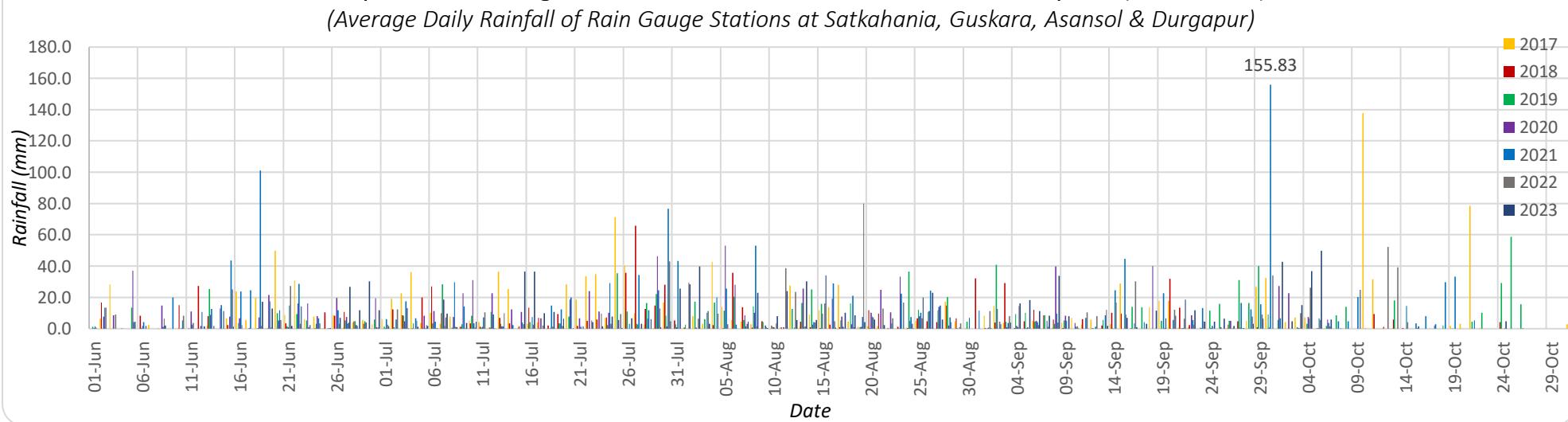
**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of Malda District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Station at Englishbazar)

**Daily Rainfall Average of Murshidabad District for Last 7-years (2017-2023)**

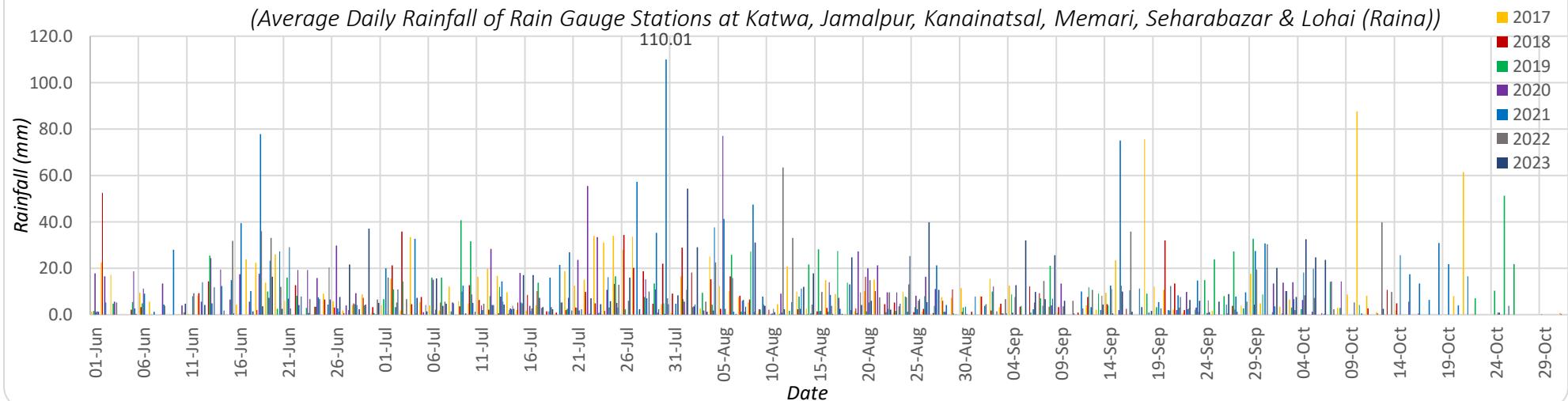
(Average Daily Rainfall of Rain Gauge Stations at Berhampore &amp; Kandi)



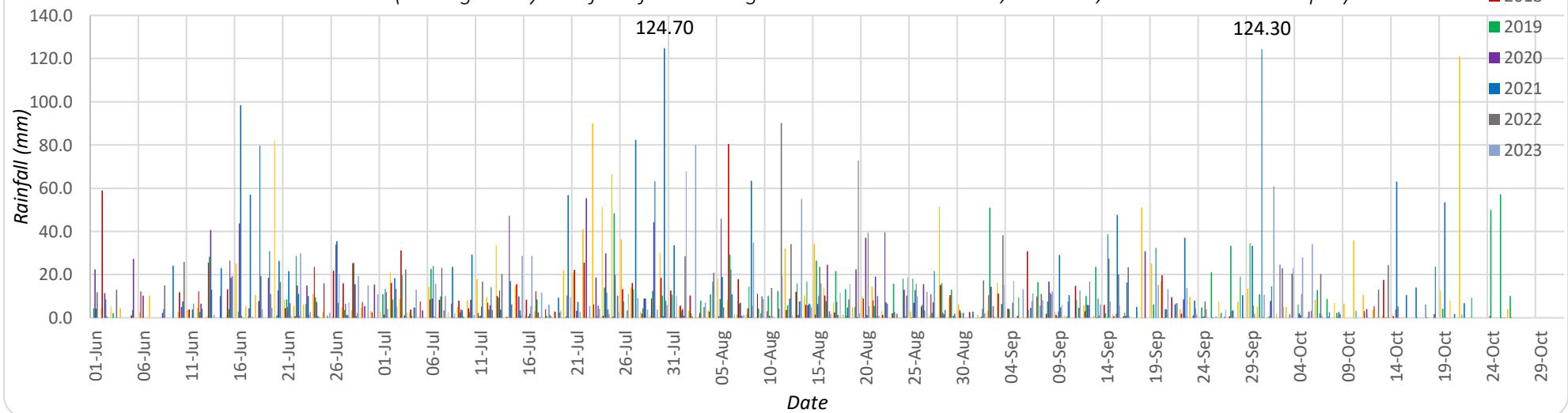
**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of Birbhum District for Last 7-years (2017-2023)****Daily Rainfall Average of Paschim Bardhaman District for Last 7-years (2017-2023)**

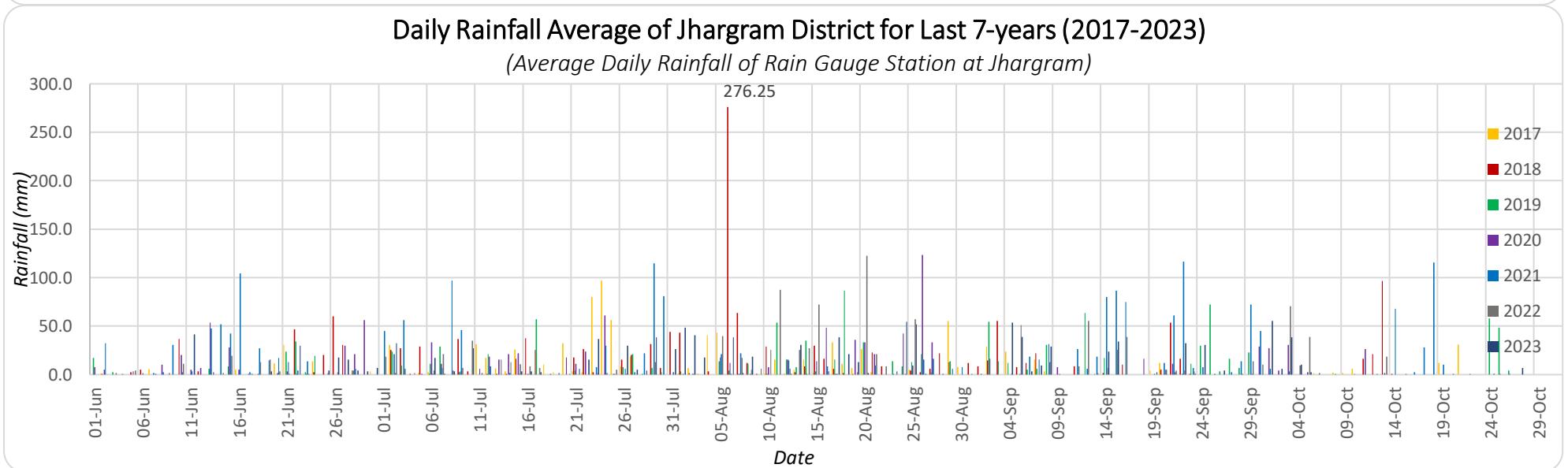
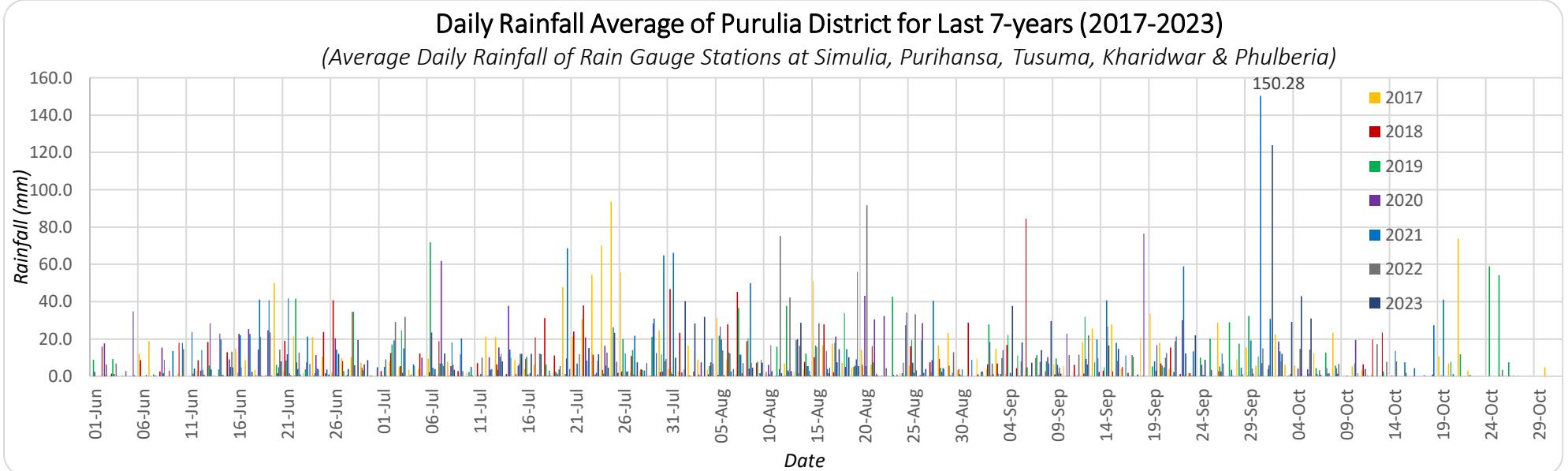
**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of Purba Bardhaman District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Katwa, Jamalpur, Kanainatsal, Memari, Seharabazar &amp; Lohai (Raina))

**Daily Rainfall Average of Bankura District for Last 7-years (2017-2023)**

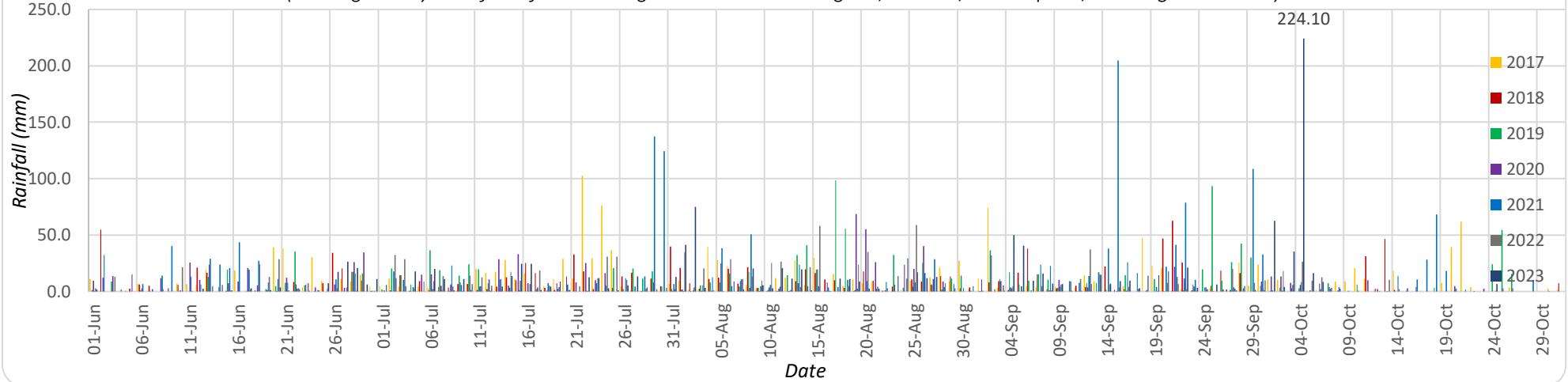
(Average Daily Rainfall of Rain Gauge Stations at Sonamukhi, Bankura, Indus &amp; Mukutmanipur)



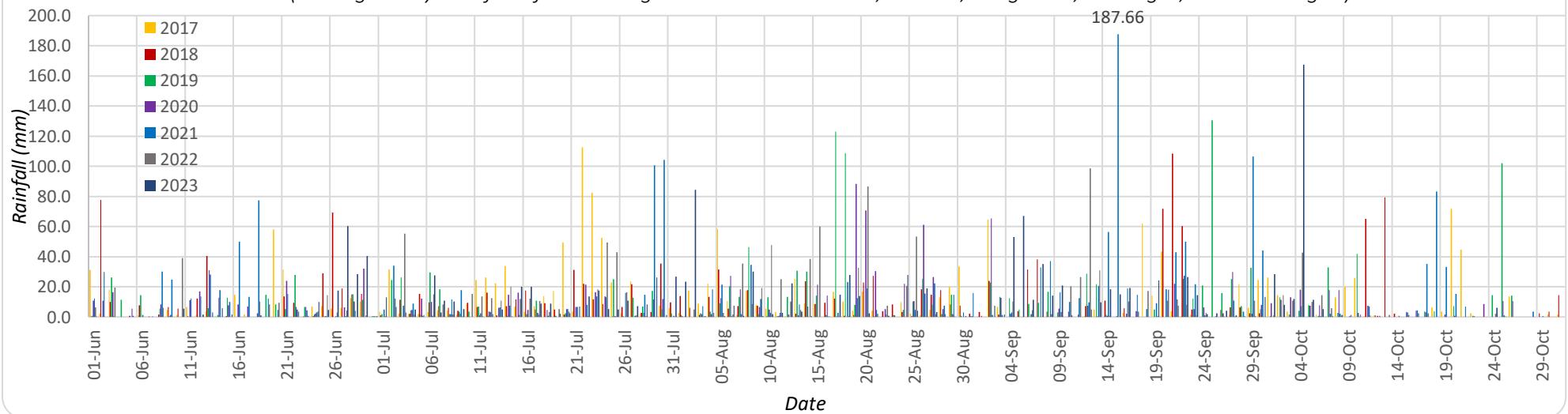
**Annexure VI: Graphical comparison of last six years average rainfall of different districts**

**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of West Midnapore District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Amlagora, Ghatal, Midnapore, Sabang &amp; Barisha)

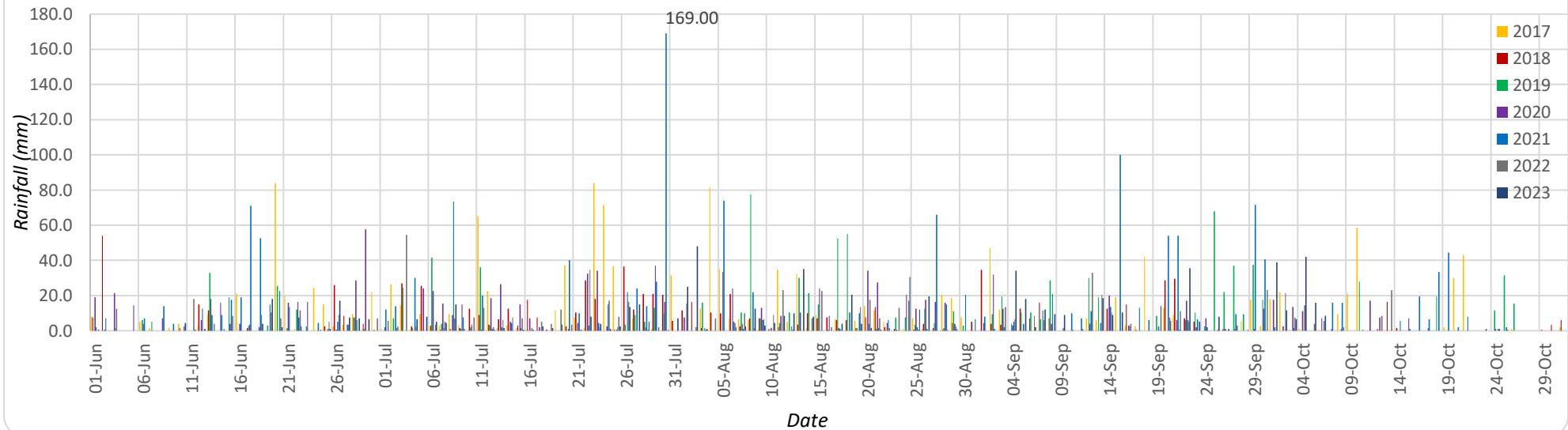
**Daily Rainfall Average of East Midnapore District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Panskura, Tamluk, Amgachia, Itamogra, Contai &amp; Digha)

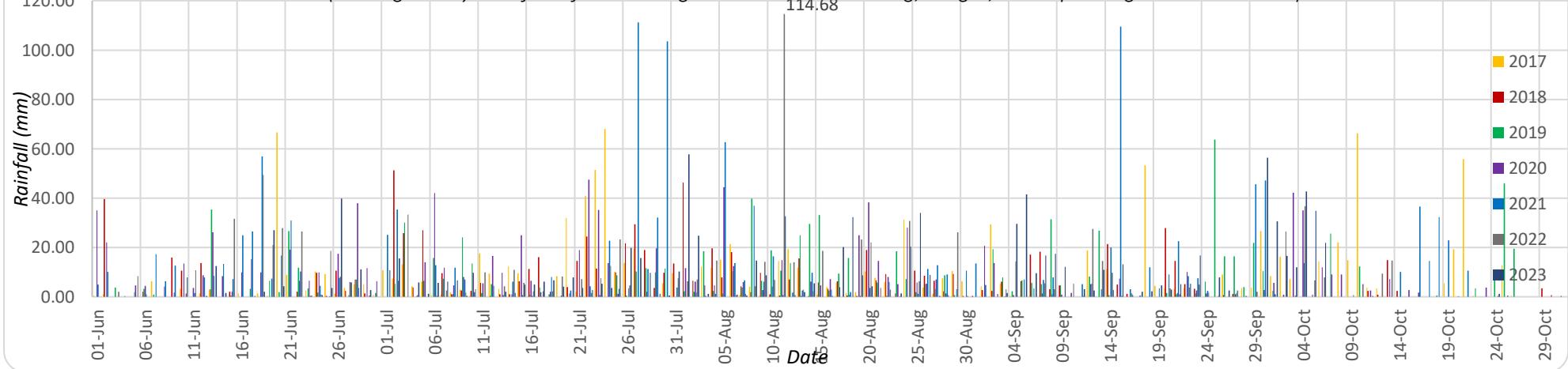


**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of Howrah District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Domjur &amp; Amta)

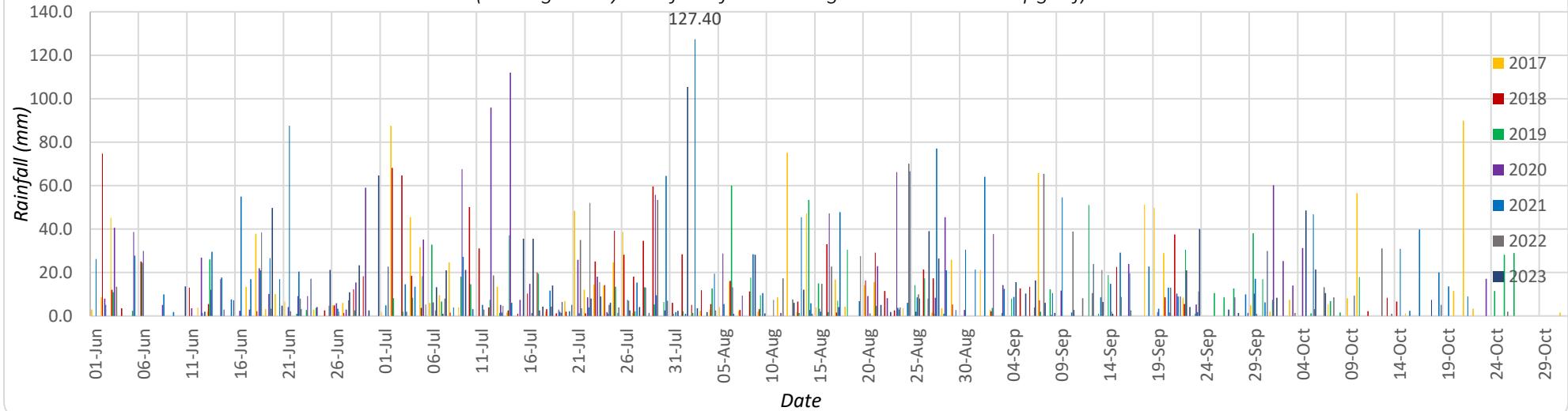
**Daily Rainfall Average of Hooghly District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Arambag, Singur, Champadanga &amp; Tarakeswar)

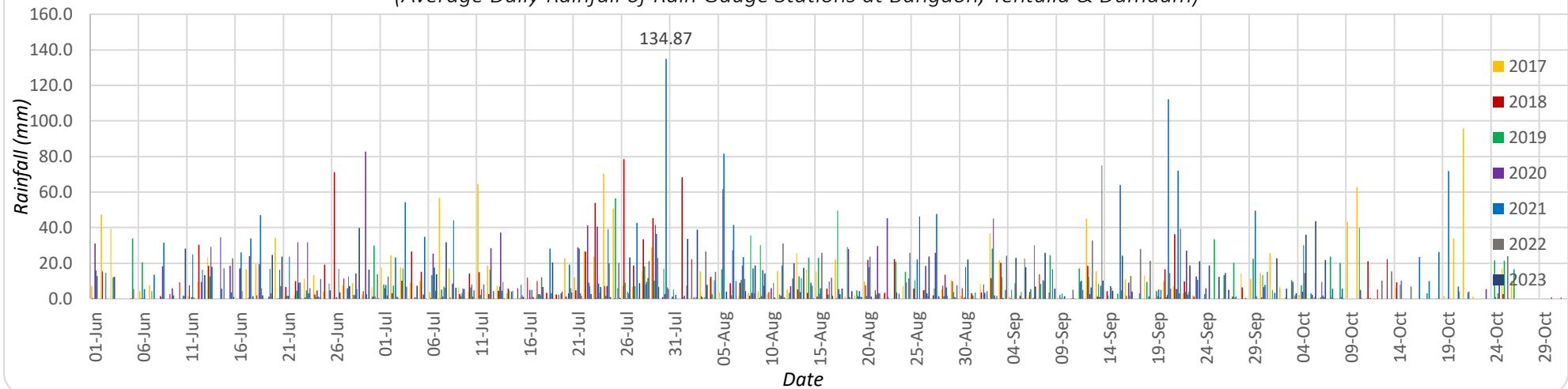


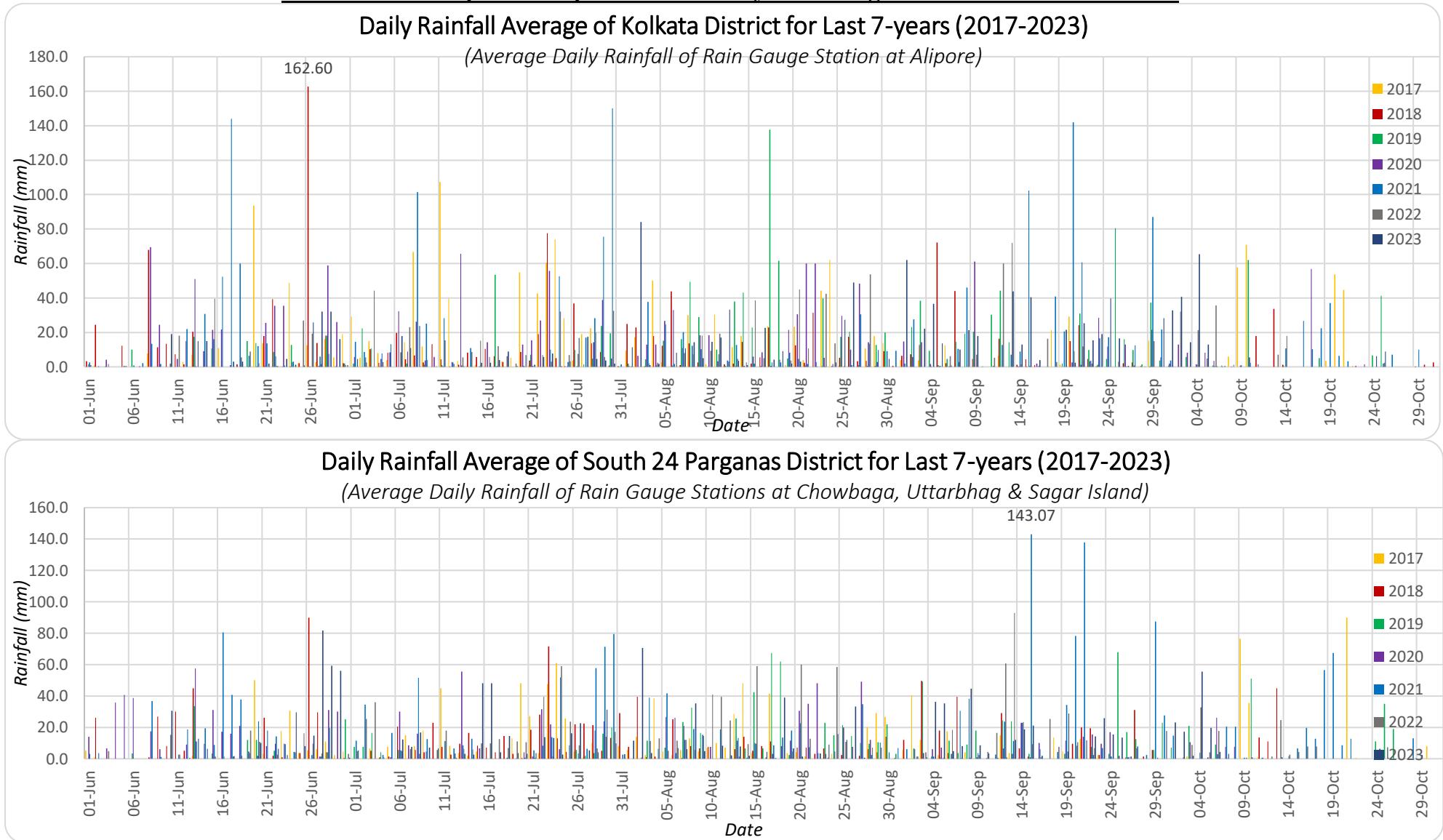
**Annexure VI: Graphical comparison of last six years average rainfall of different districts****Daily Rainfall Average of Nadia District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Station at Swarupganj)

**Daily Rainfall Average of North 24 Parganas District for Last 7-years (2017-2023)**

(Average Daily Rainfall of Rain Gauge Stations at Bangaon, Tentulia &amp; Dumdum)



**Annexure VI: Graphical comparison of last six years average rainfall of different districts**

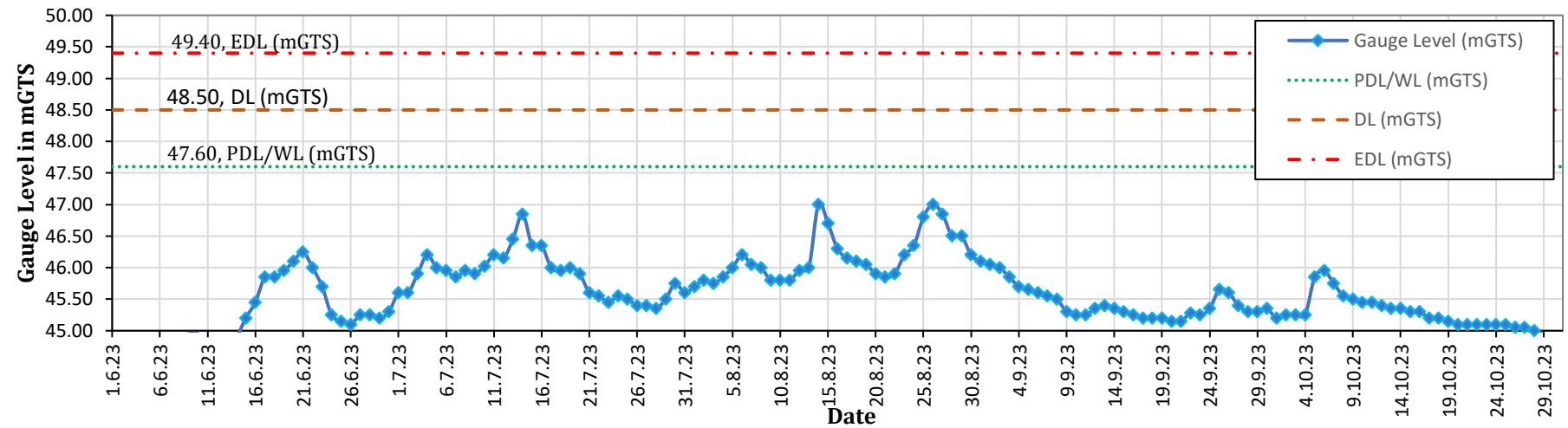
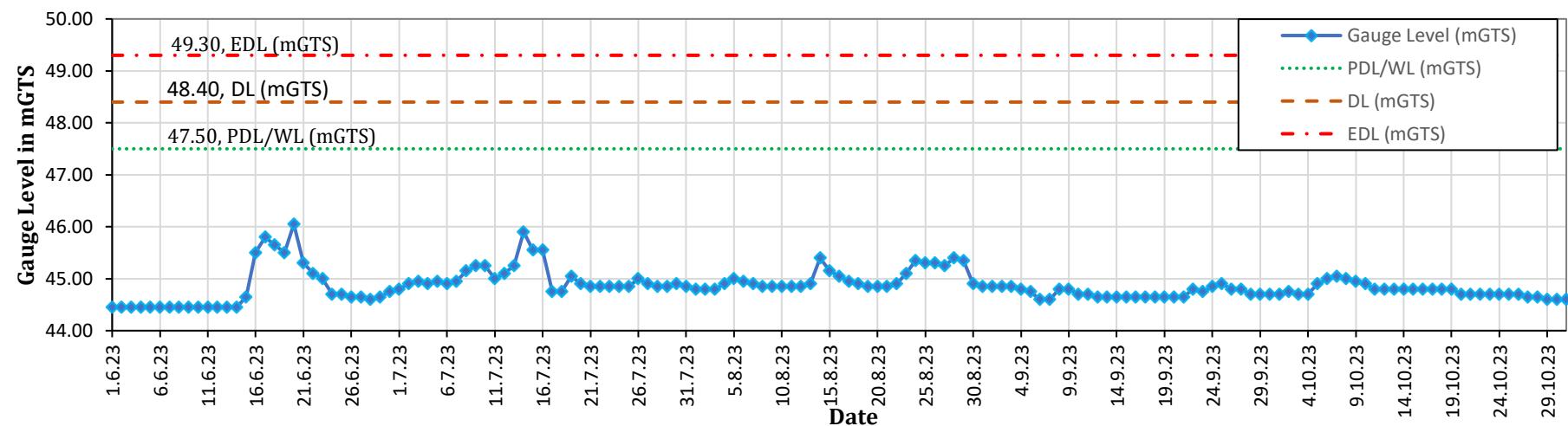
**Annexure-VII: Monthly Statistics of River Gauges during Flood Season, 2023**

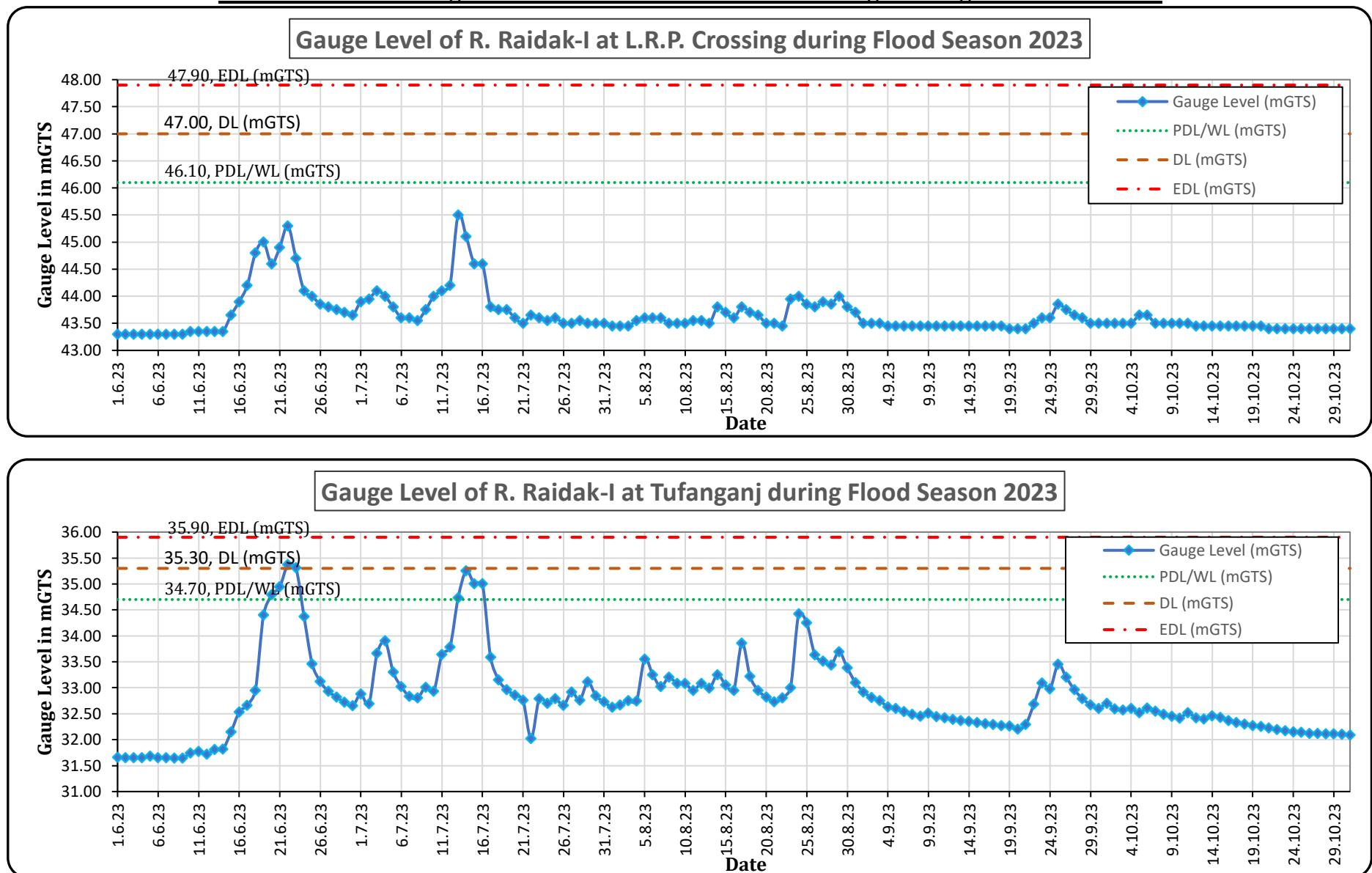
Sl. No.	Name of River	Gauge Station	District	PDL / WL	DL	EDL	Monthly Avg. River Gauge Level (mGTS)					Max. Level (mGTS)	Max. GL w.r.t reference value	Date of Peak	Min. Level (mGTS)	No. of Days crossing			
				(mGTS)	(mGTS)	(mGTS)	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23					PDL	DL	EDL	
1	Sankosh	L.R.P. Crossing	Alipurduar	47.60	48.50	49.40	45.23	45.87	46.17	45.42	45.26	47.00			14.8.23	44.75	0	0	0
2	Raidak-II			47.50	48.40	49.30	44.79	45.01	45.00	44.73	44.77	46.05			20.6.23	44.45	0	0	0
3	Raidak-I			46.10	47.00	47.90	43.81	43.88	43.66	43.50	43.46	45.50			13.7.23	43.30	0	0	0
4	Tufanganj	Coochbehar	34.70	35.30	35.90	32.70	33.26	33.19	32.60	32.35	35.37	0.07	m. above DL	22.6.23	31.64	6	2	0	
5	Torsa	Hasimara	Alipurduar	115.10	116.30	117.50	114.72	115.10	114.81	114.53	114.40	116.35	0.05	m. above DL	13.7.23	114.10	27	1	0
6		Coochbehar	Coochbehar	41.46	42.07	42.68	40.52	40.96	40.81	40.48	40.41	41.76	0.30	m. above PDL	14.7.23	40.02	4	0	0
7	Kaljani	Alipurduar	Alipurduar	44.50	45.10	45.70	43.29	43.41	43.19	43.04	42.96	44.75	0.25	m. above PDL	21.6.23	42.85	5	0	0
8	Diana	Chengmari	Jalpaiguri	199.90	200.50	201.20	198.66	199.07	198.79	198.69	198.53	200.00	0.10	m. above PDL	13.7.23	198.25	1	0	0
9		Nagrakata		160.10	160.70	161.80	155.83	156.51	156.41	155.94	155.68	157.32			14.7.23	155.42	0	0	0
10	Jaldhaka	NH-31 Crossing		79.30	80.10	80.90	79.45	79.80	79.74	79.43	79.38	80.71	0.61	m. above DL	13.7.23	78.95	115	12	0
11	Mansai	Mathabhangha	Coochbehar	47.20	47.70	48.20	45.70	46.43	46.18	45.83	45.45	47.55	0.35	m. above PDL	14.7.23	44.82	5	0	0
12	Teesta	Coronation Br.	Darjeeling	149.00	150.00	153.60	143.12	143.55	144.11	143.36	144.52	149.20	0.20	m. above PDL	4.10.23	142.20	1	0	0
13	Teesta	Domohani	Jalpaiguri	85.60	85.95	86.30	84.86	85.42	85.51	84.79	84.90	86.02	0.07	m. above DL	25.8.23	84.29	16	2	0
14	Teesta	Mekhliganj	Coochbehar	65.35	65.95	66.30	65.08	65.53	65.59	65.14	65.02	66.10	0.15	m. above DL	14.8.23	64.54	70	2	0
15	Mahananda	Hill Curt Road	Darjeeling	115.38	115.98	116.59	112.84	113.21	113.18	112.92	112.67	114.80			14.7.23	112.40	0	0	0
16		Sonapur	North Dinajpur	75.17	75.77	76.38	-	-	-	-	-				-	-	0	0	0
17	Dauk	Chopra		68.86	69.46	70.07	66.35	66.05	65.79	65.66	#DIV/0!	66.95			12.7.23	65.45	0	0	0
18	Nagar	Makdampur		30.94	31.54	31.86	27.39	28.20	28.28	28.26	28.09	31.40	0.46	m. above PDL	27.9.23	26.90	3	0	0
19	Fulahar	Teljana	Malda	26.51	27.43	28.35	22.94	25.18	26.44	25.61	25.03	27.42	0.91	m. above PDL	16.8.23	22.46	25	0	0
20	Atreyee	Balurghat	South Dinajpur	22.54	23.15	23.76	#DIV/0!	19.70	19.28	21.01	18.93	22.79	0.25	m. above PDL	26.9.23	18.54	2	0	0
21	Tangon	Radhikapur		32.85	33.45	34.05	27.67	28.92	29.02	29.15	28.57	31.50			25.9.23	27.00	0	0	0
22	Punarbhava	Gangarampur		25.22	25.82	26.42	22.65	23.80	23.34	24.67	23.22	26.70	0.28	m. above EDL	26.9.23	22.25	4	1	3
23	Ganga-Padma	Manikchakghat	Malda	24.09	24.69	25.30	21.66	22.56	24.19	23.64	23.09	24.77	0.08	m. above DL	14.8.23	21.56	20	6	0
24		Nimtila	Murshidabad	21.30	21.90	22.51	-	18.06	20.45	19.25	17.81	21.25			15.8.23	15.78	0	0	0
25	Bansloj	Bansloj Rly Br.	Birbhum	31.25	31.85	32.76	-	29.90	-	29.90	29.03	30.60			24.9.23	28.80	0	0	0
26	Brahamani	Jagdhari Rd. Br.	Birbhum	32.40	33.00	33.40	-	30.00	29.35	30.10	29.30	30.50			23.9.23	29.00	0	0	0
27	Dwarka	Sankoghat	Murshidabad	19.50	20.40	21.30	15.01	15.26	16.02	16.25	16.66	19.65	0.15	m. above PDL	24.9.23	15.00	2	0	0
28		Ranagram		16.76	17.36	17.86	12.30	12.45	13.09	13.08	13.70	15.85			8.10.23	12.30	0	0	0
29	Mayurakshi	Narayanpur		27.19	27.99	28.79	23.02	23.32	23.32	23.32	23.32				9.6.23	22.20	0	0	0
30	Kuia	Tarapur	Nadia	22.11	22.71	23.35	17.17	17.73	18.22	18.66	19.04	20.99			7.10.23	17.15	0	0	0
31	Babla	Bazarshow		14.42	15.02	15.65	10.90	11.08	11.89	12.11	12.21	13.70			9.10.23	10.87	0	0	0
32	Ajoy	Gheropara	Birbhum	38.42	39.42	40.42	34.06	34.27	34.72	35.18	35.25	36.40			10.9.23	34.04	0	0	0
33	Bhagirathi-Hoogly	Baharampur	Murshidabad	16.62	17.22	17.83	14.07	14.23	14.40	14.36	14.45	15.01			8.10.23	13.64	0	0	0
34		Katwa	Purba Burdwan	13.10	13.71	14.32	8.93	9.28	9.73	9.92	10.34	12.20			6.10.23	8.10	0	0	0
35		Swarupganj	Nadia	7.83	8.44	9.05	5.09	5.37	6.04	6.27	6.65	8.01	0.18	m. above PDL	8.10.23	4.75	3	0	0
36	Mathabhanga	Majdia		7.21	7.82	8.43	3.74	3.90	4.87	4.81	4.97	6.12			7.10.23	3.52	0	0	0

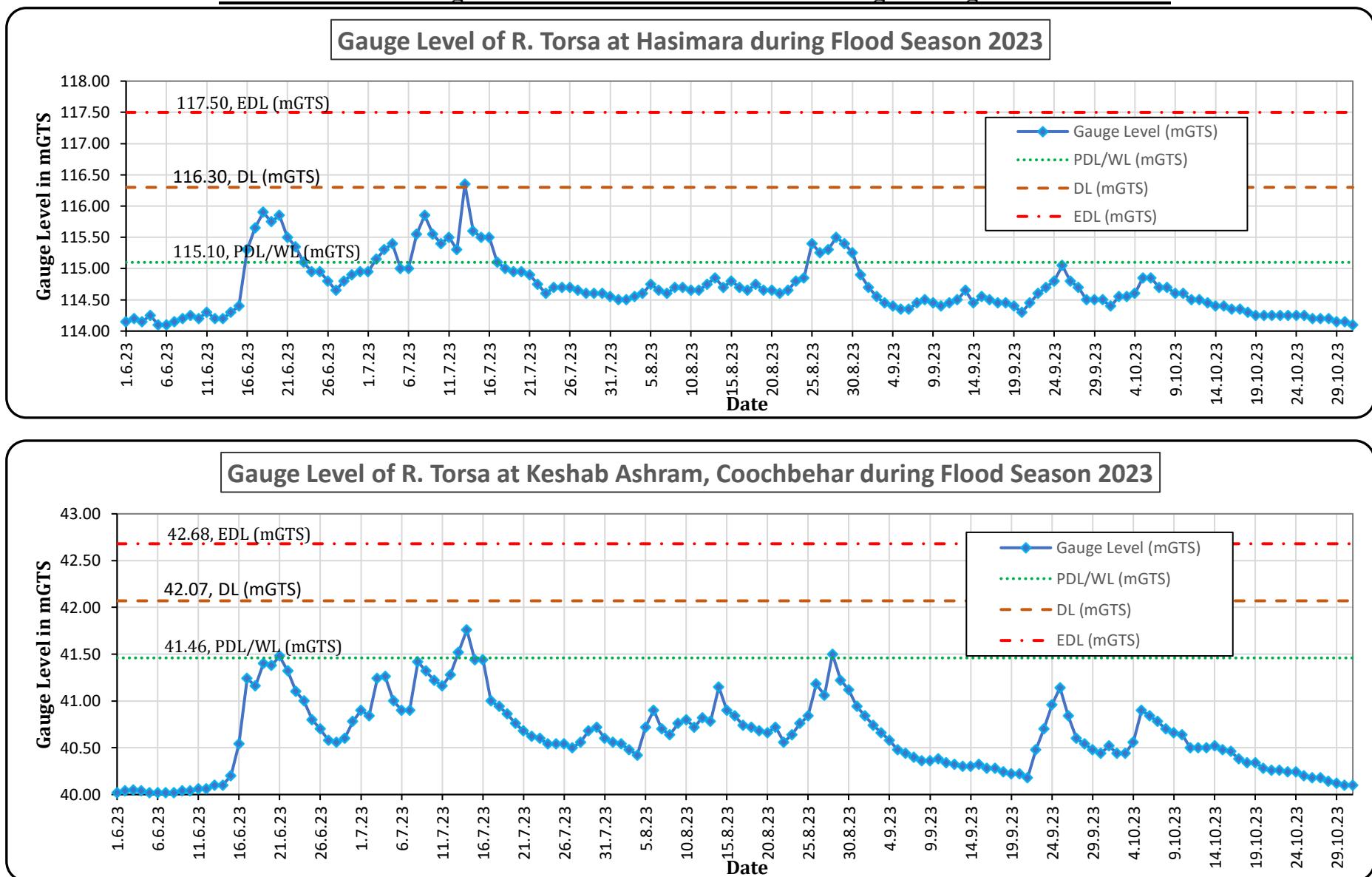
## ANNUAL FLOOD REPORT, 2023

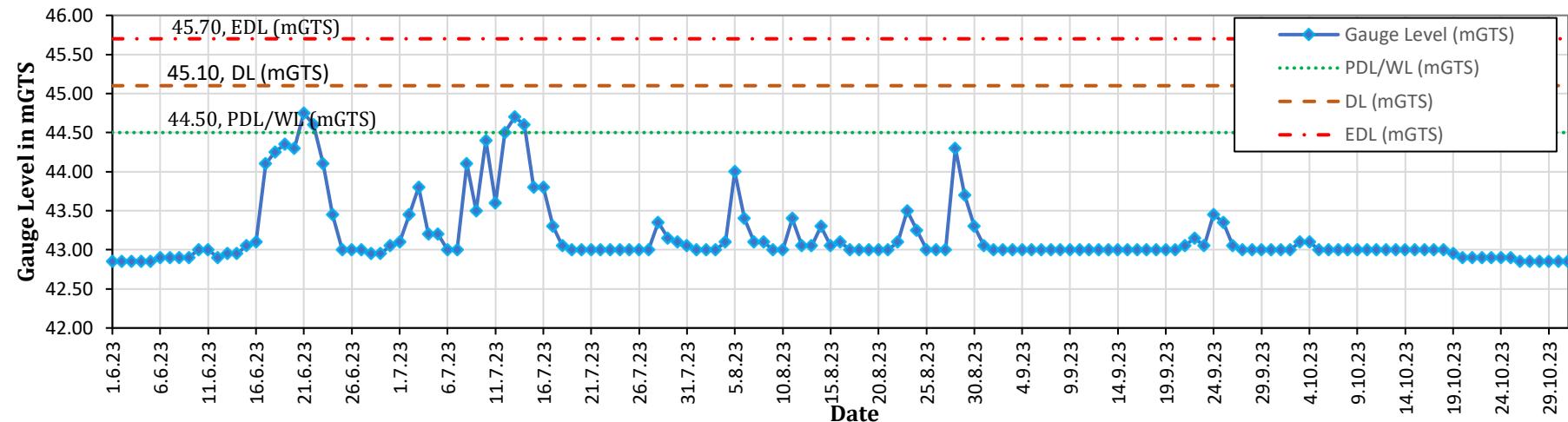
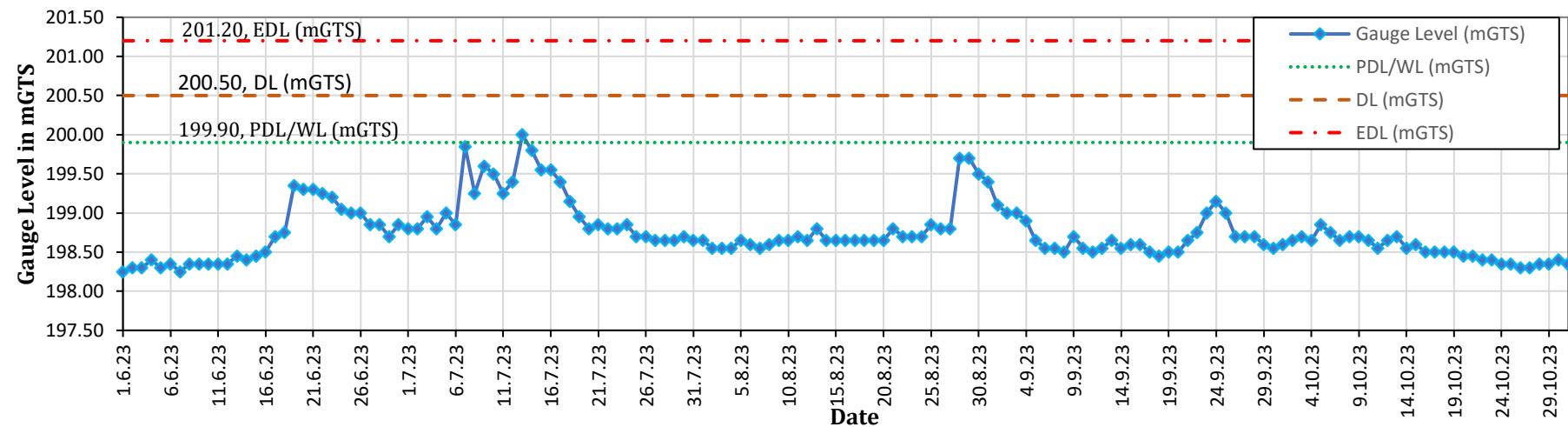
Sl. No.	Name of River	Gauge Station	District	PDL / WL (mGTS)	DL (mGTS)	EDL (mGTS)	Monthly Avg. River Gauge Level (mGTS)					Max. Level (mGTS)	Max. GL w.r.t reference value	Date of Peak	Min. Level (mGTS)	No. of Days crossing			
							Jun-23	Jul-23	Aug-23	Sep-23	Oct-23					PDL	DL	EDL	
37	Churni	Hanskhali	Nadia	6.92	7.53	8.14	3.32	3.53	4.17	4.28	4.41	5.32			7.10.23	3.06	0	0	0
38	Ichamati	RD Setu (Bongaon)	North 24 Parganas	4.10	4.70	5.25	-	-	-	2.31	3.40	3.64			9.10.23	2.26	0	0	0
39	Jamuna	Gaighata		3.85	4.45	5.05	-	2.15	2.60	2.91	4.02	4.25	0.40 m. above PDL		7.10.23	2.15	27	0	0
40	Damodar	Rondiha	Paschim Burdwan	51.53	52.13	52.89	48.02	48.52	49.68	49.77	50.07	51.02			3.10.23	47.85	0	0	0
41		Edilpur	Purba Burdwan	32.19	32.79	32.95	27.27	27.33	27.33	27.33	27.32	27.61			4.10.23	27.25	0	0	0
42		Jamalpur		22.93	23.24	23.54	-	-	-	17.23	17.97	20.68			4.10.23	16.68	0	0	0
43	Hurhura	Muchighata	Howrah	5.56	6.16	6.77	-	-	3.78	4.57	5.34	7.16	0.39 m. above EDL		4.10.23	3.40	1	2	2
44	Dwarakeswar	Arambag	Hooghly	16.61	17.22	17.83	-	-	11.69	11.49	11.84	15.69			6.10.23	11.43	0	0	0
45		Shakepore		11.15	11.75	12.35	-	-	7.36	7.10	7.52	11.52	0.37 m. above PDL		6.10.23	7.00	1	0	0
46	Shilabati	Banka	Paschim Medinipur	14.47	15.08	15.69	-	-	12.19	11.51	13.63	15.03	0.56 m. above PDL		6.10.23	11.51	3	0	0
47		Gadghat		8.38	8.99	9.60	-	2.74	4.16	4.27	5.13	8.96	0.58 m. above PDL		7.10.23	2.15	4	0	0
48	Rupnarayan	Bandar		6.24	6.85	7.46	2.24	2.57	3.27	3.35	4.98	7.73	0.27 m. above EDL		7.10.23	2.01	3	2	2
49		Gopiganj		4.41	5.03	5.65	2.27	2.31	2.48	2.41	3.15	5.11	0.08 m. above DL		7.10.23	1.03	5	1	0
50	Kangsabati	Mohanpur		25.25	25.75	26.36	24.05	24.38	24.76	24.73	24.83	25.42			5.10.23	23.96	0	0	0
51	Old Cossye	Kalmijole		8.68	9.29	9.90	-	-	6.72	6.26	8.30	10.32	0.42 m. above EDL		6.10.23	6.17	2	0	3
52	New Cossye	Panskura	Purba Medinipur	8.68	9.29	9.90	-	-	-	-	9.38	10.64	0.74 m. above EDL		7.10.23	7.86	1	1	2
53	Chandia	Barisha	Paschim Medinipur	5.70	6.30	6.90	-	2.83	3.81	4.05	4.41	6.16	0.46 m. above PDL		6.10.23	2.50	2	4	0
54	Kapaleswari	Narayanbarh		4.72	5.33	5.94	-	3.48	3.89	4.60	4.93	6.82	0.88 m. above EDL		5.10.23	3.44	18	2	6
55	Kaliaghari	Bakhrabad		7.80	8.40	8.85	-	-	6.15	6.35	7.35	10.05	1.20 m. above EDL		4.10.23	5.80	2	0	2
56		Dehati		5.95	6.55	7.00	-	3.78	4.25	4.78	5.07	7.48	0.48 m. above EDL		5.10.23	3.73	4	2	3
57		Amgachia	Paschim Medinipur	5.18	5.79	6.40	-	3.61	4.10	4.57	4.78	6.90	0.50 m. above EDL		6.10.23	3.55	6	3	4
58		Kalimandop		4.40	5.00	5.33	-	-	-	3.15	3.95	5.03	0.03 m. above DL		6.10.23	3.00	7	1	0
59	Subarnarekha	Gopiballavpur	Jhargram	44.90	45.50	46.50	-	-	40.90	40.86	41.59	42.76			5.10.23	40.44	0	0	0
60		Sonakonia		15.15	16.15	16.75	-	-	11.08	10.40	12.20	13.80			6.10.23	10.00	0	0	0
61	Mahananda	Englishbazar	Malda	20.40	21.00	21.75	14.74	17.08	18.48	18.32	18.87	21.14	0.14 m. above DL		2.10.23	14.60	7	7	0
62	Ajoy	Amuliaghata	Birbhum	104.13	104.73	105.33	102.12	102.21	102.37	102.47	102.52	103.10			5.10.23	102.10	0	0	0
63	Kangsabati	Kapastikri	Paschim Medinipur	15.40	16.00	16.60	10.58	10.64	10.98	11.05	11.78	16.35	0.35 m. above DL		6.10.23	10.25	1	2	0
64	Damodar	Champadanga	Hooghly	12.30	12.90	13.50			8.26	8.86	9.64	13.85	0.35 m. above EDL		4.10.23	7.70	1	2	1
65	Mundeswari	Harinkhola	Hooghly	12.20	12.80	13.41	5.44	5.73	6.50	6.99	7.98	13.20	0.40 m. above DL		4.10.23	5.30	2	1	0
66	Amta Channel	Amta	Howrah	5.04	5.64	6.24	-	-	3.20	3.30	4.82	6.46	0.22 m. above EDL		5.10.23	2.80	1	2	2
67	S. C. Channel	Sehagori	Howrah	5.60	6.20	6.80	-	-	3.43	3.85	4.91	6.75	0.55 m. above DL		4.10.23	3.10	1	4	0

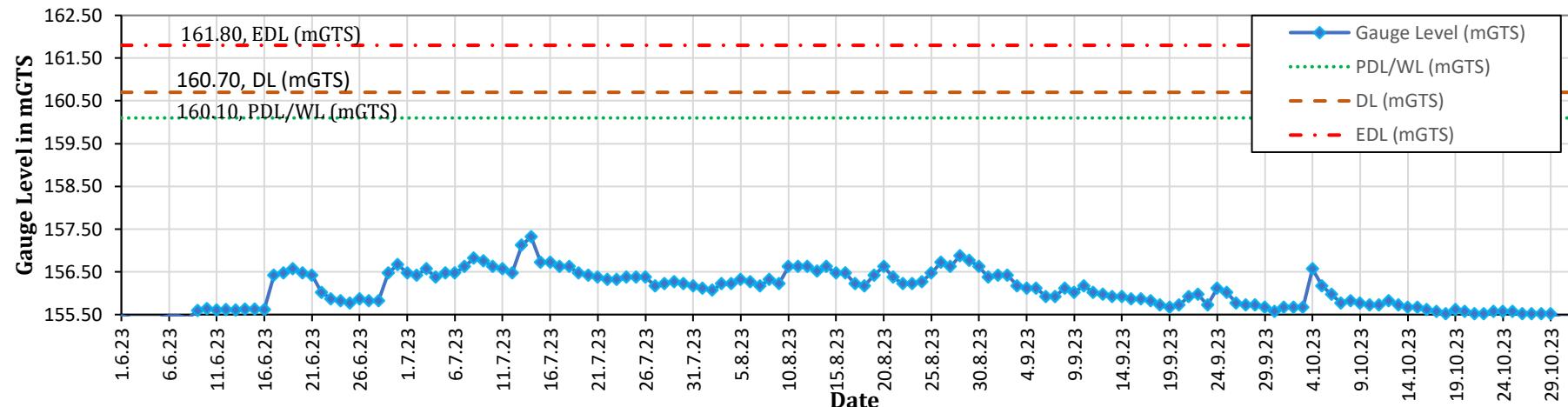
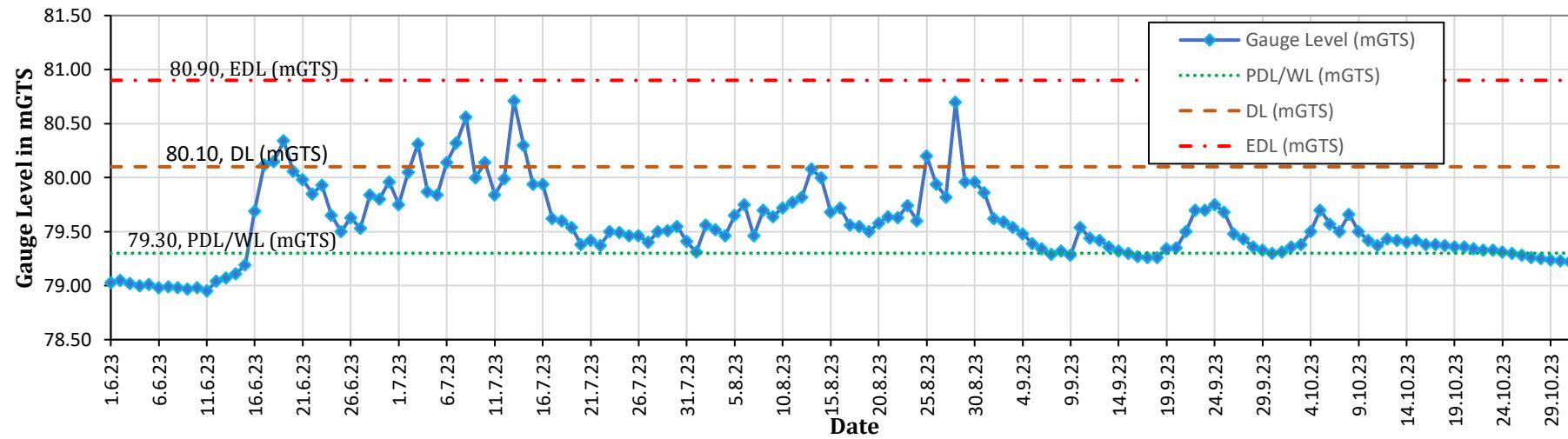
Abbreviation: GL: Gauge Level; BG: Below Gauge; PDL/WL: Primary Danger Level/Warning Level; DL: Danger Level; EDL: Extreme Danger Level

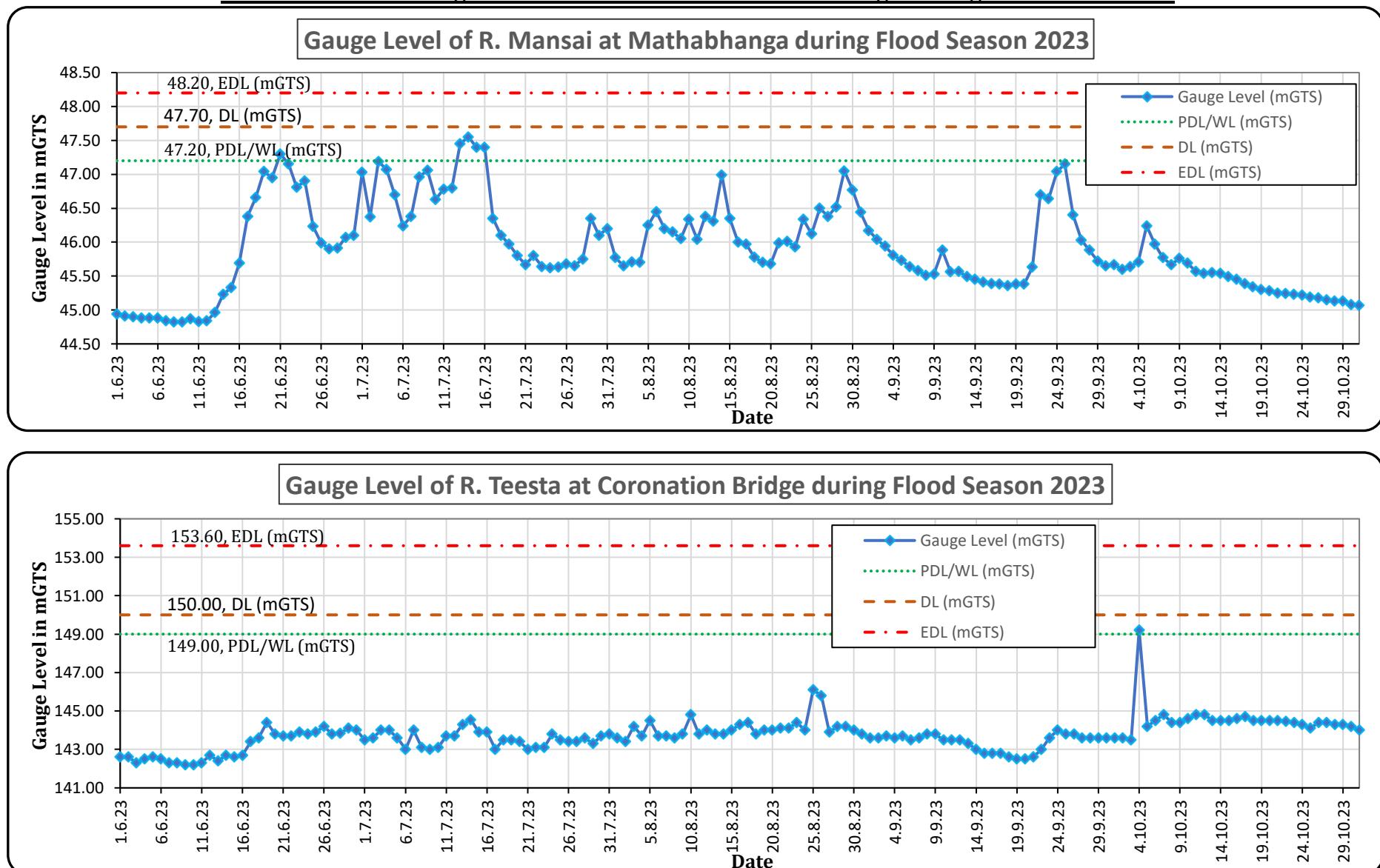
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023****Gauge Level of R. Sankosh at L.R.P. Crossing during Flood Season 2023****Gauge Level of R. Raidak-II at L.R.P. Crossing during Flood Season 2023**

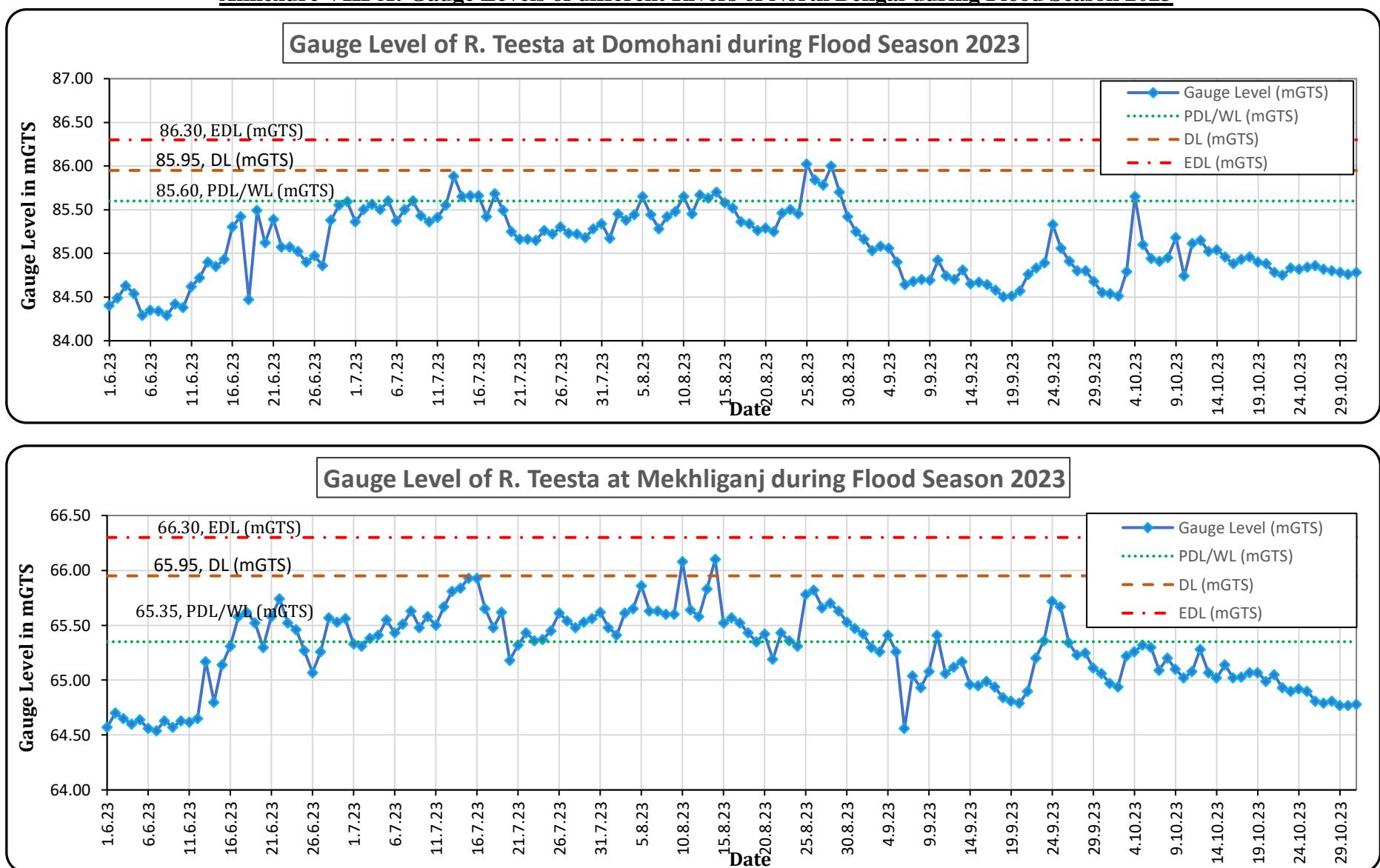
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023**

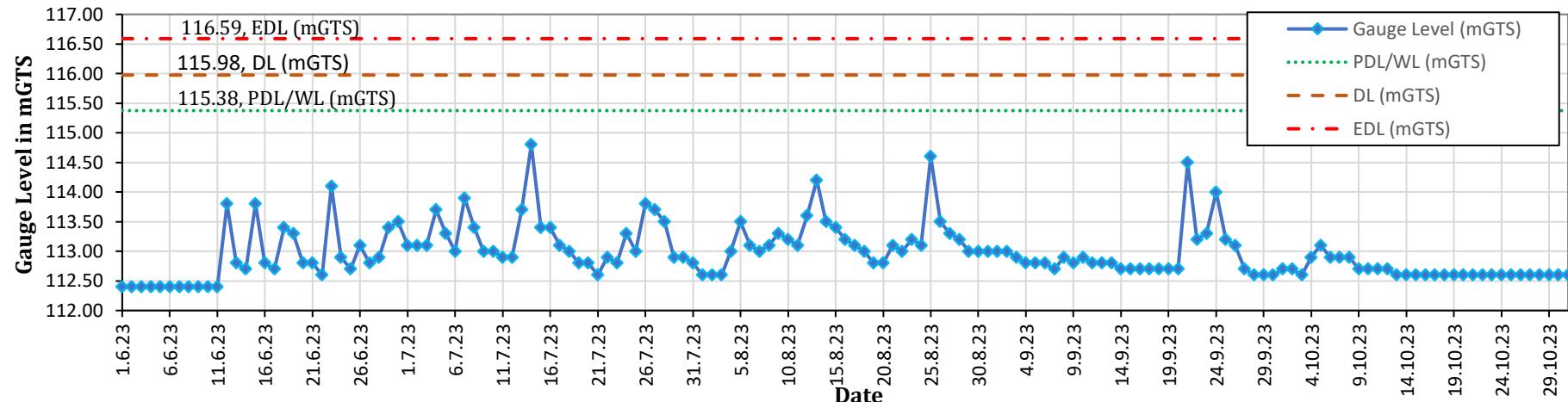
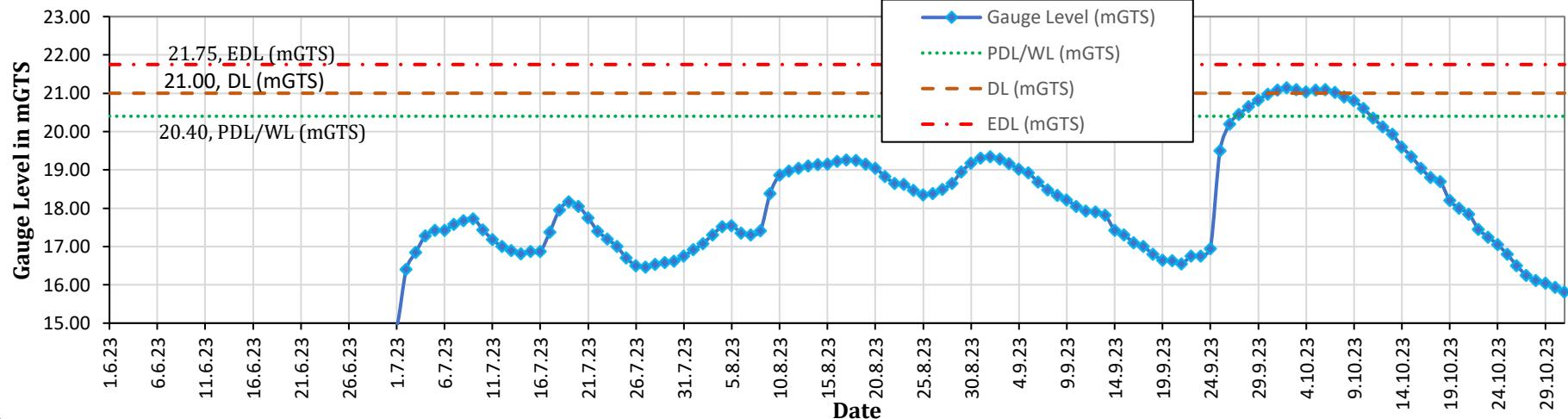
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023**

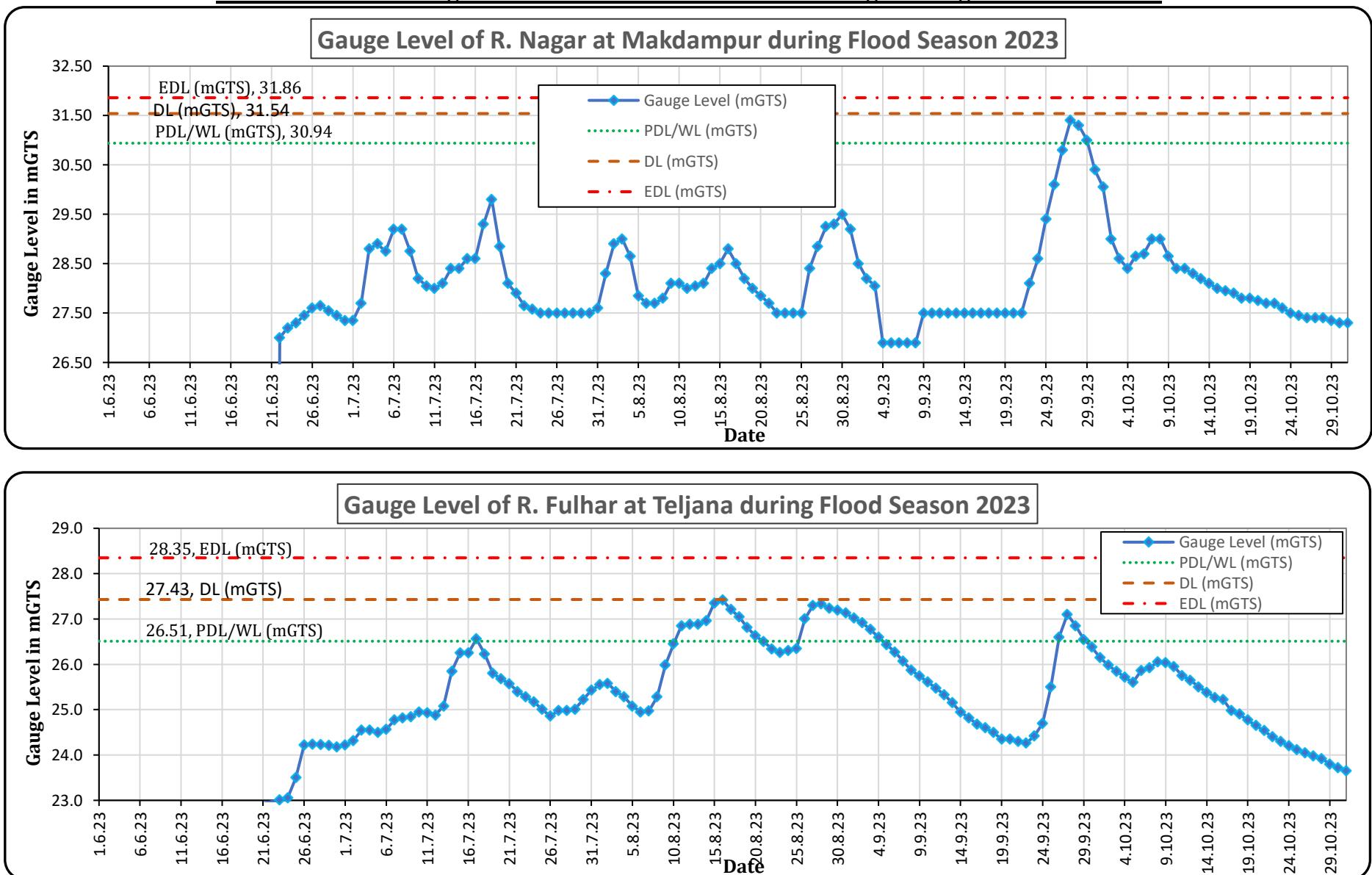
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023****Gauge Level of R. Kaljani at Alipurduar during Flood Season 2023****Gauge Level of R. Diana at Chengmari during Flood Season 2023**

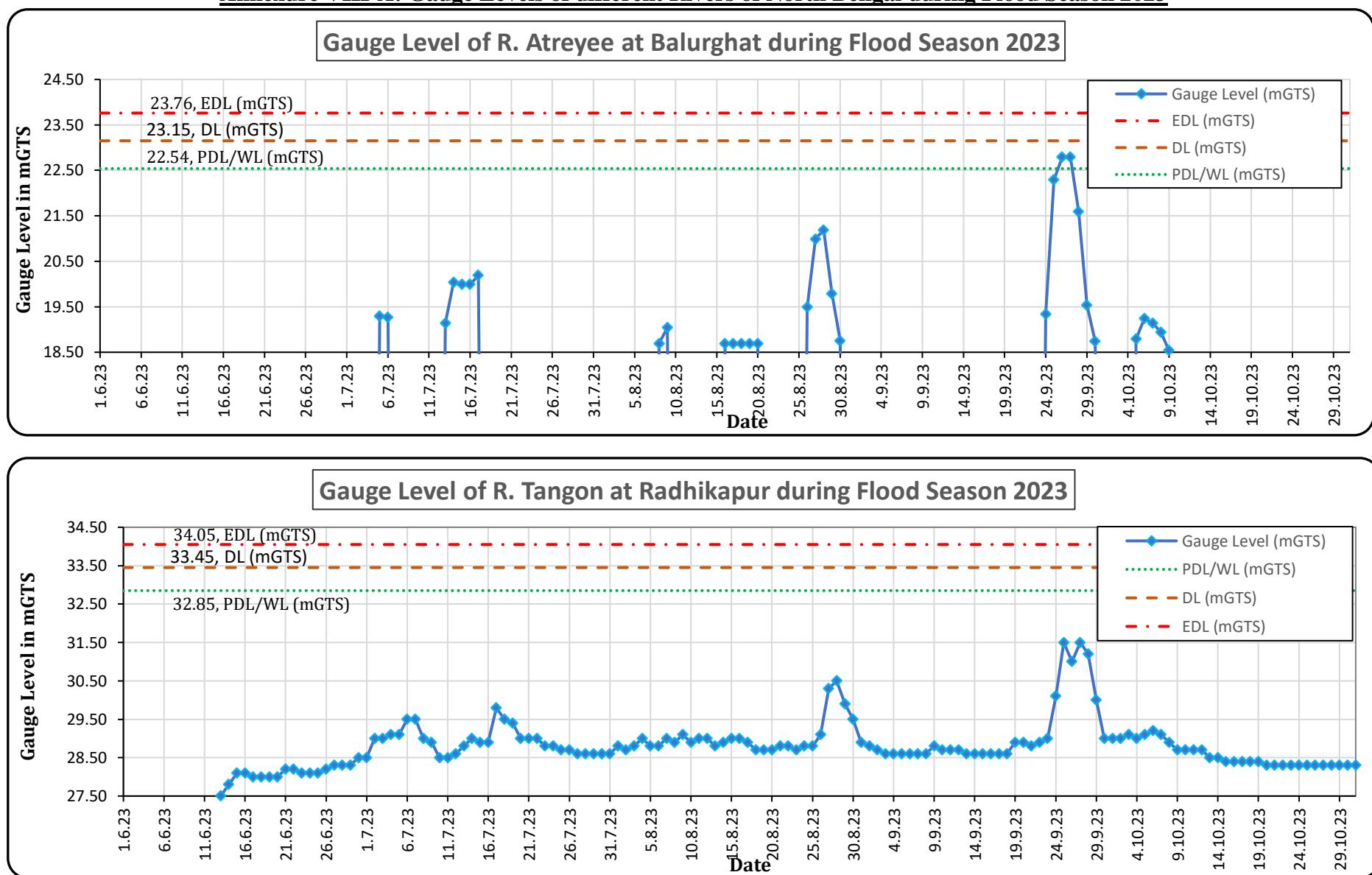
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023****Gauge Level of R. Jaldhaka at Nagrakata during Flood Season 2023****Gauge Level of R. Jaldhaka at NH-31 Crossing during Flood Season 2023**

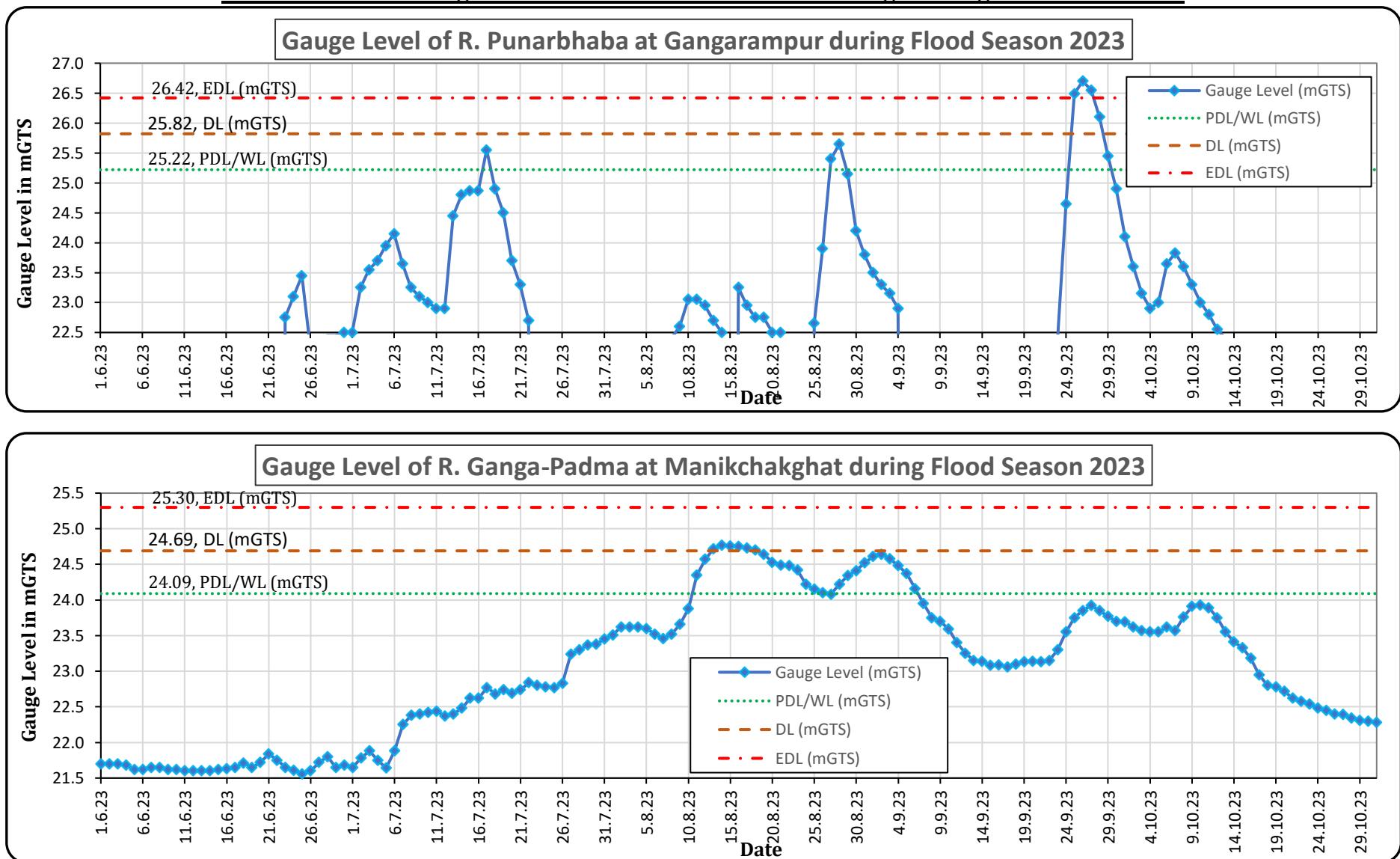
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023**

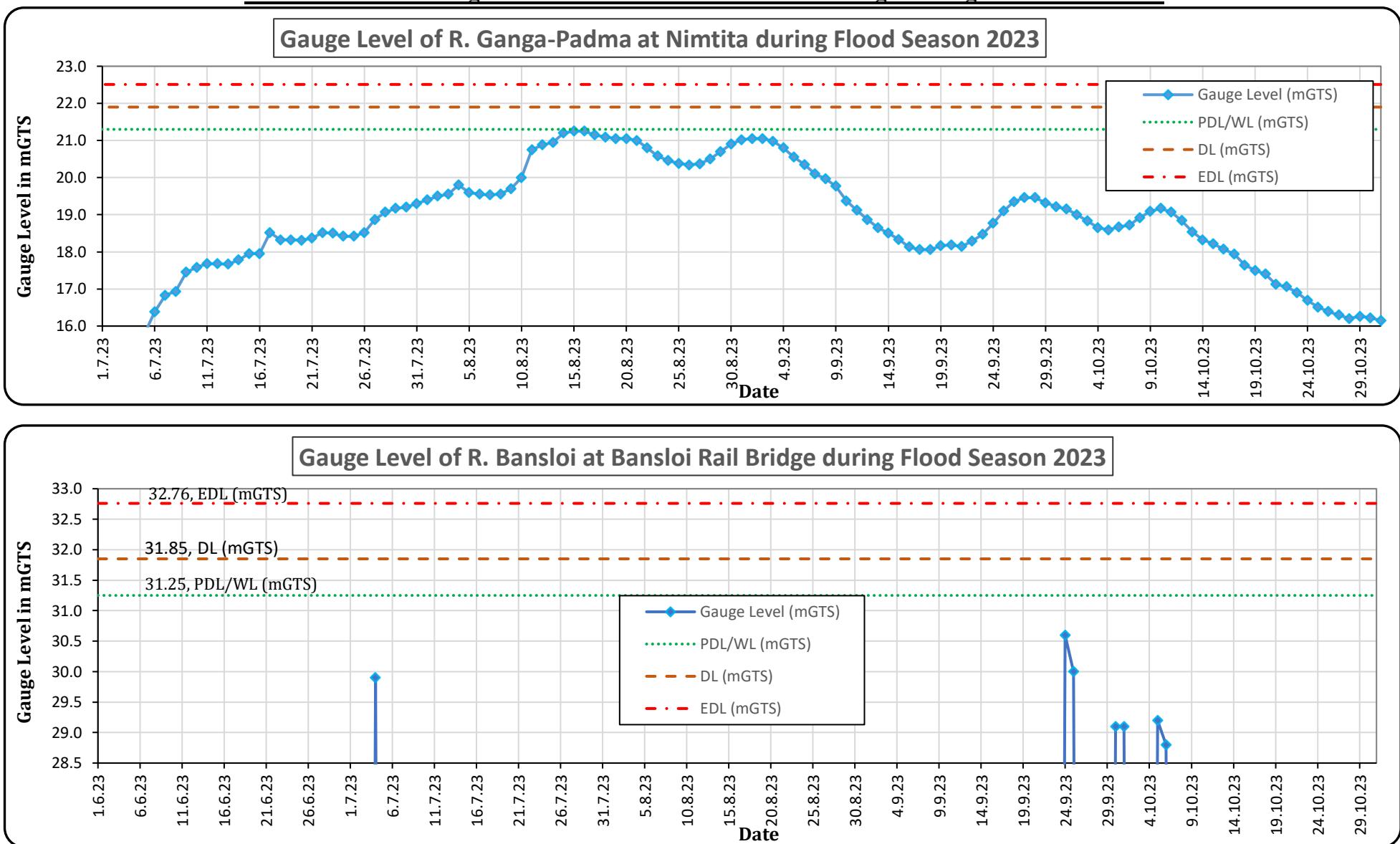
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023**

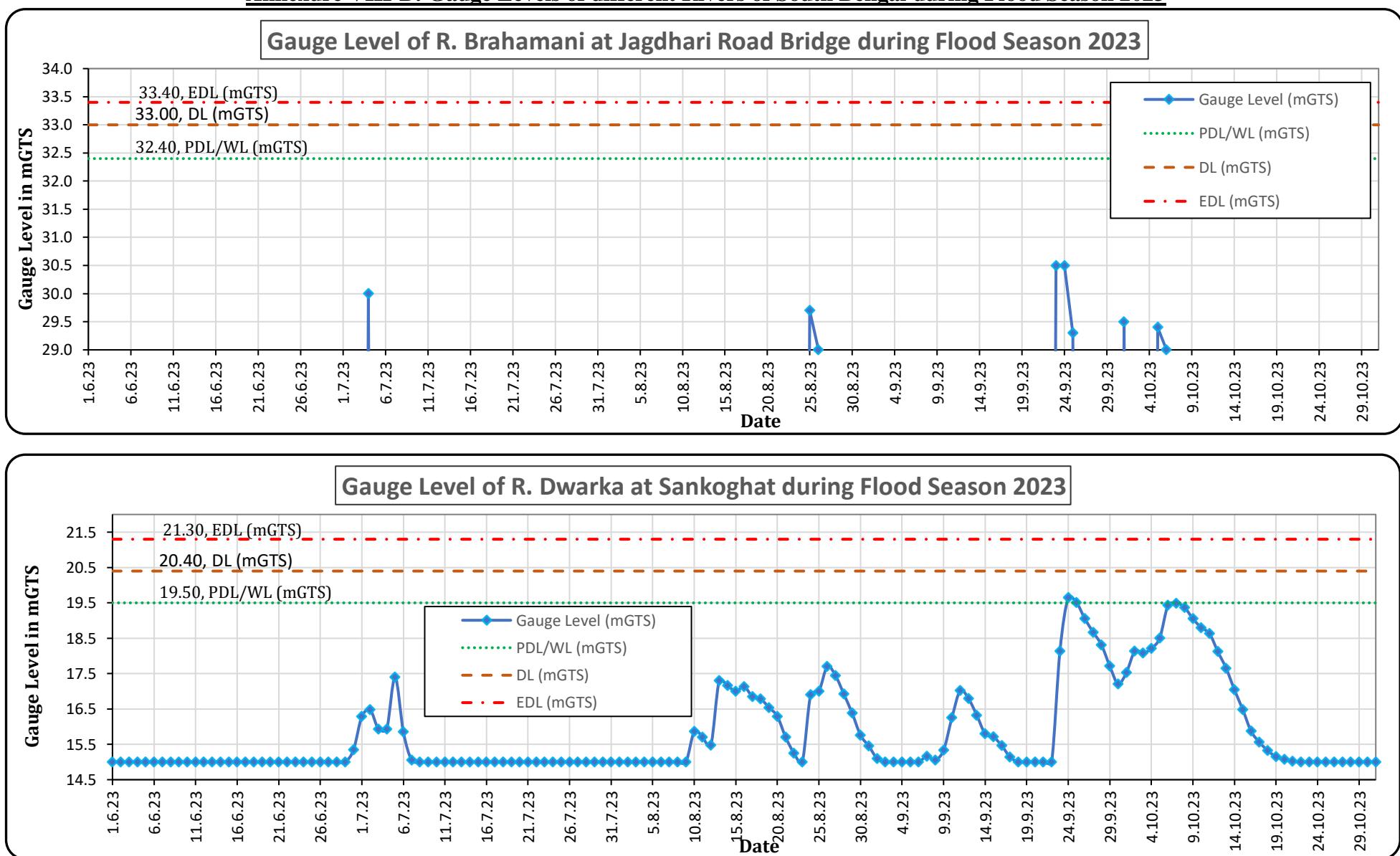
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023****Gauge Level of R. Mahananda at Hill Cart Road during Flood Season 2023****Gauge Level of R. Mahananda at English Bazar during Flood Season 2023**

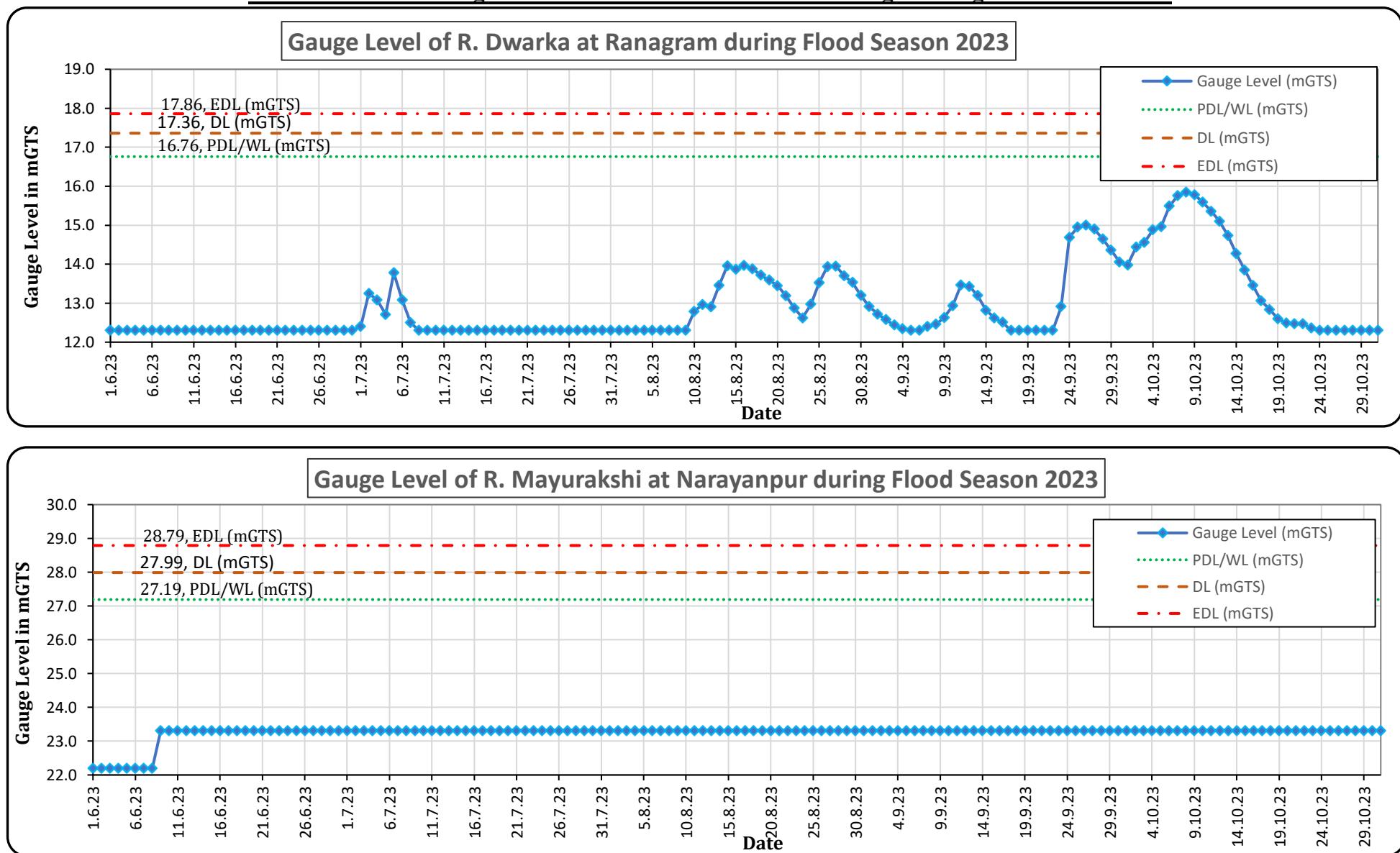
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023**

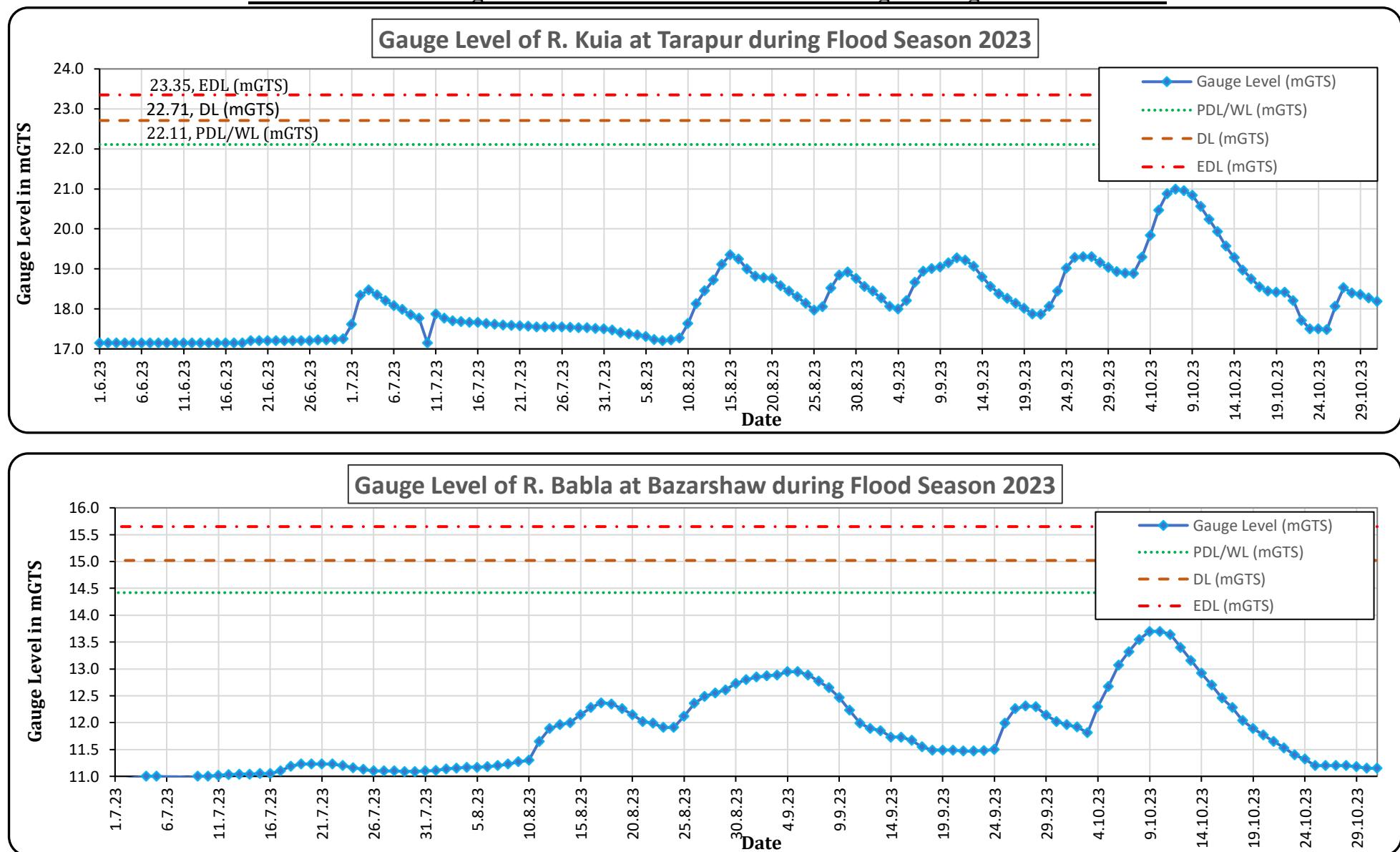
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023**

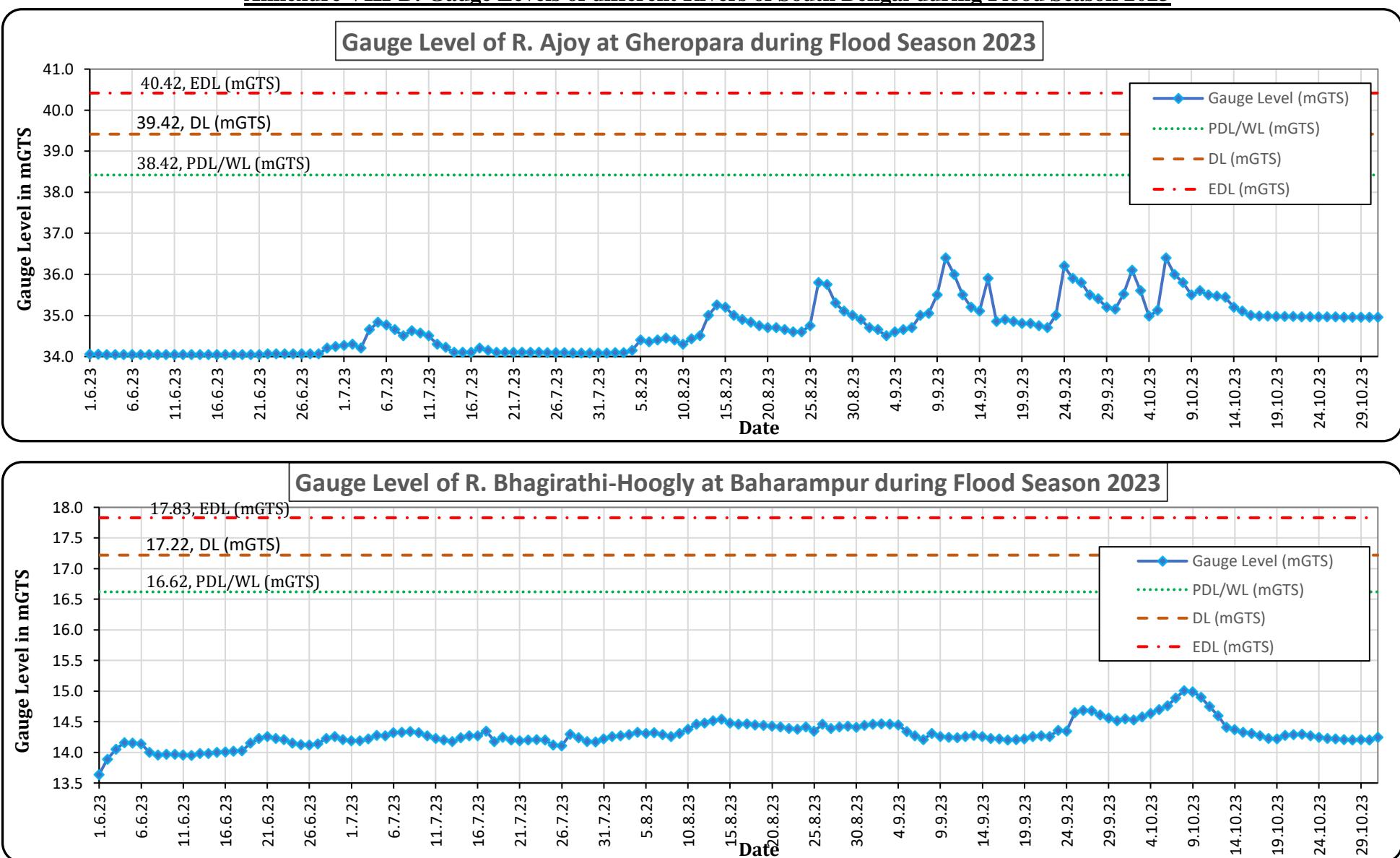
**Annexure VIII-A: Gauge Levels of different Rivers of North Bengal during Flood Season 2023**

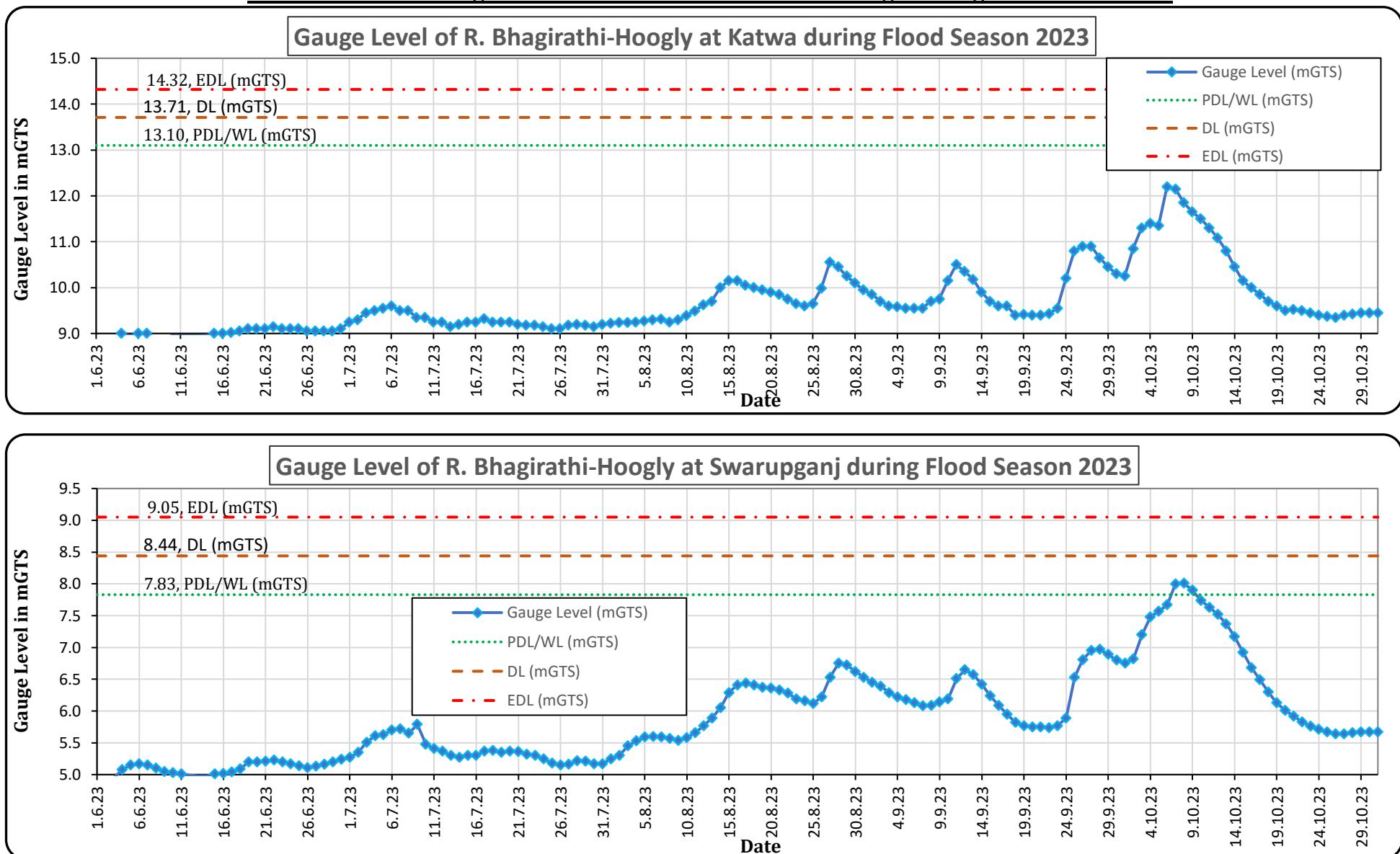
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

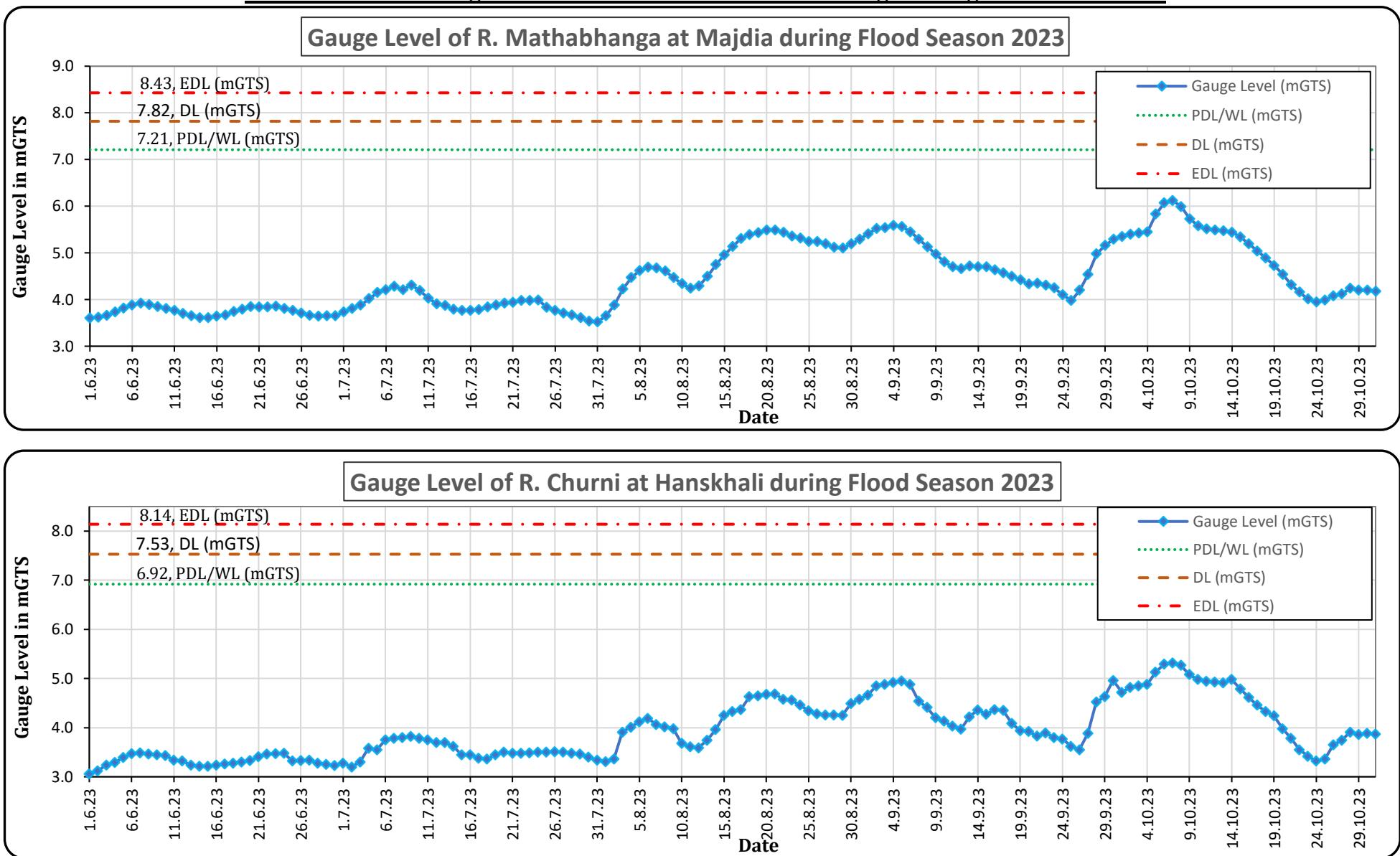
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

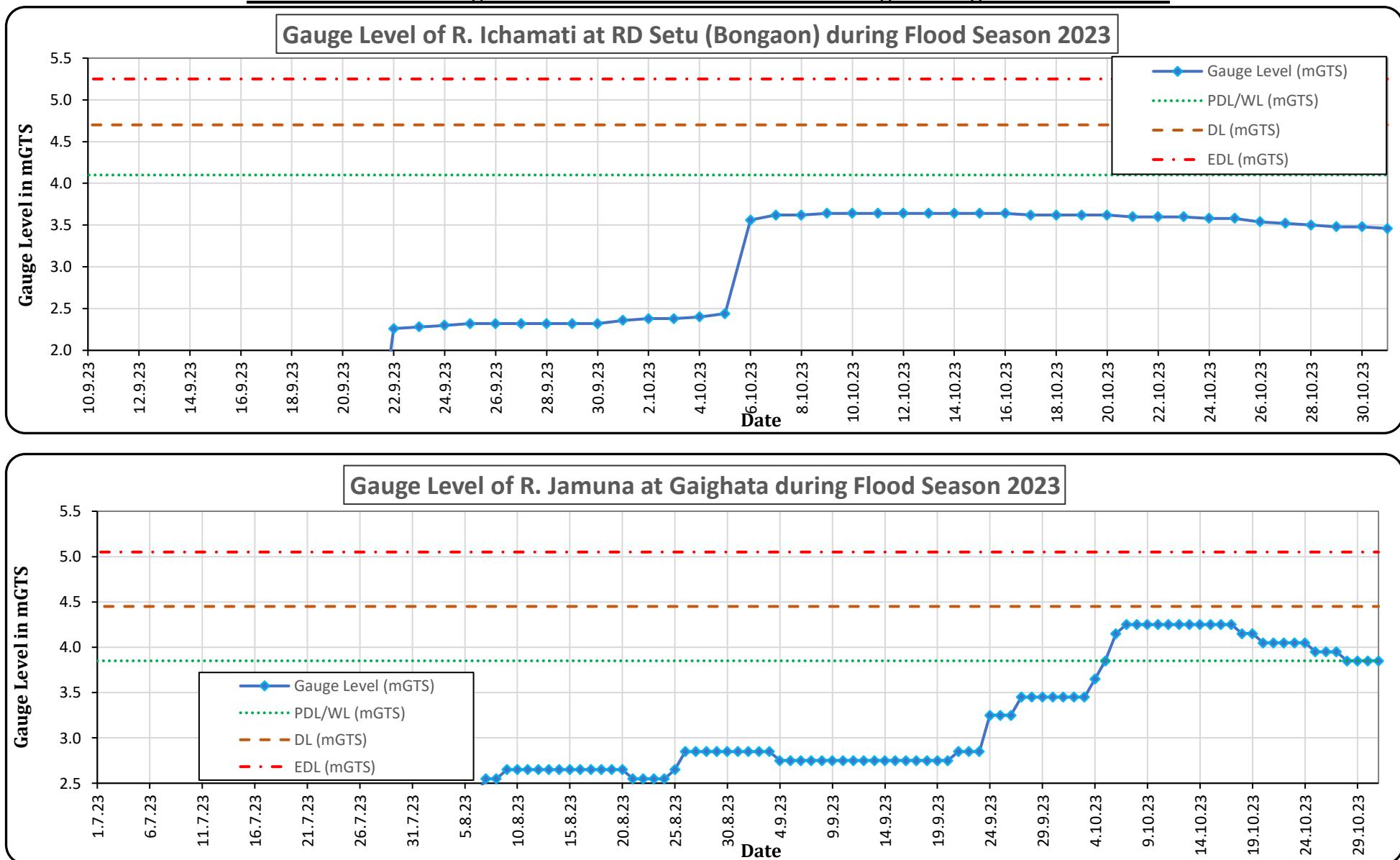
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

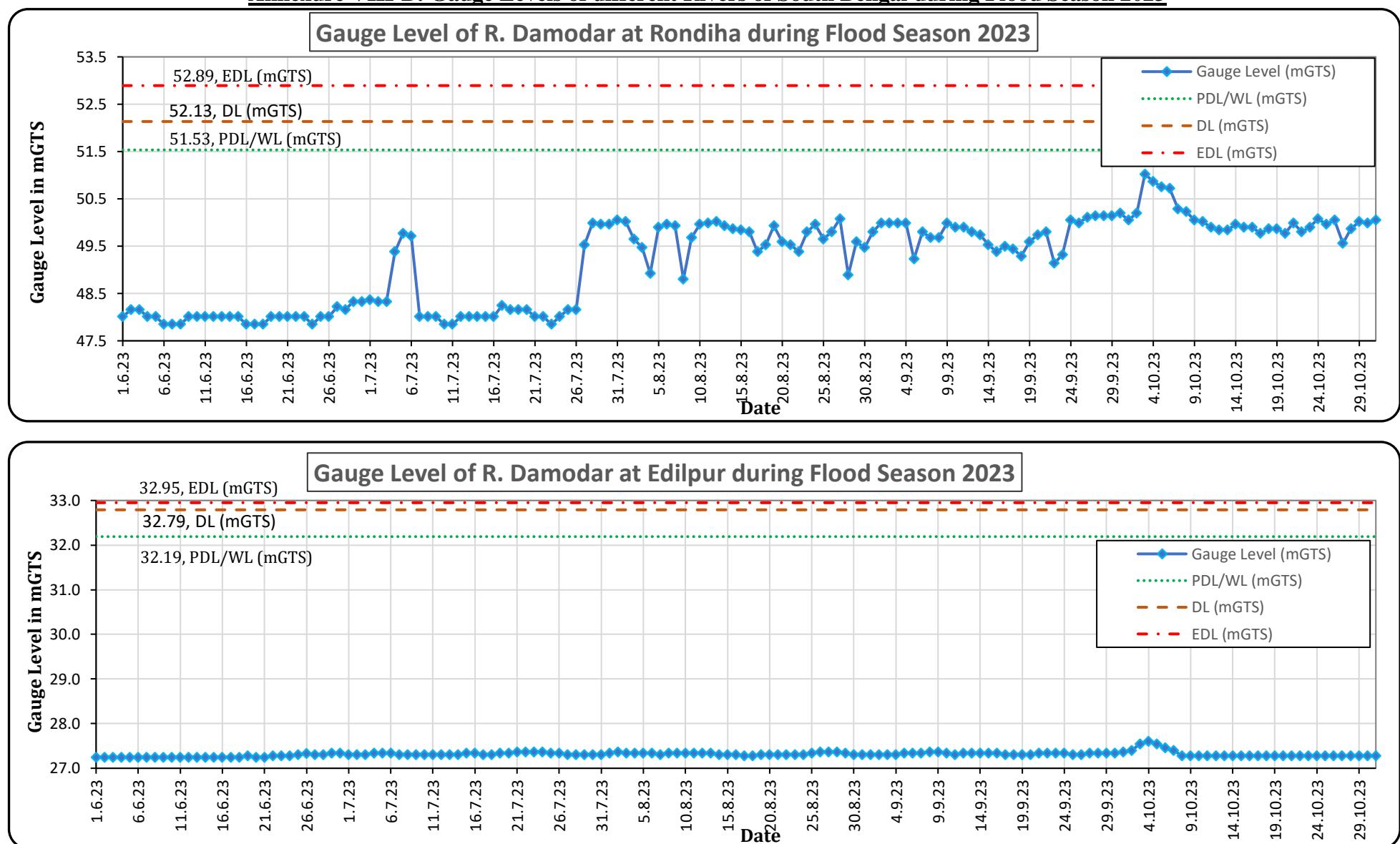
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

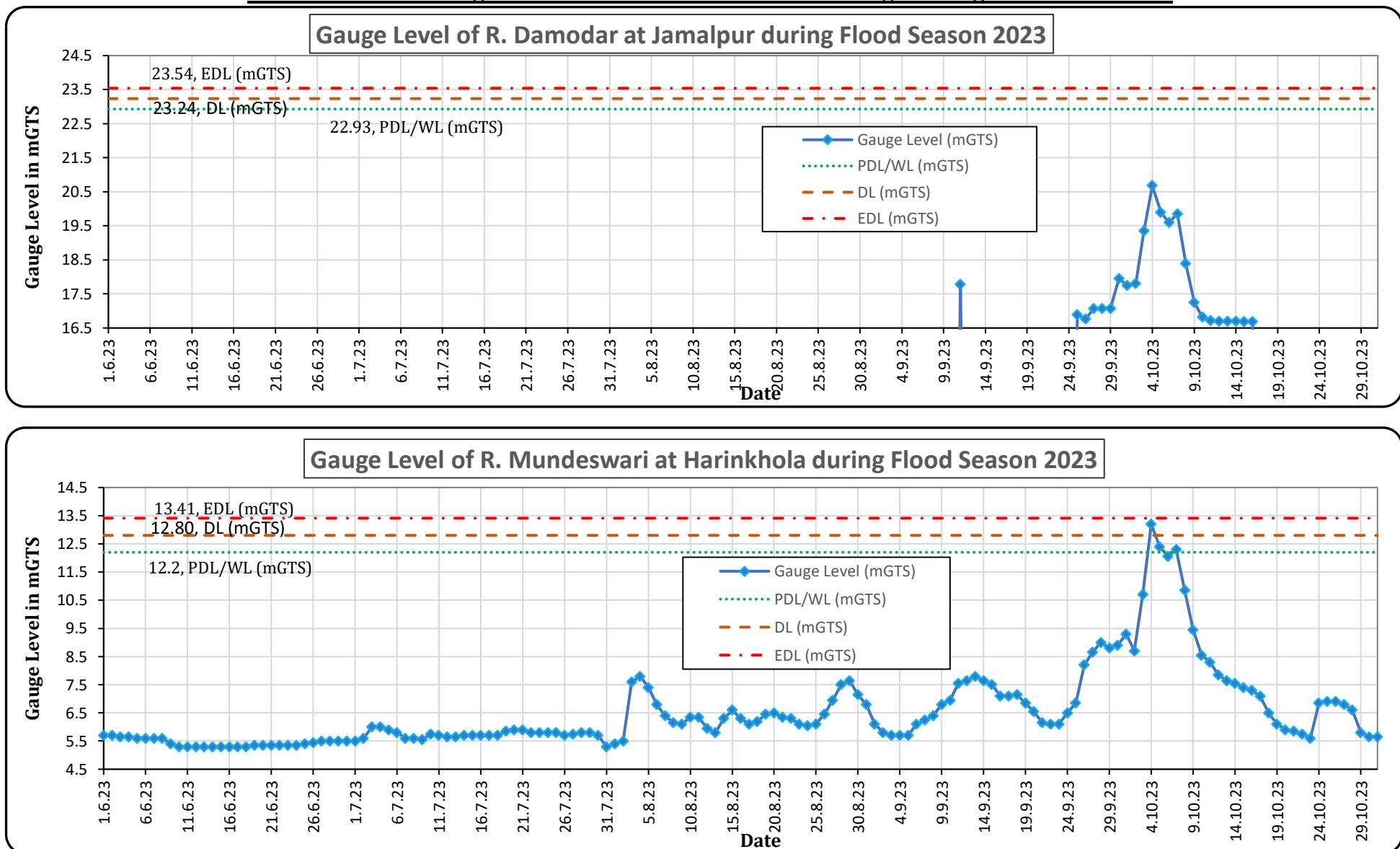
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

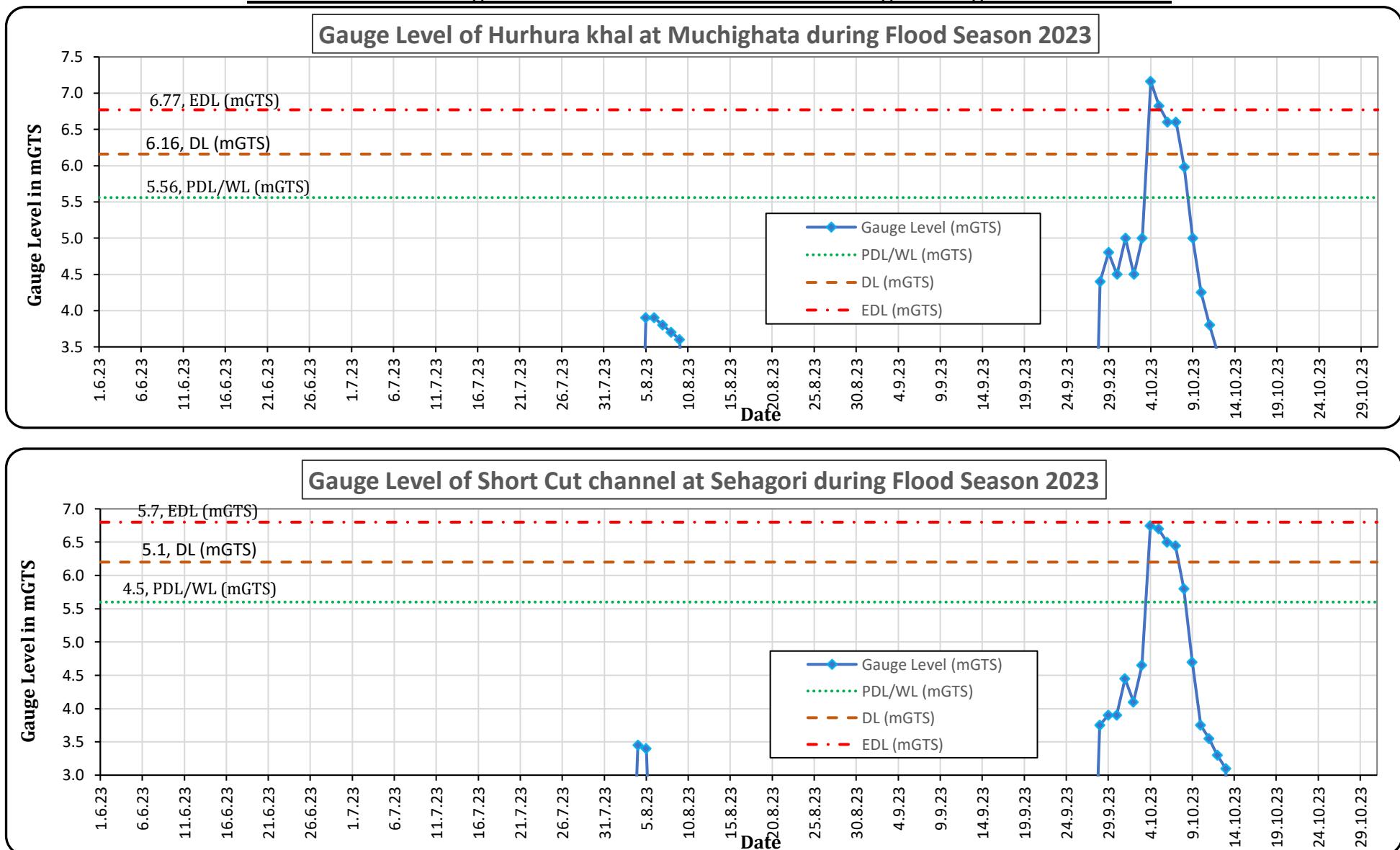
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

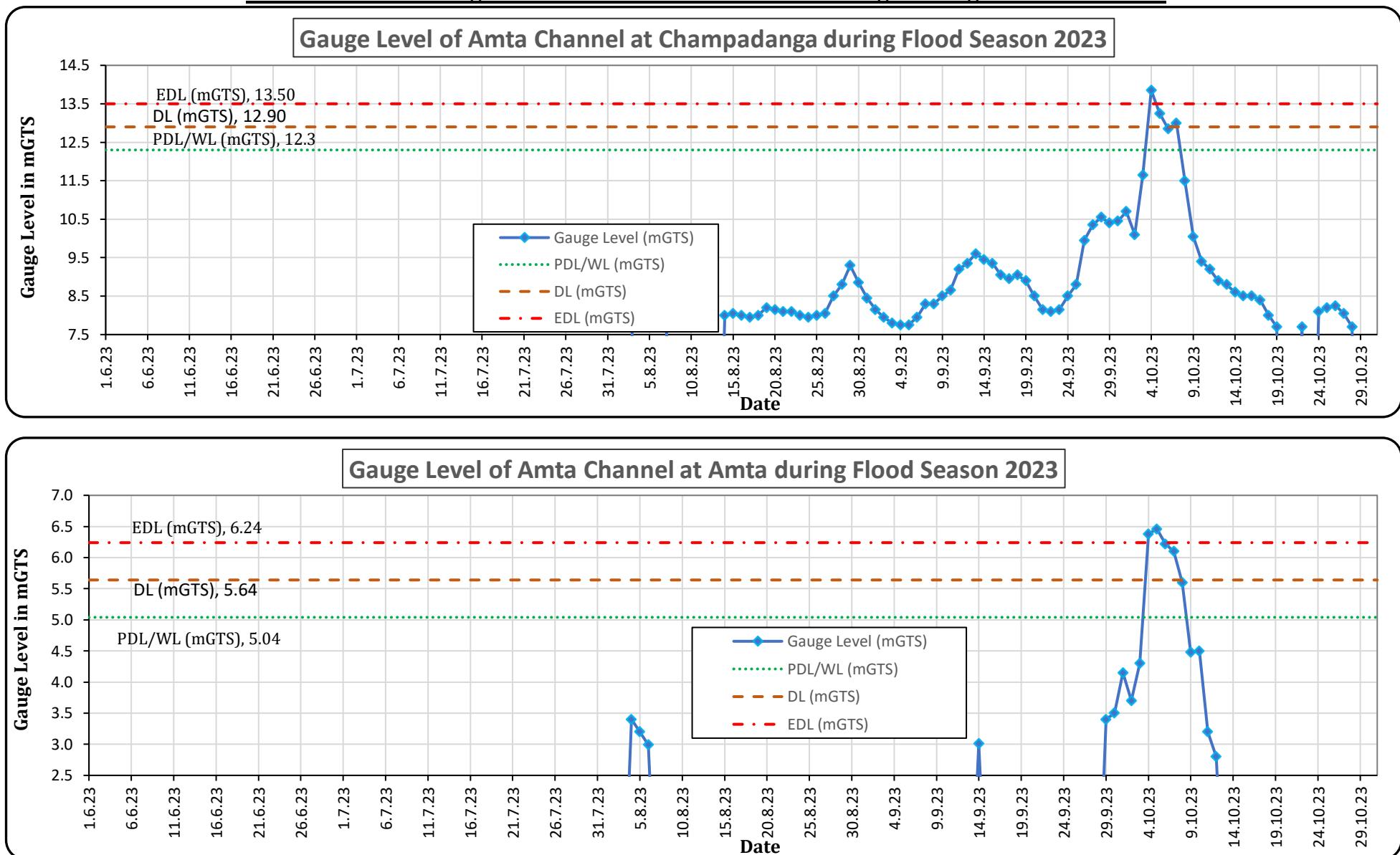
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

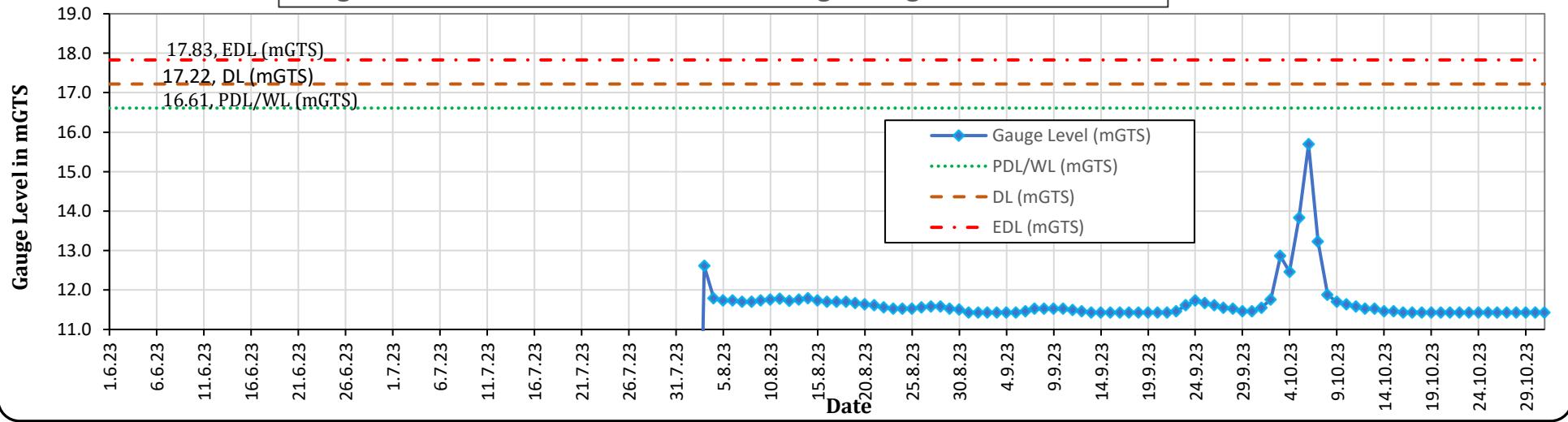
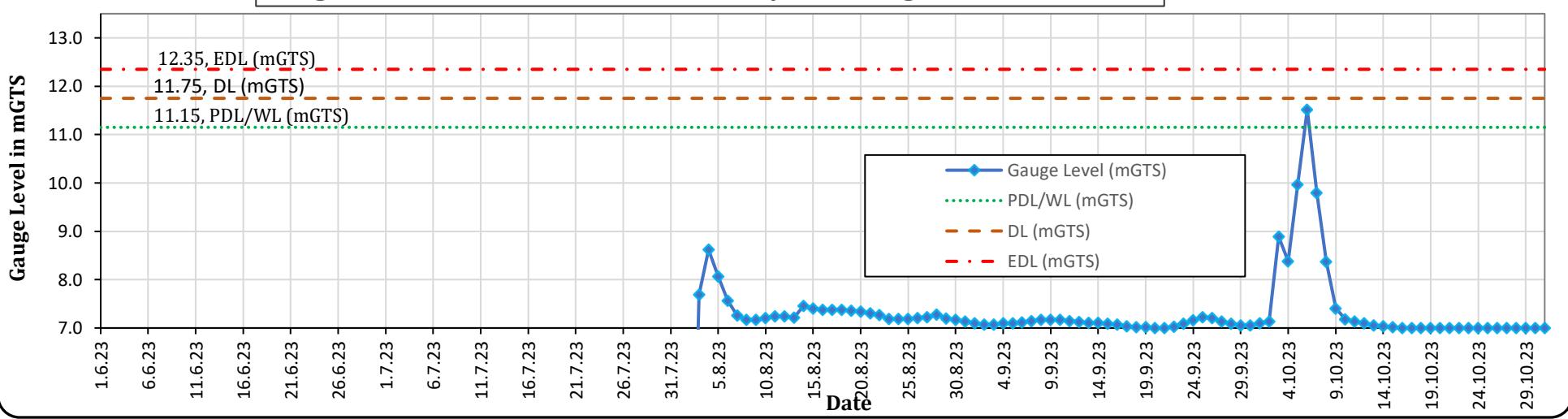
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

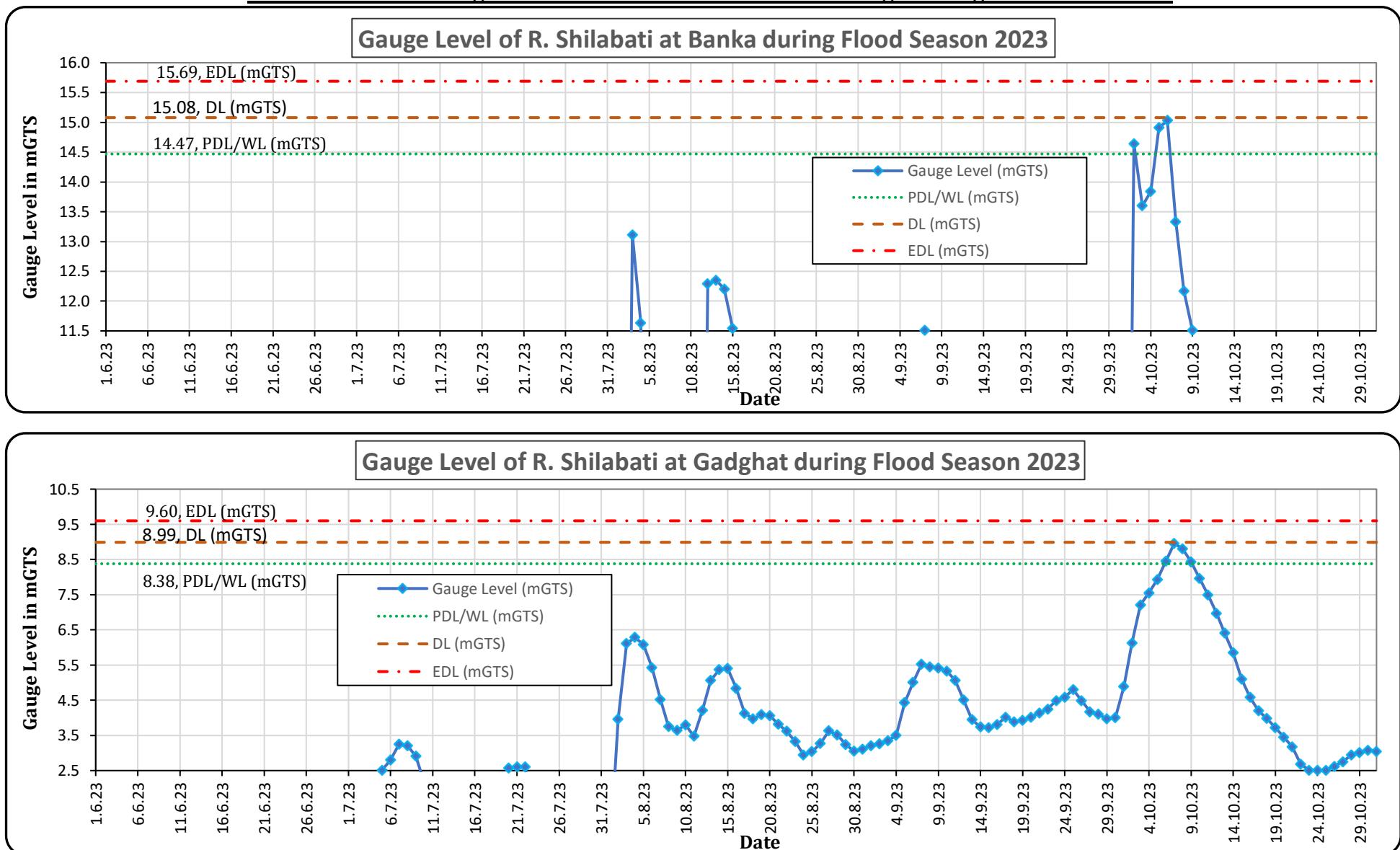
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

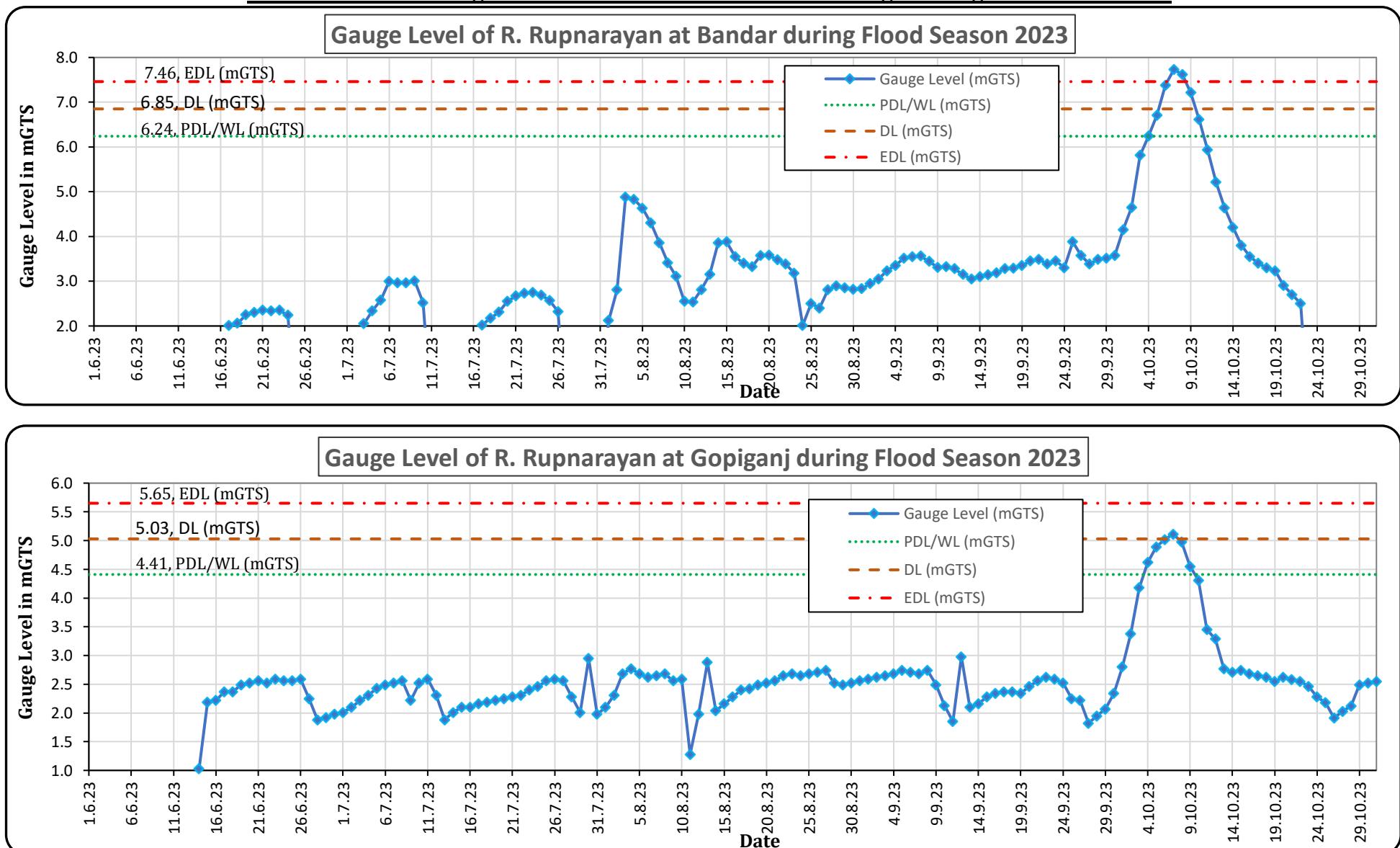
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

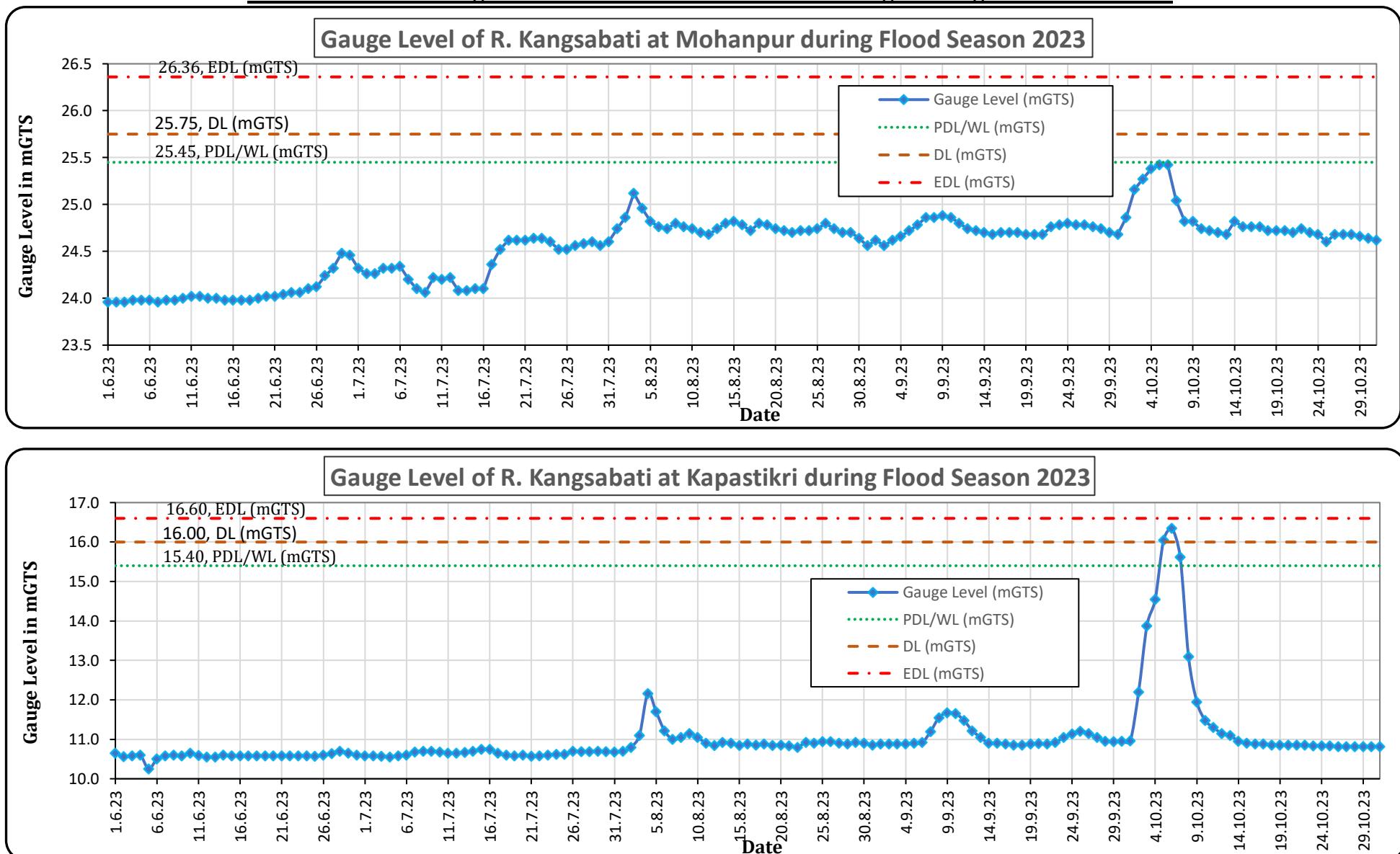
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

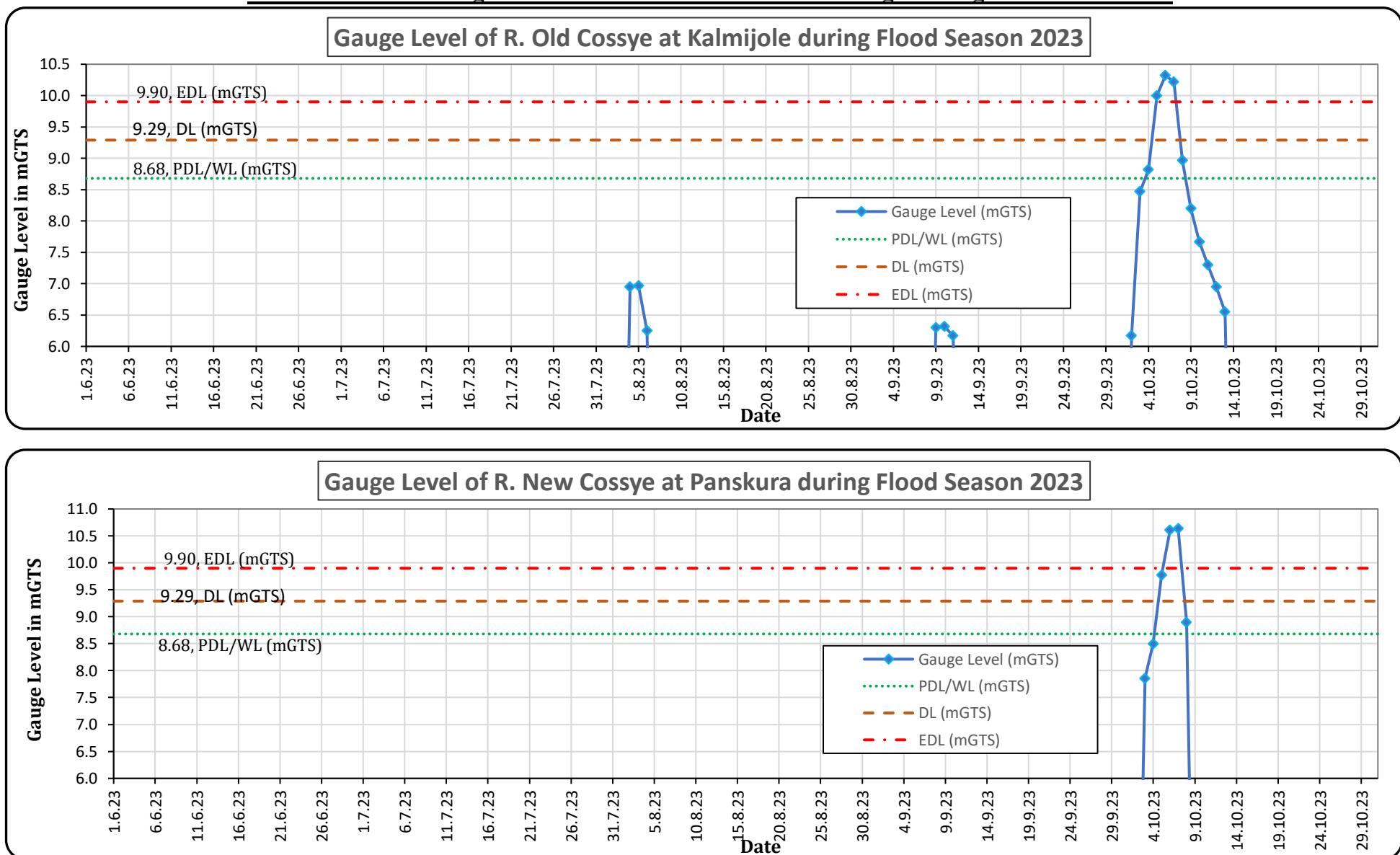
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

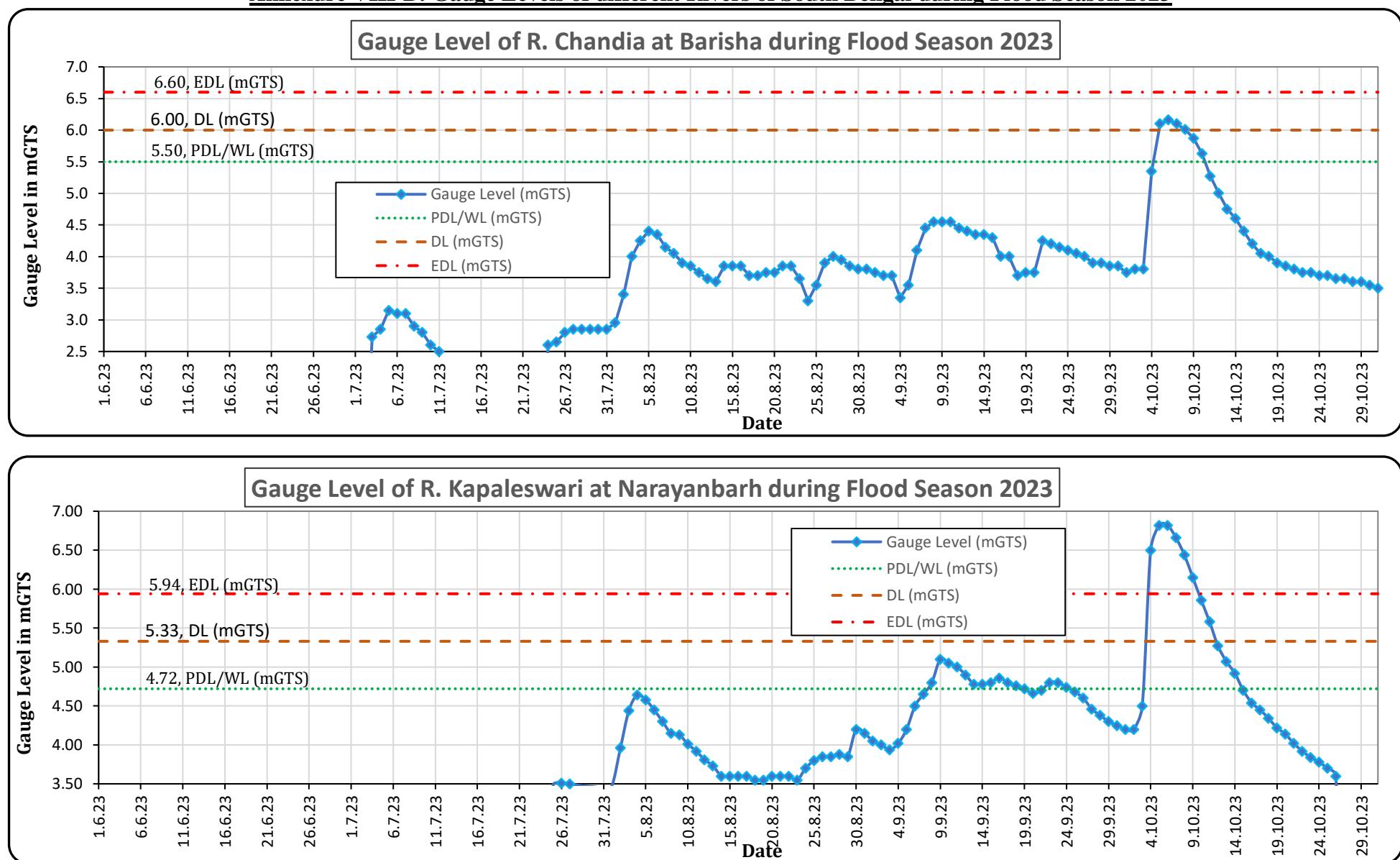
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023****Gauge Level of R. Dwarakeswar at Arambag during Flood Season 2023****Gauge Level of R. Dwarakeswar at Shakespore during Flood Season 2023**

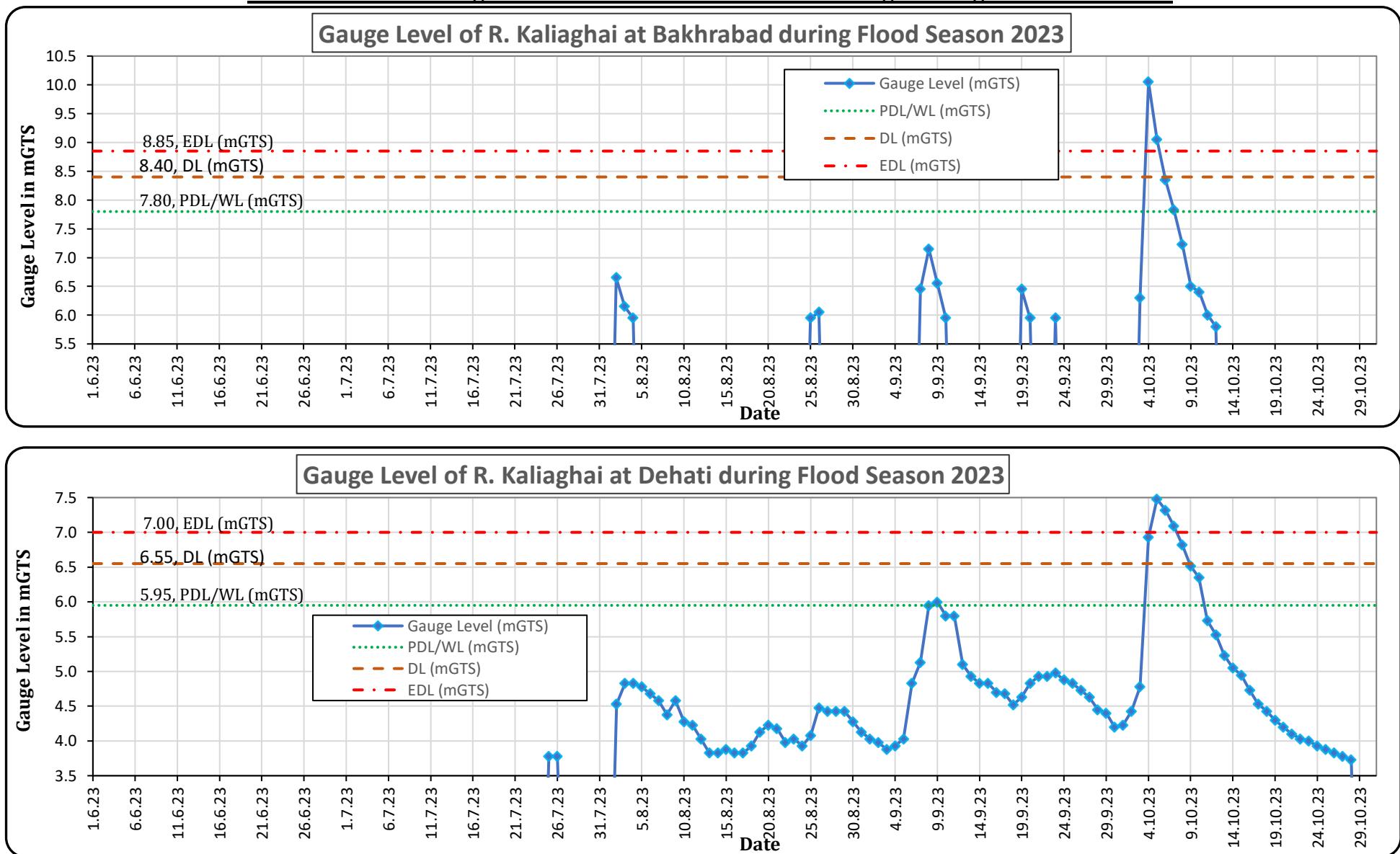
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

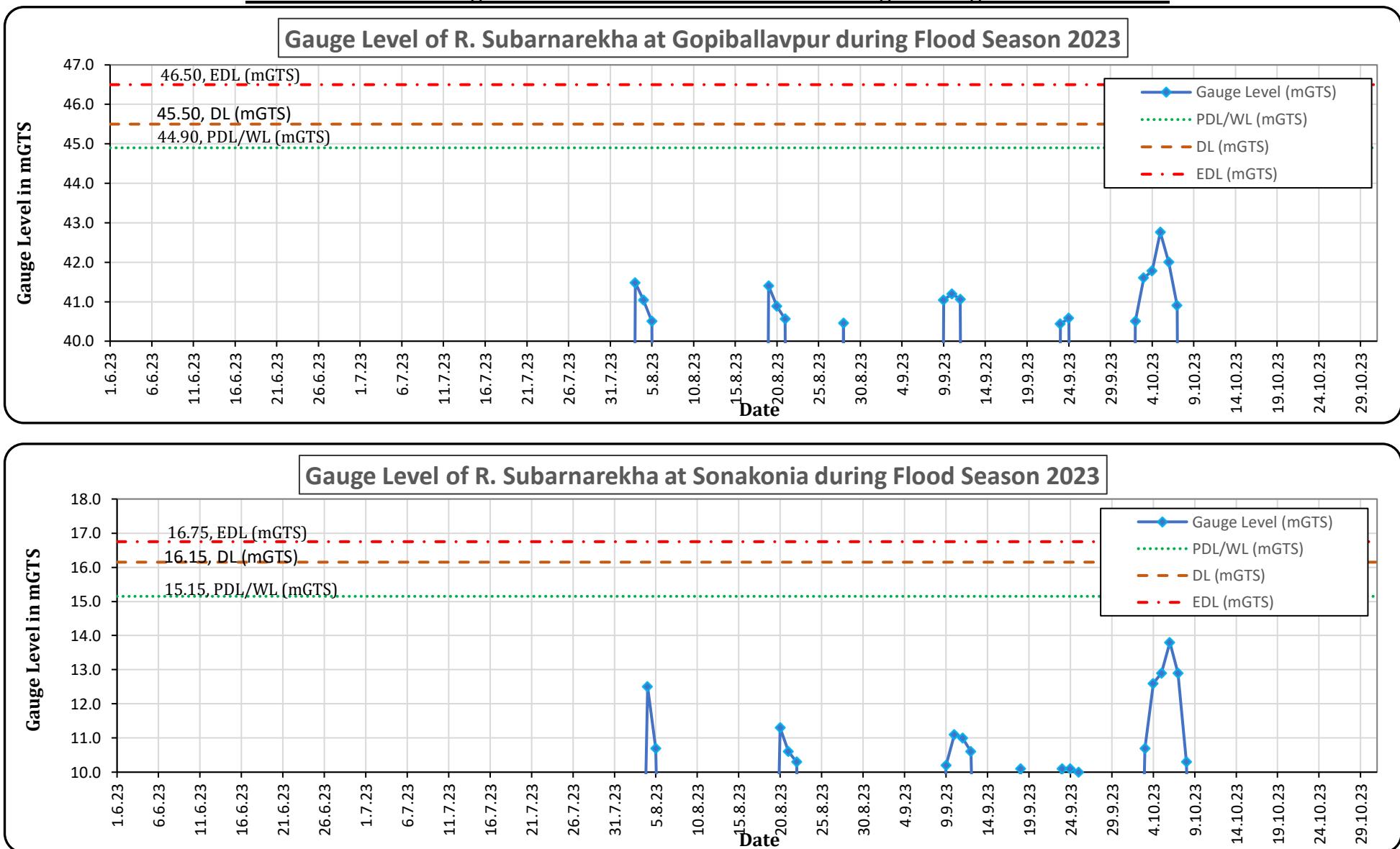
**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

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**Annexure VIII-B: Gauge Levels of different Rivers of South Bengal during Flood Season 2023**

**Annexure IX-A: Monthly Statistics of Dam-Barrage Operation during Flood Season, 2023**

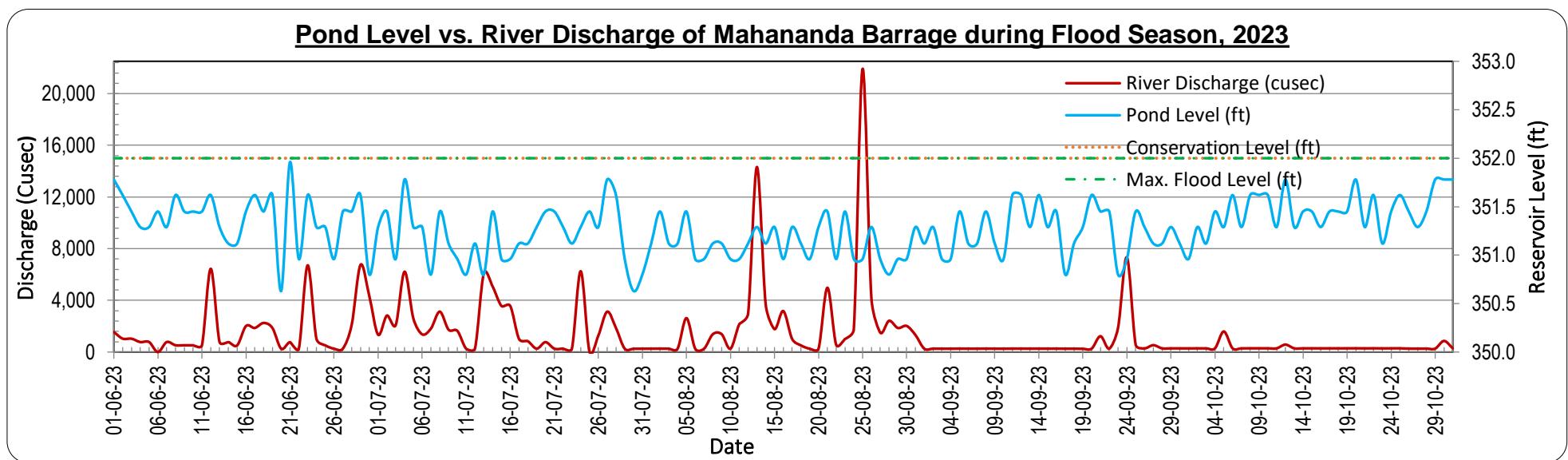
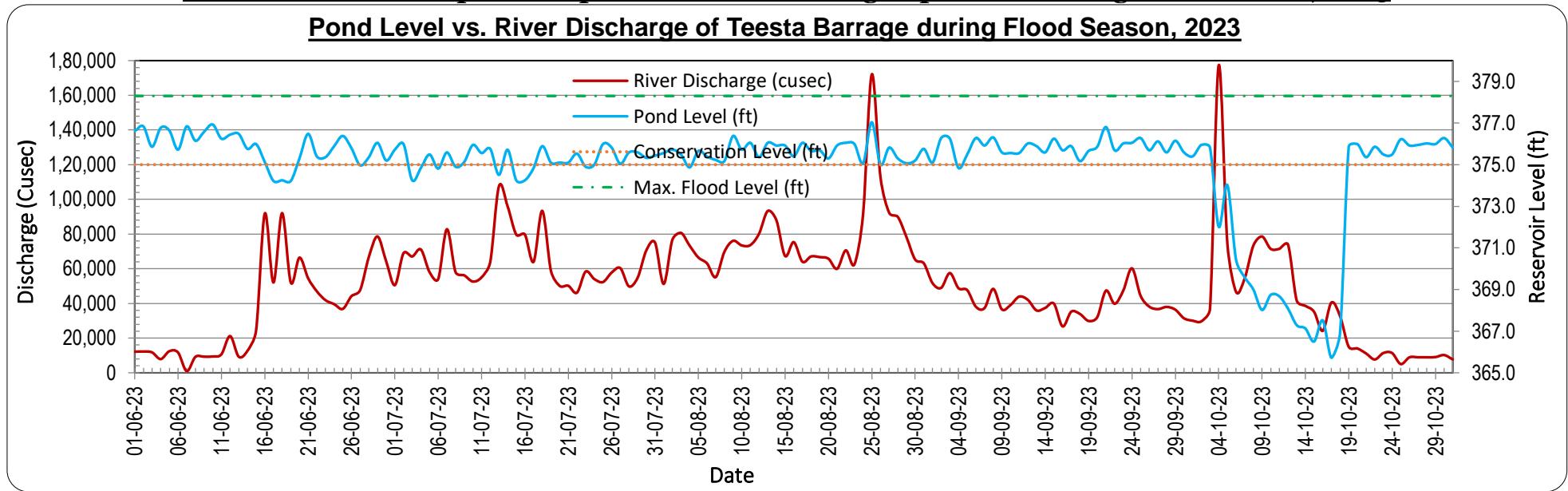
Sl. No.	River Sub Basin	Name of Reservoir	Conservation Level (ft)	Max. Flood Level (ft)	Monthly Avg. Reservoir Level (ft)					Max. Reservoir Level (ft)	Min. Reservoir Level (ft)
					Jun-23	Jul-23	Aug-23	Sep-23	Oct-23		
1	Mayurakshi	Massanjore dam	398.00	398.00	366.97	368.14	367.81	371.33	382.86	386.35	366.60
2	Ajoy	Hinglow Dam	321.00	324.00	308.50	308.50	310.91	312.92	313.11	316.70	308.50
3	Damodar	Tenughat Dam	852.00	864.00	843.73	844.14	847.92	852.95	855.05	856.74	842.73
4	Damodar	Maithon Dam	480.00	495.00	462.02	460.97	460.77	479.36	487.27	490.67	456.39
5	Damodar	Panchet Dam	410.00	435.00	400.72	399.96	401.69	411.31	416.32	420.10	395.17
6	Kangsabati	Mukutmanipur	434.00	440.00	405.12	404.83	412.84	417.00	430.51	432.80	404.80
7	Subarnarekha	Chandil dam	630.00	630.00	582.01	580.80	592.94	595.59	596.06	596.94	580.05

Sl. No.	River Sub Basin	Name of Barrage	Max. Flood Level (ft)	Pond Level (ft)	Monthly Avg. Water Level (ft)					Max. Water Level (ft)	Min. Water Level (ft)
					Jun-23	Jul-23	Aug-23	Sep-23	Oct-23		
1	Mahananda	Mahananda Barrage	352.00	352.00	351.38	351.20	351.14	351.24	351.46	351.96	350.63
2	Teesta	Teesta Barrage	378.30	375.00	375.86	375.26	375.68	375.84	372.36	377.04	365.72
3	Mayurakshi	Tilpara Barrage	206.00	206.00	190.50	193.35	203.83	203.31	204.29	205.50	190.50
4	Ajoy	Sikatia Barrage	559.70	558.00	554.88	555.28	555.58	555.67	554.88	557.41	552.59
5	Damodar	Durgapur Barrage	211.50	211.50	211.50	211.48	211.50	211.44	211.50	211.00	211.00
6	Subarnarekha	Galudih Barrage	332.00	310.00	280.44	296.55	301.75	301.83	302.00	302.82	279.49

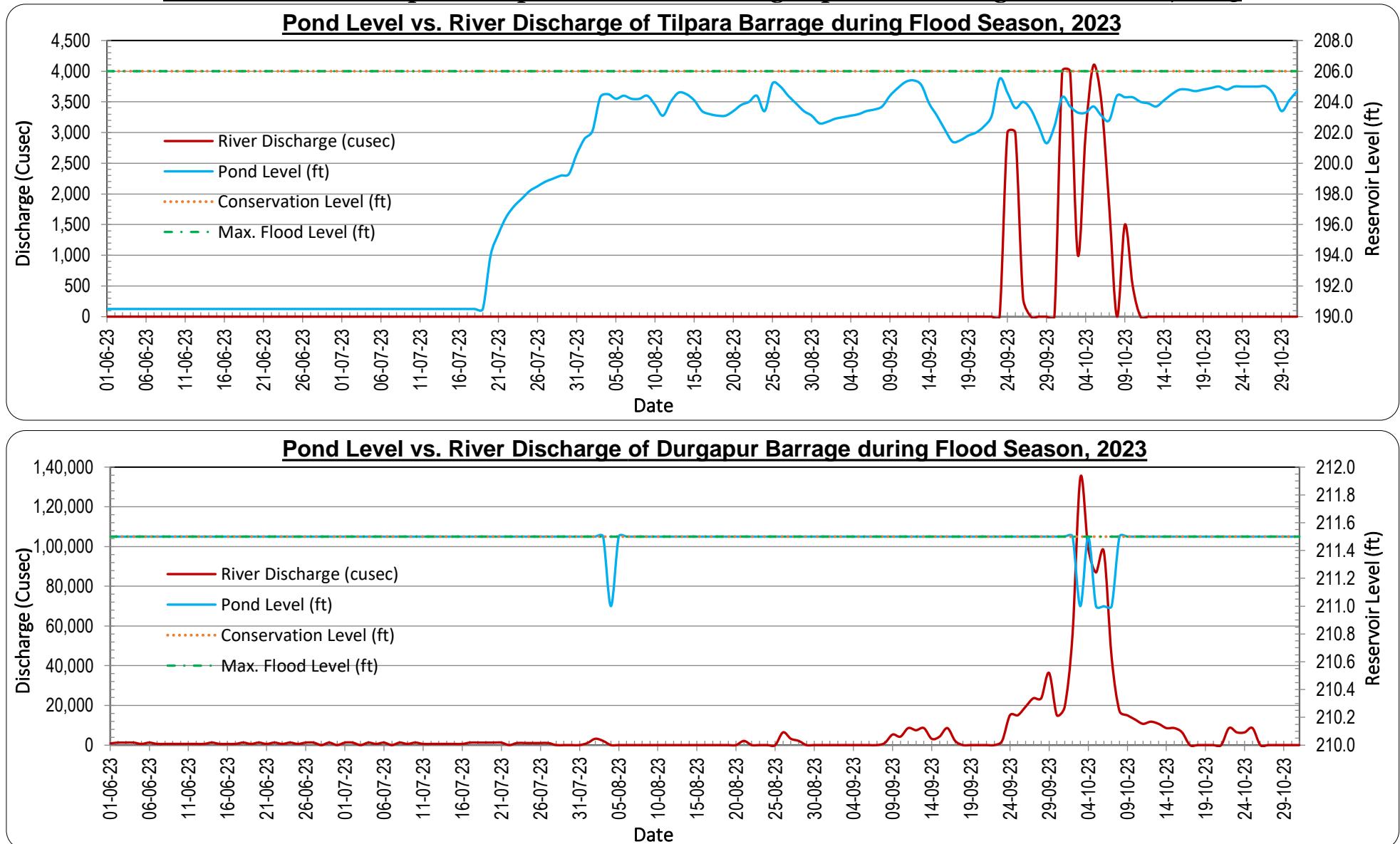
Name of Reservoir	Monthly Avg. Inflow (Acre-ft)					Max. Inflow (Ac.ft)	Min. Inflow (Ac.ft)	Monthly Avg. Outflow (Ac.ft)					Max. Outflow (Ac.ft)	Min. Outflow (Ac.ft)
	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23			Jun-23	Jul-23	Aug-23	Sep-23	Oct-23		
Massanjore Dam	153	405	894	2408	2981	23,500	0	0	0	296	0	2730	5,932	0
Hinglow Dam	0	0	161	329	661	3,926	0	0	0	227	1006	559	11,262	0
Tenughat Dam	735	1084	2604	6364	11456	62,256	0	348	328	347	6029	10382	62,596	46
Maithon Dam	0	1164	3953	12574	16076	84,630	0	208	1042	972	5104	18769	95,485	0
Panchet Dam	956	1444	6082	15829	26652	1,29,576	50	1309	2013	3193	14704	33943	1,79,473	0
Mukutmanipur Dam	5	0	5636	7541	14845	1,53,942	0	5	0	1069	4369	10866	62,167	0
Chandil Dam	-	-	-	-	-	-	-	904	878	7757	19256	33467	1,22,737	870

Name of Barrage	Design Discharge (cusec)	Monthly Avg. River Discharge down the Barrage (cusec)					Maximum River Discharge (cusec)	Minimum River Discharge (cusec)
		Jun-23	Jul-23	Aug-23	Sep-23	Oct-23		
Mahananda Barrage	80,000	1592	1955	2607	605	354	21,915	0
Teesta Barrage	7,09,800	35030	64427	76960	41038	37442	1,77,245	964
Tilpara Barrage	3,00,000	0	0	0	210	755	4,100	0
Sikatia Barrage	3,53,150	73	127	903	1547	2310	17,000	0
Durgapur Barrage	5,50,000	855	798	698	6823	21629	1,34,725	50
Galudih Barrage	12,51,210	912	1646	23926	26681	48750	1,65,932	481

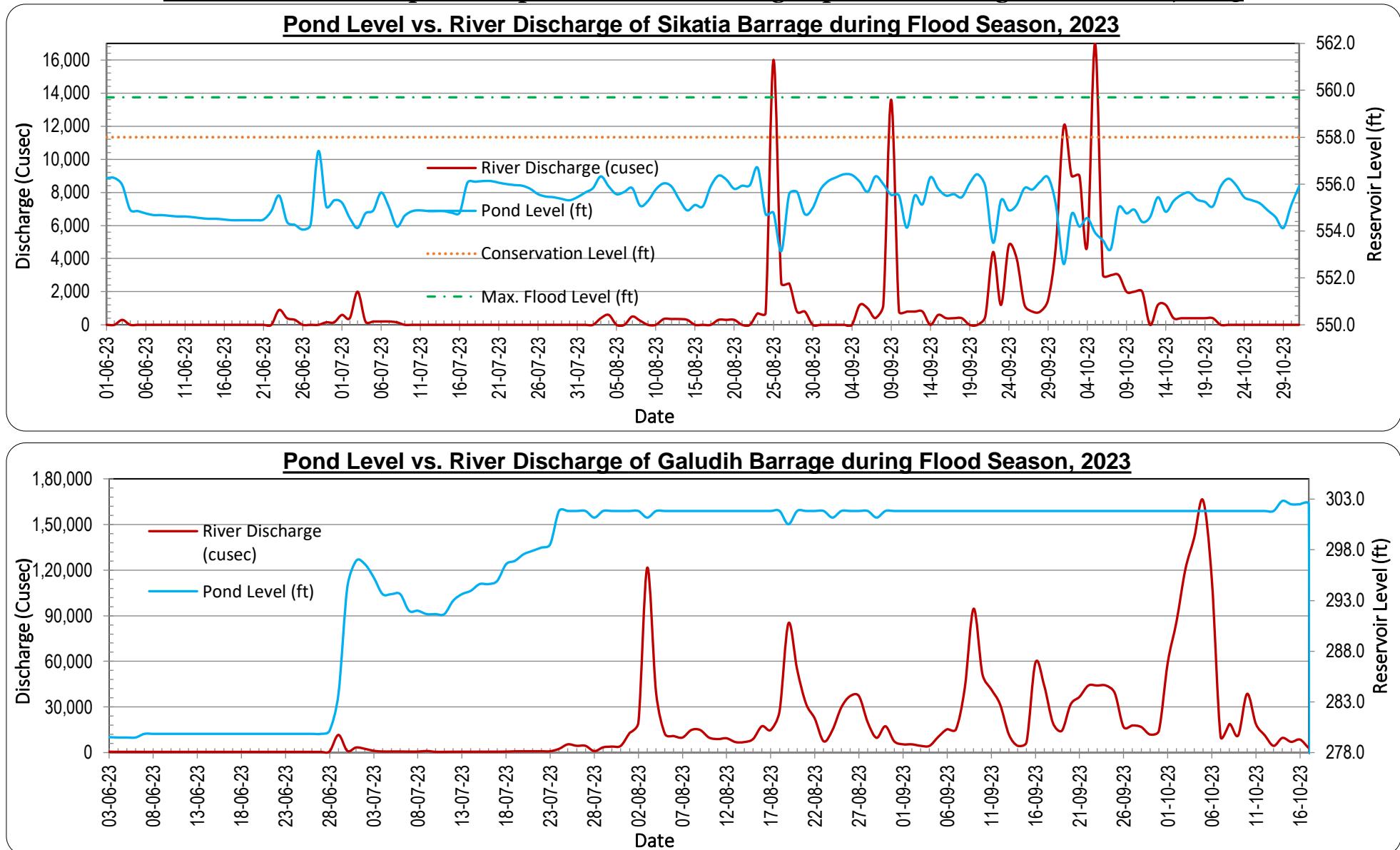
### Annexure IX-B1: Graphical Representation of Barrage Operation during Flood Season, 2023



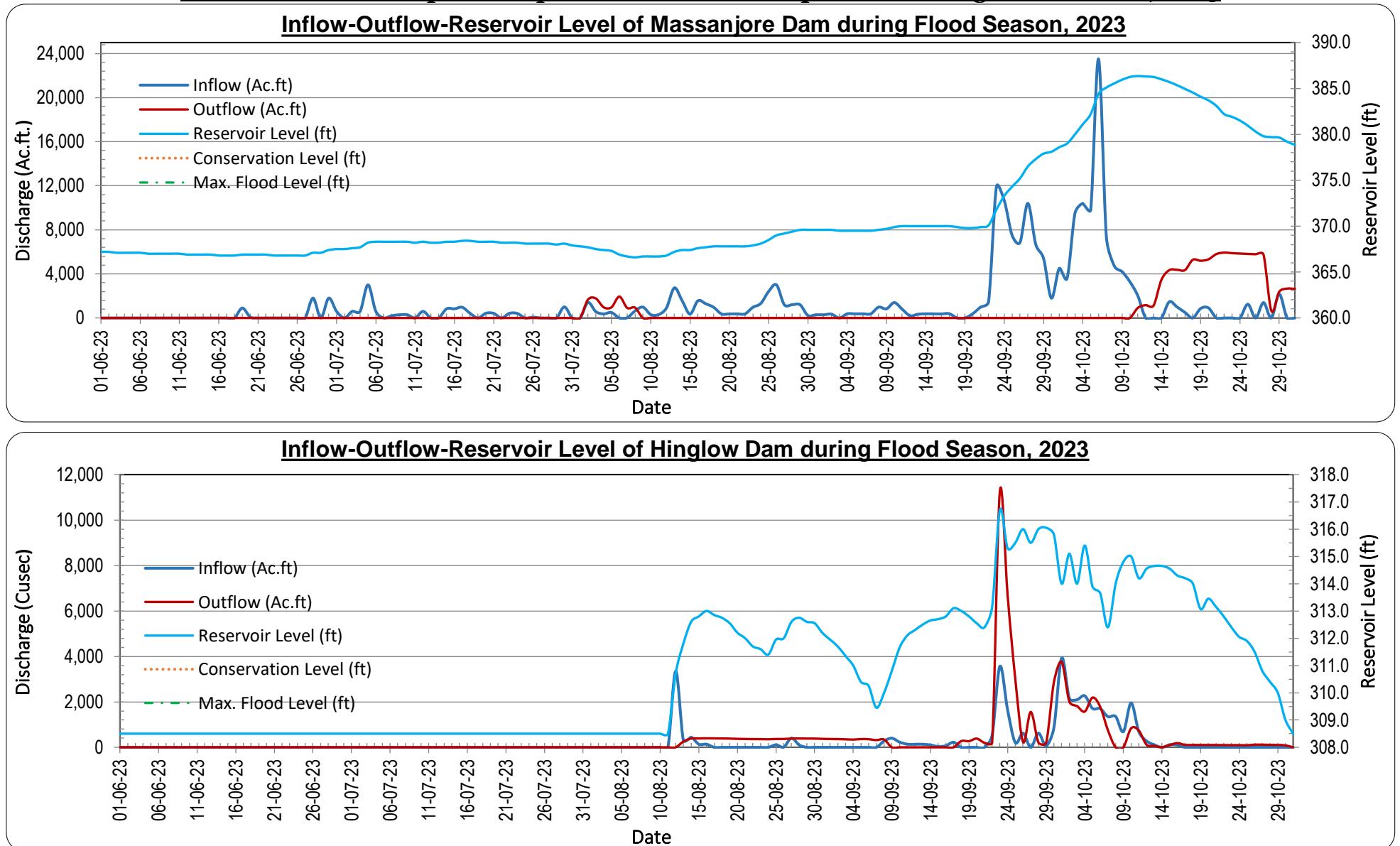
### Annexure IX-B1: Graphical Representation of Barrage Operation during Flood Season, 2023



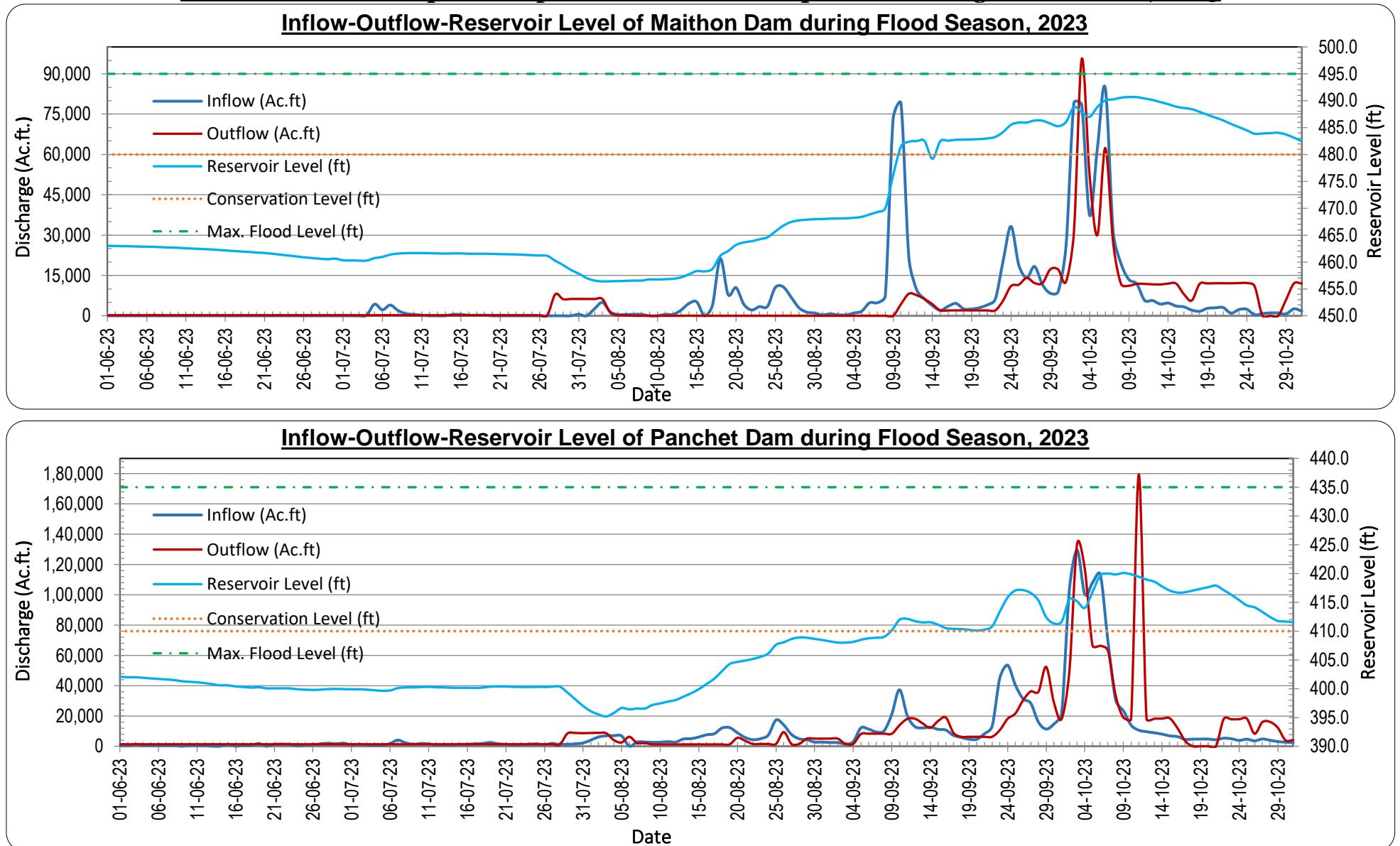
### Annexure IX-B1: Graphical Representation of Barrage Operation during Flood Season, 2023



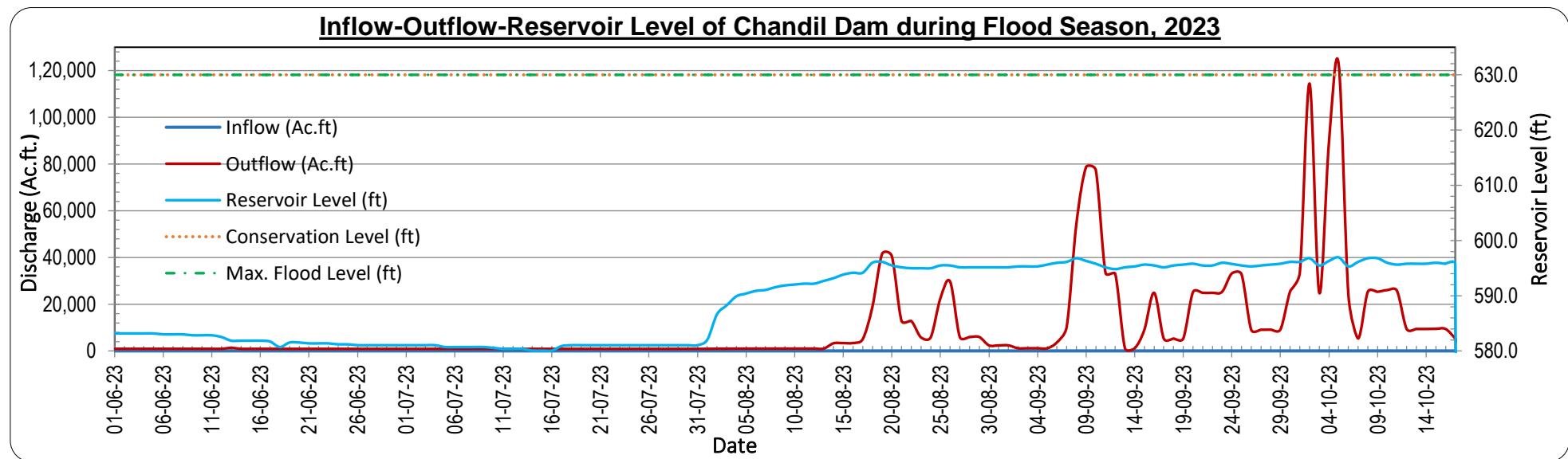
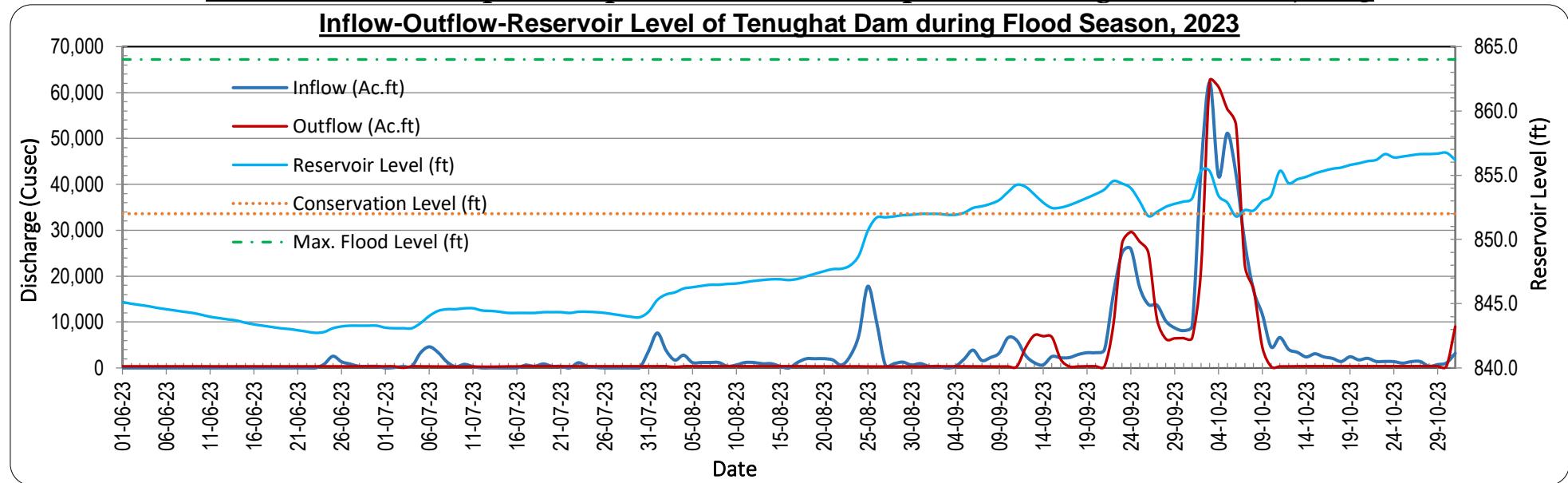
### Annexure IX-B2: Graphical Representation of Dam Operation during Flood Season, 2023



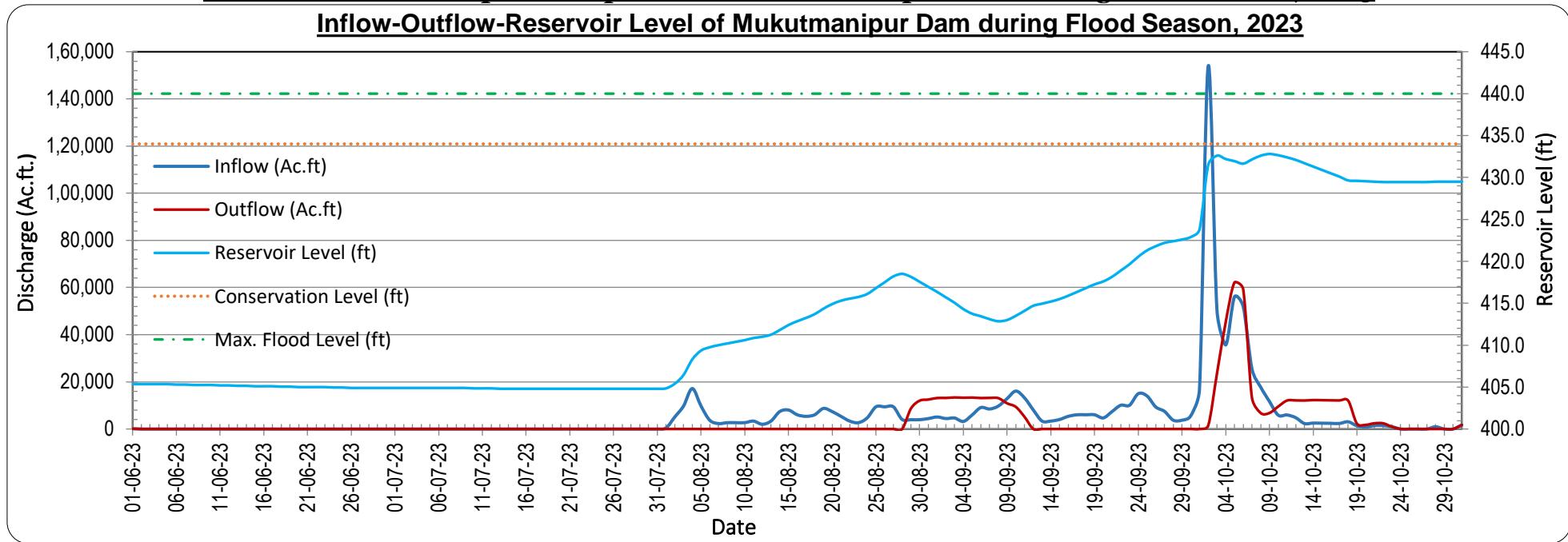
### Annexure IX-B2: Graphical Representation of Dam Operation during Flood Season, 2023



### Annexure IX-B2: Graphical Representation of Dam Operation during Flood Season, 2023



**Annexure IX-B2: Graphical Representation of Dam Operation during Flood Season, 2023**



**Annexure – X: Flood Warning Signals in North Bengal Rivers during Monsoon & Flood Season 2023**

Sl. No.	Name of River	Flood Warning Signals Imposed for the Area	Date of Signal Imposed	Time	Type of Signal	Date of Signal Withdrawn	Time
1	Teesta	Unprotected areas from Domohoni to Bangladesh border on both banks	16-06-2023	10:10	Yellow	16-06-2023	20:25
2	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	17-06-2023	07:00	Yellow	17-06-2023	19:20
3	Jaldhaka	Protected areas of NH-31 to Mathabhanga on both banks	17-06-2023	08:20	Yellow	17-06-2023	18:40
4	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	17-06-2023	14:10	Yellow	25-06-2023	08:10
5	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	18-06-2023	07:30	Yellow	24-06-2023	08:20
6	Jaldhaka	Protected areas of NH-31 to Mathabhanga on both banks	18-06-2023	07:30	Yellow	24-06-2023	08:20
7	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	18-06-2023	11:20	Yellow	25-06-2023	07:20
8	Raidak-I	Protected and unprotected areas from Tufanganj upto Bangladesh border on both banks	22-06-2023	04:00	Yellow	24-06-2023	04:00
9	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	28-06-2023	07:15	Yellow	01-07-2023	14:30
10	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	29-06-2023	13:25	Yellow	01-07-2023	14:35
11	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	30-06-2023	11:40	Yellow	01-07-2023	07:30
12	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	02-07-2023	08:20	Yellow	20-07-2023	07:25
13	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	02-07-2023	09:20	Yellow	16-07-2023	15:30
14	Jaldhaka	Protected areas of NH-31 to Mathabhanga on both banks	02-07-2023	09:20	Yellow	16-07-2023	15:30
15	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	03-07-2023	10:20	Yellow	20-07-2023	07:35
16	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	07-07-2023	10:20	Red	09-07-2023	07:30
17	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	13-07-2023	08:20	Red	15-07-2023	19:25
18	Jaldhaka	Protected areas of NH-31 to Mathabhanga on both banks	13-07-2023	09:35	Red	14-07-2023	10:30
19	Kaljani	Both protected and unprotected areas covering Alipurduar Block-I & II of Alipurduar district	13-07-2023	08:45	Yellow	13-07-2023	21:45
20	Mansai	Unprotected areas of Mathabhanga upto Bangladesh border on both banks	13-07-2023	13:00	Yellow	15-07-2023	20:00
21	Mansai	Unprotected areas of Mathabhanga upto Bangladesh border on both banks	13-07-2023	14:00	Red	13-07-2023	23:00
22	Mansai	Protected areas of Mathabhanga upto Bangladesh border on both banks	13-07-2023	17:00	Red	13-07-2023	23:00
23	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	13-07-2023	09:30	Red	15-07-2023	07:30
24	Teesta	Protected areas of Domohani to Bangladesh border on both banks	13-07-2023	09:30	Yellow	15-07-2023	07:30
25	Torsa	Unprotected areas of Hasimara on both banks	13-07-2023	07:45	Yellow	13-07-2023	18:50
26	Torsa	Protected & unprotected areas of Keshab Ashram up to Bangladesh border on both banks	13-07-2023	15:00	Yellow	15-07-2023	08:00
27	Raidak-I	Protected and unprotected areas of Tufanganj upto Bangladesh border on both banks	14-07-2023	10:00	Yellow	15-07-2023	16:00
28	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	21-07-2023	21:20	Yellow	19-08-2023	07:30

Sl. No.	Name of River	Flood Warning Signals Imposed for the Area	Date of Signal Imposed	Time	Type of Signal	Date of Signal Withdrawn	Time
29	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	05-08-2023	08:20	Yellow	19-08-2023	07:30
30	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	09-08-2023	20:20	Red	10-08-2023	20:25
31	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	13-08-2023	07:30	Yellow	14-08-2023	19:20
32	Jaldhaka	Protected areas of NH-31 to Mathabhanga on both banks	13-08-2023	19:30	Yellow	14-08-2023	19:20
33	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	13-08-2023	14:30	Yellow	14-08-2023	09:45
34	Teesta	Protected areas of Domohani to Bangladesh border on both banks	13-08-2023	14:30	Red	14-08-2023	09:45
35	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	19-08-2023	21:25	Yellow	21-08-2023	08:30
36	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	23-08-2023	16:25	Yellow	02-09-2023	07:20
37	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	24-08-2023	15:20	Yellow	02-09-2023	07:20
38	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	25-08-2023	06:20	Red	26-08-2023	18:40
39	Teesta	Protected areas of Domohani to Bangladesh border on both banks	25-08-2023	06:20	Yellow	26-08-2023	18:40
40	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	25-08-2023	07:30	Yellow	27-08-2023	17:30
41	Jaldhaka	Protected areas of NH-31 to Mathabhanga on both banks	25-08-2023	08:20	Yellow	27-08-2023	17:30
42	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	25-08-2023	14:20	Red	26-08-2023	18:30
43	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	28-08-2023	06:30	Red	28-08-2023	13:20
44	Teesta	Protected areas of Domohani to Bangladesh border on both banks	28-08-2023	06:30	Yellow	28-08-2023	13:20
45	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	28-08-2023	04:35	Yellow	31-08-2023	15:25
46	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	28-08-2023	07:20	Red	28-08-2023	13:25
47	Jaldhaka	Protected areas of NH-31 to Mathabhanga on both banks	28-08-2023	07:20	Yellow	31-08-2023	15:25
48	Mansai	Uprotected & protected areas of Mathabhanga upto Bangladesh border on both banks	28-08-2023	12:00	Yellow	29-08-2023	00:00
49	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	04-09-2023	10:25	Yellow	05-09-2023	07:25
50	Jaldhaka	Unprotected areas of NH-31 to Mathabhanga on both banks	21-09-2023	15:20	Yellow	22-09-2023	09:30
51	Teesta	Unprotected areas from Mekhliganj to Bangladesh border on both banks	23-09-2023	20:30	Yellow	27-09-2023	07:30
52	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	04-10-2023	08:20	Yellow	05-10-2023	07:30
53	Teesta	Unprotected areas of Domohani to Bangladesh border on both banks	04-10-2023	10:10	Red	04-10-2023	21:30
54	Teesta	Protected areas of Domohani to Bangladesh border on both banks	04-10-2023	10:10	Yellow	04-10-2023	21:30

						ANNUAL FLOOD DAMAGE REPORT - 2023										
Sl. No.	Name of River/ Stream/ Channel (LB / RB)	Name of District/ Block or Municipality	Name of Mouza / GP/ Village or Ward No.	Name of Bank/ Embankment/ Spur No. / Chainage (in m.) etc.	Lat. / Long. at centre point (DD)	Breach (m)	Damage due to Rain cut/ Slip/ Subsidence/ Erosion (m)	Damage of Existing Protection works (m)	Damage of Structure (no)	Nature of Damage according to Col. 7 to 10	Cause of Damage (i.e. Incessant Rain/ Depression/ Cyclone/ Kotal/ Easterly wind/ etc.)	Inundated / Waterlogged Area (as per Google KMZ polygon) (Sq. Km.)	Approx. Cost of Damage (Rs. in lakhs)	Date of occurrence (DD-MM-YY)	Remarks, if any	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<b>Bankura Irrigation Division</b>																
1	Dwarekeswar	Bankura / Onda	Bhadul Mallapara/ Sanbandha	LB	23.217978, 87.103875		400.00			Subsidence & Erosion	Depression		55.00	04.10.23		
2	Dwarekeswar	Bankura / Bankura-II	Ola Dubrajpur/ Santore	LB	23.223739, 87.158731		400.00			Subsidence & Erosion	Depression		80.00	03.10.23		
<b>Ganga Anti Erosion Division No.-I</b>																
1	Bhagirathi	Murshidabad/Rag hunathganj-II	Kasiadanga/ Dighirpahar	Right bank	23.79, 88.23		30.00			Erosion	Incessant Rain		10.00	04.07.23		
2	Ganga	Murshidabad/Samsanganj/	Bogdadnagar	Right bank	24.08, 88.06		15.00			Erosion	High Discharge		11.00	04.07.23		
3	Padma	Murshidabad/Lal gola	Bilborakpora/ Near B.O.P. Khandua	Left bank	23.99, 88.21		30.00			Erosion	High Discharge		18.39	27.07.23		
4	Padma	Murshidabad/Lal gola	Bilborakpora/ Near Shekhalipur Park	Left bank	23.92, 88.21		75.00			Erosion	High Discharge		35.78	28.07.23		
5	Padma	Murshidabad/Lal gola	In between post no. 244 to 288 of border fencing of AOR of BOP Renu	Left bank	23.99, 88.22		55.00			Erosion	High Discharge		19.03	25.08.23		
6	Ganga	Murshidabad/Samsanganj	Bogdadnagar/ Near U/S of Disco More	Right Bank	23.89, 88.01		30.00			Erosion	High Discharge		19.26	31.08.23		
7	Ganga	Murshidabad/Samsanganj	Bogdadnagar/ Near D/S of Disco More	Right Bank	23.88, 87.95		29.00			Erosion	High Discharge		18.63	31.08.23		
8	Ganga	Murshidabad/Samsanganj	Bogdadnagar/ Near U/S of Mohestola Modhyampara	Right Bank	24.07, 88.07		27.00			Erosion	High Discharge		18.70	31.08.23		
9	Ganga	Murshidabad/Samsanganj	Bogdadnagar/ Near D/S of Mohestola Modhyampara	Right Bank	24.19, 88.00		27.00			Erosion	High Discharge		18.73	31.08.23		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
10	Ganga	Murshidabad/Samsanganj	Bogdadnagar/ Near U/S of Mohestola Kali Mondir Para	Right Bank	23.95, 88.17		27.00			Erosion	High Discharge		19.14	31.08.23	
11	Ganga	Murshidabad/Samsanganj	Bogdadnagar/ Near D/S of Mohestola Kali Mondir Para	Right Bank	24.37, 88.15		26.00			Erosion	High Discharge		18.43	31.08.23	
12	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Near Sandip saha House at Ghanashyampur	Right Bank	24.00, 88.11		17.00			Erosion	High Discharge		10.61	06.09.23	
13	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Near Bablu saha House at Ghanashyampur	Right Bank	23.87, 87.94		15.00		2	Erosion	High Discharge		10.29	06.09.23	
14	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Near Manoj saha House at Ghanashyampur	Right Bank	24.33, 88.23		20.00			Erosion	High Discharge		15.90	06.09.23	
15	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Near Joyram saha House at Ghanashyampur	Right Bank	24.01, 88.12		18.00			Erosion	High Discharge		13.74	06.09.23	
16	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Near Badrul Sheikh House at Ghanashyampur /	Right Bank	23.94, 88.47		20.00			Erosion	High Discharge		15.29	06.09.23	
17	Padma	Murshidabad/Lal gola	In between post no. 210 to 236 of border fencing of AOR of BOP Renu	Left Embankment	24.09, 88.24		54.00			Erosion	High Discharge		19.20	29.09.23	
18	Padma	Murshidabad/Raghunathganj-II	Raghunathganj - II/ Bara Simul/ Bahura	Left Embankment	23.86, 88.24		30.00			Erosion	High Discharge		5.50	09.10.23	
19	Padma	Murshidabad/Sagardighi	Dasturhat no. - II/ Dasturhat	Left bank	23.90, 88.19		175.00			Erosion	High Discharge		19.89	09.10.23	
20	Ganga	Murshidabad/Samsanganj	Chachanda/ Near U/S of SSK school at Chachanda	Left Embankment	24.18, 87.98		25.00			Erosion	High Discharge		19.83	23.09.23	
21	Ganga	Murshidabad/Samsanganj	Chachanda/ D/S of SSK school at Chachanda	Right Bank	24.18, 87.98		30.00			Erosion	High Discharge		19.82	09.10.23	
22	Ganga	Murshidabad/Samsanganj	Nimtila/ Pachim Kamalpur	Right Bank	24.18, 87.98		30.00			Erosion	High Discharge		19.85	09.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
23	Ganga	Murshidabad/Samsanganj	Nimtila/ Pachim Kamalpur	Right Bank	24.18, 87.98		29.00			Erosion	High Discharge		19.66	09.10.23	
24	Ganga	Murshidabad/Samsanganj	Chachanda/ Chachanda	Right Bank	24.18, 87.98		180.00			Erosion	High Discharge		120.00	09.10.23	
25	Ganga	Murshidabad/Samsanganj	Chachanda/ Chachanda	Right Bank	24.18, 87.98					Erosion	High Discharge			26.10.23	
26	Ganga	Murshidabad/Samsanganj	Chachanda/ Chachanda	Right Bank	24.18, 87.98					Erosion	High Discharge			26.10.23	
27	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Ganashyampur	Right Bank	24.18, 87.98		60.00			Erosion	High Discharge		35.00	26.10.23	
28	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Ganashyampur	Right Bank	24.18, 87.98		50.00			Erosion	High Discharge		30.00	26.10.23	
29	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Ganashyampur	Right Bank	24.18, 87.98		50.00			Erosion	High Discharge		30.00	26.10.23	
30	Ganga	Murshidabad/Samsanganj	Tinpakuria/ Ganashyampur	Right Bank	24.18, 87.98		80.00			Erosion	High Discharge		45.00	26.10.23	
31	Ganga	Murshidabad/Samsanganj	Protapganj/ Satgoria	Right Bank	24.18, 87.98		90.00			Erosion	High Discharge		60.00	26.10.23	
<b>Berhampore Irrigation Division</b>															
1	Bhagirathi	Murshidabad/Beldanga-II	Ramnagar-Bachra	Right bank	23.79, 88.23		50.00			Due to rising water level of river Bhagirathi and shifting of deep channel towards right bank	Incessant Rain		7.48	03.08.23	
2	Dwarka	Murshidabad/Khargram	Sadol and Kumardsanda	Right Embankment	24.08, 88.06		65.00			Rain cut	Incessant Rain		2.48	05.08.23	
3	Bhagirathi	Murshidabad/Berhampore	Satui-Chowrigacha	Left bank	23.99, 88.21		60.00			Bank Subsidence and Slip	Depression		5.06	22.09.23	
4	Bhagirathi	Murshidabad/Beldanga-I	Mirzapur II	Left bank	23.92, 88.21		50.00			Bank Subsidence and Slip	Depression		4.85	22.09.23	
5	Babla	Murshidabad/Beldanga-II	Beleganti	Left Embankment	23.99, 88.22		60.00			Rain cut	Incessant Rain		9.96	22.09.23	
6	Mayurakshi	Murshidabad/Bharatpur-I	Jajan	Left Embankment	23.89, 88.01		28.79			Rain cut	Incessant Rain		2.00	25.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
7	Mayurakshi	Murshidabad/Burwan	Sundarpur	Right Embankment	23.88, 87.95		22.85			Rain cut	Incessant Rain		2.30	22.09.23	
8	Dwarka	Murshidabad/Kan di	Ramerswarpur	Left bank	24.07, 88.07		50.00			Rain cut	Incessant Rain		1.30	25.09.23	
9	Brahmani/ Dwarka	Murshidabad/Ber hampore	Milky,Sonatala, Bisat	Left bank	24.19, 88.00		93.00			Rain cut	Incessant Rain		2.65	25.09.23	
10	Babla	Murshidabad/Ber hampore	Ghoshgerher, Marwarigher	Left bank	23.95, 88.17		53.00			Rain cut	Incessant Rain		1.30	25.09.23	
11	Bhagirathi	Murshidabad/Lal gola	khamarpa	Left bank	24.37, 88.15		80.00			Rain cut	Incessant Rain		6.78	06.10.23	
12	Dwarka	Murshidabad/Kan di	Gosaidob	Left bank	24.00, 88.11		23.00			Slip	Depression		1.97	06.10.23	
13	Mayurakshi	Murshidabad/Burwan	Sundarpur	Right Embankment	23.87, 87.94		0.00	2.00	2	Rain cut	Incessant Rain		2.80	06.10.23	
14	Bhagirathi	Murshidabad/Bha gwangola-I	Bhagwangola	Left bank	24.33, 88.23		150.00			Rain cut	Incessant Rain		1.50	06.10.23	
15	Dwarka	Murshidabad/Kan di	Benipur	Right Embankment	24.01, 88.12		66.00			Slip	Incessant Rain		3.31	05.10.23	
16	Jalangi	Murshidabad/No wda	Madhupur	Right bank	23.94, 88.47		32.00			Slip	Incessant Rain		1.99	05.10.23	
17	Bhagirathi	Murshidabad/Ber hampore & Beldanga	Berhampore & Beldanga	Left Embankment	24.09, 88.24		40.00			Rain cut	Incessant Rain		1.33	26.09.23	
18	Bhagirathi	Murshidabad/Bel danga-II	Chhetiani, Manganpara	Left Embankment	23.86, 88.24		38.00			Rain cut	Incessant Rain		1.21	25.10.23	
19	Uttarasan	Murshidabad/Bel danga-II	Kamnagar	Left bank	23.90, 88.19		35.00			Rain cut	Incessant Rain		2.21	04.10.23	
20	Brahmani	Murshidabad/Nabagram	Hazbibidanga	Left Embankment	24.18, 87.98		16.00			Rain cut	Incessant Rain		3.29	23.09.23	
<b>Nadia Irrigation Division</b>															
1	Bhagirathi/ RB	Nadia/Nabadwip	Mahisura/Mahisura/Bancker Dhopadi	Right bank	23.37, 88.36		150.00			River Bank Erosion	Rising of water level		6.39	01.08.23	
2	Bhagirathi/ LB	Nadia/Kaliganj	Gobra/ Malopara/ Basatpur	Left bank	23.64, 88.17		72.00			River Bank Erosion	Rising of water level		4.88	04.10.23	
3	Bhagirathi/ LB	Nadia/Kaliganj	Gobra/ Malopara/ Basatpur	Left bank	23.6392, 88.1665		70.00			River Bank Erosion	Rising of water level		4.75	04.10.23	
4	Bhagirathi/ LB	Nadia/Kaliganj	Matiary/ Matiary/ Bablari	Left bank	23.6376, 88.1714		73.00			River Bank Erosion	Rising of water level		4.95	04.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5	Bhagirathi/ LB	Nadia/Nabadwip	Near Iskon Mandir	Tarapur	23.20, 88.48		40.00			River Bank Erosion	Rising of water level		5.49	06.10.23	
6	Bhagirathi/ LB	Nadia/Santipur	Tarapur	Left bank	23.4165, 88.3825		120.00			Raincuts	Incessant Rain		2.03	07.10.23	
<b>East Midnapore Division</b>															
1	NitaiKhali Khal	Purba Medinipur/ Mahishadal	Amritberia/ Amritberia		22.2288, 87.9718				1	Sluice repair	Rain		7.11	03.05.23	
2	River Rupnarayan	Purba Medinipur/ Mahishadal	Geonkhali/ Natsal I.	Right Embankment	22.2066, 88.04448			40.00		Erosion	Kotal		6.17	22.03.23	
3	Sridharpur Khal	Purba Medinipur/ Sutahata	Sridharpur/ Kukrahati	Right Embankment	22.1745, 88.1253		80.00			Slip	Rain		5.57	15.03.23	
4	River Rupnarayan	Purba Medinipur/ Mahishadal	Banka/ Satish Chandra Samanta		22.206852, 87.9916				1	Sluice repair	Rain		4.05	15.05.23	
5	(Donipur,Kalikakhali,Pairatunngi,Haridaspur,Kolla,Mathuri,Nunnan sluice)	Purba Medinipur/ Mahishadal, Nandakumar &Tamluk	Mirpur, Betalbasan, Pairatungi, Haridaspur, Purbakolla, Mathuri, Nunnan/ Babattarhut purba, Tamralipta Municipality, Anantapur I, Bishnubar I, Dhalhara, Kakorda		22.2437, 87.9586 22.2581, 87.9396 22.2230, 87.9296 22.3238, 87.8146 22.3195, 87.8429 22.3398, 97.92834 22.3545, 87.9311				7	Sluice repair	Rain		3.44	15.05.23	
6	Baichberia Khal	Purba Medinipur/ Tamluk	Mirikpur/ Padumpur I I		22.2584, 87.8474				1	Sluice repair	Rain		4.40	15.05.23	
7	River Rupnarayan	Purba Medinipur/ Mahishadal	Bar Amritberia/ Amritberia.	Right Embankment	22.2375, 87.9705 22.2377, 87.9703		250.00			Subsidence	Rain		2.89	15.05.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
8	Gangakhali Khal	Purba Medinipur/ Tamralipta Municipality.	Sayedpur	Left Embankment	22.3097, 87.9259		32.00			Slip	Rain		2.27	15.05.23	
9	River Rupnarayan	Purba Medinipur/ Nandakumar	Mirpur/ Babattarhut purba	Right Embankment	22.2445, 87.9580 22.2446, 87.9581		170.00			Subsidence	Rain		1.93	15.05.23	
10	River Rupnarayan	Purba Medinipur/ Tamluk	Abasbari char	Right Embankment	22.2857, 87.9282		16.00			Slip	Rain		0.73	15.05.23	
11	Anandakhali, Murari khali, Gangamore, Itamogra, Iswardaha, Dobanala (Haldi River)	Purba Medinipur/ Mahishadal & Haldia	Banskhana Jalpai, Itamogra, Iswardaha Jalpai/ Baruttarhingli, Itamogra II, Itamogra I, Baruttarhingli		22.0747, 88.0261 22.1077, 87.9861 22.1066, 87.9884 22.1119, 87.9451 22.0963, 87.9954 22.0522, 88.0383 22.1129, 87.9466				7	Sluice repair	Rain		3.41	19.04.23	
12	Hooghly River	Purba Medinipur/ Sutahata	Hariballavpur/ Kukrahati		22.1861, 88.0921				1	Sluice repair	Rain		1.72	19.04.23	
13	Hooghly River	Purba Medinipur/ Sutahata	Kalagachhia/ Begunberia		22.1460, 88.1566				1	Sluice repair	Rain		1.80	15.05.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
14	Tentulberia, Ashram, Kumbhachak, Banipota Bhanggora (Hooghly & River Rupnarayan)	Purba Medinipur/ Mahishadal.	Natsal I. ,Bangagara/ Betkundu & Natsal I	Right Embankment	22.1043, 88.0498 22.2069, 88.0379 22.2008, 88.0081 22.2029, 88.0473 22.1866, 88.0750				5	Sluice repair	Rain		2.42	19.04.23	
15	River Rupnarayan	Purba Medinipur/ Mahishadal	Bar Amritberia	Right Embankment	22.2426, 87.9625 22.2360, 87.9717		52.00			Erosion	Kotal		5.31	14.07.23	
16	River Rupnarayan	Purba Medinipur/ Haldia	Banskhana Jalpai/ BarUttarhingli	Left Embankment	22.0985 88.0307		36.00			Slip	Kotal		4.79	09.08.23	
17	River Rupnarayan	Purba Medinipur/ Mahishadal.	Natshal/ Natsal I	Right Embankment	22.2058, 88.0454 22.2058, 88.0453 22.2059, 88.0453 22.2065, 88.0415 22.2059, 88.0449 22.2060, 88.0448		62.00			Slip	Rain		2.38	31.07.23	
18	River Rupnarayan	Purba Medinipur/ Tamralipta Municipality	uttarchara Sankarara	Right Embankment	22.2922, 87.9350 22.2915, 87.93490		103.00			Subsidence	Rain		2.41	15.07.23	
19	Gangakhali Khal	Purba Medinipur/ Tamralipta Municipality.	Abasbari	Right Embankment	22.3094, 87.9281 22.3094, 87.9283		34.00			Subsidence	Rain		2.50	03.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
20	River Rupnarayan	Purba Medinipur/ Mahishadal.	Natshal I/ Natsal I	Right Embankment	22.3195, 87.9100 22.3195, 87.9100		64.50			Erosion	Kotal		3.70	11.09.23	
21	River Rupnarayan	Purba Medinipur/ Mahishadal.	Bar Amritberia/ Amritberia.	Right Embankment	22.2428, 87.9617		26.00			Raincut	Rain		1.58	25.08.23	
22	Baichberia Khal	Purba Medinipur/ Nandakumar.	Chakjiyadighi/ Bargodagodar		22.2556, 87.8416				1	Sluice repair	Rain		1.01	22.08.23	
23	Sankarara khal	Purba Medinipur/ Tamluk	Kalikapur/ Anantapur I		22.2783, 87.8348				1	Sluice repair	Rain		0.80	15.08.23	
24	Bhuniakhali Khal	Purba Medinipur/ Moyna	Manuakhali/ Naichanpur II	Right Embankment	22.1931, 87.8198		75.00			Subsidence	Erosion		5.04	02.01.23	
25	Bhuniakhali Khal	Purba Medinipur/ Moyna	Manuakhali/ Naichanpur II	Left Embankment	22.1929, 87.8197		75.00			Subsidence	Erosion		5.13	24.01.23	
26	Haldi river	Purba Medinipur/ Nandakumar	Kalagachia/ Saoraberia Jalpai II.	Left Embankment	22.1601, 87.8601		60.00			Subsidence	Kotal		3.76	14.08.23	
27	Maishali Khal	Purbamedinipur/ Nandakumar	Girirchak/ Sitalpurpaschim.	Left Embankment	22.1338, 87.9061		20.00			Subsidence	Kotal		1.47	14.08.23	
28	Samantakhali, Chaturia,Kirtanya,Jagannath Khali, Rajakhali & Maishali	Purba Medinipur/ Nandakumar & Mahishadal	Thekuachak, Bargoda, Kalichak Saoraberia Jalpai, Bagdoba Jalpai & Maishali/ Saoraberia Jalpai, Bargodagodar, Kalyanpur, Sitalpur Paschim & Kalyanpur.		22.2055, 87.8536 22.2271, 87.8177 22.2152, 87.8173 22.1295, 87.9196 22.1411, 87.9196 22.1365, 87.8984				6	Sluice repair	Rain		1.58	23.02.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
29	Gopalpur Khal	Purba Medinipur/ Blkock Mahishadal	Bamanpur/ Satish Chandra Samanta	Right Embankment	22.2042, 87.9572		20.00			Slip	Rain		0.90	04.10.23	
30	Gopalpur Khal	Purba Medinipur/ Mahishadal	Bamanpur/ Satish Chandra Samanta	Right Embankment	22.2059, 87.9638		20.00			Slip	Rain		0.91	04.10.23	
31	Gopalpur Khal	Purba Medinipur/ Mahishadal	Gopalpur/ Satish Chandra Samanta	Left Embankment	22.2033, 87.9642		40.00			Slip	Kotal		0.81	25.04.23	
32	Bholsora Khal	Purba Medinipur/ Mahishadal	Gopalpur/ Satish Chandra Samanta	Left Embankment	22.2095, 87.9620		11.00			Subsidence	Rain		0.89	07.09.23	
33	Gopalpur Khal	Purba Medinipur/ Mahishadal	Gopalpur/ Satish Chandra Samanta	Left Embankment	22.2101, 87.9556		35.00			Sublidence	Rain		0.55	04.10.23	
34	Manuakhali khal	Purbamedinipur/ Nandakumar	Saoraberia Jalpai/ aichanpurlI		22.1741, 87.8313					Sluice repair	High tide		2.24	14.08.23	
35	Maishali Khal	Purba Medinipur/ Nandakumar	Girirchak/ Sitalpurpaschim	Right Embankment	22.1353, 87.9066		110.00			Subsidence	Erosion		1.35	28.04.23	
36	Chandia	Paschim Medinipur/ Pingla	JalchakI/ Purusattampur	Right Embankment	22.270137, 87.693544					Subsidence	Incessant rain/ Depression		4.70	04.10.23	
37	Chandia	Purba Medinipur/ Moyna	Gokulnagar/ Mudibarh	Circuit Embankment.	22.2781, 87.7064					Subsidence	Incessant rain/ Depression		3.43	04.10.2024	Work is Ongoing
38	Chandia	Purba Medinipur/ Moyna	Ramchak,Bakcha,Sud ampur & Dakshin Arankiarana	Left & Right Embankmnt.	22.2438, 87.7053 22.1866, 87.7631					Subsidence	Incessant rain/ Depression		4.49	04.10.2025	Work is Ongoing
39	Patchanda	Paschim Medinipur/ Pingla	Raur	Left Embankment	22.2947, 87.6665					Subsidence	Incessant rain/ Depression		3.28	04.10.23	
40	Dehaty Channel	Purba Medinipur/ Kolaghat	Dhuliara/ Siddhall	Right Embankment	22.4149, 87.7673		150.00			Slip	Incessant Rain		1.80	04.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
41	Dehaty Channel	Purba Medinipur/ Kolaghat	Baradabar/ Sagarbar	Right Embankment	22.4307, 87.8199		100.00			Slip	Incessant Rain		5.70	04.10.23	
42	Durbachaty River	Purba Medinipur/ Kolaghat	Kolagachia, Baisnabchak/ Baisnabchak	Right Embankment	22.5088, 87.8450		120.00			Slip	Incessant Rain		5.80	04.10.23	
43	2C Main Canal, 2C-I Canal	Purba Medinipur/ Panskura	Amdubi, Dahshin Chachiar/ Raghunathbari	Left & Right Embankmnt.	22.3805, 87.7523		450.00			Slip	Incessant Rain		6.50	04.10.23	
44	New Cossye	Purba Medinipur/ Panskura	Udaypur (Near house of Sk Miyajuddin)/ Chaiytannapur-2	Right Ex-Jamindari Bank	22.362332, 87.73336 22.361409, 87.734345		63.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	Work is Ongoing
45	New Cossye	Purba Medinipur/ Panskura	Paschim Raibandh (Near house of Sakti Bhoumik)/ Chaiytannapur-2	Right Ex-Zamindari Bank	22.347577, 87.730344		32.00			Subsidence	Incessant Rain & Dam Discharge		2.00	04.10.23	Work is Ongoing
46	New Cossye	Purba Medinipur/ Panskura	Dakhin Gopalpur (Near Sub Division Office)	Left Embankment	22.396082, 87.714279		55.00			Subsidence	Incessant Rain & Dam Discharge		7.00	04.10.23	Work is Ongoing
47	New Cossye	Purba Medinipur/ Panskura	Jhikuria (Near Domghat)/ Pratappur	Left Embankment	22.360124, 87.738487		250.00			Subsidence	Incessant Rain & Dam Discharge		8.00	04.10.23	Work is Ongoing
48	New Cossye	Purba Medinipur/ Panskura	Ranihat(i)Ward No 15) (Near Burning ghat)	Left Embankment	22.365669, 87.737727		35.00			Subsidence	Incessant Rain & Dam Discharge		4.00	04.10.23	Work is Ongoing
49	New Cossye	Purba Medinipur/ Panskura	Garh Purusottampur(Ward No 14) (Near house of Sk Mohammad)	Left Ex-Zamindari Embankment	22.378104, 87.730036		38.00			Subsidence	Incessant Rain & Dam Discharge		3.00	04.10.23	Work is Ongoing

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
50	New Cossye	Purba Medinipur/ Panskura	Garg Purusottampur(Ward No 14)(Near house of Chandan Acharjya)	Left Ex-Zamindari Embankment	22.373142, 87.726455		45.00			Subsidence	Incessant Rain & Dam Discharge		4.00	04.10.23	Work is Ongoing
51	New Cossye	Purba Medinipur/ Panskura	Garg Purusottampur(Ward No 14)(Near Acharyya para)	Left Ex-Zamindari Embankment	22.370334, 87.725548		50.00			Subsidence	Incessant Rain & Dam Discharge		4.00	04.10.23	Work is Ongoing
52	New Cossye	Purba Medinipur/ Panskura	Tilandapur(Ward No 18)(Near House of Shankar Maity)	Left Embankment	22.392535, 87.715991		80.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	Work is Ongoing
53	New Cossye	Purba Medinipur/ Panskura	dakhshin Gopalpur(Near House arsad ali Khan)/ Panskural	Left Embankment	22.404893, 87.714689		55.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	Work is Ongoing
54	New Cossye	Purba Medinipur/ Panskura	Jagatpur(Near house of Rebati shingh)/ Mysora	Left Embankment	22.456785, 87.686003		65.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	Work is Ongoing
55	Khirai	Purba Medinipur/ Panskura	Hairampur (Near house of Sudhir Samanta)/ Chayitannapur2	Right Embankment	22.346379, 87.719253 22.342815, 87.718882		45.00			Subsidence	Incessant Rain & Dam Discharge		10.00	04.10.23	Work is Ongoing
56	New Cossye	Purba Medinipur/ Panskura	Purba chilka	Left Embankment	22.3018, 87.7832		20.00			Subsidence	Incessant Rain & Dam Discharge		2.00	04.10.23	
57	New Cossye	Purba Medinipur/ Panskura	Purba chilka	Left Embankment	22.3026, 87.7705		38.00			Subsidence	Incessant Rain & Dam Discharge		8.00	04.10.23	
58	New Cossye	Purba Medinipur/ Tamluk	Srirampur	Left Embankment	22.2485, 87.7979		40.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	
59	Khirai	Purba Medinipur/ Panskura	Fatechak (Near Kamur Pukur)/ Chayitannapur2	Right Embankment	22.358462, 87.710506		145.00			Subsidence	Incessant Rain & Dam Discharge		1.54	04.10.23	Work is Ongoing

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
60	New Cossye	Purba Medinipur/ Moyna	Purba Dobandy Patna(Near House of Saroj Mondal Mondal)/ Moyna II	Right Embankment	22.2543, 87.798889		142.00			Subsidence	Incessant Rain & Dam Discharge		1.50	04.10.23	Work is Ongoing
61	New Cossye	Purba Medinipur/ Panskura	Paschim Raibandh(Near house of Nitai Dolai)/ Chaiytannapur2	Right Ex-Zamindari Embankment	22.355125, 87.737737		38.00			Subsidence	Incessant Rain & Dam Discharge		6.40	04.10.23	Work is Ongoing
62	Khirai-Buxi	Purba Medinipur/ Moyna	Bisnumischack	Right Embankment	22.3121, 87.73		25.00			Subsidence	Incessant Rain & Dam Discharge		6.00	04.10.23	Work is Ongoing
63	New Cossye	Purba Medinipur/ Panskura	Kanasahi (Near house Bapi Paik)/ Radhaballavchak/ Mguri Uttarsai	Left Embankment	22.343298, 87.743576		53.00			Subsidence	Incessant Rain & Dam Discharge		5.63	04.10.23	Work is Ongoing
64	New Cossye	Purba Medinipur/ Panskura	Ramgar, Saraihat & Pao Baki/ Ghoshpur/ Ramgar	Right Embankment	22.364865, 87.72318 22.3548, 87.731542 22.373962, 87.718406		160.00			Subsidence	Incessant Rain & Dam Discharge		5.33	04.10.23	Work is Ongoing
65	Durbachatty	Purba Midnapore/ Kolaghat	Brindabanchak	Right Ex-Zamindari Embankment	22.472951, 87.75597		70.00			Subsidence	Incessant Rain & Dam Discharge		5.08	04.10.23	Work is Ongoing
66	New Cossye	Purba Medinipur/ Panskura	Garg Purusottampur (Ward No 14) (Near house of Rahim khan)	Left Ex-Zamindari Embankment	22.370343, 87.724912		30.00			Subsidence	Incessant Rain & Dam Discharge		5.07	04.10.23	Work is Ongoing
67	Khirai-Buxi	Purba Medinipur/ Moyna	Basanta chack	Right Embankment	22.3139, 87.7278		20.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	Work is Ongoing

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
68	New Cossye	Purba Medinipur/ Panskura	Bhabanipur (Ward No 18)	Left Embankment	22.390583, 87.712025 22.344928, 87.712182 22.390648, 87.811003 22.390745,87 .705553 22.389959,87 .705132		81.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	Work is Ongoing
69	New Cossye	Purba Medinipur/ Panskura	Golghat & Mahapur/ Gobindanagar	Right Embankment	22.447950, 87.669725		151.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	Work is Ongoing
70	New Cossye	Purba Medinipur/ Panskura	Dharmapur & Noapara & Manur/ Gobindanagar	Right Embankment	22.408475, 87.707509 22.426197, 87.697410		113.00			Subsidence	Incessant Rain & Dam Discharge		5.00	04.10.23	Work is Ongoing
71	New Cossye	Purba Medinipur/ Panskura	Kanasahi (Near ferry)/ Radhaballavchak/ Kanashi	Left Ex-Zamindari Embankment	22.338572, 87.74364		25.00			Subsidence	Incessant Rain & Dam Discharge		4.62	04.10.23	Work is Ongoing
72	New Cossye	Purba Medinipur/ Panskura	Jaykrishnapur, Uttarkatal, Dakhinkatal/ Gobindanagar/ Joykrishnapur	Right Embankment	22.393355, 87.710974 22.394801, 87.706001 22.391488, 87.707304		70.00			Subsidence	Incessant Rain & Dam Discharge		4.60	04.10.23	Work is Ongoing
73	New Cossye	Purba Medinipur/ Panskura	Jandra (Ward No 18)Near House of ICDS	Left Embankment	22.379539, 87.711792		103.00			Subsidence	Incessant Rain & Dam Discharge		4.05	04.10.23	Work is Ongoing
74	New Cossye	Purba Medinipur/ Panskura	Dokanda & Serhati/ Ghoshpur	Right Embankment	22.383913, 87.706512		50.00			Subsidence	Incessant Rain & Dam Discharge		4.01	04.10.23	Work is Ongoing

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
75	New Cossye	Purba Medinipur/ Panskura	Naskardighi(Near house of Kajal Bisay & Shib Mandir)/ Panskural	Left Embankment	22.421648, 87.703163 22.423974, 87.702175		58.00			Subsidence	Incessant Rain & Dam Discharge		4.01	04.10.23	Work is Ongoing
76	Khirai-Buxi	Purba medinipur/ Moyna	Bisnumischack	Right Embankment	22.3114, 87.7318		16.00			Subsidence	Incessant Rain & Dam Discharge		4.00	04.10.23	Work is Ongoing
77	Khirai-Buxi	Purba medinipur/ Moyna	Bisnumischack	Right Embankment	22.3119, 87.7311		15.00			Subsidence	Incessant Rain & Dam Discharge		3.99	04.10.23	Work is Ongoing
78	New Cossye	Purba Medinipur/ Panskura	Gurtola (Near house of Turshar Maity)/ Mysora	Left Embankment	22.454793, 87.681114		53.00			Subsidence	Incessant Rain & Dam Discharge		3.99	04.10.23	Work is Ongoing
79	New Cossye	Purba Medinipur/ Panskura	Garh Purusottampur (Ward No 14) (Near Sannu Para)	Left Ex-Zamindari Embankment	22.362256, 87.731346		20.00			Subsidence	Incessant Rain & Dam Discharge		3.99	04.10.23	Work is Ongoing
80	New Cossye	Purba Medinipur/ Panskura	Fakirbazar(Near Union Office)/ Mysora	Left Embankment	22.443154, 87.696168		45.00			Subsidence	Incessant Rain & Dam Discharge		3.79	04.10.23	Work is Ongoing
81	New Cossye	Purba Medinipur/ Panskura	Shayampur (Near Shayampur Feri)/ Mysora	Left Embankment	22.26523, 87.3918		48.00			Subsidence	Incessant Rain & Dam Discharge		3.66	04.10.23	Work is Ongoing
82	New Cossye	Purba Medinipur/ Panskura	Garh Purusottampur (Ward No 14) (Near RLI Scheme)	Left Ex-Zamindari Embankment	22.375057, 87.726506		35.00			Subsidence	Incessant Rain & Dam Discharge		3.43	04.10.23	Work is Ongoing
83	New Cossye	Purba Medinipur/ Moyna	Purba Dobandy	Right Embankment	22.2683, 87.7969		35.00			Subsidence	Incessant Rain & Dam Discharge		3.44	04.10.23	Work is Ongoing
<b>Contai Irrigation Division</b>															
1	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Uttar Selmabad	22.090467, 87.561052		30.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		4.20	02-10-23 to 10-10-23	
2	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Uttar Selmabad	22.090537, 87.561082		60.00			Slip at R/S & C/S	Heavey Incessant Rain & High water level in rivers		6.50	02-10-23 to 10-10-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Madhab chak	22.078461, 87.535297		28.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		4.00	02-10-23 to 10-10-23	
4	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Madhab chak	22.078571, 87.535628		25.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		3.50	02-10-23 to 10-10-23	
5	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Madhab chak	22.081407, 87.553381		38.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		5.35	02-10-23 to 10-10-23	
6	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Madhab chak	22.076591, 87.530158		52.00			Slip at C/S	Heavey Incessant Rain & High water level in rivers		7.30	02-10-23 to 10-10-23	
7	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Madhab chak	22.081407, 87.553381		94.00			Slip at C/S	Heavey Incessant Rain & High water level in rivers		5.00	02-10-23 to 10-10-23	
8	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Madhab chak	22.078469, 87.535381		45.00			Slip at C/S	Heavey Incessant Rain & High water level in rivers		2.50	02-10-23 to 10-10-23	
9	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gopalpur	Uttar Selmabad	22.092732, 87.575947				1	Ghogh	Heavey Incessant Rain & High water level in rivers		0.50	02-10-23 to 10-10-23	
10	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Amarshi-II	Kandarveri	22.099686, 87.615211		47.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		6.50	02-10-23 to 10-10-23	
11	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Amarshi-II	Kandarveri	22.099564, 87.613539		25.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		3.50	02-10-23 to 10-10-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
12	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Amarshi-II	Taladiha	22.102838, 87.638151		25.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		3.50	02-10-23 to 10-10-23	
13	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Amarshi-II	Dhokra banka	22.125283, 87.651176		45.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		6.50	02-10-23 to 10-10-23	
14	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Amarshi-II	Dhokra banka	22.100877, 87.623205		20.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		3.00	02-10-23 to 10-10-23	
15	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Chistipur-I	Talchitkini	22.103052, 87.637097 22.102838, 87.638151		60.00			Slip at R/S, C/S	Heavey Incessant Rain & High water level in rivers		8.40	02-10-23 to 10-10-23	
16	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gokulur No.1	Aima Barberia	22.057983, 87.513417		65.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		8.00	02-10-23 to 10-10-23	
17	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gokulur No.1	Gokulpur Circuit Embktt	22.080177, 87.532919		55.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		6.60	02-10-23 to 10-10-23	
18	Kaliaghai Right Embankment	Purba Medinipur/ Patashpur-I	Gokulur No.1	Gokulpur Circuit Embktt	22.079684, 87.535413		35.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		4.50	02-10-23 to 10-10-23	
19	Kaliaghai Right Embankment	Purba Medinipur/ - Patashpur-I	Gokulur No.1	Gokulpur Circuit Embktt	22.075853, 87.527783		25.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		3.20	02-10-23 to 10-10-23	
20	Baghai Right Embankment	Paschim Medinipur/ Dantan-II	Sauri	Sasinda	22.029234, 87.459726		65.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		7.80	02-10-23 to 10-10-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
21	Baghai Right Embankment	Paschim Medinipur/ Dantan-II	Sauri	Babla	22.034339, 87.456965		55.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		6.70	02-10-23 to 10-10-23	
22	Panchroll Khal	Purba Medinipur/ Egra-I	Panchroll	Sonapada	21.825238, 87.47685		45.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		5.50	02-10-23 to 10-10-23	
23	Haldi Right Embankment	Purba Medinipur/ Nandigram-I	Vekutia	Dinobandhupur	22.032103, 88.024916		100.00			Slip at R/S & Subsidence	Heavey Incessant Rain & High water level in rivers		15.00	02-10-23 to 10-10-23	
24	Hooghly Right Embankment	Purba Medinipur/ Nandigram-I	Kendamari, Jalpai	Kendamari	21.993126, 88.041751		95.00			Slip at R/S	Heavey Incessant Rain & High water level in rivers		10.00	02-10-23 to 10-10-23	
25	Kaliaghai River	Paschim Medinipur/ - Sabang	Bishnupur	Langolkata	22.122353, 87.685928				1	Damage Wooden Bridge	Heavey Incessant Rain & High water level in rivers		3.00	02-10-23 to 10-10-23	
26	Talpati Branch Canal	Purba Medinipur/ - Khejuri-II	Khejuri	Saheb nagar	21.881173, 87.974365				1	Damaged Sluice	Heavey Incessant Rain & High water level in rivers		1.00	02-10-23 to 10-10-23	
27	Jhauboni Khal	Purba Medinipur/ - Contai-III	Kanaidighi	Kulanjora	21.899369, 87.79584				1	Severely damaged single vent sluice	Heavey Incessant Rain & High water level in rivers		15.00	02-10-23 to 10-10-23	
28	Amirabad Branch Canal	Purba Medinipur/ Deshopran	Purba Amtalia	Shyamchak	21.826503, 87.854877				1	Severely damaged single vent sluice	Heavey Incessant Rain & High water level in rivers		15.00	02-10-23 to 10-10-23	
<b>Alipurduar irrigation division</b>															

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Gaburjyoti Both bank	Alipurduar/ Kalchini	Khokla/ Jaigaon I	Gaburjyoti Both bank	26.8373, 89.4098		450.00				High discharge passed due to heavy downpour in the catchment of river		8.00	19-06-23	
2	Kharkhola both bank	Alipurduar/ Kalchini	Khokla/ Jaigaon I	Kharkhola both bank	26.8388, 89.4127		380.00				High discharge passed due to heavy downpour in the catchment of river		7.00	19-06-23	
3	Hasimara jhora both bank	Alipurduar/ Kalchini	Machiabasti/ Jaigaon I & II	Hasimara jhora both bank	26.8499, 89.3809		300.00				High discharge passed due to heavy downpour in the catchment of river		6.59	19-06-23	
4	Raidak main left bank	Alipurduar/ and P.S- Kumargram	Amarpur/ Kumargram	Raidak main left bank	26.6498, 89.7963		450.00				High discharge passed due to heavy downpour in the catchment of river		29.80	19-06-23	
5	Right Bank of River Gabur Basra	Alipurduar/ Kalchini	Gabur Basra Forest/ Jaigaon-I	Gabur basra embankment	26.81280, 89.41510		200.00				High discharge passed due to heavy downpour in the catchment of river		36.00	13-07-23	
6	Left bank of river Pana	Alipurduar/ Kalchini	Chuapara/ Chuapara	Left bank of river Pana	26.748065, 89.431875	300.00					High discharge passed due to heavy downpour in the catchment of river	0.28	38.00	13-07-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
7	Sisamara river Right bank	Alipurduar/ Alipurduar I	Jummatari/ Salkumar I	Sisamara Embankment (Geo bag)	26.6104, 89.3234		110.00				High discharge passed due to heavy downpour in the catchment of river		17.00	13-07-23	
8	Sisamara river Right bank	Alipurduar/- Alipurduar I	Jummatari/ Salkumar I	Sisamara Embankment	26.6271, 89.3194		160.00				High discharge passed due to heavy downpour in the catchment of river		10.00	13-07-23	
9	Left bank of river Raidak-II	Alipurduar/ PS- Kumargram	Kumargram/ Kumargram	Katabari B P work	26.608566, 89.814874	325.00					High discharge passed due to heavy downpour in the catchment of river	1.00	20.00	13-07-23	
10	Left bank of river Raidak-II	Alipurduar/ PS- Kumargram	Joydevpur/ Kumargram	Joydevpur Embankment	26.611894, 89.815192		400.00				High discharge passed due to heavy downpour in the catchment of river		10.00	13-07-23	
11	Right bank of river Raidak-II	Alipurduar/ PS- Kumargram	Choto-Daldali/ Khoardanga-II	Choto-Daldali Embankment	26.514443, 89.791944		100.00				High discharge passed due to heavy downpour in the catchment of river		13.50	13-07-23	
12	Right Bank of River Kaljani	Alipurduar/ Kalchini	Mendabari	Nakadola embankment	26.67690, 89.40270		150.00				High discharge passed due to heavy downpour in the catchment of river		9.00	13-07-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
13	River Bhandari right bank	Alipurduar/- Kalchini	Mendabari	Right Bank of River Bhandari	26.62120, 89.40630		150.00				High discharge passed due to heavy downpour in the catchment of river		8.00	13-07-23	
14	River Kaljani left bank	Alipurduar/PS-Kalchini	Satali Nakadala/ Latabari	Left bank of latabari embankment and left bank of river Kaljani	26.655071, 89.41183		150.00				High discharge passed due to heavy downpour in the catchment of river		10.00	13-07-23	
15	Raidak( Main) left bank	Alipurduar/ PS-Kumargram	Newlands Tea Garden/ NKS	B. P work along left bank of river Raidak( Main)	26.651213, 89.79455		100.00				High discharge passed due to heavy downpour in the catchment of river		20.00	13-07-23	
16	Raidak( Main) left bank	Alipurduar/ PS-Kumargram	Newlands Tea Garden/ NKS	B. P work along left bank of river Raidak( Main)	26.657049, 89.792931		661.00				High discharge passed due to heavy downpour in the catchment of river		35.00	13-07-23	
17	Gargenda Left Bank	Alipurduar/ P.S. Falakat	Dalgaon/ Jateswar-I	Gargenda Left Bank	26.667805, 89.175133		150.00				High discharge passed due to heavy downpour in the catchment of river		3.67	13-07-23	
18	Gargenda right bank	Alipurduar/ & P.S. Falakat	Karaibari/ Jateswar-I	Gargenda right bank	26.680514, 89.167905		300.00				High discharge passed due to heavy downpour in the catchment of river		7.07	13-07-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
19	Mujnai right bank	Alipurduar/ P.S. Falakat	Nabonagar/ Deogaon	Mujnai right bank	26.576994, 89.167055		450.00				High discharge passed due to heavy downpour in the catchment of river		11.01	13-07-23	
20	River Nonai right bank	Alipurduar/ Alipurduar-I	Netaji para area, Ward no. - 03	Right bank of river Nonai	26.498284, 89.549808		120.00				High discharge passed due to heavy downpour in the catchment of river		6.00	13-07-23	
21	River Nonai right bank	Alipurduar/- Alipurduar-I	Ward no.- 16 and 17	Right bank of river Nonai	26.482374, 89.54429		150.00				High discharge passed due to heavy downpour in the catchment of river		2.00	13-07-23	
22	River Poro right bank	Alipurduar/ Alipurduar -I	Dakshin Patkapara/ Tapsikhata,	Right bank of river Ghargharia	26.53056, 89.46056		120.00				High discharge passed due to heavy downpour in the catchment of river		3.31	12-07-23	
23	River Ghargharia right bank	Alipurduar/ Alipurduar -I	Panchkolguri/ Chakoakheti,	Right bank of river Poro	26.469167, 89.43056		200.00				High discharge passed due to heavy downpour in the catchment of river		15.00	13-07-23	
24	Right bank of river Checko	Alipurduar/ - Alipurduar II	Dakshin Chengpara/ Chaparerpar	Right bank of river Checko	26.45111, 89.55917		105.00				High discharge passed due to heavy downpour in the catchment of river		3.00	12-07-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
25	River Dimdima left bank	Alipurduar/ & PS Madarihat	Nangdala/ Sisujhumra	River Dimdima left bank	26.753486, 89.117217		300.00				High discharge passed due to heavy downpour in the catchment of river		5.91	13-07-23	
26	River Turturi Left Bank	Alipurduar/ - Alipurduar II	Garokhuta/ Saqmuktala	Santal Colony Guide Bundh along L/B of river Turturi	26.585477, 89.686883		30.00				High discharge passed due to heavy downpour in the catchment of river		1.50	13.7.23	
<b>CoochBehar irrigation division</b>															
1	Raidak-I(R/B)	Cooch Behar/ Tufanganj-I	Andaran Fulbari-II	Tufanganj college Embankment	26.328634, 89.675729					Apron and pitching damaged			10.00	15.06.23	
2	Gadadhar (L/B)	Cooch Behar/ Tufanganj-I	Chilakhana-II	Gadadhar Embankment at Ch.3.00 Km	26.324787, 89.630777					Apron and pitching damaged			6.30	15.06.23	
3	Kaljani.(L/B)	Cooch Behar/ Tufanganj-I	Deocharai	Jhaljhali Embankment.	26.243051 , 89.628922					Apron and pitching damaged			28.00	15.06.23	
4	Gadadhar (R/B)	Cooch Behar/ Tufanganj-I	Natabari-I	Bank protection at Baro Boss para	26.393051 , 89.610450					Apron and pitching damaged			25.00	15.06.23	
5	Gadadhar (R/B)	Cooch Behar/ Tufanganj-I	Chilakhana-II	Bank protection at Ghogar Kuthi	26.306700, 89.653512					Apron and pitching damaged			7.00	4.07.23	
6	Raidak-I	Cooch Behar/ Tufanganj-I	Dhalpal-I	Dhalpal Embankment	26.397602 , 89.652936					Apron and pitching damaged			10.00	14.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
7	Kaljani.(L/B )	Cooch Behar/ Tufanganj-I	Natabari-I	Bank protection at Bhucungamari	26.390136, 89.568366					Apron and pitching damaged			10.00	14.07.23	
8	Kaljani.(L/B )	Cooch Behar/ Tufanganj-I	Natabari-I	Bank protection At Ukiler Chara						Apron and pitching damaged			10.00	14.07.23	
9	Kaljani.(L/B )	Cooch Behar/ Tufanganj-I	Balabhat	Bank protection at Balabhat	26.200472 , 89.686935					Bank erosion			10.00	14.07.23	
10	Kaljani.(L/B )	Cooch Behar/ Tufanganj-I	Natabari-II	Bank protection at velapeta, Amlaguri	26.346999 , 89.586801					Apron and pitching damaged			25.00	14.07.23	
11	Raidak-II (R/B)	Cooch Behar/ Tufanganj-II	Rampur-II	Bank protection At Khagribari	26.454991 , 89.767228					Apron and pitching damaged			15.00	15.06-23	
12	Raidak-II	Cooch Behar/ Tufanganj-II	Mahiskuchi -I	Bank protection at Mahiskuchi Gedarchar	26.401048, 89.759304					Apron and pitching damaged			15.00	15.06.23	
13	Raidak-I (R/B)	Cooch Behar/ Tufanganj-I	Dhalpal-I	Bank protection at Chikliguri	26.454991, 89.767228					Apron and pitching damaged			15.00	15.06.23	
14	Gadadhar (L/B)	Cooch Behar/ Tufanganj-I	Andaran Fulbari -II	Gadadhar Embankment at Ch.4.75 Km, L/B of River Gadadhar	26.331172, 89.631300					Apron and pitching damaged			12.00	14.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
15	Gadadhar(L/B )	Cooch Behar/ Tufanganj-I	Andaranfulbari - I & II ,Dhalpal-II	Gadadhar Embankment at Ch.3.60 Km Ch.6.80 Km,Ch.9.50 Km,Ch.9.90 Km,Ch.12.00 Km,	26.359610, 89.615447		200.00			Apron and pitching damaged and severe rain cut in several points			20.00	15.06.23	
16	Gadadhar(L/B )	Cooch Behar/ Tufanganj-I	Deochari	U/S & D/S of Santoshpur Embankment						Apron and pitching damaged and severe rain cut in several points			40.00	14.07.23	
17	Gadadhar(L/B )	Cooch Behar/ Tufanganj-I	Deocharai	U/S & D/S of Santoshpur Embankment L/B of River Gadadhar						Apron and pitching damaged and severe rain cut in several points			25.00	14.07.23	
18	Raidak-I (LB)	Cooch Behar/ Tufanganj-I	Barokodali-II	B.P WORK at BEGRKHATA BP WORK						Apron and pitching damaged and severe rain cut in several points			8.00	14.07.23	
19	Sankosh (L/B)	Cooch Behar/ Tufanganj-II	Bhanukumari-I	Chit Barolaukuthi Area	26.332750, 89.813421		450.00			Erosion			150.00	19.06.23	
20	Gadadhar(R/B )	Cooch Behar/ Tufanganj-I	Deocharai	R/B of River Gadadhar at krishnapur			220.00			Erosion			57.00	14.07.23	
21	Raidak-I (L/B)	Cooch Behar/ Tufanganj-I	Andaranfulbari -II	Ullarkhaowa Ghat L/B of River Raidak-I	26.325797, 89.682732		200.00			Erosion			50.00	14.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
22	Sankosh (R/B)	Cooch Behar/ Tufanganj-II	Falimari	Dakshin Falimari Area along the R/B of River Sankoh	26.366353, 89.806540		500.00			Erosion			140.00	05.10.23	
23	Gadadhar(R/B )	Cooch Behar/ Tufanganj-I	Deocharai	Bhitore Kuthi R/B of Gadadhar river			200.00			Erosion			40.00	14.07.23	
24	Raidak-I (L/B)	Cooch Behar/ Tufanganj- II	Barokodali-II	L/B of River Raidak-I at Langal Gram Khas Chara.			150.00			Erosion			38.00	14.07.23	
25	Gadadhar(L/B )	Cooch Behar/ Tufanganj-I	Nakkati Gach	L/B of River Gadadhar at Paschim Dhadial			150.00			Erosion			35.00	14.07.23	
26	Gadadhar(L/B )	Cooch Behar/Tufanganj- I	Nakkati Gach	L/B of River Gadadhar at Madhya Dhadial			300.00			Erosion			40.00	14.07.23	
27	Gadadhar(L/B )	Cooch Behar/ Tufanganj-I	Deochari	L/B of River Gadadhar at krishnapur			300.00			Erosion			68.00	14.07.23	
28	Raidak-II (R/B)	Cooch Behar/ Tufanganj- II	Bhanukumari-I	R/B Raidak-II at Bhanukumari			600.00			Erosion			150.00	14.07.23	
29	Kaljani.(L/B )	Cooch Behar/ Tufanganj-I	Balabhut	L/B kaljani at jhawkuthi			700.00			Erosion			386.00	14.07.23	
30	Kaljani.(L/B )	Cooch Behar/ Tufanganj-I	Balabhut	L/B kaljani at kerukuthi			150.00			Erosion			35.00	14.07.23	
31	Kaljani.(R/B )	Cooch Behar/ Tufanganj-I	Balabhut	R/B kaljani at Char balabhut			900.00			Erosion			429.00	14.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
32	Gadadhar(L/B )	Cooch Behar/ Tufanganj-I	Balabhat	L/B of River Gadadhar at sarkarpura			200.00			Erosion			50.00	14.07.23	
33	Raidak-I (L/B)	Cooch Behar/ Tufanganj-I	Dhalpal-II	L/B Raidak-I at Uttar Dhalpal Area			150.00			Erosion			38.00	14.07.23	
34	Gadadhar(L/B)	Cooch Behar/ Tufanganj-I	Chilakhana-I.	L/B of River Gadadhar at Jaigir Chilakhana			150.00			Erosion			35.00	14.07.23	
35	Kaljani.(L/B )	Cooch Behar/Tufanganj-I	Deocharai	L/B Of River kaljani at D/S of jhaljhali B/P work.			110.00			Erosion			28.00	14.07.23	
36	Raidak-I (L/B)	Cooch Behar/ Tufanganj-I	Dhalpal-II	L/B of River Raidak-I at Chikluri area.			300.00			Erosion			75.00	14.07.23	
37	Raidak-I (R/B)	Cooch Behar/Tufanganj-I	Dhalpal-II	R/B of River Raidak-I at Surya Maji's Ghat dhalpal area.			500.00			Erosion			125.00	14.07.23	
38	Raidak-II (L/B)	Cooch Behar/ Tufanganj- II	Mahiskuchi -I	L/B of River Raidak-II at Phersa Bari area.			400.00			Erosion			100.00	14.07.23	
39	Torsa (R/B)	Cooch Behar/CoochBeh ar-I	Ghughumari	Ghughumari Embankment				100.00		Apron and pitching damaged and round sausage dragged down			9.55	14.07.23	
40	Torsa (R/B)	Cooch Behar/CoochBeh ar-I	Ghughumari	Spur No-18				50.00		Matstress and round sausage dragged down			8.08	14.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
41	Kaljani (R/B)	Cooch Behar/Tufanganj-I	Deocharai	Balarampur-Chowkushi embankment				80.00		Apron and pitching damaged and round sausage dragged down			5.00	14.07.23	
42	Kaljani (R/B)	Cooch Behar/ Tufanganj-I	Balarampur I	Arampur embankment Spur No.1 and 2				80.00		Pitching damaged and round sausage dragged down			7.60	14.07.23	
43	Kaljani (R/B)	Cooch Behar/ Cooch Behar II	Ambari	Dakhin Ambari B.P. work				90.00		Apron and pitching damaged			8.00	14.07.23	
44	Kaljani (R/B)	Cooch Behar/ Tufanganj I	Natabari-I B	Chhatowa embankment				50.00		Apron and pitching damaged			7.00	14.07.23	
45	Kaljani (R/B)	Cooch Behar/ Tufanganj I	Natabari-I	Katerarkuthi B.P.				100.00		Apron and pitching damaged			10.00	14.07.23	
46	Torsa (L/B)	Cooch Behar/ Cooch Behar I	Dawaguri	Dawaguri Spur in between 8 & 9				80.00		Apron and pitching damaged			9.20	14.07.23	
47	Torsa (L/B)	Cooch Behar/Cooch Behar I	Dawaguri	Dawaguri Spur No-10				60.00		Apron and pitching damaged and round sausage dragged down			7.50	14.07.23	
48	Ghargharia (R/B)	Cooch Behar/ Cooch Behar I	Dawaguri	Talliguri embankment				200.00		Apron and pitching damaged and round sausage dragged down			8.00	14.07.23	
49	Ghargharia (L/B)	Cooch Behar/ Tufanganj I	Maruganj	Paniachora B.P.				60.00		Apron and pitching fully damaged.			8.00	14.07.23	
50	Ghargharia (L/B)	Cooch Behar/ Tufanganj I	Maruganj	Paniachora embankment				50.00		Apron and pitching fully damaged.			7.00	14.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
51	Baniadaha (R/B)	Cooch Behar/ Dinhata II	Gobrachara Nayerhat	Kismat Mokrani B.P.				120.00		pitching damaged.			3.80	14.07.23	
52	Baniadaha (R/B)	Cooch Behar/ Dinhata II	Gobrachara Nayerhat	Kharija Baniadaha B.P. work				180.00		pitching damaged.			5.50	14.07.23	
53	Kaljani (R/B)	Cooch Behar/ Tufanganj-I	Balarampur-II	Shouldhukri embankment				70.00		Apron and Pitching damaged ,			9.80	22.07.23	
54	Kaljani (R/B)	CoochBehar/ CoochBehar II	Ambar	Ambari B.P.				60.00		Boulder slope pitching of the B.P. work has also been damaged			12.00	22.07.23	
55	Kaljani (R/B)	Cooch Behar/ Cooch Behar II	Marichbari	Purba Kholta Embankment				100.00		Apron and pitching damaged and round sausage dragged down			10.00	25.09.23	
56	Torsa (L/B)	Cooch Behar/ Tufanganj-I	Maruganj	Falimari embankment				300.00		Apron and pitching damaged and severe rain cut in several points			15.00	25.09.23	
57	Ghargharia (L/B)	Cooch Behar/ Tufanganj I	Maruganj	Solardanga B.P.				70.00		Apron and pitching fully damaged.			10.00	25.09.23	
58	Kaljani (R/B)	Cooch Behar/ Tufanganj -I	Balarampur-I	Arampur Embankment				80.00		Apron and pitching damaged and round sausage dragged down			10.00	25.09.23	
59	Torsa (R/B)	Cooch Behar/Cooch Behar -I	Dawaguri				400.00		Erosion			8.08	14.07.23		
60	Torsa (R/B)	Cooch Behar/Tufanganj -I	Balrampur-I				350.00		Erosion			9.87	14.07.23		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
61	Kaljani (R/B)	Cooch Behar/Tufanganj -I	Balrampur-I				315.00			Erosion			9.05	14.07.23	
62	Kaljani (R/B)	Cooch Behar/ Tufanganj -I	Maruganj				250.00			Erosion			5.50	14.07.23	
63	Kaljani (R/B)	Cooch Behar/ Tufanganj -I	Natabari				200.00			Erosion			4.00	14.07.23	
64	Baniadaha (R/B)	Cooch Behar/ Dinhata -II	Kismat Dasgram				150.00			Erosion			5.00	14.07.23	
65	Baniadaha (R/B)	Cooch Behar/ Dinhata -I	Gitaldaha -I				100.00			Erosion			4.00	14.07.23	
66	Baniadaha (L/B)	Cooch Behar/ Dinhata -I	Gitaldaha -I				200.00			Erosion			4.50	14.07.23	
67	Kaljani (R/B)	Cooch Behar/ Cooch Behar-II	Baneswar				80.00			Erosion			2.00	22.07.23	
68	Ghargharia (L/B)	Cooch Behar/ Cooch Behar-II	Khapaidanga				200.00			Erosion			2.00	25.09.23	
69	Torsa (L/B)	Cooch Behar/ CoochBehar-I, Cooch Behar-II and Municipality	Gurihati-I, Cooch Behar Municipality and Khagrabari	Cooch Behar Town Protective Embankment				1000.00		Rain Cuts			9.50	01.06.23 to 31.10.23	
70	Mansai (L/B)	Cooch Behar/ CoochBehar-I	Putimari Fuleswari	Hardev Chhaderjhar B.P. work					20	Trapizoidal Sausage			25.00	12.07.23	
71	Mansai (L/B)	Cooch Behar/ Dinhata -I	Barosoulmari	Chhat Barobangla B.P. work				180.00		Apron and Slope Pitching			30.00	12.07.23	
72	Mansai (L/B)	Cooch Behar/ Cooch Behar -I	Chandamari	Chhadejhar Sibpur B.P. work					15	Trapizoidal deflector			25.00	12.07.23	
73	Singhimari (L/B)	Cooch Behar/ Sitai	Br. Chatra	4 no Singhimari B.P. work					20	Trapizoidal Sausage			40.00	12.07.23	
74	Torsa (L/B)	Cooch Behar/ Cooch Behar-II	Madhupur	Spur No. 2 of Hanskhowa embkt.						Slope of shank has been eroded away			7.00	12.07.23	
75	Mansai (L/B)	Cooch Behar/ Dinhata-I	Barosoulmari				900.00			Erosion			377.00	12.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
76	Torsa (R/B)	Cooch Behar/ Cooch Behar-II,	Takagach - Rajarhat				2000.00			Erosion			490.00	12.07.23	
77	Singhimari (L/B)	Cooch Behar/Sitai	B.R. Chatra				600.00			Erosion			203.17	12.07.23	
78	Saltia/Jhaljhali (R/B)	Cooch Behar/ Cooch Behar-I	Patchhara				1200.00			Erosion			144.70	26.07.23	DPR Submitted
79	Both Bank of Bura Dharala (R/B) & (L/B)	Cooch Behar/ Dinhata-I	Matal Hat				1000.00			Erosion			110.00	26.07.23	DPR Submitted
80	Bura Dharala Both bank	Cooch Behar/ Dinhata-I	Baro Soulmar				950.00			Erosion			100.00	26.07.23	
81	River Mansai (R/B)	CoochBehar/Sitai	Adabari	Kismat Adabari Spur				110.00		Apron & slope pitching dammaged and round sausage dragged down.			11.20	21.06.23,1 3.07.23,14. 07.23	
82	River Mansai (R/B)	CoochBehar/ Sitai	Adabari	Baro Adabari Spur				35.00		Apron & slope pitching dammaged and round sausage dragged down.			7.50	21.06.23,1 3.07.23,14. 07.23	
83	River Jaldhaka (R/B)	CoochBehar /Mathabhanga-I	Kedarhat	Joreshimuli B.P work			120.00	500.00		Apron & slope pitching dammaged and round sausage dragged down.			18.00	21.06.23,1 3.07.23,14. 07.23	120.0 m work completed
84	River Jaldhaka (R/B)	CoochBehar /Mathabhanga-I	Hazrahat-I	Uttar Daibhangi BP work				150.00		Apron & slope pitching including coller dammaged .			12.20	21.06.23,1 3.07.23,14. 07.23	
85	River Mansai (R/B)	CoochBehar /Mathabhanga-II	Nishiganj-I	Tekonia Embankment				300.00		Apron & slope pitching dammaged and round sausage dragged down.			12.00	21.06.23,1 3.07.23,14. 07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
86	River Dudua (R/B)	CoochBehar /Mathabhanga-II	Fulbari	Melardanga B.P work				200.00		Apron & slope pitching dammaged and round sausage dragged down.			9.50	21.06.23,1 3.07.23,14. 07.23	
87	River Dudua ( R/B)	CoochBehar /Mathabhanga-II	Baro Soulmar'i	East Fulbari Embankment				210.00		Apron & slope pitching dammaged and round sausage dragged down.			8.50	21.06.23,1 3.07.23,14. 07.23	
88	River Dudua ( L/B)	CoochBehar /Mathabhanga-II	Baro Soulmar'i	Singjani Embankment				310.00		Apron & slope pitching dammaged and round sausage dragged down.			11.50	21.06.23,1 3.07.23,14. 07.23	
89	River Mujnai ( L/B)	CoochBehar /Mathabhanga-II	Baro Soulmar'i	Mukuldanga B.P. Work				120.00		Apron & slope pitching dammaged and round sausage dragged down.			7.00	21.06.23,1 3.07.23,14. 07.23	
90	River Mujnai ( R/B)	CoochBehar /Mathabhanga-II	Baro Soulmar'i	Chakarchal Ghat B.P. Work				120.00		Apron & slope pitching dammaged and round sausage dragged down.			7.00	21.06.23,1 3.07.23,14. 07.23	
91	River Jaldhaka ( L/B)	CoochBehar /Mathabhanga-II	Fulbari	Spur No-6 of Extension Kheti Embankment				70.00		Apron & slope pitching dammaged and round sausage dragged down.			8.00	21.06.23,1 3.07.23,14. 07.23	
92	River Jaldhaka ( L/B)	CoochBehar /Mathabhanga-II	Fulbari	Kheti Embankment				30.00		Subsidence country side due to seepage water.			7.00	21.06.23,1 3.07.23,14. 07.23	
93	River Mansai ( R/B)	CoochBehar /Sitai	Adabari	Morebhanga- Kismat Adabari B. P. Work				120.00		Apron & slope pitching dammaged			7.50	21.06.23,1 3.07.23,14. 07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
94	River Mansai ( R/B)	CoochBehar /Sital	Adabari	Kajlikura B. P. Work				100.00		Apron & slope pitching dammaged and round sausage dragged down.			7.50	21.06.23,1 3.07.23,14. 07.23	
95	River Mansai ( R/B)	CoochBehar /Mathabhanga-I	Hazrahat-I	Uttar Daibhangi Embankment				750.00		Depression formed at Top & slope of embankment due to rain cuts.			10.00	21.06.23,1 3.07.23,14. 07.23	
96	River Mansai ( R/B)	CoochBehar /Sital	B.R. Chatra	Bara Bangla B.P.Work				200.00		Apron & slope pitching dammaged .			10.50	21.06.23,1 3.07.23,14. 07.23	
97	River Mansai ( R/B)	CoochBehar /Mathabhanga-I	Mathabhanga Municipality	Mathabhanga T.P. Embankment				400.00		Apron & slope pitching dammaged and round sausage dragged down.			6.25	21.06.23,1 3.07.23,14. 07.23	under Tender process
98	River Sutunga ( L/B)	CoochBehar /Mathabhanga-I	Hazrahat-II	South Bhangamore B.P. Work				175.00		Apron & slope pitching dammaged and round sausage dragged down.			8.00	21.06.23,1 3.07.23,14. 07.23	
99	River Mansai ( R/B)	CoochBehar /Mathabhanga-I	Hazrahat-II	Spur No 3 & 5 of Bhangamore Embankment				100.00		Apron & slope pitching dammaged and round sausage dragged down.			12.00	21.06.23,1 3.07.23,14. 07.23	
100	River Dudua ( R/B)	CoochBehar /Mathabhanga-II	Boro Soulmar	Uttar Daribose B.P.Work				150.00		Apron & slope pitching dammaged and round sausage dragged down.			7.50	21.06.23,1 3.07.23,14. 07.23	
101	River Dudua ( R/B)	CoochBehar /Mathabhanga-II	Boro Soulmar	Fulbari Daribose Embankment				110.00		Apron & slope pitching dammaged and round sausage dragged down.			8.50	21.06.23,1 3.07.23,14. 07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
102	River Mansai ( R/B)	CoochBehar /Mathabhanga-I	Jorepatki	Panaguri Spur				90.00		Apron & slope pitching dammaged and round sausage dragged down.			9.50	21.06.23,1 3.07.23,14. 07.23	
103	River Mansai ( R/B) & Sutunga ( L/B)	CoochBehar /Mathabhanga-I	Mathabhanga Municipality	Sluice					10	Draw shutter, Guide Channel & ancillaries parts.			1.66	21.06.23,1 3.07.23,14. 07.23	under Tender process
104	River Sutunga ( L/B)	CoochBehar /Mathabhanga-I	Hazrahat-II	Unprotected Zone at Purba Khaterbari area			225.00			Severe Bank erosion			26.00	21.06.23,1 3.07.23,14. 07.23	DPR Submitted
105	River Singimari (Mansai) ( R/B)	CoochBehar /Sitali	B.R.Chatra	Unprotected Zone at Dakshin Singimari, Chhat Singimari, Andar an Singimari area.			2700.00			Severe Bank erosion			1200.00	21.06.23,1 3.07.23,14. 07.23	DPR Submitted
106	River Dharala) ( L/B)	CoochBehar /Sitalkhuchi	Kholishamari	Unprotected Zone at Salbari Mahishmari (Reach-I)			400.00			Severe Bank erosion			70.00	21.06.23,1 3.07.23,14. 07.23	
107	River Dharala) ( L/B)	CoochBehar /Sitalkhuchi	Kholishamari	Unprotected Zone at Salbari Mahishmari (Reach-II)			1000.00			Severe Bank erosion			170.00	21.06.23,1 3.07.23,14. 07.23	
108	River Nenda ( R/B)	CoochBehar /Mathabhanga -I	Kurshamari	Unprotected Zone at Baro Khalishamari			900.00			Severe Bank erosion			150.00	21.06.23,1 3.07.23,14. 07.23	
109	River Nenda ( R/B)	CoochBehar /Mathabhanga -I	Jorepatki	Unprotected Zone at Nander Par area			400.00			Severe Bank erosion			70.00	21.06.23,1 3.07.23,14. 07.23	
110	River Mansai ( R/B)	CoochBehar /Mathabhanga -I	Jorepatki	Unprotected Zone at Panaguri-Shibpur area			1070.00			Severe Bank erosion			410.00	21.06.23,1 3.07.23,14. 07.23	DPR Submitted

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
111	River Sutunga ( L/B)	CoochBehar/ Mathabhanga -I	Gopalpur	Unprotected Zone at Dhandania area			245.00			Severe Bank erosion			37.00	21.06.23,1 3.07.23,14. 07.23	DPR Submitted
112	River Dharala ( R/B)	CoochBehar/ Mathabhanga -I	Jorepatki	Unprotected Zone at Nagar Gopalganj area			800.00			Severe Bank erosion			190.00	21.06.23,1 3.07.23,14. 07.23	DPR Submitted
113	River Dharala ( R/B)	CoochBehar/ Sitai	B.R.Chatra	Unprotected Zone at Baro Bangla area			800.00			Severe Bank erosion			350.00	21.06.23,1 3.07.23,14. 07.23	DPR Submitted
114	River Dharala ( R/B)	CoochBehar/ Mathabhanga-I	Nayerhat	Unprotected Zone at Debottor Panigram area			500.00			Severe Bank erosion			90.00	21.06.23,1 3.07.23,14. 07.23	
115	River Dharala ( L/B)	CoochBehar/ Mathabhanga-II	Nishiganj-I	Unprotected Zone at Kodaldhowa area			400.00			Severe Bank erosion			90.00	21.06.23,1 3.07.23,14. 07.23	DPR Submitted
<b>Metropolitan Drainage Division-II</b>															
1	Intercepting Channel (R/B)	Kolkata/ KMC	Laskarhat/ Ward No. - 107 (Naskarhat Dakshin Para)	R/B of Intercepting channel (2420 m to 2720 m)	22.515710, 88.398238 @ Starting point (2420) 22.518154, 88.398457 @ end point (2720)		300.00	300.00	1	Rain cut & subsidence	Incessant rain & depression		4.86	5.9.23	
<b>Malda Irrigation Division</b>															
1	Kalindri (R/B)	Malda/English Bazar	Milky/ Altgama/ Miapara	Right bank of Kalindri	25°03'3.85", 87°99'81.26"		120.00	60.00		Rain Cut, Slip	Incessant Rain,		70.00	18-06-23 to 30-07-23	
2	Kalindri (R/B)	Malda/ Manikchak	Choki mirdadpur/ Klindri high school/ Palpara/ Islampur	Right bank of Kalindri	25°06'20.01", 87°96'46.57"		150.00	110.00		Rain Cut ,Slip,	Incessant Rain		280.00	20-10-23 to 05-11-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3	Kalindri (R/B)	Malda/ Manikchak	Choki mirdadpur/ Bangal chak/ Palpara/ Bangalchawk to Chotto Dharampur	Right bank of Kalindri	25°05'35", 87°98'50"		850.00			Erosion	Incessant Rain, Depression & slip		317.00	18-04-23 to 25-12-23	
4	Nurshing Kuppa Chanel (R/B)	Malda/English Bazar	Jhaljhalia/ Railway diesel loco shed	Nurshing Kuppa Embankment (R/B)	25.039758, 88.207905		200.00	10.00		Rain Cut	Incessant Rain & Depression		10.00	15-06-23 to 25-01.2024	
5	Nurshing Kuppa Chanel (L/B)	Malda/English Bazar	Jhaljhalia/ Railway diesel loco shed	Nurshing Kuppa Embankment (L/B)	25°02'24.81" 88°12'26.33"		100.00	5.00		Rain Cut	Incessant Rain & Depression		5.00	15-06-23 to 25-01.2024	
6	Tangon River (R/B)	Malda/ Gazole	Kodubari Ghat	Embankment cum village road of River Tangon	25.2847, 88.4091		38.00			Breach	Incessant Rain & Depression		11.77	22-09-23 to 23-09-23	
7	Tangon River (R/B)	Malda/ Gazole	Mathamora	Embankment cum village road of River Tangon	25.2727, 88.4080		6.50			Slip,	Incessant Rain & Depression		2.88	22-09-23 to 23-09-2024	
8	Borkol Danra Channel	Malda / Ratua-II	Pirganj	Embankment of Borkol Danra Channel.	25.1047, 88.0751		15.00			Breach	Incessant Rain, Depression, Erosion		6.91	15-09-23 to 30/09/23	
9	Gahula Danra Channel	Malda / Old Malda	Mahishbathani	Left & Right bank of Gahula Danra Channel	25.0921, 88.0974		85.00			Slip	Incessant Rain, Depression, Erosion		21.51	5-09-23 to 30/09/23	
10	Mahananda River	Malda / Old Malda	Mahishbathani	Left bank of Mahananda	25.0815, 88.1008		20.00			Rain Cut, Slip	Incessant Rain, Depression, Erosion		4.99	15-07-23 to 30/09/23	
11	Mahananda River	Malda / Old Malda	Mahishbathani	Left bank of Mahananda	25.0734, 88.1159		22.00			Rain Cut, Slip	Incessant Rain, Depression, Erosion		3.58	01-09-23 to 23/09/23	
12	Borkol Danra Channel	Malda / Ratua-II	Pirganj	Left embankment of Borkol Danra Channel.	25.1051 , 88.0749		25.00			Breach	Incessant Rain, Depression, Erosion		9.56	29-06-23 to 01/07/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
13	Tangon River (R/B)	Malda / Gazole	Mohammadpur	Right bank of Tangon	25.229488 88.358877		34.00			erosion	Incessant Rain, Depression, Erosion		14.52	15-09-23 to 30/09/23	
14	Punarbhava	Malda/ Bamongola	Madnabati/Kupadaha	R/B	25.234124 88.451173			80.00		Rain cut	Incessant rain		1.04	25.9.23	
15	Brahmani	Malda/ Bamongola	Madhabati/Nalagola	R/B cum ZP road	25.267044 88.42297	16.00				Rain cut	Incessant rain		2.00	27.9.23	
16	Haria	Malda/ Bamongola	Chandpur/Chotopathari	R/B cum village road	25.179971 88.431525	32.00				Breach	Incessant rain		14.41	27.9.23	
17	Haria	Malda/ Bamongola	Chandpur/Chotopathari	R/B cum village road	25.180073 88.431313	25.00				Breach	Incessant rain		11.00	27.9.23	
18	Haria	Malda/ Bamongola	Chandpur/Chotopathari	R/B cum village road	25.178477 88.426425	30.50				Breach	Incessant rain		14.58	27.9.23	
19	Haria	Malda/ Bamongola	Jogdala/Adadanga	R/B cum village road	25.124399 88.423142	130.00				Erosion	Incessant rain		19.00	18.7.23	
20	Punarbhava	Malda/ Bamongola	Gobindapur-Maheshpur/Moinaphola	R/B	25.215216 88.440625			90.00		Rain cut	Incessant rain		7.00	2.7.23	
21	Punarbhava	Malda/ Bamongola	Madnabati/Dakshin Kupadaha	R/B	25.234124 88.451173			180.00		Rain cut	Incessant rain		5.00	25.9.23	
22	Punarbhava	Malda/ Bamongola	Madnabati/Kupadaha	R/B	25.245214 88.459003			65.00		Rain cut	Incessant rain		5.00	2.7.23	
23	Haria	Malda/ Bamongola	Chandpur/Battoli	R/B	25.181133 88.436593			40.00		Slip	Incessant rain		25.00	18.7.23	
24	Tangon	Malda/ Bamongola	Janokidaha/Khoksan	L/B	25.287179 88.401149	450.00				Erosion	Incessant rain		225.00	22.9.23	
25	Tangon	Malda/ Habibpur	Khosbaspara/Aiho	L/B	24.95931 88.234745			75.00		Subsidence	Incessant rain		15.00	23.9.23	
26	Tangon	Malda/ Habibpur	Somananitola/Aiho	L/B	24.967148 88.243228			35.00		Slip	Incessant rain		5.00	23.9.23	
27	Tangon	Malda/ Habibpur	Mansamata Mandir/Aiho	L/B	24.961497 88.239604			40.00		Subsidence	Incessant rain		5.00	23.9.23	
28	Ganga (L/B)	Malda / Manikchak	Keshorpur / Keshorpur	Bhutnidiara Circuit Embankment / 16.200 KM- 17.400	25°11'45.95" 87°49'39.73"		1200.00	1300.00	34	Rain Cut,Erosion, Damage of Protection Work,	Incessant Rain, Depression, Erosion		1050.00	19-07-23 to 30-09-23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
29	Ganga (L/B)	Malda / Ratua-I	Mahanandatola / Gada Mahajpur	L/B	25°14'44.68", 87°50'21.23"		4580.00		40	Erosion,	Incessant Rain, Depression, Erosion		80.00	19-07-23 to 30-09-23	restoration done at Kalutontola & Srikantola for a length 142m
30	Koshi (R/B)	Malda / Ratua-I	BILAIMARI / Paschim Ratanpur/ Gada Mahajpur	Bhutnidiara Circuit Embankment / 17.400 KM- 17.800 KM	25°11'56.32", 87°50'11.13"		400.00			Rain Cut, Erosion,	Incessant Rain, Depression, Erosion		90.00	19-07-23 to 30-09-23	
31	Ganga (L/B)	Malda / Manikchak	Hiranandapur	Ganga left bank	25.156261° 87.810126°		90.00	60.00		Rain Cut,Erosion, Damage of Protection Work,	Incessant Rain, Depression, Erosion		45.00	18-08-23 to 30-09-23	
32	Ganga (L/B)	Malda / Manikchak & Englishbazar	Gopalpur	Ganga left bank	25.027113° 87.964262°		110			Erosion	Incessant Rain, Depression, Erosion		610.00	1-08-23 to 20-10-23	
33	Ganga (L/B)	Malda / Manikchak	Narayanpur	Ganga left bank	25°03'56.12", 87°52'36.81"		200	200.00		Rain Cut,Erosion, Damage of Protection Work,	Incessant Rain, Depression, Erosion		1050.00	18-08-23 to 30-09-23	
34	Ganga (L/B)	Malda / Kaliachak III	Pardeonapur - Sovapur / Golapmondal para/ Deonapur	Left bank of Ganga	24°42'44.59", 87°57'53.87"		1000.00	50.00		Rain Cut, Erosion,	Incessant Rain, Depression, Erosion		350.00	19-07-23 to 30-09-23	Work has been completed
35	Ganga (L/B)	Malda / Kaliachak III	Pardeonapur - Sovapur / Anupnagar	Left bank of Ganga	24°41'37.24", 87°57'56.29"		100.00			Rain Cut, Erosion,	Incessant Rain, Depression, Erosion		100.00	19-07-23 to 30-09-23	Work has been completed

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
36	Ganga (L/B)	Malda / Kaliachak III	Pardeonapur - Sovapur / Parpalpur	Left bank of Ganga	24°41'28.09", 87°57'54.13"		25.00			Rain Cut,	Incessant Rain, Depression, Erosion		20.00	19-07-23 to 30-09-23	Work has been completed
37	Ganga (L/B)	Malda / Kaliachak II	Panchanandapur	Marginal Embankment	24°55'30", 87°58'59"		100.00			Rain Cut,	Incessant Rain, Depression, Erosion			15-07-23 to 27/09/23	
38	Ganga (L/B)	Malda / Kaliachak II	Panchanandapur	Marginal Embankment	24°55'14", 87°58'55"		150.00			Rain Cut,	Incessant Rain, Depression, Erosion			15-07-23 to 27/09/23	
39	Old Bhagirathi River both Bank	Malda / Englishbazar	Mahadebpur	Both guide Banks of Pagli Kali Regulating structure	24°59'04", 87°59'37"		100.00			Rain Cut,	Incessant Rain, Depression, Erosion			15-09-23 to 30/09/24	
<b>Mahananda Embankment Division</b>															
1	Mora Mahananda (LB)	Malda/ Ratua-II	Maharajpur/Sultangunj	L/B of Mora Mahananda	25.132964, 88.037485			15.00		slip & subsidence	heavy rainfall		3.85	31/08/23 to 02/09/23	-
2	Mora Mahananda (RB)	Malda/ Ratua-II	Pirgunj/ Kutubgunj	R/B of Mora Mahananda	25.129626, 88.039805		60.00			slip & erosion	heavy rainfall		4.00	01/10/23 to 10/10/23	-
3	Mahananda (RB)	Malda/ Ratua-II	Maharajpur/Maharajpur	R/B of Mahananda	25.180910, 88.076556		25.00			raincut & subsidence	heavy rainfall		1.50	01/10/23 to 15/10/23	-
4	Fulahar (LB)	Malda/ Ratua-I	Kahala / Surjapur / Surjapur	Left Bank / Left Fulahar Embkt.	25.207196, 87.893237			200.00		Subsidence / Erosion	Draw-down effect		150.00	01/10/23 to 15/10/23	
5	Fulahar (LB)	Malda/ Ratua-I	Kahala / Kamalpur / Bishnupur Laxmipur	Left Bank / Left Fulahar Embkt.	25.2336, 87.892136			300.00		Subsidence / Erosion	Due to extreme velocity of river		170.00	10/07/23 to 30/09/23	
6	Fulahar (RB)	Malda/ Ratua-I	Belaimari / Ramayanpur, Ruhimari / Maniknagar	Right Bank	25.224633, 87.856286		600.00			Erosion	Due to extreme velocity of river		250.00	01/07/23 to 15/09/23	
7	Fulahar (LB)	Malda/ Ratua-I	Debjpur / Debjpur / Nandanpur Gopalpur	Left Bank / Left Fulahar Embkt.	25.213182, 87.893184		800.00			Rain cut &Subsidence	Incessant rain		7.00	01/09/23 to 15/10/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
8	Fulahar (LB)	Malda/ Ratua-I	Kahala / Nimtala / Araji Harogovindapur	Left Bank / Left Fulahar Embkt.	25.177009, 87.917250		1500.00			Rain cut &Subsidence	Incessant rain		7.50	01/09/23 to 15/10/23	
9	Fulahar (LB)	Malda/ Ratua-I	Baharal / Sahapur / Sahapur	Left Bank / Left Fulahar Embkt.	25.170992, 87.923980		700.00			Rain cut &Subsidence	Incessant rain		5.50	01/09/23 to 15/10/23	
10	Fulahar (LB)	Malda/ Ratua-I	Baharal / Baharal / Kosba	Left Bank / Left Fulahar Embkt.	25.168554, 87.934670		300.00			Rain cut &Subsidence	Incessant rain		1.00	01/09/23 to 15/10/23	
11	Mora Mahananda(R B)	Malda/ Ratua-II	Sambalpur/Sambalpur	Sambalpur circuit embankment	25.184759, 88.031008		20.00			Rain cut &Subsidence	heavy rainfall		2.90	21.9.23	-
12	Mahananda (RB)	Malda/ Harishchandrapu r-I	Boroi/ Boroi	Mahananda Embankment (Barsoi branch)R/B , Ch.0.0Km to Ch.5.0Km	25.503911, 87.987542		280.00			Rain cut	Incessant rain		4.90	01/09/23 to 15/10/23	
13	Mahananda (RB)	Malda/ Harishchandrapu r-I	Boroi/ Parashtola	Mahananda Embankment (Barsoi branch)R/B , Ch.5.0Km to Ch.8.0Km	25.500661, 87.988933		270.00			Rain cut	Incessant rain		4.80	01/09/23 to 15/10/23	under tender process
14	Mahananda (RB)	Malda/ Chanchal- I	Mahanandapur/ Mallikpara	Mahananda Embankment (Barsoi branch)R/B , Ch.9.0Km to Ch.12.0Km	25.488439, 88.023314		265.00			Rain cut	Incessant rain		4.50	01/09/23 to 15/10/23	under tender process
15	Mahananda (RB)	Malda/ Chanchal- I	Mahanandapur/ Dhanjana Harian Road	Mahananda Embankment (Barsoi branch)R/B , Ch.12.0Km to Ch.14.0Km	25.485058, 88.050042		280.00			Rain cut	Incessant rain		4.90	01/09/23 to 15/10/23	under tender process

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
16	Mahananda (RB)	Malda/ Chanchal-I	Bhagabanpur/ Ramdebpur	Mahananda Embankment (Barsoi branch)R/B , Ch.15.0Km to Ch.20.0Km	25.472875, 88.070919		290.00			Rain cut	Incessant rain		4.90	01/09/23 to 15/10/23	under tender process
17	Mahananda River (RB)	Malda/ -Chanchal-II	Chandrapara/ Bochkapara	Mahananda Embankment (Ch.27Km to Ch.28Km)	25.380823, 88.115562		270.00			Raincut and Slip	Incessant rain		3.45	1/09/23 to 15/10/23	under tender process
18	Mahananda River (RB)	Malda/ -Chanchal-II	Chandrapara/Kanaipur	Mahananda Embankment (Ch.28.50Km to Ch.29.50Km)	25.357463, 88.112511		300.00			Raincut and Slip	Incessant rain		4.55	1/09/23 to 15/10/23	under tender process
19	Mahananda River (RB)	Malda/ -Chanchal-II	Chandrapara/Balarampur	Mahananda Embankment (Ch.31 Km to Ch.32.50Km)	25.341827, 88.111263		250.00			Raincut and Slip	Incessant rain		4.98	1/09/23 to 15/10/23	under tender process
20	Mahananda River (RB)	Malda/ -Chanchal-II	Chandrapara/Mathurapur	Mahananda Embankment (Ch.33Km to Ch.34.20Km)	25.387232, 88.095724		210.00			Raincut and Slip	Incessant rain		5.00	1/09/23 to 15/10/23	under tender process
21	Mahananda River (RB)	Malda/ -Chanchal-II	Chandrapara/Chandrapara/Baharabad	Mahananda Embankment (Ch.35.50Km to Ch.36.00 Km)	25.319957, 88.100865		320.00			Raincut and Slip	Incessant rain		4.35	1/09/23 to 15/10/23	under tender process
22	Mahananda (Barsoi branch)	Malda/ Ratua-II	Sreepur-I / Harirampur	Mahananda Embankment (Barsoi branch) R/B , Ch.41Km to Ch.42Km	25.262089, 88.093152		350.00			Rain cut	Incessant rain		4.90	1/09/23 to 15/10/23	under tender process
23	Mahananda(B arsoi branch)	Malda/ Ratua-II	Sripur-II/Chator	Mahananda river R/B	25.224 153, 88.081136			30.00		Subsidence	Incessant rain		4.45	23.9.23	under tender process

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
24	Mahananda (Barsoi branch)	Malda/ Ratua-II	Sreepur-I / Magura khod	Mahananda Embankment (Barsoi branch) R/B , (Ch.43Km to 44 Km)	25.261613, 88.092508		280.00			Rain cut	Incessant rain		4.95	1/09/23 to 15/10/23	under tender process
25	Mahananda (Sambalpur circuit)	Malda/ Ratua-II	Sripur-II/Raninagar(Maharajpur area)	Mahananda RIVER R/B	25.1923, 88.09048			40.00		Subsidence	Incessant rain		3.70	25.9.23	under tender process
26	Mahananda	Malda/ Ratua-II	Sripur-II/Raninagar	Mahananda RIVER R/B	25.201872, 88.078015		23.00			Subsidence	Incessant rain		6.10	25.9.23	
27	Fulahar	Malda/ Harishchandrapur-II	Islampur/ Rashidpur /rasudpur	R/B	25.318622, 87.822767		239.00			Erosion	Incessant rain& passing of high discharge	0.58	79.35	01/07/23 to 31/08/23	
28	Fulahar	Malda/ Harishchandrapur-II	Islampur/ Uttar Bhakuria/ Uttar Bhakuria	R/B	25.340831, 87.799028		100.00			Erosion	Incessant rain& passing of high discharge		39.65	01/09/23 to 15/10/23	
29	Fulahar	Malda/ Harishchandrapur-II	Bhaluka /Bhaluka/ Fatepur	Left Embankment	25.306881, 87.850832		80.00			Slip / Rain cut	Incessant rain		2.95	01/10/23 to 15/10/23	
<b>South Dinajpur Irrigation Division</b>															
1	Atrai (R/B)	Dakshin Dinajpur/ Kumarganj	Deor	Jhaobari B.P work	25.3608, 88.7332			22.00		Rain Cut	Incessant Rain	0.13	0.76	08.08.23	Waterlogged Area
2	Atrai (R/B)	Dakshin Dinajpur/ Balurghat	Chackbhatsala/ Jalghar	Unprotected area of bank	25.1848, 88.7575			300.00		Erosion	Incessant Rain	0.24	5.93	28.08.23	Waterlogged Area
3	Atrai (L/B)	Dakshin Dinajpur/ Kumarganj	Brahmapur/ Ramkrishnapur	Unprotected area of bank	25.46, 88.73			100.00		Erosion	Incessant Rain	0.75	4.31	27.08.23	Waterlogged Area
4	Punarbhava (R/B)	Dakshin Dinajpur/ Gangarampur	Sukhdevpur	Kathalhat-Hossaipur Ex-Zamindary Embankment	25.4893, 88.5383	50.00		50.00		Breach	Incessant Rain		19.71	25.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5	Punarhabba (R/B)	Dakshin Dinajpur/ Gangarampur	Sukhdevpur	Chowdhury Para, Kathalhat-Hossaipur Ex-Zamindary Embankment	25.4893, 88.5383	50.00		50.00		Breach	Incessant Rain	0.86	19.94	25.09.23	same spot
6	Punarhabba (R/B)	Dakshin Dinajpur/ TAPAN	Rampara Chanchra	Chackjamalpur - Haritala, Local Embankment	25.3037, 88.485	50.00		50.00		Breach	Incessant Rain	1.17	19.93	25.09.23	same spot
7	Punarhabba (R/B)	Dakshin Dinajpur/ TAPAN	Rampara Chanchra	Chackjamalpur - Haritala, Local Embankment	25.3037, 88.485	50.00		50.00		Breach	Incessant Rain		19.97	25.09.23	
8	TANGON (R/B)	Dakshin Dinajpur/ Kushmandi	1 no Maligaon	Dhak Dhol Ex - Zamindary Embankment	88.4312, 25.5409	10.50		10.50		Breach	Incessant Rain	0.77	1.99	24.09.23	
9	Atrai (L/B)	Dakshin Dinajpur/ Balurghat	Mayamari	Chackvrigu Mayamari Embankment	25.2213, 88.7583			45.00		0	Incessant Rain	0.10	1.55	24.09.23	Waterlogged Area
10	Atrai (L/B)	Dakshin Dinajpur/ Balurghat	Raghunathpur	Raghunathpur Embankment	25.2486, 88.777			70.00		0	Incessant Rain	0.16	1.94	21.09.23	Waterlogged Area
11	Punarhabba (R/B)	Dakshin Dinajpur/ Gangarampur	Gangarampur	Indranarayanpur Govt. Colony & Rampara Chanchra Local Embankment	25.3659, 88.4952			30.00		0	Incessant Rain	0.55	2.96	25.09.23	Waterlogged Area
12	Punarhabba (R/B)	Dakshin Dinajpur/ TAPAN	Sutail	Sutail Local Embankment	25.3432, 88.4924			32.00		0	Incessant Rain	0.57	17.8	28.09.23	Waterlogged Area
13	Punarhabba (R/B)	Dakshin Dinajpur/ Gangarampur	Gangarampur	Katalour Local Embankment	25.4465, 88.5389	10.00		10.00		BREACH	Incessant Rain	2.64	4.94	04.10.23	
14	Atrai (L/B)	Dakshin Dinajpur/ Kumarganj	Mohona	Chandpur Embankment	25.3928, 88.7398			30.00		0	Incessant Rain	0.70	7.87	04.10.23	Waterlogged Area

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
15	Punarbhava (L/B)	Dakshin Dinajpur/ Gangarampur	Purba Jadavbati	Purba Jadavbati local Embankment	25.3502, 88.4912	34.00		34.00		Breach	Incessant Rain	0.91	15.48	24.09.23	near by locations
16	Punarbhava (L/B)	Dakshin Dinajpur/ TAPAN	Jadavbati	Jadavbati local Embankment	25.351, 88.4912	15.00		15.00		BREACH	Incessant Rain		6.35	24.09.23	
17	TANGON (L/B)	Dakshin Dinajpur/ Banshkhari	Elahabad	D/S of Chockvola Embankment	25.46, 88.40			40.00		Damage to protection	Incessant Rain		10.20	24.09.23	
<b>Mayurakshi Canal Circle</b>															
1	Ajoy (L/B)	Birbhum / Bolpur-Santiniketan	Panchoa Bahiri/ Itanda		23.5907377, 87.7569558		18.00			Rain cuts & Slip	incessant rainfall		10.00	2.10.23	
2	Ajoy (L/B)	Birbhum / Nanoor	Tupsara/ Kargram		23.5617375, 87.8822414		100.00			Rain cuts & Slip	incessant rainfall		15.00	3.10.23	
3	Ajoy (L/B)	Paschim Bardhaman / Ketugram II	Pandigram/ Charki		23.637185, 87.995640		100.00			Rain cuts & Slip	incessant rainfall		10.00	3.10.23	
4	Kuye-Babla (R/B)	Murshidabad / Bharatpur I	Talgram/ Talgram		23.8647884, 88.0411093		70.00			Rain cuts & Slip	incessant rainfall		7.00	3.10.23	
5	Brahmani (L/B)	Birbhum/ - Nalhati-II,	Parkuta/ Shitalgram/ Berashimul	Left Embankment, Ch. 200.0 to Ch 202.0	24.210555, 87.956389	25.00				Breach	Incessant Rain	1.50	19.84	23.09.23	Breach closing completed
6	Brahmani (R/B)	Birbhum/ Rampurhat-II	Balsa/ Dunigram/ Balsa	Right Bank Ch 20.400 to Ch20.500	24.223357, 87.951346		100.00			Erosion	Flood Discharge		10.00	23.09.23	
7	Brahmani (R/B)	Birbhum/ Rampurhat-II	Balsa/ Dunigram/ Balsa	Right Bank Ch 20.580 to Ch20.650	24.222291, 87.951827		70.00			Slip	Flood Discharge		8.00	23.09.23	
8	Brahmani (R/B)	Birbhum/ Rampurhat-II	Purba Gopalpur/ Dunigram/ Purba Gopalpur	Right Bank Ch 23.500 to Ch23.600	24.200786, 87.960572		100.00			Slip	Flood Discharge		10.00	23.09.23	
<b>West Midnapore Division</b>															

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	River Shilabati	Paschim Medinipur / Daspur-I	Daspur- I / Sujanagar/ Sujanagar	Chetua Circuit Embankment along right bank	22.617400, 87.715900			150.00		Slip	Very heavy rainfall at Ghatal occurred for 197.40 mm from 01/08/23 to 04/08/23		16.18	08.04.23	
2	River Shilabati	Paschim Medinipur / Daspur-I	Daspur- I / Ghadghat/ Ghadghat	Chetua Circuit Embankment along right bank	22.630245, 87.718338			40.00		Slip			3.82	9.4.23	
3	River Palaspai	Paschim Medinipur / Daspur-II	Palaspai / Ajuria, Palaspai &Joteghanashyam/ Ajuria, Palaspai & Joteghanashyam	Cetua Circuit Embankment along left bank	22.520127, 87.779737			52.25		Raincut	Very heavy and intermittent rainfall at Ghatal occurred for 235.20 mm from 04/09/23 to 04/09/23		0.95	9.5.23	
4	River Palaspai	Paschim Medinipur / Daspur-II	Gochhati,Goura & Palaspai / Chaksultan, Rampur, Manua, Sitapur & Palaspai	Mohankhali Circuit Embankment along right bank	22.530735, 87.770479			53.50		Raincut			0.97	9.5.23	
5	River Palaspai	Paschim Medinipur / Daspur-II	Gochhati & Goura / Chaksultan, Shinghachak & Rampur	Cetua Circuit Embankment along left bank	22.530735, 87.770479			54.70		Raincut			0.99	9.5.23	
6	River Durbachati	Paschim Medinipur / Daspur-II	Khukurdaha, Sultanpur & Dudhkomra/ Kashinathpur, narayanchak, Maguria & Sribora/ Kashinathpur, narayanchak, Maguria & Sribora	Mohankhali Circuit Embankment along left bank	22.510000, 87.860000			52.70	NIL	Raincut			0.96	9.5.23	
7	River Old Cossye	Paschim Medinipur / Daspur-I	Nandanpur-I / Nandanpur / Nandanpur	Dussaspur Circuit Embankment	22.567508, 87.706195			17.50		Raincut			1.00	9.5.23	
8	River Old Cossye	Paschim Medinipur / Daspur-I	Sarberia-I & II /Dussaspur to Janardanpur/Dussaspur to Janardanpur	Dussaspur Circuit Embankment	22.554820, 87.657182			17.50		Raincut			1.00	9.5.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
9	River Kanki	Paschim Medinipur / Daspur-I	Rajnagar / Jadupur, Rajnagar and Gurli /Jadupur, Rajnagar and Gurli	Cetua Circuit Embankment along right bank of River Kanki	22.574200, 87.666200			41.80		Raincut			0.99	10.4.23	
10	River Shilabati	Paschim Medinipur / Ghatal	Ghatal, Monoharpur-I & II /Pareshnagar, Harishinghpur, Pratappur & Harishpur	Cetua Circuit Embankment along right bank	22.574200, 87.666200			39.80		Raincut			1.00	10.4.23	
11	River Rupnarayan	Paschim Medinipur / Ghatal	Monoharpur-I & Kamalpur / Shyamsundarpur & Jotekanuramgarh	Cetua Circuit Embankment along right bank	22.645805, 87.797880			41.40		Raincut			1.00	10.4.23	
12	River Shilabati	Paschim Medinipur / Daspur-I	Daspur-I & Sarberia I / Sitakundu, Raghunathpur, Sujanagar & Gobindapur	Cetua Circuit Embankment along right bank of River Shilabati	22.650963, 87.726797			20.50		Raincut	Very heavy and intermittent rainfall at Ghatal occurred for 208.80 mm from 30/09/23 to 05/10/23		0.98	10.4.23	
13	River Old Cossye	Paschim Medinipur / Daspur-I	Rajnagar / Hossenpur / Hossenpur	Left Ex-Zamindary Embankment	22.559204, 87.658169			0.00		LEAKAGE & GHOGH REPAIR			0.99	4.10.23	
14	River Jhumi (Darakeswar)	Paschim Medinipur / Ghatal	Mansuka-I / Baganala /Baganala	Left Ex-Zamindary Embankment	22.650963, 87.726797			45.00		Slip			4.16	10.4.23	
15	River Palaspai	Paschim Medinipur / Daspur-I	Panchberia / Uttar Gobindanagar/ Uttar Gobindanagar	Cetua Circuit Embankment along left bank	22.533493, 87.734450			30.00		Raincut			0.99	10.4.23	
16	River Palaspai	Paschim Medinipur / Daspur-II	Panchberia / Uttar Gobindanagar/ Uttar Gobindanagar	Cetua Circuit Embankment along left bank	22.529269, 87.739131			30.00		Raincut			0.99	10.4.23	
17	River Durbachati	Paschim Medinipur / Daspur-I	Panchberia / Uttar Gobindanagar/ Uttar Gobindanagar	Mohankhali Circuit Embankment along left bank	22.510027, 87.734556			28.00		Raincut			0.99	10.4.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
18	River Durbachati	Paschim Medinipur / Daspur-I	Panchberia / Kunjapur /Kunjapur	Mohankhali Circuit Embankment along left bank	22.526883, 87.733544			32.00		Raincut			0.99	10.4.23	
19	Kalaichandi Khal (R/B)	Paschim Medinipur / Midnapore Sadar	6/2 Panchkori/ Cherua	Right Embankment	22.419073, 87.388690		10.00			Breach	Bank Cut by local people due to heavy rainfall on dated 30.09.23 to 04.10.23		4.00	3.10.23	
20	Bhosra Khal (R/B)	Paschim Medinipur / Debra	Chakripani, Malihati	Right Embankment	22.526996, 87.665891			40.00		Slip	Consecutive heavy rainfall on dated 30.09.23 to 04.10.23		12.00	3.10.23	
21	Bhosra Khal (R/B)	Paschim Medinipur / Debra	Tangaishree, Malihati	Right Embankment	22.513039, 87.682247			60.00		Slip	Consecutive heavy rainfall on dated 30.09.23 to 04.10.23		16.00	3.10.23	
22	Midnapore Main Canal (L/B)	Purba Medinipur / Panskura	Uttar Katal, Joykrishnapur	Left Embankment	22.393936, 87.696099		15.00			Breach	Due to out flank of sluice at out fall of MMC		15.00	3.10.23	
23	Cossye (R/B)	Paschim Medinipur / Debra	Kulchi, Shaldahari, Paikpari, Rajnagar	TE1H1 Embankment along the right bank of river Cossye	22.489622, 87.561963			214.52		Raincut	Consecutive heavy rainfall on dated 30.09.23 to 04.10.23		4.00	3.10.23	
24	Cossye (R/B)	Paschim Medinipur / Debra	Joykrishnapur, Malihati, Tinua & Purusottampur	TE2H2 Embankment along the right bank	22.549102, 87.633908			112.35		Raincut	Consecutive heavy rainfall on dated 30.09.23 to 04.10.23		2.00	3.10.23	
25	Cossye & Old Cossye (L/B)	Paschim Medinipur / Keshpur	Ganadiha, Mirpur, Bagru, Biswanathpur	Left Embankment along the river	22.463553, 87.508773			60.00		Raincut	Consecutive heavy rainfall on dated 30.09.23 to 04.10.23		0.99	3.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
26	Subarnarekha L/B	Paschim Medinipur / Dantan-I	Beldangri	Left Bank	21.94768, 87.243464			95.00		Bed Bars (20 Nos.)	Heavy discharge due to heavy rainfall		4.05	05.10.23	
<b>KKB Project Division</b>															
1	Dokhali Khal	Paschim Medinipur / Sabang	2 No. Nowgan / Manikara/ Manikara	Left Ex-Zamindary Embankment	22.129909, 87.584877			90.00		Slip	Very heavy and intermittent rainfall at Sabang occurred for 128.50 mm from 01/07/23 to 09/07/23		7.52	01/07/23 to 09/07/23	
2	Amrakhali Khal	Paschim Medinipur / Sabang	12 No Bural/ Rambhadrapur/ Rambhadrapur	Left Embankment	22.1409950, 87.6564246			115.00		Slip			10.44	01/07/23 to 09/07/23	
3	River Kapaleswari	Paschim Medinipur / Sabang	8 No. Sabang/ Bhua /Bhua-Bansai	Right Embankment	22.168336 , 87.588994			25.00		Slip			1.73	3.10.23	
4	Sundarpur Khal	Paschim Medinipur / Sabang	6 No. Chaulkuri/ Chaulkuri / Chaulkuri & Sundarpur Eral	Left Ex-Zamindary Embankment	22.119037, 87.595219 22.119873, 87.859413			711.00		Dwarf Bundh			2.58	3.10.23	
5	Dokhali Khal	Paschim Medinipur / Sabang	2 No. Nowgan/ Manikara/ Manikara	Left Ex-Zamindary Embankment	22.131185, 87.579450 to 22.127548, 87.590287			854.80		Dwarf Bundh			3.99	3.10.23	
6	River Deuli	Paschim Medinipur / Sabang	6 No. Chaulkuri & 4 No. Dashagram / Nedhua-Kharigaria & Ramchak / Nedhua & Ramchak	Left & Right Ex-Zamindary Embankment	22.099200, 87.547636 to 22.103024, 87.559224			535.00		Dwarf Bundh			2.20	3.10.23	
7	Ganapath Khal	Paschim Medinipur / Sabang	10 No Bhemua/ Amda & Gopalpur/ Amda & Gopalpur	Left Ex-Zamindary Embankment	22.206081, 87.681624			425.00		Dwarf Bundh			1.52	3.10.23	
8	Debi Khal	Paschim Medinipur / Sabang	11 No. Mohar/ Mohar/ Dubrajpur	Left Ex-Zamindary Embankment	22.129606, 87.583603			120.00		DB			0.99	3.10.23	
9	Kalchity Khal	Paschim Medinipur / Sabang	12 No Bural/ Bural/ Bhattacharya, Bural	Left Ex-Zamindary Embankment	22.166873, 87.637314			550.00		Dwarf Bundh			1.78	3.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
10	Kalchity Khal	Paschim Medinipur / Sabang	7 No Narayanbarh/ Kapasda/ Bhattacharya, Kapasda	Right Ex-Zamindary Embankment	22.166446, 87.637179			350.00		Dwarf Bundh		0.99	3.10.23		
11	Amrakhali Khal	Paschim Medinipur / Sabang	13 No Bishnupur/ Bishnupur/ Bishnupur Uttarbundh	Right Ex-Zamindary Embankment	22.138636, 87.64408			320.00		Dwarf Bundh		0.99	3.10.23		
12	Amrakhali Khal	Paschim Medinipur / Sabang	7 No Narayanbarh/ Hariharpur, Kalyanpur/ Hariharpur, Kalyanpur	Right Ex-Zamindary Embankment	22.138430, 87.629530			586.00		Dwarf Bundh		2.04	3.10.23		
13	Amrakhali Khal	Paschim Medinipur / Sabang	7 No Narayanbarh/ Bhanjupur/ Bhanjupur	Left Ex-Zamindary Embankment	22.139141, 87.625216			290.00		Dwarf Bundh		0.97	3.10.23		
14	Kalchity Khal	Paschim Medinipur / Sabang	7 No Narayanbarh/ Kundra / Kundra, Gumai Kapasda	Left Ex-Zamindary Embankment	22.157241, 87.633525			355.00		Dwarf Bundh		0.49	1.20	3.10.23	Waterlogged Area
15	Bagmari Khal	Paschim Medinipur / Sabang	12 No Bural/ Bahabali/ Bahabali	Right Ex-Zamindary Embankment	22.172149, 87.658754			173.00		Dwarf Bundh		0.62	0.55	3.10.23	Waterlogged Area
16	Kapaleswari	Paschim Medinipur / Sabang	6 No. Chaulkuri & 7 No. Naryanbarh / Gopalchak & Makhal / Naryanbarh & Gopalchak	Left & Right Embankment	22.133945, 87.602385					Gomunda Sluice & Gopalchak Sluice		0.99	3.10.23		
17	Dokhali Khal	Paschim Medinipur / Sabang	6 No. Chaulkuri / Kharika / Kharika	Right Ex-Zamindary Embankment	22.128395, 87.588289 to 22.103763, 87.618770			947.00		Dwarf Bundh		4.10	3.10.23		
18	Banskona Khal	Paschim Medinipur / Sabang	11 No Mohar/ Basulia/ Basulia	Right Ex-Zamindary Embankment	22.194984, 87.709015			60.00		Slip		4.08	3.10.23		
19	Ganapath Khal	Paschim Medinipur / Sabang	11 No Mohar/ Basulia/ Basulia	Left Ex-Zamindary Embankment	22.182221, 87.70466			40.00		Slip		2.83	3.10.23		

Very heavy and intermittent rainfall at Sabang occurred for 97.50mm on 02.10.23 and 438.50mm on 03.10.23

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
20	Amrakhali Khal	Paschim Medinipur / Sabang	12 No Bural/ Rambhadrapur/ Rambhadrapur	Left Ex-Zamindary Embankment	22.140995, 87.656424			150.00		Slip			10.03	3.10.23	
21	Amrakhali Khal	Paschim Medinipur / Sabang	13 No Bishnupur/ Murarichak/ Murarichak	Right Ex-Zamindary Embankment	22.147112, 87.687864			60.00		Slip			4.02	3.10.23	
22	Amrakhali Khal	Paschim Medinipur / Sabang	13 No Bishnupur/ Bishnupur/ Bishnupur Bazar	Right Ex-Zamindary Embankment	22.139712, 87.671161			30.00		Slip			2.03	3.10.23	
23	Amrakhali Khal	Paschim Medinipur / Sabang	12 No Bural/ Rambhadrapur/ Rambhadrapur	Left Ex-Zamindary Embankment	22.141142, 87.655711			80.00		Slip			5.49	3.10.23	
24	Amrakhali Khal	Paschim Medinipur / Sabang	12 No Bural/ Rambhadrapur/ Rambhadrapur	Left Ex-Zamindary Embankment	22.140648, 87.653402			40.00		Slip			2.73	3.10.23	
25	River Kapaleswari	Paschim Medinipur / Sabang	8 No. Sabang/ Barjiban/ Barjiban /Ch. 2.215	Left Embankment	22.194081, 87.586951			75.00		Slip			6.50	3.10.23	
26	River Kapaleswari	Paschim Medinipur / Sabang	8 No. Sabang/ Barjiban/ Barjiban /Ch. 2.150	Left Embankment	22.194968, 87.587004			55.00		Slip			4.66	3.10.23	
27	Debi Khal	Paschim Medinipur / Sabang	11 No. Mohar/ Mohar/ Dubrajpur	Left Ex-Zamindary Embankment	22.184184, 87.722351			40.00		Slip			2.56	3.10.23	
28	Jarura Khal	Paschim Medinipur / Sabang	8 No. Sabang/ Nandapura/ Nandapura	Left Ex-Zamindary Embankment	22.178240, 87.581512			30.00		Breach			7.06	3.10.23	
29	Kalimondop Khal	Paschim Medinipur / Sabang	11 No. Mohar/ Uttar Nimki Mohar/ Uttar Nimki Mohar	Left Ex-Zamindary Embankment	22.1620401, 87.6961679			40.00		Slip			3.77	3.10.23	
30	Jarura Khal	Paschim Medinipur / Sabang	8 No. Sabang/ Nandapura/ Nandapura	Left Ex-Zamindary Embankment	22.177972, 87.580268			60.00		Slip			5.98	3.10.23	
31	River Deuli	Paschim Medinipur / Sabang	6 No. Chaulkuri / Nedhua - Kharigaria / Nedhua	Left Ex-Zamindary Embankment	22.097192, 87.561685			85.00		Slip			5.80	3.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
32	River Deuli	Paschim Medinipur / Sabang	4 No. Dashagram/Routrabari /Keshiabheri	Right Ex-Zamindary Embankment	22.099707, 87.549777			300.00		Slip			19.96	3.10.23	
33	River Sundarpur	Paschim Medinipur / Sabang	6 No. Chaulkuri /Eral/Uttar Eral	Left Ex-Zamindary Embankment	22.125848, 87.593347			45.00		Slip			3.05	3.10.23	
34	River Deuli	Paschim Medinipur / Sabang	6 No. Chaulkuri / Nedhua - Kharigaria / Nedhua	Left Ex-Zamindary Embankment	22.097909, 87.560859			170.00		Slip			11.72	3.10.23	
35	Amrakhali Khal	Paschim Medinipur / Sabang	13 No Bishnupur/ Murarichak/ Murarichak	Right Ex-Zamindary Embankment	22.1481571, 87.6879627			75.00		Slip	Very heavy and intermittent rainfall at Sabang occurred for 128.50 mm from 01/07/23 to 09/07/23		5.64	01/07/23 to 09/07/23	
36	River Deuli	Paschim Medinipur / Sabang	4 No. Dashagram/Bangaldari /Bangaldari	Right Ex-Zamindary Embankment	22.098055, 87.558335			66.00		Slip			5.04	01/07/23 to 09/07/23	
37	River Kapaleswari	Paschim Medinipur / Sabang	6 No. Chaulkuri & 7 No. Naryanbarh/ Andulia & Bhua Bansai/ Andulia, Chaulkuri & Bhua Bansai	Right Embankment	22.131602, 87.600001			65.00		Slip	Very heavy and intermittent rainfall at Sabang occurred for 97.50mm on 02.10.23 and 438.50mm on 03.10.23		6.29	3.10.23	
<b>Eastern Circle</b>															
1	Muriganga	South 24 Pgs/- Namkhana	Kusumtala	L/B Ch. 4.60 to 4.70	21.650327, 88.193232			35.00		Protection	Kotal		13.00	04.06.23 to 07.06.23	
2	Chenagn	South 24 Pgs/- Namkhana	Baliara	R/B Ch.12.68 to 12.98	21.626443, 88.213942		300.00			Erosion	Kotal		13.37	04.06.23 to 07.06.23	
3	Bay of Bengal	South 24 Pgs/- Namkhana	Baliara	Ch.8.14 to 8.26	21.620775, 88.201642		120.00			Erosion	Kotal		14.70	04.06.23 to 07.06.23	
4	Bay of Bengal	South 24 Pgs/- Namkhana	Patibunia	Ch. 5.80 to 5.995	21.6105272, 88.23057932		195.00			Erosion	Kotal		18.16	04.06.23 to 07.06.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5	Bay of Bengal	South 24 Pgs/- Namkhana	Baliara	Ch.7.83 to 8.95	21.620995, 88.201682		120.00			Erosion	Kotal		16.50	04.06.23 to 07.06.23	
6	Bay of Bengal	South 24 Pgs/- Namkhana	Baliara	Ch. 10.18 to 10.255	21.607447, 88.205485		75.00			Erosion	Kotal		11.51	04.06.23 to 07.06.23	
7	Bay of Bengal	South 24 Pgs/- Patharpratima	Gobardhanpur	Ch. 2.475 to 2.675	21.604795, 88.398267			200.00		Protection	Kotal		11.98	04.06.23 to 07.06.23	
8	Bay of Bengal	South 24 Pgs/ Sagar	Shibpur	Ch. 21.95 to 22.10	21.637601 88.13854		150.00			Erosion	Kotal		11.98	04.06.23 to 07.06.23	
9	Hooghly River	South 24 Pgs/ Sagar	Mandirtala	L/B Ch. 9.55 to 9.77	21.621521, 88.098946			145.00		Protection	Kotal		16.97	04.06.23 to 07.06.23	
10	Hooghly River	South 24 Pgs/ Sagar	Sapkhalli	L/B Ch. 8.00 to 8.10	21.621521, 88.098946			100.00		Protection	Kotal		12.09	04.06.23 to 07.06.23	
11	Muriganga	South 24 Pgs/ Sagar	Ghoramara	R/B Ch. 5.50 to 5.95	21.924426, 88.12787		450.00			Erosion	Kotal		14.70	04.06.23 to 07.06.23	
12	Hooghly River	South 24 Pgs/ Sagar	Bamunkhali	L/B Ch. 8.70 to 8.77	21.924426, 88.12787		70.00			Erosion	Kotal		11.60	04.06.23 to 07.06.23	
13	Muriganga	South 24 Pgs/ Kakdwip	Budhakhali	L/B Ch. 25.34 to 25.49	21.817872, 88.204051			150.00		Protection	Kotal		14.99	04.06.23 to 07.06.23	
14	Hatania- Doania	South 24 Pgs/ Namkhana	Iswaripur	R/B Ch. 7.42 to 8.37	21.743935, 88.271694		550.00			Erosion	Kotal		16.67	04.06.23 to 07.06.23	
15	Muriganga	South 24 Pgs/ Namkhana	Kusumtala	L/B Ch. 4.79 to 4.835	21.659429, 88.189679			25.00		Protection	Kotal		9.29	02.07.23 to 06.07.23	
16	Bay of Bengal	South 24 Pgs/ Namkhana	Baliara	Ch.8.05 to 8.135	21.621122, 88.201604		80.00			Erosion	Kotal		9.80	02.07.23 to 06.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	Bay of Bengal	South 24 Pgs/ Namkhana	Patibunia	Ch.6.52 to 6.57	21.6083618, 88.23442058		50.00			Erosion	Kotal		8.06	02.07.23 to 06.07.23	
18	Chenagnng	South 24 Pgs/ Namkhana	Patibunia	L/B Ch.0.95 to 1.17	21.61153, 88.227688		220.00			Erosion	Kotal		8.20	02.07.23 to 06.07.23	
19	Bay of Bengal	South 24 Pgs/ Patharpratima	Gobardhanpur	Ch.2.13 to 2.35	21.609633, 88.401768			220.00		Protection	Kotal		9.97	02.07.23 to 06.07.23	
20	Bay of Bengal	South 24 Pgs/ Patharpratima	Gobardhanpur	Ch..57 to 0.69	21.6013082, 88.402691			120.00		Protection	Kotal		4.97	02.07.23 to 06.07.23	
21	Bay of Bengal	South 24 Pgs/ Patharpratima	Gobardhanpur	Ch.2.19 to 2.26	21.604766, 88.398304			70.00		Protection	Kotal		9.53	02.07.23 to 06.07.23	
22	Bay of Bengal	South 24 Pgs/- Sagar	Chemaguri	Ch.27.10 to 27.25	21.638402, 88.139998		150.00			Erosion	Kotal		4.99	02.07.23 to 06.07.23	
23	Bay of Bengal	South 24 Pgs/ Sagar	Bugakhali	Ch.2.10 to 2.20	21.63317, 88.076163		100.00			Erosion	Kotal		9.50	02.07.23 to 06.07.23	
24	Bay of Bengal	South 24 Pgs/ Sagar	Dhoblat	Ch.9.30 to 9.40	21.632186, 88.076163		80.00			Erosion	Kotal		6.95	02.07.23 to 06.07.23	
25	Bay of Bengal	South 24 Pgs/ Sagar	Mahishamuri	Ch.1.30 to 1.55	21.675492, 88.044758		250.00			Erosion	Kotal		8.99	02.07.23 to 06.07.23	
26	Muriganga	South 24 Pgs/ Sagar	Kashtala	R/B Ch. 2.35 to 2.50	21.872473, 88.137322		150.00			Erosion	Kotal		3.60	02.07.23 to 06.07.23	
27	Muriganga	South 24 Pgs/ Sagar	Sumatinagar	R/B Ch. 14.00 to 14.10	21.872473, 88.137322			66.00		Protection	Kotal		6.00	02.07.23 to 06.07.23	
28	Muriganga	South 24 Pgs/ Sagar	Sumatinagar	R/B Ch. 12.05 to 12.238	21.726573, 88.163908		187.00			Erosion	Kotal		8.96	02.07.23 to 06.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
29	Muriganga	South 24 Pgs/ Sagar	Kachuberia	R/B Ch. 0.10 to 0.24	21.852106, 88.146575		127.00			Erosion	Kotal		8.99	02.07.23 to 06.07.23	
30	Muriganga	South 24 Pgs/ Namkhana	Nadabhangha	R/B Ch. 33.33 to 33.430	21.852106, 88.2208		100.00			Erosion	Kotal		8.74	02.07.23 to 06.07.23	
31	Muriganga	South 24 Pgs/ Namkhana	Rajnagar	R/B Ch. 27.320 to 27.500	21.80619, 88.209035		180.00			Erosion	Kotal		9.74	02.07.23 to 06.07.23	
32	Saptamukhi	South 24 Pgs/ Kakdwip	Durganagar	R/B Ch.15.42 to 15.51	21.779001, 88.257917		90.00			Erosion	Kotal		3.49	02.07.23 to 06.07.23	
33	Saptamukhi	South 24 Pgs/ Kakdwip	Iswaripur	R/B Ch.20.67 to 20.80	21.731929, 88.270908		130.00			Erosion	Kotal		5.49	02.07.23 to 06.07.23	
34	Muriganga	South 24 Pgs/ Namkhana	Rajnagar	L/B Ch. 27.02 to 27.135	21.805369, 88.209371		115.00			Erosion	Kotal		9.18	02.07.23 to 06.07.23	
35	Muriganga	South 24 Pgs/ Sagar	Bankimnagar	R/B	21.6953439, 88.15106022		82.00			Erosion	Kotal		17.77	16.07.23 to 19.07.23	
36	Muriganga	South 24 Pgs/ Sagar	Bankimnagar	R/B	21.6945, 88.15077		78.00			Erosion	Kotal		16.91	16.07.23 to 19.07.23	
37	Muriganga	South 24 Pgs/ Sagar	Bankimnagar	R/B	21.69410137, 88.15064524		108.00			Erosion	Kotal		6.02	16.07.23 to 19.07.23	
38	Muriganga	South 24 Pgs/ Sagar	Bankimnagar	R/B	21.69613466, 88.15138358		295.00			Erosion	Kotal		19.99	16.07.23 to 19.07.23	
39	Curzon creek	South 24 Pgs/ Patharpratima	Satyadaspur	L/B Ch.17.20 to 17.40	21.705537, 88.404548		200.00			Erosion	Kotal		5.33	16.07.23 to 19.07.23	
40	Jagaddal	South 24 Pgs/ Patharpratima	Sitarampur	R/B ch.8.17 to 8.52	21.64721, 88.415213		204.00			Erosion	Kotal		6.57	16.07.23 to 19.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
41	Barchara	South 24 Pgs/ Patharpratima	Uttargopalnagar & Dakshin Gopalnagar		21.824766, 88.314007				2	Structure (Aroha khal sluice & Mollah khal sluice)	Kotal		1.30	16.07.23 to 19.07.23	
42	Gobadia	South 24 Pgs/- Patharpratima	Kamdevnagar	R/B Ch.27.2 to 27.5	21.854101, 88.347858		55.00			Erosion	Kotal		3.17	16.07.23 to 19.07.23	
43	Gobadia	South 24 Pgs/- Patharpratima	Kamdevnagar	R/B of Gobadia, Ch.28.2 to 28.38	21.848815, 88.35011		180.00			Erosion	Kotal		9.14	16.07.23 to 19.07.23	
44	Chaltabunia	South 24 Pgs/ Patharpratima	Gangapur	L/B Ch.24.00 to 25.00	21.73581, 88.40978		250.00			Erosion	Kotal		7.32	16.07.23 to 19.07.23	
45	Curzon creek	South 24 Pgs/ Patharpratima	Choto Rakshshkhali	R/B Ch.2.50 to 3.00	21.763549, 88.385413		230.00			Erosion	Kotal		9.03	16.07.23 to 19.07.23	
46	Walls Creek	South 24 Pgs/- Patharpratima	Madhabnagar	R/B of Walls creek, Ch.0.75 to 1.20	21.780749 88.359347		95.00			Erosion	Kotal		2.93	16.07.23 to 19.07.23	
47	Curzon creek	South 24 Pgs/ Patharpratima	Gobindapur Abad	R/B Ch. 3.45 to 3.75	21.780749 88.359347		300.00			Erosion	Kotal		19.48	16.07.23 to 19.07.23	
48	Walls creek	South 24 Pgs/ Patharpratima	Dakhin Lakhinarayanpur	R/B Ch. 2.55 to 2.73	21.759906 88.342645		180.00			Erosion	Kotal		13.97	16.07.23 to 19.07.23	
49	Saptamukhi & Bay of Bengal	South 24 Pgs/ Namkhana	Bijoybati	Confluence of Saptamukhi & Bay of Bengal, Ch. 6.10 to 6.21	21.5945481 88.2868481		110.00			Erosion	Kotal		7.31	16.07.23 to 19.07.23	
50	Saptamukhi	South 24 Pgs/ Namkhana	Uttar Chandanpuri	R/B of Saptamukhi	21.691178 88.294125		52.00			Subsidence	Kotal		1.88	16.07.23 to 19.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
51	Saptamukhi	South 24 Pgs/- Namkhana	Dwariknagar	R/B of Saptamukhi Ch. 7.00 to 7.15	21.713534 88.268777		600.00			Erosion	Kotal		18.21	16.07.23 to 19.07.23	
52	Hatania-Doania	South 24 Pgs/ Namkhana	Dwariknagar	R/B of Saptamukhi Ch. 5.00 to 5.15 Ch. 5.25 to 5.35 Ch. 6.50 to 6.60	21.727672 88.266156		350.00			Erosion	Kotal		13.38	16.07.23 to 19.07.23	
53	Hatania-Doania	South 24 Pgs/ Namkhana	Namkhana	R/B of Saptamukhi Ch. 0.70 to 0.78	21.756511 88.244897		80.00			Erosion	Kotal		3.82	16.07.23 to 19.07.23	
54	Muriganga	South 24 Pgs/ Namkhana	Ganeshnagar	L/B of Muriganga Ch. 28.65 to 29.25	21.791374 88.214069		130.00			Erosion	Kotal		4.97	16.07.23 to 19.07.23	
55	Saptamukhi	South 24 Pgs/ Namkhana	Iswaripur	L/B of Saptamukhi Ch. 20.03 to 20.81	21.737096 88.271631		120.00			Erosion	Kotal		6.50	16.07.23 to 19.07.23	
56	Saptamukhi	South 24 Pgs Patharpratima	Harekrishnapur	R/B of Saptamukhi 2.550 km to ch 2.950 km	21.784207, 88.298611		400.00			Erosion	Kotal		11.37	01.08.23 to 04.08.23	
57	Pakhirala	South 24 Pgs/- Patharpratima	Banashyamnagar	R/B of Pakhirala ch 5.000 km to ch 6.000 km	21.7987 88.4405		350.00			Erosion	Kotal		9.39	01.08.23 to 04.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
58	Pakhirala	South 24 Pgs/ Patharpratima	Choto Banashyamnagar	R/B of Pakhirala 34.600 km to ch 34.710 km	21.796332, 88.404796		110.00			Erosion	Kotal		6.05	01.08.23 to 04.08.23	
59	Pakhirala	South 24 Pgs/ Patharpratima	Buroburirtat	L/B Ch. 3.1 km to ch 3.4 km	21.631791, 88.402059			300.00		Protection	Kotal		7.09	01.08.23 to 04.08.23	
60	Saptamukhi & Bay of bengal	South 24 Pgs/ Patharpratima	Gobardhanpur	ch.5.10 KM.to 5.175 Km	21.586183 88.273338			75.00		Protection	Kotal		4.08	01.08.23 to 04.08.23	
61	Bay of bengal	South 24 Pgs/ Patharpratima	Gobardhanpur	2.56 to 2.68	21.60433 88.399075			120.00		Protection	Kotal		19.98	01.08.23 to 04.08.23	
62	Walls Creek	South 24 Pgs/ Patharpratima	Kishorinagar	R/B of Walls Creek Ch.3.50 to 3.63	21.751073 88.339369		130.00			Erosion	Kotal		5.51	01.08.23 to 04.08.23	
63	Muriganga	South 24 Pgs/ Namkhana	Ut. Narayanganj	L/B of Muriganga ch.2.00 to 2.35	21.760164 88.219286		350.00			Erosion	Kotal		10.31	01.08.23 to 04.08.23	
64	Chenagng	South 24 Pgs/ Namkhana	Debnagar	L/B ch.9.5 to 9.65 & 10 to 10.035	21.704033 88.222223		190.00			Erosion	Kotal		5.25	01.08.23 to 04.08.23	
65	Bay of Bengal	South 24 Pgs/ Namkhana	Patibunia	Ch.3.15 to 3.50	21.617187 88.219164		350.00			Erosion	Kotal		16.82	01.08.23 to 04.08.23	
66	Bay of Bengal	South 24 Pgs/ Namkhana	Patibunia	Ch.5.85 to 5.97	21.613611 88.222470		120.00			Erosion	Kotal		17.50	01.08.23 to 04.08.23	
67	Bay of Bengal	South 24 Pgs/ Namkhana	Patibunia	Ch.6.50 to 6.66	21.608151 88.240986		160.00			Erosion	Kotal		17.19	01.08.23 to 04.08.23	
68	Bay of Bengal	South 24 Pgs/ Namkhana	Baliara	Ch. 7.950 Km to Ch. 8.050 km & Ch 8.260 Km to Ch 8.280 Km	21.622450 88.201274		120.00			Erosion	Kotal		17.91	01.08.23 to 04.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
69	Bay of Bengal	South 24 Pgs/ Namkhana	Baliara	Ch. km. 9.895 to Ch. 9.975 km	21.609551 88.205495		80.00			Erosion	Kotal		7.00	01.08.23 to 04.08.23	
70	Chenargang	South 24 Pgs/ Namkhana	Baliara	R/B Ch.12.36 to 12.61	21.624425 88.212189			250.00		Protection	Kotal		9.69	01.08.23 to 04.08.23	
71	Muriganga	South 24 Pgs/ Kakdwip	Lakshmpur	L/B Ch.6.300 to 6.750	21.951637 88.158321		405.00			Erosion	Kotal		17.34	01.08.23 to 04.08.23	
72	Muriganga	South 24 Pgs/ Kakdwip	Lakshmpur	L/B Ch.5.100 to 5.200	21.952152 88.157926		60.00			Erosion	Kotal		8.90	01.08.23 to 04.08.23	
73	Muriganga	South 24 Pgs/ Kakdwip	Kalinagar	L/B of Muriganga	21.873801 88.168478		60.00			Breach	Kotal		6.01	01.08.23 to 04.08.23	
74	Hooghly River	South 24 Pgs/ - Kakdwip	Ramtanunagar	L/B Ch. 4.150 KM to Ch. 4.300 KM			150.00			Erosion	Kotal		6.98	01.08.23 to 04.08.23	
75	Muriganga	South 24 Pgs/ - Namkhana	Ganeshnagar	L/B ch 29.350 to ch 29.580	21.798291 88.211798		230.00			Erosion	Kotal		19.41	01.08.23 to 04.08.23	
76	Muriganga	South 24 Pgs/ - Namkhana	Ganeshnagar	L/B ch 29.610 to 21.820	21.794678 88.212871		210.00			Erosion	Kotal		17.82	01.08.23 to 04.08.23	
77	Hatania- Doania	South 24 Pgs/ - Namkhana	Narayanpur	L/B ch 5.650 to ch 5.695	21.765929 88.269356		45.00			Erosion	Kotal		1.35	01.08.23 to 04.08.23	
78	Banstala	South 24 Pgs/ - Kakdwip	Gobindarampur	L/B of Banstala ch 2.00 to 2.05	21.866791 88.255118		50.00			Erosion	Kotal		1.33	01.08.23 to 04.08.23	
79	Kalnagini & Banstala	South 24 Pgs/ Kakdwip	Chandipur, Manmathapur, Koaberia	ch 5.00 km to ch 5.030 km & ch 16.00km to ch 16.010 km & ch 6.00km to ch 6.010 km	21.926782 88.268446		50.00			Erosion	Kotal		2.43	01.08.23 to 04.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
80	River Banstala	South 24 Pgs/- Kakdwip	Mrinalnagar	R/B Ch.19.00 to 19.05	21.864887 88.302266		50.00			Erosion	Kotal		3.09	01.08.23 to 04.08.23	
81	Muriganga	South 24 Pgs/ Sagar	Kastala	R/B of Muriganga ch 2.15 to 2.35	21.873575 88.136818		170.00			Erosion	Kotal		4.03	01.08.23 to 04.08.23	
82	Hooghly River	South 24 Pgs/ Sagar	Bamankhalii	R/B Ch 8.50 km to 8.65 km	21.826596 88.101173		60.00			Erosion	Kotal		3.36	01.08.23 to 04.08.23	
83	Bay of Bengal	South 24 Pgs/ Sagar	Mahishamari	Ch 0.300 km to 0.430 km	21.678997 88.042575		130.00			Erosion	Kotal		9.90	01.08.23 to 04.08.23	
84	Bay of Bengal	South 24 Pgs/ Sagar	Beguyakhali	Ch 2.100 km to 2.170 km	21.670814 88.044599		70.00			Erosion	Kotal		6.49	01.08.23 to 04.08.23	
85	Bay of Bengal	South 24 Pgs/ Sagar	Dhablat	Ch 7.200 km to 7.350 km	21.631107 88.115033		150.00			Erosion	Kotal		9.80	01.08.23 to 04.08.23	
86	Bay of Bengal	South 24 Pgs/ Sagar	Shibpur	Ch 12.100 km to 12.260 km	21.635072 88.127595		160.00			Erosion	Kotal		12.20	01.08.23 to 04.08.23	
87	River Muriganga	South 24 Pgs/ Sagar	Bankimnagar	R/B of River Muriganga	21.693498 88.150406		40.00			Erosion	Kotal		12.99	01.08.23 to 04.08.23	
88	River Muriganga	South 24 Pgs/ Sagar	Bankimnagar	R/B of River Muriganga	21.695566 88.150855		50.00			Erosion	Kotal		16.82	01.08.23 to 04.08.23	
89	River Muriganga	South 24 Pgs/ Sagar	Bankimnagar	R/B of River Muriganga	21.697535 88.151739		110.00			Erosion	Kotal		19.46	01.08.23 to 04.08.23	
90	River Muriganga	South 24 Pgs/ Sagar	Bankimnagar	R/B of River Muriganga	21.699828 88.151969		64.00			Erosion	Kotal		11.48	01.08.23 to 04.08.23	
91	River Saptamukhi	South 24 Pgs/ Namkhana	Iswaripur	R/B Ch. 19.905KM to Ch. 19.930 KM	21.73749 88.271683		25.00			Erosion	Kotal		3.94	01.08.23 to 04.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
92	Phuldubi Khal	South 24 Pgs/- Sagar	Krishnanagar	L/B Ch. 9.70 KM to Ch. 10.00 KM	21.774195 88.093282		150.00			Erosion	Kotal		14.78	01.08.23 to 04.08.23	
93	Barchara	South 24 Pgs/ Patharpratima	Durgagobindapur	R/B ch 24.700 km to ch 24.900	21.796161 88.345409		200.00			Erosion	Kotal		6.60	01.08.23 to 04.08.23	
94	Bay of Bengal	South 24 Pgs/ Patharpratima	Gobordhanpur	Ch 3.355 km to ch 3.418	21.60433 88.399075		63.00			Protection	Kotal		31.32	01.08.23 to 04.08.23	
95	Bay of Bengal	South 24 Pgs/ Patharpratima	Gobordhanpur	Ch 3.430 km to ch 3.499	21.60433 88.399075		59.00			Protection	Kotal		29.03	01.08.23 to 04.08.23	
96	Bay of Bengal	South 24 Pgs/ Patharpratima	Gobordhanpur	Ch 3.500 km to ch 3.568	21.60433 88.399075		68.00			Protection	Kotal		33.56	01.08.23 to 04.08.23	
97	Bay of Bengal	South 24 Pgs/ Patharpratima	Gobordhanpur	ch 2.375 km to ch 2.550	21.609169 88.401589		175.00			Protection	Kotal		27.98	01.08.23 to 04.08.23	
98	Bay of Bengal	South 24 Pgs/ Namkhana	Patibunia	ch 5.65 km to ch 5.82	21.613758 88.222249		170.00			Erosion	Kotal		26.16	01.08.23 to 04.08.23	
99	Bay of Bengal	South 24 Pgs/ Namkhana	Baliara	ch 8.287 km to ch 8.477	21.620853 88.201665		190.00			Erosion	Kotal		34.51	01.08.23 to 04.08.23	
100	Muriganga	South 24 Pgs/ Namkhana	Kushumtala	L/B River Muriganga ch 4.39 km to ch 4.60	21.655761 88.190658		120.00			Protection	Kotal		29.79	01.08.23 to 04.08.23	
101	Hooghly	South 24 Pgs/ Sagar	Sapkali	L/B River Hooghly ch 6.10 km to ch 6.70	21.84535 88.112644		400.00			Erosion	Kotal		27.97	01.08.23 to 04.08.23	
102	Hooghly	South 24 Pgs/ Sagar	Mandirtala	L/B River Hooghly ch 9.45 km to ch 9.85	21.819879 88.098566		249.50			Protection	Kotal		33.92	01.08.23 to 04.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
103	Hooghly	South 24 Pgs/ Sagar	Chakphuldubi	L/B ch 0.00 km to ch 0.700	21.805296 88.090949		287.00			Protection	Kotal		35.46	01.08.23 to 04.08.23	
104	Muriganga	South 24 Pgs/- Sagar	Sumatinagar	R/B ch 12.028 km to ch 12.238	21.727405 88.164065		210.00			Erosion	Kotal		22.97	01.08.23 to 04.08.23	
105	Pakhirala	South 24 Pgs/ Patharpratima	Banashyamnagar	L/B ch 1.400 km to ch 1.620 km	21.803806 88.413747		220.00			Erosion	Kotal		4.93	30.08.23 to 02.09.23	
106	River Saptamukhi	South 24 Pgs/ Patharpratima	- Dakshin Surendraganj	R/B ch.10.00 KM.to 10.250 Km	21.667951 88.382861		250.00			Erosion	Kotal		5.95	30.08.23 to 02.09.23	
107	River- Jagaddal	South 24 Pgs/ Patharpratima	Indrapur	R/B Ch. 11.270 km to Ch. 11.390 km	21.651005 88.412069		120.00			Erosion	Kotal		3.78	30.08.23 to 02.09.23	
108	River Saptamukhi	South 24 Pgs/ Patharpratima	Paschim Surrendranagar	L/B ch 5.000 km to ch 5.040 km	21.797349 88.26785		40.00			Erosion	Kotal		1.70	30.08.23 to 02.09.23	
109	Gobadia	South 24 Pgs/ Patharpratima	R/B of Gobadia Durgagobindapur	Ch 22.050 km to ch 22.120 km	21.815933 88.353588		70.00			Erosion	Kotal		3.23	30.08.23 to 02.09.23	
110	Gobadia	South 24 Pgs/ Patharpratima	Uttar Goplanager	Ch 32.550 km to ch 32.698 km	21.832747 88.34994		148.00			Erosion	Kotal		4.90	30.08.23 to 02.09.23	
111	Jagaddal	South 24 Pgs/ Patharpratima	Satyadaspur	R/B Ch. 20.450 km to Ch. 20.605 km	21.719324 88.420357		155.00			Erosion	Kotal		4.93	30.08.23 to 02.09.23	
112	Muriganga	South 24 Pgs/- Namkhana	Bagdanga	L/B of Muriganga Ch. 3.450 Km to Ch. 3.510 km	21.6643378 88.1888125		25.00			Erosion	Kotal		5.99	30.08.23 to 02.09.23	
113	Muriganga	South 24 Pgs/- Namkhana	Kusumtala	L/B Ch. 4.910 Km to Ch. 4.995 km	21.648066 88.194318		60.00			Erosion	Kotal		13.60	30.08.23 to 02.09.23	
114	Bay of Bengal	South 24 Pgs/- Namkhana	Baliara	Ch. 10.320 Km to Ch. 10.410 km	21.609833 88.208680		90.00			Erosion	Kotal		11.19	30.08.23 to 02.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
115	Bay of Bengal	South 24 Pgs/- Namkhana	Baliara	Ch. 7.720 Km to Ch. 7.830 km	21.623558 88.201008		110.00			Erosion	Kotal		13.50	30.08.23 to 02.09.23	
116	Bay of Bengal	South 24 Pgs/- Namkhana	Patibunia	Ch. 6.900 km. to Ch.6.958 Km	21.60816 88.241002		58.00			Erosion	Kotal		10.19	30.08.23 to 02.09.23	
117	Hatania-Doania	South 24 Pgs/- Namkhana	Namkhana	L/B of Hatania-Doania	21.760199 88.243057		30.00			Subsidence	Kotal		0.78	30.08.23 to 02.09.23	
118	Hatania-Doania	South 24 Pgs/- Namkhana	Iswaripur	L/B of Hatania-Doania ch 8.635 kmto ch 8.7250 km	21.743475 88.271571		90.00			Erosion	Kotal		4.36	30.08.23 to 02.09.23	
119	River Muriganga	South 24 Pgs/- Kakdwip	Madhusdhanpur	L/B of River Muriganga Ch. 4.350 KM to Ch.4.600 KM	21.962129 88.144236		230.00			Erosion	Kotal		6.92	30.08.23 to 02.09.23	
120	River Hoogly	South 24 Pgs/ Kakdwip	Uttar Chandannagar	Ch. 0.600 KM to Ch.0.700 KM	21.990854 88.186304		65.00			Erosion	Kotal		1.86	30.08.23 to 02.09.23	
121	Bay of Bengal	South 24 Pgs/ Sagar	Chemaguri	ch.26.900 km to ch.26.960 km	21.638496 88.139303		60.00			Erosion	Kotal		4.07	30.08.23 to 02.09.23	
122	Bay of Bengal	South 24 Pgs/ Sagar	Shibpur	ch.21.250 km to ch.21.300 km	21.638127 88.138679		150.00			Erosion	Kotal		9.79	30.08.23 to 02.09.23	
123	Bay of Bengal	South 24 Pgs/ Sagar	Dhablat	ch.6.800 Km to 6.890 Km	21.63114 88.115034		90.00			Erosion	Kotal		7.99	30.08.23 to 02.09.23	
124	Chemaguri khal	South 24 Pgs/ Sagar	Chemaguri	ch.36.84 km	21.679829 88.127090				1	Structure	Kotal		3.16	30.08.23 to 02.09.23	
125	Mahishmari Khal	South 24 Pgs/ Sagar	mahishmari		21.676515 88.045594		150.00				Kotal		3.27	30.08.23 to 02.09.23	Silt clearance

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
126	Mahishmari Khal	South 24 Pgs/ Sagar	Mahishamari	ch.0.220 km to ch.0.300 km.	21.680077 88.044612		80.00			Erosion	Kotal		7.42	30.08.23 to 02.09.23	
127	River Saptamukhi	South 24 Pgs/ Patharpratima	Baradapur	L/B of River Saptamukhi Ch. 23.400 KM. to 23.580 Km.	21.371372 88.306225		110.00			Erosion	Kotal		3.49	30.08.23 to 02.09.23	
128	River Carzon creek	South 24 Pgs/ Patharpratima	Choto Rakshaskhali	ch 8.000 km to ch 9.000 km	21.736466 88.370602		170.00			Erosion	Kotal		5.99	30.08.23 to 02.09.23	
129	Chaltabonia	South 24 Pgs/ Patharpratima	Gangapur	L/B Chaltabonia ch 25.000 km to ch 25.500 km	21.744345 88.401987		280.00			Erosion	Kotal		5.49	30.08.23 to 02.09.23	
130	Jagaddal	South 24 Pgs/ Patharpratima	Sitarampur	r/b Jagaddal Ch. 8.550 km to Ch. 8.870 km	21.646331 88.416325		200.00			Erosion	Kotal		5.94	30.08.23 to 02.09.23	
131	River Gabadia	South 24 Pgs/ Patharpratima	Tookra Gopalnagar	R/B Gabadia Ch. 1.660 KM to Ch.1.780 Km	21.844496 88.351398		120.00			Erosion	Kotal		2.49	30.08.23 to 02.09.23	
132	Saptamukhi & Bay of Bengal	South 24 Pgs/ Namkhana	Bijoybati	Ch. 5.890 KM. to 6.000 Km	21.595042 88.2863		110.00			Erosion	Kotal		9.00	30.08.23 to 02.09.23	
133	River Banstala & Gobadia	South 24 Pgs/ Kakdwip	Gopalnagar, Mrinalnagar,Taktipur & Harendranagar	Ch. 9.00 KM to Ch.9.030 Km, Ch. 26.00 KM to Ch.26.020 Km, Ch. 11.00 KM to Ch.11.020 Km, Ch. 21.00 KM to Ch.21.050 Km	21.885237 88.266694		120.00			Erosion	Kotal		3.51	30.08.23 to 02.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
134	River Muriganga	South 24 Pgs/ Kakdwip	Nadavanga	L/B of River Muriganga ch 33.640 to Ch. 34.705	21.769125 88.220936		65.00			Erosion	Kotal		3.75	30.08.23 to 02.09.23	
135	River Muriganga	South 24 Pgs/ Kakdwip	Kalinagar	L/B of River Muriganga	21.879939 88.164794		100.00			Erosion	Kotal		13.48	30.08.23 to 02.09.23	
136	River Muriganga	South 24 Pgs/ Kakdwip	Kayalapara	R/B of River Muriganga	21.754310 88.169602		150.00			Erosion	Kotal		8.94	30.08.23 to 02.09.23	
137	River Muriganga	South 24 Pgs/ Kakdwip	Kachuberia	R/B River Muriganga Ch. 0.40 km. to Ch.0.50 Km.	21.851719 88.146551		90.00			Erosion	Kotal		7.53	30.08.23 to 02.09.23	
138	River Hooghly	South 24 Pgs/ Sagar	Sapkali	L/B OF River Hooghly ch 6.70 km to 6.90 km	21.859997 88.120749		200.00			Erosion	Kotal		7.46	30.08.23 to 02.09.23	
139	Bay of Bengal	South 24 Pgs/ Sagar	Gangasagar	PR No-01 to PR No-02	21.633427 88.074921		100.00			Erosion	Kotal		2.03	30.08.23 to 02.09.23	
140	River Hooghly	South 24 Pgs/ Sagar	Sapkali	L/B of River Hooghly	21.836215 88.105912			65.00		Protection	Kotal		19.74	30.08.23 to 02.09.23	
141	River hooghly	South 24 Pgs/ Sagar	Sapkali	L/B of River Hooghly	21.835406 88.105482			150.00		Protection	Kotal		39.97	30.08.23 to 02.09.23	
142	Bay of Bengal	South 24 Pgs/- Patharpratima	Gobardhanpur	Ch. 2.700 km to Ch. 2.975 km	21.610958 88.402482			200.00		Protection	Kotal		9.94	14.09.23 to 17.09.23	
143	Bay of Bengal	South 24 Pgs/ Patharpratima	Gobardhanpur	ch 3.600 KM.to 3.623 Km	21.604366 88.399182			23.00		Protection	Kotal		10.00	14.09.23 to 17.09.23	
144	River Barchara	South 24 Pgs/ Patharpratima	Madhabnagar	R/B River Barchara ch. 2.50 km to 3.00 km	21.791298 88.334134			100.00		Protection	Kotal		2.10	14.09.23 to 17.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
145	River Saptamukhi	South 24 Pgs/ Patharpratima	Durbachati	ch 18.200 km to 18.600 km	21.829651 88.307362		400.00			Erosion	Kotal		11.50	14.09.23 to 17.09.23	
146	River Muriganga	South 24 Pgs/ Sagar	Bankimnagar	right bank of River Muriganga	21.697328 88.15167		100.00			Erosion	Kotal		10.98	14.09.23 to 17.09.23	
147	Harinbari Khal	South 24 Pgs/ Sagar	Harinbari	N/A	21.749456 88.079847				1	Sluice	Kotal		1.19	14.09.23 to 17.09.23	
148	River Hatania- Doania	South 24 Pgs/ Namkhana	Namkhana, and Madanganj	Ch 0.830 Km to Ch 0.860 Km & Ch 4.550 Km to Ch 4.620 Km	21.757432 88.244181		100.00			Erosion			2.43	14.09.23 to 17.09.23	
149	River Chennergang	South 24 Pgs/ Namkhana	Debnagar	Ch. 9.300 Km to Ch. 9.330 Km	21.705291 88.221981		30.00			Erosion			4.04	14.09.23 to 17.09.23	
150	River Muriganga	South 24 Pgs/ Namkhana	R/B River Muriganga Ut. Narayanganj	Ch. 3.500 Km to Ch. 3.603 Km	21.753945 88.217177		103.00			Erosion			14.96	14.09.23 to 17.09.23	
151	Bay of Bengal	South 24 Pgs/ Namkhana	baliara		21.624885 88.200819		140.00			Erosion			6.93	14.09.23 to 17.09.23	
152	River Muriganga	South 24 Pgs/ Namkhana	Budhakhali	L/B Ch 23.430 Km to Ch 23.580	21.87282 88.203865			90.00		Protection			18.87	14.09.23 to 17.09.23	
153	River Muriganga	South 24 Pgs/ Namkhana	Budhakhali	L/B Ch 24.105 Km to Ch 24.395	21.81572 88.204696			110.00		Protection			19.82	14.09.23 to 17.09.23	
154	River Banstala	South 24 Pgs/ Kakdwip	Mrinalnagar	L/B Ch 22.000 Km to Ch 22.040 km	21.858568 88.266725		40.00			Erosion			1.42	14.09.23 to 17.09.23	
155	River hooghly	South 24 Pgs/ Sagar	Sapkholi	L/B River hooghly	21.836321 88.105937			100.00		Protection			28.08	14.09.23 to 17.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
156	River Saptamukhi	South 24 Pgs/ Namkhana	Iswaripur	R/B Ch 19.430 km to Ch 19.735 km	21.735213 88.271202		105.00			Erosion			3.14	28.09.23 to 02.10.23	
157	River Gobadia	South 24 Pgs/ Kakdwip	Harendranagar	L/B ch22.00 km to 22.500 km	21.865809 88.333799		100.00			Erosion			8.82	28.09.23 to 02.10.23	
158	River-Banstala	South 24 Pgs/ - Kakdwip	Manmathapur	L/B of Ch.10.00 km and Ch. 10.500Km	21.885823 88.272106		50.00			Erosion			2.02	28.09.23 to 02.10.23	
159	Gangasagar Khal	South 24 Pgs/ - Sagar	Shibpur		21.635732 88.125101		170.00						3.80	28.09.23 to 02.10.23	
160	Bay of Bengal	South 24 Pgs/ - Sagar	Dhablat	Ch.7.100 Km to 7.205 Km	21.631103 88.116082		105.00			Erosion			8.80	28.09.23 to 02.10.23	
161	River Hooghly	South 24 Pgs/ - Sagar	Sapkhalii	L/B of River Hooghly	21.832911 88.125897		60.00			Erosion			1.06	28.09.23 to 02.10.23	
162	River Hooghly	South 24 Pgs/ - Sagar	Bamankhali	L/B Ch 8.70 km to 8.80 km	21.826765 88.101257		70.00			Erosion			3.76	28.09.23 to 02.10.23	
163	Bay of Bengal	South 24 Pgs/ - Sagar	Mahishamari	ch.1.700 km to ch.1.750 km.	21.674706 88.044696		150.00			Erosion			1.99	28.09.23 to 02.10.23	
164	River Muriganga	South 24 Pgs/ - Sagar	Bankimnagar	R/B of River Muriganga	21.697534 88.151739		40.00			Erosion			5.00	28.09.23 to 02.10.23	
165	River Muriganga	South 24 Pgs/ - Namkhana	Ut. Narayanganj	L/B Ch. 3.610 Km to Ch. 3.715 Km	21.756101 88.217532		105.00			Erosion			3.03	28.09.23 to 02.10.23	
166	River - Saptamukhi	South 24 Pgs/ - Namkhana	Haripur	R/B Ch. 6.52 KM. to 6.62 Km.	21.621558 88.286542		100.00			Erosion			4.15	28.09.23 to 02.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
167	River Chenargang	South 24 Pgs/- Namkhana	Baliara	R/B Ch. 13.150 Km to Ch. 13.340 km & Ch 13.360 Km to Ch 13.372 Km	21.63029 88.218448		202.00			Erosion			8.37	28.09.23 to 02.10.23	
168	Bay of Bengal	South 24 Pgs/- Namkhana	Baliara	Ch. 6.755 Km to Ch. 6.845 km	21.63783 88.196755		29.00			Erosion			2.16	28.09.23 to 02.10.23	
169	Bay of Bengal	South 24 Pgs/- Namkhana	Baliara		21.6201998 88.2016935		160.00			Erosion			7.49	28.09.23 to 02.10.23	
170	River Chenergang	South 24 Pgs/- Namkhana	Rajnagar	L/B Ch. 3.15 Km. to 3.37 Km.	21.657816 88.232148		220.00			Erosion			7.64	28.09.23 to 02.10.23	
171	Bay of Bengal	South 24 Pgs/- Namkhana	Patibunia		21.6101 88.22919		150.00			Erosion			7.79	28.09.23 to 02.10.23	
172	Bay of Bengal	South 24 Pgs/- Namkhana	Patibunia		21.6068 88.2359		135.00			Erosion			6.13	28.09.23 to 02.10.23	
173	River Edward Creek	South 24 Pgs/- Namkhana	Paschim Shibpur	L/B	21.624317 88.250834		59.00			Erosion			1.98	28.09.23 to 02.10.23	
174	River Chenergang	South 24 Pgs/ Namkhana	Debnagar	L/B	21.704390 88.222130		60.00			Erosion			4.47	28.09.23 to 02.10.23	
175	River Gobadia	South 24 Pgs/ Patharpratima	Uttar Gopalnagar	R/B Ch.27.850 km and Ch. 28.000Km	21.822588 88.349835		150.00			Erosion			10.28	28.09.23 to 02.10.23	
176	River Saptamukhi	South 24 Pgs/ Patharpratima	Harekrishnapur	R/B ch 4.350 km to 4.535 km	21.790974 88.287716		185.00			Erosion			3.89	28.09.23 to 02.10.23	
177	River Gobadia	South 24 Pgs/ Patharpratima	Durgagobindapur	R/B Ch.26.500km and Ch. 27.000Km	21.815578 88.353337		200.00			Erosion			5.20	28.09.23 to 02.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
178	River Jaggadal	South 24 Pgs/ Patharpratima	Banashyamnagar	R/B Ch. 7.000 km to 8.00 km	21.79025 88.437269		160.00			Erosion			2.06	28.09.23 to 02.10.23	
179	River Carzon Creek	South 24 Pgs/ Patharpratima	Gobindapur	L/B Ch. 4.090 KM. to 4.140 Km	21.697768 88.376332		50.00			Erosion			1.91	28.09.23 to 02.10.23	
180	River Rakhaskhalii Khal	South 24 Pgs/ Patharpratima	Khetramahanpur	R/B Ch. 16.450 KM. to 16.600 Km	21.761783 88.370962		150.00			Erosion			3.33	28.09.23 to 02.10.23	
181	River Walls Creek	South 24 Pgs/ Patharpratima	Kishorinagar	R/B Ch.4.130km and Ch. 4.220 Km	21.748149 88.339649		90.00			Erosion			11.67	28.09.23 to 02.10.23	
182	River Chenargang	South 24 Pgs/ - Namkhana	Mousuni & Bagdanga	R/B of River Chenargang	21.678892 88.196475		180.00			Erosion			30.09	28.09.23 to 02.10.23	
183	River Chenergang	South 24 Pgs/ - Namkhana	Patibunia	L/B of Chenagang	21.627201 88.225782		110.00			Erosion			3.40	14.10.23 to 15.10.23	
184	River Selemari	South 24 Pgs/ - Patharpratima	Uttar Gopalnagar	L/B Ch. 2.600 km and Ch. 2.800 km	21.824496 88.323535		40.00			Subsidence			2.80	14.10.23 to 15.10.23	
185	River Gobadia	South 24 Pgs/ - Patharpratima	Durgagobindapur	R/B Ch. 24.200 km and Ch. 24.300 km	21.816693 88.352332		50.00			Subsidence			2.48	14.10.23 to 15.10.23	
186	River Barchara	South 24 Pgs/ - Patharpratima	Dakhin Shibganj	R/B of River Barchara	21.791426 88.372334		60.00			Subsidence			1.20	14.10.23 to 15.10.23	
187	River Saptamukhi	South 24 Pgs/ - Patharpratima	Brojoballavpur	L/B of River Saptamukhi	21.693746 88.350199		101.00			Subsidence			2.77	14.10.23 to 15.10.23	
188	River Walls creek	South 24 Pgs/ - Patharpratima	Dakshin Laksminarayanpur	R/B of River Walls creek	21.762844 88.355958		73.00			Subsidence			1.76	14.10.23 to 15.10.23	
189	River Chenergang	South 24 Pgs/ - Namkhana	Baliara	R/B Ch. 12.220 km to Ch. 12.320 km	21.622485 88.211199		68.00			Erosion			2.48	14.10.23 to 15.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
190	River Jagaddal	South 24 Pgs/- Patharpratima	Sitarampur	R/B Ch. 6.150 km to Ch. 7.000 km	21.630729 88.427512		200.00			Erosion			8.55	14.10.23 to 15.10.23	
191	River Hooghly	South 24 Pgs/- Sagar	Sapkali	L/B of River Hooghly	21.849527 88.115161		150.00			Erosion			5.59	14.10.23 to 15.10.23	
192	Kapura	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.177533 88.901182		45.00			Subsidnc	Kotal		30.38	5.4.23	
193	Kapura	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.177037 88.903638		45.00			Subsidence	Kotal		30.32	7.4.23	
194	Durgaduani	South 24 Pgs. / Gosaba	Birajnagar	Sundarban Embankment	22.122454 88.779193		80.00			Subsidence	Kotal		9.00	19/04/23 to 26/04/23	
195	Durgaduani	South 24 Pgs. / Gosaba	Bijoynagar	Sundarban Embankment	22.122073 88.777602		100.00			Subsidence	Kotal		3.00	19/04/23 to 26/04/23	
196	Bidya	South 24 Pgs. / Gosaba	Kachukhali	Sundarban Embankment	22.208624 88.835874		100.00			Subsidence	Kotal		9.80	19/04/23 to 26/04/23	
197	Bidya	South 24 Pgs. / Gosaba	Kachukhali	Sundarban Embankment	22.208651 88.836838		100.00			Subsidence	Kotal		9.70	19/04/23 to 26/04/23	
198	Hana	South 24 Pgs. / Gosaba	Jhawkhali	Sundarban Embankment	22.260704 88.79546					Others	Kotal		1.00	19/04/23 to 26/04/23	
199	Bagna	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.178640 88.930445		100.00			Subsidence	Kotal		8.00	05/05/23 to 09/05/23	
200	Bagna	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.122454 88.779193		200.00			Subsidence	Kotal		9.00	05/05/23 to 09/05/23	
201	Gomor	South 24 Pgs. / Gosaba	Pakhrala	Sundarban Embankment	22.130478 88.831252		90.00			Subsidence	Kotal		8.00	05/05/23 to 09/05/23	
202	Gomor	South 24 Pgs. / Gosaba	Pakhrala	Sundarban Embankment	22.208624 88.835874		250.00			Subsidence	Kotal		16.00	05/05/23 to 09/05/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
203	Gomor	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.127707 88.832437		500.00			Subsidence	Kotal		8.90	11.5.23	
204	Gomor	South 24 Pgs. / Gosaba	Amlamethi	Sundarban Embankment	22.083524 88.750852		325.00			Subsidence	Kotal		10.00	19/05/23 to 21/05/23	
205	Gomor	South 24 Pgs. / Gosaba	Amlamethi	Sundarban Embankment	22.075248 88.74393		110.00			Subsidence	Kotal		30.00	19/05/23 to 21/05/23	
206	Gomor, R/B	South 24 Pgs. / Gosaba	Bali	Sundarban Embankment	22.089772 88.761684		90.00			Erosion	Kotal		13.60	03/06/23 to 07/06/23	
207	Durgaduani, R/B	South 24 Pgs. / Gosaba	Birajnagar	Sundarban Embankment	22.141048 88.790511		200.00			Others	Kotal		5.30	03/06/23 to 07/06/23	
208	Kartal, L/B	South 24 Pgs. / Gosaba	Chandipur	Sundarban Embankment	22.175314 88.791587		200.00			Subsidence	Kotal		10.25	03/06/23 to 07/06/23	
209	Gomor, R/B	South 24 Pgs. / Gosaba	Pakhirala	Sundarban Embankment	22.127974 88.819620		450.00			Erosion	Kotal		21.62	03/06/23 to 07/06/23	
210	Gomor, R/B	South 24 Pgs. / Gosaba	Pakhirala	Sundarban Embankment	22.137522 88.83891		250.00			Erosion	Kotal		10.81	03/06/23 to 07/06/23	
211	Gomor, R/B	South 24 Pgs. / Gosaba	Sonaga	Sundarban Embankment	22.132344 88.812814		150.00			Erosion	Kotal		3.92	03/06/23 to 07/06/23	
212	Gomor, R/B	South 24 Pgs. / Gosaba	Sonaga	Sundarban Embankment	22.132343 88.812806		100.00			Erosion	Kotal		15.10	03/06/23 to 07/06/23	
213	Durgaduani, L/B	South 24 Pgs. / Gosaba	Sonaga	Sundarban Embankment	22.145546 88.802735		180.00			Erosion	Kotal		5.10	03/06/23 to 07/06/23	
214	Gomor, L/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.126743 88.832615		300.00			Erosion	Kotal		9.30	03/06/23 to 07/06/23	
215	Bidya, R/B	South 24 Pgs. / Gosaba	Uttardanga	Sundarban Embankment	22.185745 88.864252		600.00			Erosion	Kotal		8.64	03/06/23 to 07/06/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
216	Hana, L/B	South 24 Pgs. / Gosaba	Pathankhali	Sundarban Embankment	22.203825 88.748514		300.00			Erosion	Kotal		9.70	03/06/23 to 07/06/23	
217	Hana, L/B	South 24 Pgs. / Gosaba	Shambhunagar	Sundarban Embankment	22.281248 88.807074		450.00			Erosion	Kotal		6.00	03/06/23 to 07/06/23	
218	Bidya, L/B	South 24 Pgs. / Gosaba	Kachukhali	Sundarban Embankment	22.204124 88.862507		400.00			Others	Kotal		4.50	03/06/23 to 07/06/23	
219	Kapura, R/B	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.173382 88.907336		350.00			Erosion	Kotal		9.46	03/06/23 to 07/06/23	
220	Kapura, R/B	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.178536 88.898088		120.00			Erosion	Kotal		3.25	03/06/23 to 07/06/23	
221	Sarsa, R/B	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.194706 88.904664		375.00			Erosion	Kotal		4.80	03/06/23 to 07/06/23	
222	Roymangal, R/B	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.235536 88.951823		325.00			Erosion	Kotal		9.63	03/06/23 to 07/06/23	
223	Sarsa, L/B	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.18099 88.924207		380.00			Erosion	Kotal		10.27	03/06/23 to 07/06/23	
224	Sarsa R/B	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.196002 88.904326		75.00			Erosion	Kotal		7.95	03/06/23 to 07/06/23	
225	Gomor R/B	South 24 Pgs. / Gosaba	Bali	Sundarban Embankment	22.090675 88.764242		300.00			Erosion	Kotal		9.36	03/06/23 to 07/06/23	
226	Durgadwani, LB	South 24 Pgs. / Gosaba	Sonaga	Sundarban Embankment	22.127488 88.778705		220.00			Erosion	Kotal		6.10	16/06/23 to 23/06/23	
227	Bidya, R/B	South 24 Pgs. / Gosaba	Bagbagan	Sundarban Embankment	22.193738 88.851309		100.00			Subsidence	Kotal		7.60	16/06/23 to 23/06/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
228	Bidya, R/B	South 24 Pgs. / Gosaba	Bagbagan, Ranipur	Sundarban Embankment	22.19418 88.862996		400.00			Erosion	Kotal		7.10	16/06/23 to 23/06/23	
229	Kapura, R/B	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.1737 88.907078		350.00			Erosion	Kotal		9.46	16/06/23 to 23/06/23	
230	Sarsa, L/B	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.214374 88.917642		225.00			Erosion	Kotal		6.08	16/06/23 to 23/06/23	
231	Bidya L/B	South 24 Pgs. / Gosaba	Bali	Sundarban Embankment	22.109254 88.738178		300.00			Erosion	Kotal		9.74	16/06/23 to 23/06/23	
232	Bidya L/B	South 24 Pgs. / Gosaba	Mathurakhana	Sundarban Embankment	22.061352 88.712974		120.00			Others	Kotal		9.49	16/06/23 to 23/06/23	
233	Puinjali L/B	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.224853 88.926979				1	Sluice	Kotal		6.00	25/06/23 to 08/07/23	
234	Bidya LB	South 24 Pgs. / Gosaba	Sonaga	Sundarban Embankment	22.129806 88.746614				3	Sluice	Kotal		10.00	25/06/23 to 08/07/23	
235	Durgadwani R/B	South 24 Pgs. / Gosaba	Birajnagar	Sundarban Embankment	22.152379 88.794035		300.00			Erosion	Kotal		9.75	25/06/23 to 08/07/23	
236	Hana, LB	South 24 Pgs. / Gosaba	Pathankhali	Sundarban Embankment	22.203947 88.748468		205.00			Erosion	Kotal		6.79	25/06/23 to 08/07/23	
237	Sazna, R/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.128072 88.832756		300.00			Erosion	Kotal		9.75	25/06/23 to 08/07/23	
238	Gomor	South 24 Pgs. / Gosaba	Amlamethi	Sundarban Embankment	22.074514 88.743183		130.00			Subsidence	Kotal		28.00	25/06/23 to 08/07/23	
239	Puinjali, L/B	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.224853 88.926979				1	Sluice	Kotal		5.72	02/07/23 to 10/07/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
240	Bidya, L/B	South 24 Pgs. / Gosaba	Bali, Uttardanga	Sundarban Embankment	22.129806 88.746614				3	Sluice	Kotal		8.56	02/07/23 to 10/07/23	
241	Durgadwani R/B	South 24 Pgs. / Gosaba	Birajnagar	Sundarban Embankment	22.152379 88.794035		300.00			Subsidence	Kotal		9.69	02/07/23 to 10/07/23	
242	Hana, LB	South 24 Pgs. / Gosaba	Pathankhali	Sundarban Embankment	22.203947 88.748468		205.00			Subsidence	Kotal		6.69	02/07/23 to 10/07/23	
243	Sazna, R/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.128072 88.832756		300.00			Subsidence	Kotal		9.75	02/07/23 to 10/07/23	
244	Gomor, R/B	South 24 Pgs. / Gosaba	Amlamethi	Sundarban Embankment	22.074514 88.743183			130.00		AILA Embankment	Kotal		26.50	02/07/23 to 10/07/23	
245	Bagna R/B	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.188568 88.91527		100.00			Erosion	Kotal		3.50	09/07/23 to 10/07/23	
246	Sarsa LB	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.18839 88.915464		250.00			Erosion	Kotal		8.30	09/07/23 to 10/07/23	
247	Gomor R/B	South 24 Pgs. / Gosaba	Amlamethi	Sundarban Embankment	22.080624 88.747932		350.00			Erosion	Kotal		11.00	09/07/23 to 10/07/23	
248	Bagna, R/B	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.188568 88.91527		100.00			Erosion	Kotal		2.91	18/07/23 to 19/07/23	
249	Sarsa, L/B	South 24 Pgs. / Gosaba	Kumirmari	Sundarban Embankment	22.18839 88.915464		250.00			Erosion	Kotal		7.19	18/07/23 to 19/07/23	
250	Gomor, R/B	South 24 Pgs. / Gosaba	Amlamethi	Sundarban Embankment	22.080624 88.747932		350.00			Erosion	Kotal		10.65	18/07/23 to 19/07/23	
251	Bidya, R/B	South 24 Pgs. / Gosaba	Kachukhali	Sundarban Embankment	22.216361 88.838893		120.00			Erosion	Kotal		9.99	18/07/23 to 19/07/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
252	Puinjali R/B	South 24 Pgs. / Gosaba	Amtali	Sundarban Embankment	22.229946 88.915531		80.00			Erosion	Kotal		2.18	31/07/23 to 04/08/23	
253	Durgadwani R/B	South 24 Pgs. / Gosaba	Birajnagar	Sundarban Embankment	22.15691 88.795707		70.00			Erosion	Kotal		5.28	31/07/23 to 04/08/23	
254	Pathankhali R/B , Bidya LB	South 24 Pgs. / Gosaba	Kamakhypur and Kachukhali	Sundarban Embankment	22.203887 88.862802		20.00		1	Sluice	Kotal		1.46	31/07/23 to 04/08/23	
255	Durgadwani L/B	South 24 Pgs. / Gosaba	Sonaga	Sundarban Embankment	22.118293 88.775264		80.00			Erosion	Kotal		3.79	31/07/23 to 04/08/23	
256	Kapura R/B	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.17546 88.890087		70.00			Erosion	Kotal		1.82	31/07/23 to 04/08/23	
257	Gomor, L/B	South 24 Pgs. / Gosaba	Satjelia	Sundarban Embankment	22.163521 88.868446		350.00			Erosion	Kotal		7.80	16/08/23 to 19/08/23	
258	Gomor, L/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.135996 88.846012		300.00			Erosion	Kotal		6.53	16/08/23 to 19/08/23	
259	Gomor, R/B	South 24 Pgs. / Gosaba	Mathurakhana	Sundarban Embankment	22.063864 88.739038		340.00			Erosion	Kotal		5.56	16/08/23 to 19/08/23	
260	Hana, L/B	South 24 Pgs. / Gosaba	Pathankhali	Sundarban Embankment	22.28255 88.807396				3	Sluice	Kotal		3.24	16/08/23 to 19/08/23	
261	Sarsa, R/B	South 24 Pgs. / Gosaba	Chotomollakhali	Sundarban Embankment	22.20447 88.908967		25.00			Erosion	Kotal		1.23	16/08/23 to 19/08/23	
262	Gomor R/B	South 24 Pgs. / Gosaba	Pakhirala	Sundarban Embankment	22.131949 88.828551		38.00			Erosion	Kotal		2.63	30/08/23 to 04/09/23	
263	Sazna R/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.125589 88.838126		275.00			Erosion	Kotal		11.99	30/08/23 to 04/09/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
264	Sazna R/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.129045 88.833654		175.00			Erosion	Kotal		8.00	30/08/23 to 04/09/23	
265	Bidya L/B	South 24 Pgs. / Gosaba	Birajnagar	Sundarban Embankment	22.153124 88.781216		90.00			Erosion	Kotal		7.93	30/08/23 to 04/09/23	
266	Sazna R/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.12205 88.846453		430.00			Erosion	Kotal		8.14	14/09/23 to 18/09/23	
267	Gomor R/B	South 24 Pgs. / Gosaba	Pakhirala	Sundarban Embankment	22.130773 88.820448		460.00			Erosion	Kotal		7.50	14/09/23 to 18/09/23	
268	Durgadwani L/B	South 24 Pgs. / Gosaba	Sonaga	Sundarban Embankment	22.126151 88.785407		45.00			Erosion	Kotal		9.96	14/09/23 to 18/09/23	
269	Hana L/B	South 24 Pgs. / Gosaba	Pathankhali	Sundarban Embankment	22.200416 88.748127		90.00			Erosion	Kotal		3.67	14/09/23 to 18/09/23	
270	Hana L/B	South 24 Pgs. / Gosaba	Sambhunagar	Sundarban Embankment	22.279935 88.806551		40.00			Erosion	Kotal		1.84	14/09/23 to 18/09/23	
271	Dutta R/B	South 24 Pgs. / Gosaba	Sadhupur & Gosaba	Sundarban Embankment	22.169332 88.798864				1	Sluice	Kotal		6.00	14/09/23 to 18/09/23	
272	Durgamandap L/B	South 24 Pgs. / Gosaba	Baromollakhali	Sundarban Embankment	22.248047 88.867839		100.00			Erosion	Kotal		4.07	29/09/23 to 03/10/23	
273	Pathankhali R/B	South 24 Pgs. / Gosaba	Bipradaspur	Sundarban Embankment	22.212143 88.806551		230.00			Erosion	Kotal		8.92	29/09/23 to 03/10/23	
274	Bidya L/B	South 24 Pgs. / Gosaba	Birajnagar	Sundarban Embankment	22.154922 88.782243		190.00			Erosion	Kotal		9.65	29/09/23 to 03/10/23	
275	Bidya L/B	South 24 Pgs. / Gosaba	Chotomollakhali	Sundarban Embankment	22.201325 88.885225		35.00			Erosion	Kotal		2.16	29/09/23 to 03/10/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
276	Gomor L/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.127726 88.83239		300.00			Erosion	Kotal		16.21	29/09/23 to 03/10/23	
277	Gomor L/B	South 24 Pgs. / Gosaba	Dayapur	Sundarban Embankment	22.129808 88.834322		300.00			Erosion	Kotal		16.10	29/09/23 to 03/10/23	
278	Bidya L/B	South 24 Pgs. / Gosaba	Kachukhali	Sundarban Embankment	22.209767 88.833705		120.00			Subsidence	Kotal		7.37	29/09/23 to 03/10/23	
279	Bidya R/B	South 24 Pgs. / Gosaba	Manmathanagar	Sundarban Embankment	22.187067 88.830678		140.00			Erosion	Kotal		6.82	29/09/23 to 03/10/23	
280	Gomor R/B	South 24 Pgs. / Gosaba	Pakhirala	Sundarban Embankment	22.128735 88.822163		110.00			Erosion	Kotal		5.35	29/09/23 to 03/10/23	
281	Gomor L/B	South 24 Pgs. / Gosaba	Satjelia	Sundarban Embankment	22.166686 88.865361		160.00			Erosion	Kotal		10.46	29/09/23 to 03/10/23	
282	Gomor L/B	South 24 Pgs. / Gosaba	Satjelia	Sundarban Embankment	22.167323 88.880081		185.00			Erosion	Kotal		10.70	29/09/23 to 03/10/23	
283	Durgadwani L/B	South 24 Pgs. / Gosaba	Sonaga	Sundarban Embankment	22.126552 88.785428		40.00			Erosion	Kotal		9.09	29/09/23 to 03/10/23	
284	Bidya R/B	South 24 Pgs. / Gosaba	Ranipur	Sundarban Embankment	22.190187 88.845954		150.00			Erosion	Kotal		5.83	29/09/23 to 03/10/23	
285	Durgadwani R/B	South 24 Pgs. / Gosaba	Birajnagar	Sundarban Embankment	22.122224 88.778158		100.00			Erosion	Kotal		5.51	29/09/23 to 03/10/23	
286	Gomor R/B	South 24 Pgs. / Gosaba	Amlamethi	Sundarban Embankment	22.075532 88.744319			52.00		AILA Embankment	Kotal		12.68	29/09/23 to 03/10/23	
287	Kapura R/B	South 24 Pgs. / Gosaba	Kalidaspur	Sundarban Embankment	22.17858 88.898068	130.00				Breach	Kotal	1.36	19.49	14/10/23 to 16/10/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
288	Melmel R/B	South 24 Pgs. / Gosaba	Hentalbari	Sundarban Embankment	22.1704 88.87542		150.00			Erosion	Kotal		15.85	11/01/24 to 14/01/24	
289	Matla(L/B)	South 24 Pgs. / Basanti	Purandar	Sundarban Embankment	22.207595 88.686181		115.00			Subsidence	Kotal		10.28	20.04.23	
290	Bidya(R/B)	South 24 Pgs. / Basanti	Parbotipur	Sundarban Embankment	22.077348 88.681677		150.00			Subsidence	Kotal		15.20	05.04.23	
291	Bidya(R/B)	South 24 Pgs. / Basanti	Birinchibari	Sundarban Embankment	22.105918 88.686964		200.00			Subsidence	Kotal		16.95	05.04.23	
292	Bidya(R/B)	South 24 Pgs. / Basanti	Nafarganj	Sundarban Embankment	22.10552 88.689207		250.00			Subsidence	Kotal		10.24	05.04.23	
293	Matla(L/B)	South 24 Pgs. / Basanti	Basanti	Sundarban Embankment	22.203767 88.709464		250.00			Subsidence	Kotal		20.11	19/05/23 to 21/05/23	
294	Hana(R/B)	South 24 Pgs. / Basanti	Kalahajra, Fulmalancha	Sundarban Embankment	22.241343 88.759447		200.00			Subsidence	Kotal		12.00	16/06/23 to 23/06/23	
295	Hana(R/B)	South 24 Pgs. / Basanti	Chunakhali	Sundarban Embankment	22.298637 88.803398		150.00			Subsidence	Kotal		12.50	16/06/23 to 23/06/23	
296	Hana(R/B)	South 24 Pgs. / Basanti	Chunakhali	Sundarban Embankment	22.296978 88.802787		100.00			Subsidence	Kotal		10.50	16/06/23 to 23/06/23	
297	Hana(R/B)	South 24 Pgs. / Basanti	Kalahajra	Sundarban Embankment	22.236382 88.754755		200.00			Subsidence	Kotal		9.00	16/06/23 to 23/06/23	
298	Hana(R/B)	South 24 Pgs. / Basanti	Kalahajra	Sundarban Embankment	22.218985 88.759772		250.00			Subsidence	Kotal		10.00	16/06/23 to 23/06/23	
299	Kartal (L/B)	South 24 Pgs. / Basanti	Masjidbati	Sundarban Embankment	22.178629 88.770912		200.00			Subsidence	Kotal		9.50	16/06/23 to 23/06/23	
300	Hogal (L/B)	South 24 Pgs. / Basanti	Radhaballavpur	Sundarban Embankment	22.196871 88.718288		75.00			Others	Kotal		4.00	16/06/23 to 23/06/23	
301	Hogal (L/B)	South 24 Pgs. / Basanti	Chandrakona	Sundarban Embankment	22.195667 88.725124		150.00			Subsidence	Kotal		12.50	16/06/23 to 23/06/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
302	Goranbose Khal (L/B)	South 24 Pgs. / Basanti	Radharanipur	Sundarban Embankment	22.105577 88.688997		50.00			Subsidence	Kotal		8.00	16/06/23 to 23/06/23	
303	Matla (L/B)	South 24 Pgs. / Basanti	Shikaripara	Sundarban Embankment	22.345601 88.440505		50.00			Others	Kotal		4.00	16/06/23 to 23/06/23	
304	Hogol(R/B)	South 24 Pgs. / Basanti	Sonakhali 7	Sundarban Embankment	22.210157 88.691952		250.00			Subsidence	Kotal		11.00	16/06/23 to 23/06/23	
305	Hogol (R/B)	South 24 Pgs. / Basanti	Sonakhali	Sundarban Embankment	22.209524, 88.703318		200.00			Subsidence	Kotal		17.00	25/06/23 to 08/07/23	
306	Hogol (R/B)	South 24 Pgs. / Basanti	Sonakhali	Sundarban Embankment	22.211614, 88.698484				1	Sluice	Kotal		8.00	25/06/23 to 08/07/23	
307	Hana(R/B)	South 24 Pgs. / Basanti	Kumrakhali	Sundarban Embankment	22.372012 88.80336		75.00			Subsidence	Kotal		2.50	25/06/23 to 08/07/23	
308	Hana(R/B)	South 24 Pgs. / Basanti	Kumrakhali	Sundarban Embankment	22.361361 88.821048		120.00			Erosion	Kotal		4.80	25/06/23 to 08/07/23	
309	Hogal(L/B), Bidya(R/B)	South 24 Pgs. / Basanti	Basanti	Sundarban Embankment	22.193957, 88.731097				5	Sluice	Kotal		7.50	25/06/23 to 08/07/23	
310	Matla(L/B)	South 24 Pgs. / Basanti	Goranbose	Sundarban Embankment	22.153282 88.652602		150.00			Erosion	Kotal		5.25	25/06/23 to 08/07/23	
311	Hana(R/B)	South 24 Pgs. / Basanti	Kumrakhali	Sundarban Embankment	22.366105 88.807539				3	Sluice	Kotal		7.00	25/06/23 to 08/07/23	
312	Hogol (R/B)	South 24 Pgs. / Basanti	Sonakhali	Sundarban Embankment	22.209524 88.703318		200.00			Subsidence	Kotal		17.00	02/07/23 to 10/07/23	
313	Hogol (R/B)	South 24 Pgs. / Basanti	Sonakhali	Sundarban Embankment	22.211614 88.698484				1	Sluice	Kotal		8.00	02/07/23 to 10/07/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
314	Hana(R/B)	South 24 Pgs. / Basanti	8 No Kumrakhali/ Charabidya	Sundarban Embankment	22.372012 88.80336		75.00			Subsidence	Kotal		2.50	02/07/23 to 10/07/23	
315	Hana(R/B)	South 24 Pgs. / Basanti	9 No Kumrakhali/ Charabidya	Sundarban Embankment	22.361361 88.821048		120.00			Erosion	Kotal		4.80	02/07/23 to 10/07/23	
316	Hogal(L/B), Bidya(R/B)	South 24 Pgs. / Basanti	Sajnetala, Radhaballavpur/ Basanti	Sundarban Embankment	22.193957 88.731097				5	Sluice	Kotal		7.50	02/07/23 to 10/07/23	
317	Matla(L/B)	South 24 Pgs. / Basanti	Garanbose/ Bharatgar	Sundarban Embankment	22.153282 88.652602		150.00			Erosion	Kotal		5.25	02/07/23 to 10/07/23	
318	Hana(R/B)	South 24 Pgs. / Basanti	Kumrakhali/ Charabidya	Sundarban Embankment	22.366105 88.807539				3	Sluice	Kotal		7.00	02/07/23 to 10/07/23	
319	Bidya, R/B	South 24 Pgs. / Basanti	Nafarganj / Birinchibari	Sundarban Embankment	22.096073 88.695718		90.00			Subsidence	Kotal		9.24	18/07/23 to 19/07/23	
320	Bidya, R/B	South 24 Pgs. / Basanti	Nafarganj / Birinchibari	Sundarban Embankment	22.093032 88.691246		150.00			Subsidence	Kotal		7.54	18/07/23 to 19/07/23	
321	Hogol L/B	South 24 Pgs. / Basanti	Radhaballavpur	Sundarban Embankment	22.197652 88.720463		75.00			Subsidence	Kotal		2.35	30/08/23 to 04/09/23	
322	Hogol R/B	South 24 Pgs. / Basanti	Sonakhali	Sundarban Embankment	22.206916 88.707966		70.00			Subsidence	Kotal		2.20	30/08/23 to 04/09/23	
323	Hogol R/B	South 24 Pgs. / Basanti	Dakshin Ramchandrakhali	Sundarban Embankment	22.196519 88.728064		75.00			Subsidence	Kotal		4.40	14/09/23 to 18/09/23	
324	BidyaR/B	South 24 Pgs. / Basanti	Tridibnagar	Sundarban Embankment	22.009881 88.728286		120.00			Erosion	Kotal		6.30	29/09/23 to 03/10/23	
325	Garanbaose (R/B)	South 24 Pgs. / Basanti	Nafarganj	Sundarban Embankment	22.10524 88.688968		20.00			Erosion	Kotal		3.50	29/09/23 to 03/10/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
326	Hogol (R/B)	South 24 Pgs. / Basanti	Charanekhali	Sundarban Embankment	22.210294 88.685481		135.00			Erosion	Kotal		4.10	29/09/23 to 03/10/23	
327	Hogol (L/B)	South 24 Pgs. / Basanti	Radhaballavpur	Sundarban Embankment	22.197211 88.718093				3	Sluice	Kotal		2.82	29/09/23 to 03/10/23	
328	Hana (R/B)	South 24 Pgs. / Basanti	Chunakhali	Sundarban Embankment	22.2899926 88.80298759		100.00			Erosion	Kotal		3.55	29/09/23 to 03/10/23	
329	Hogol L/B	South 24 Pgs. / Basanti	Radhaballavpur	Sundarban Embankment	22.204563 88.707549		130.00			Subsidence	Kotal		14.92	3.11.23	
330	Herobhangal/B	South 24 Pgs. / Basanti	Jharkhai	Sundarban Embankment	22.17858 88.898068		120.00			Subsidence	Kotal		25.68	3.11.23	
331	Matla(R/B)	South 24 Pgs. / Canning-I	Budhakhalii	Sundarban Embankment	22.185535 88.663885		200.00			Subsidence	Kotal		7.50	05/05/23 to 09/05/23	
332	Matla(R/B)	South 24 Pgs. / Canning-I	Budhakhalii	Sundarban Embankment	22.178923 88.656358		190.00			Subsidence	Kotal		7.10	05/05/23 to 09/05/23	
333	Matla(R/B)	South 24 Pgs. / Canning-I	Redokhali	Sundarban Embankment	22.215335 88.629110		290.00			Subsidence	Kotal		9.70	05/05/23 to 09/05/23	
334	Matla(R/B)	South 24 Pgs. / Canning-I	Budhakhalii	Sundarban Embankment	22.179321, 88.656835		150.00			Erosion	Kotal		5.50	25/06/23 to 08/07/23	
335	Matla(R/B)	South 24 Pgs. / Canning-I	Budhakhalii	Sundarban Embankment	22.181986 88.659817		220.00			Erosion	Kotal		8.10	25/06/23 to 08/07/23	
336	Matla(R/B)	South 24 Pgs. / Canning-I	Budhakhalii	Sundarban Embankment	22.182800 88.660706		240.00			Erosion	Kotal		8.90	25/06/23 to 08/07/23	
337	Matla (R/B)	South 24 Pgs. / Canning-I	Budhakhalii	Sundarban Embankment	22.179321 88.656835		150.00			Subsidence	Kotal		5.50	02/07/23 to 10/07/23	
338	Matla (R/B)	South 24 Pgs. / Canning-I	Budhakhalii	Sundarban Embankment	22.181986 88.659817		220.00			Subsidence	Kotal		8.10	02/07/23 to 10/07/23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
339	Matla (R/B)	South 24 Pgs. / Canning-I	Budhakhali	Sundarban Embankment	22.182800 88.660706		240.00			Subsidence	Kotal		8.90	02/07/23 to 10/07/23	
340	Matla (R/B)	South 24 Pgs. / Canning-I	Budhakhali	Sundarban Embankment	22.175252 88.652544		170.00			Erosion	Kotal		5.90	31/07/23 to 04/08/23	
341	Matla (R/B)	South 24 Pgs. / Canning-I	Redokhali	Sundarban Embankment	22.215486 88.629356		330.00			Subsidence	Kotal		6.70	31/07/23 to 04/08/23	
342	Beledona (L/B)	South 24 Pgs. / Canning-I	Madhukhali	Sundarban Embankment	22.193902 88.629152		250.00			Subsidence	Kotal		3.30	31/07/23 to 04/08/23	
343	Matla (R/B)	South 24 Pgs. / Canning-I	Hinchakhali	Sundarban Embankment	22.274101 88.663521		37.00			Subsidence	Kotal		1.00	31/07/23 to 04/08/23	
344	Matla (R/B)	South 24 Pgs. / Canning-I	Madhukhali	Sundarban Embankment	22.171430 88.648834		100.00			Subsidence	Kotal		4.60	29/09/23 to 03/10/23	
345	Beledona (L/B)	South 24 Pgs. / Canning-I	Kripakhali	Sundarban Embankment	22.160231 88.633178		30.00			Erosion	Kotal		2.60	29/09/23 to 03/10/23	
346	Moni (R/B)	South24 Pgs/ Mathurapur-II	Kumrapara	16.5 km to 16.7km	21.942566 88.451063		100.00			Slip & Subsidence	New Moon Kotal		7.27	17.06.23 to 20.06.23	
347	Nukchora (R/B)	South24 Pgs/ Mathurapur-II	Kailashpur	18.35 km to 18.49km	21.904573 88.422502		140.00			Slip & Subsidence	New Moon Kotal		8.83	17.06.23 to 20.06.23	
348	Nukchora (R/B)	South24 Pgs/ Mathurapur-II	Mahabatnagar	18.55 km to 18.725km	21.908248 88.420875 .		175.00			Slip & Subsidence	New Moon Kotal		8.51	17.06.23 to 20.06.23	
349	Moni(R/B)	South24 Pgs/ Mathurapur-II	Kumrapara	Sluice at 21.954648 N, 88.464613 E.	21.954648 88.464613 .				1	Structure	New Moon Kotal		2.83	17.06.23 to 20.06.23	
350	Mridangabhaga (L/B)	South24 Pgs/ Mathurapur-II	Nandakumarpur	Sluice at 21.946051 N 88.399627 E	21.946051 88.399627				1	Structure	New Moon Kotal		2.76	17.06.23 to 20.06.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
351	Moni (R/B)	South24 Pgs/ Mathurapur-II	Kumrapara / Kumrapara	11.20 km to 11.30 km	21.965325 88.444297		100.00			Slip & Subsidence	Full Moon Kotal		14.00	01.08.23 to 04.08.23	
352	Moni (L/B)	South24 Pgs/ Mathurapur-II	Kumrapara / Kumrapara	9.50 km to 9.58 km	21.963895 88.445038		80.00			Slip & Subsidence	Full Moon Kotal		12.00	01.08.23 to 04.08.23	
353	Moni (L/B)	South24 Pgs/ Mathurapur-II	Kumrapara / Kumrapara	11.85 km to 11.95 km	21.96319 88.445866		100.00			Slip & Subsidence	Full Moon Kotal		8.00	01.08.23 to 04.08.23	
354	Moni (R/B)	South24 Pgs/ Mathurapur-II	Kumrapara / Kumrapara	13.50 km to 13.90 km	21.970929 88.44322		350.00			Slip & Subsidence	Full Moon Kotal		8.98	01.08.23 to 04.08.23	
355	Sutarbag	South24 Pgs/ Mathurapur-II	Piprakhali / Kumrapara	Sluice	21.946952 88.45389				1	Structure	Full Moon Kotal		3.95	01.08.23 to 04.08.23	
356	Sutarbag (L/B)	South24 Pgs/ Mathurapur-II	Chaplakhop / Dighirpar Bakultala	Sluice	21.905833 88.456944				1	Structure	Full Moon Kotal		4.85	01.08.23 to 04.08.23	
357	Sutarbag	South24 Pgs/ Mathurapur-II	Dk Raipur / Dk Raipur	Sluice	21.995143 88.37542				1	Structure	Full Moon Kotal		5.50	01.08.23 to 04.08.23	
358	Moni (R/B)	South24 Pgs/ Mathurapur-II	Kumrapara / Kumrapara	13.10 km to 13.18 km	21.946952 88.45389		80.00			Slip & Subsidence	Full Moon Kotal		7.50	01.08.23 to 04.08.23	
359	Pukchora	South24 Pgs/ Mathurapur-II	Nagendrapur / Domkol	27.525 km to 27.225 km	21.905833 88.456944		350.00			Slip & Subsidence	Full Moon Kotal		10.84	01.08.23 to 04.08.23	
360	Pukchora	South24 Pgs/ Mathurapur-II	Nagendrapur / Domkol	26.870 km to 27.220 km	21.910555 88.459166		300.00			Slip & Subsidence	Full Moon Kotal		8.77	01.08.23 to 04.08.23	
361	Pukchora	South24 Pgs/ Mathurapur-II	Nagendrapur / Domkol	25.180 km to 25.360 km	21.899722 88.4613888		180.00			Slip & Subsidence	Full Moon Kotal		9.50	01.08.23 to 04.08.23	
362	Thakuran	South24 Pgs/ Mathurapur-II	Nagendrapur / Purba Sridharpur	12.475 km to 13.325 km	21.944841 88.503154		850.00			Slip & Subsidence	Full Moon Kotal		13.90	01.08.23 to 04.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
363	Raidighi	South24 Pgs/ Mathurapur-II	Kankandighi / Kankandighi	57.650 km to 57.800 km	22.008722 88.457148		150.00			Slip & Subsidence	Full Moon Kotal		6.50	01.08.23 to 04.08.23	
364	Raidighi	South24 Pgs/ Mathurapur-II	Kankandighi / Kankandighi	48.050 km to 48.150 km	21.952222 88.468055		80.00			Slip & Subsidence	Full Moon Kotal		7.50	01.08.23 to 04.08.23	
365	Sutarbag (L/B)	South24 Pgs/ Mathurapur-II	Joykrishnapur / Nandakumarpur	44.10 km to 44.22 km	21.970491 88.39371		110.00			Slip & Subsidence	Full Moon Kotal		7.92	01.08.23 to 04.08.23	
366	Mridangabhag a (L/B)	South24 Pgs/ Mathurapur-II	Nandakumarpur / Nandakumarpur	34.70 km to 34.84 km	21.949428 88.399464		140.00			Slip & Subsidence	Full Moon Kotal		7.50	01.08.23 to 04.08.23	
367	Nukchora (R/B)	South24 Pgs/ Mathurapur-II	Kailashpur / Nandakumarpur	17.00 km to 17.26 km	21.905625 88.428745		260.00			Slip & Subsidence	Full Moon Kotal		9.75	01.08.23 to 04.08.23	
368	Mridangabhag a (L/B)	South24 Pgs/ Mathurapur-II	Mahabatnagar / Nandakumarpur	32.80 km to 32.86 km	21.926086 88.405646		35.00			Slip & Subsidence	Full Moon Kotal		4.50	01.08.23 to 04.08.23	
369	Mridangabhag a (L/B)	South24 Pgs/ Mathurapur-II	Mahabatnagar / Nandakumarpur	33.10 km to 33.21 km	21.918696 88.408158		110.00			Slip & Subsidence	Full Moon Kotal		8.50	01.08.23 to 04.08.23	
370	Mridangabhag a	South24 Pgs/ Mathurapur-II	Mahabatnagar / Nandakumarpur	19.95 km to 20.15 km	21.901968 88.393436		200.00			Slip & Subsidence	Full Moon Kotal		6.98	01.08.23 to 04.08.23	
371	Raidighi (L/B)	South24 Pgs/ Mathurapur-II	Kankandighi / Kankandighi	48.170 Km to 48.320 Km	21.953124 88.469296		150.00			Slip & Subsidence	Full Moon Kotal		7.00	30.08.23 to 03.09.2025	
372	Thakuran (R/B)	South24 Pgs/ Mathurapur-II	Nagendrapur / Domkol	23.250 Km to 23.330 Km	21.899366 88.474867		80.00			Slip & Subsidence	Full Moon Kotal		3.00	30.08.23 to 03.09.2025	
373	Sutarbag (R/B)	South24 Pgs/ Mathurapur-II	Dighirpar Bakultala / Chaolakhop	Sluice at 22.000789 & 21.986003N & 88.391066E & 88.366758E	: 22.000789 21.986003 : 88.391066 88.366758				2	Structure	Full Moon Kotal		4.67	30.08.23 to 03.09.2025	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
374	Moni (R/B)	South24 Pgs/ Mathurapur-II	Kumrapara / Kumrapara	Sluices	21.973410 88.401883, 22.02277 88.354907				2	Structure	Full Moon Kotal		2.95	30.08.23 to 03.09.2025	
375	Nukchora (R/B)	South24 Pgs/ Mathurapur-II	Jaganathchak / Nandakumarpur	Sluices	21.915939 88.435712, 21.913033 88.441912, 21.908893 88.421586, 21.901663 88.415275, 21.905719 88.393673				5	Structure	Full Moon Kotal		6.22	30.08.23 to 03.09.2025	
376	Moni (L/B)	South24 Pgs/ Mathurapur-II	Kankandighi / Kankandighi	Ch. 50.100 to 50.150	21.968514 88.373385		50.00			Slip & Subsidence	Full Moon Kotal		3.75	28.09.23 to 05.10.23	
377	Nukchara (R/B)	South24 Pgs/ Mathurapur-II	Kailaspur / Nandakumarpur	Sluice	21.908257 88.434806				1	Structure	Full Moon Kotal		2.54	28.09.23 to 05.10.23	
378	Chatua (R/B)	South24 Pgs/ Mathurapur-II	Naranpur / Nandakumarpur	Ch. 1.60 to 1.70	21.945322 88.442525		100.00			Slip & Subsidence	Full Moon Kotal		3.76	28.09.23 to 05.10.23	
379	Matla(R/B)	South24 Pgs/ Kultali	Dongajhora	Sundarban Embankment	22.122778 88.622778		9.00			Subsidence of Brick Pitching	Full Moon Kotal		1.00	03.07.23 to 05.07.23	
380	Matla(R/B)	South24 Pgs/ Kultali	Dongajhora	Sundarban Embankment	22.126111 88.624167		10.00			Subsidence of Brick Pitching	Full Moon Kotal		1.00	03.07.23 to 05.07.23	
381	Matla(R/B)	South24 Pgs/ Kultali	Dongajhora	Sundarban Embankment	22.126389 88.624167		8.00			Subsidence of Brick Pitching	Full Moon Kotal		1.00	03.07.23 to 05.07.23	
382	Petkulchand(R /B)	South24 Pgs/ Kultali	Purba Gurguria	Sundarban Embankment	21.994878 88.580139		1000.00			Slip & Subsidence	Full Moon Kotal		29.00	03.07.23 to 05.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
383	Olian(R/B)	South24 Pgs/ Kultali	Binodpur	Sluice at Lat- 21.891421 N Long- 88.545422 E	21.891421 88.545422				1	Structure	Full Moon Kotal		1.00	03.07.23 to 05.07.23	
384	Thakuran(L/B)	South24 Pgs/ Kultali	Baikunthapur	Sluice at Lat- 21.894989 N Long- 88.505303 E	21.894989 88.505303				1		Full Moon Kotal		1.00	03.07.23 to 05.07.23	
385	Thakuran (L/B)	South24 Pgs/ Kultali	Binodpur	8.750 km to 8.780 km	21.916975 88.525768		30.00			Others	Full Moon Kotal		2.50	01.08.23 to 04.08.23	
386	Thakuran (R/B)	South24 Pgs/ Kultali	Baikunthapur	4.750 km to 4.870 km	21.891111 88.500555		120.00			Slip & Subsidence	Full Moon Kotal		15.00	30.08.23 to 03.09.23	
387	Thakuran (L/B)	South24 Pgs/ Kultali	Baikunthapur	4.050 km to 4.200 km	21.887096 88.497473		150.00			Slip & Subsidence	Full Moon Kotal		7.00	30.08.23 to 03.09.23	
388	Thakuran(L/B)	South24 Pgs/ Kultali	Binodpur	8.00 km, 27.00 km & 12.50 km	21.91724 88.533116				1	Structure	Full Moon Kotal		2.00	30.08.23 to 03.09.23	
389	Olian(R/B)	South24 Pgs/ Kultali	Binodpur	35.25 Km & 37.30 Km.	21.923515 88.525365				1	Structure	Full Moon Kotal		2.00	30.08.23 to 03.09.23	
390	Thakuran (L/B)	South24 Pgs/ Kultali	Bhubaneswari	10.700 to Ch. 10.950	21.923515 88.525365		250.00			Slip & Subsidence	Full Moon Kotal		7.00	30.08.23 to 03.09.23	
391	Gurakhal (R/B)	South24 Pgs/ Kultali	Madhyagurguria	17.500 to Ch. 17.580	21.973611 88.557222		80.00			Slip & Subsidence	Full Moon Kotal		5.00	30.08.23 to 03.09.23	
392	Olian(R/B)	South24 Pgs/ Kultali	Binodpur	Ch. 37.450 to Ch. 37.650	21.891385 88.545438		200.00			Slip & Subsidence	Full Moon Kotal		5.00	30.08.23 to 03.09.2024	
393	Olian (R/B)	South24 Pgs/ Kultali	Binodpur	35.620 Km to 35.700 Km.	21.901035 88.538972		80.00			Slip & Subsidence	Full Moon Kotal		2.00	30.08.23 to 03.09.2025	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
394	Beledona (R/B)	South24 Pgs/ Kultali	Purba Shyamnagar	6.10 Km to 6.20 Km.	22.165277 88.458888		75.00			Others	Full Moon Kotal		2.00	30.08.23 to 03.09.2025	
395	Piyali (L/B)	South24 Pgs/ Kultali	Alta Khali & Tetulberia	Tetuberia and Benimadhabpur sluice 21.00 Km & 17.60 Km	22.140833 88.581388				1	Structure	Full Moon Kotal		3.00	30.08.23 to 03.09.2025	
396	Nabipukur(R/B )	South24 Pgs/ Kultali	Kantamari	7.80 Km to 8.00 Km.	22.0192983 88.5978383		100.00			Slip & Subsidence	Full Moon Kotal		7.50	30.08.23 to 03.09.2025	
397	Thakuran (L/B)	South24 Pgs/ Kultali	Binodpur	7.23 Km to 7.26	21.91724 88.533116		30.00			Others	Full Moon Kotal		1.00	30.08.23 to 03.09.2025	
398	Beledona(R/B)	South24 Pgs/ Kultali	Benimadhabpur	18.00 km and 18.10 km	22.196944 88.621667		90.00			Others	New Moon Kotal		2.60	13.09.23 to 18.09.23	
399	Matla(R/B)	South24 Pgs/ Kultali	Kaikhali	1.00 km and 1.10 km	22.056170 88.606742		100.00			Others	New Moon Kotal		5.60	13.09.23 to 18.09.23	
400	Gurakhal (R/B)	South24 Pgs/ Kultali	Bhubaneswari	25.990 km. to 26.090 km.	21.935555 88.547222		70.00			Others	New Moon Kotal		1.80	13.09.23 to 18.09.23	
401	Thakuran (L/B)	South24 Pgs/ Kultali	Radhaballavpur	Ch 8.30 and Ch 8.45	22.041083 88.552182		130.00			Others	New Moon Kotal		4.00	13.09.23 to 18.09.23	
402	Thakuran (L/B)	South24 Pgs/ Kultali	Binodpur	7.550 km. to 7.600 km.	21.908889 88.520000		15.00			Others	Full Moon Kotal		0.93	28.09.23 to 05.10.23	
403	Gurakhal (R/B)	South24 Pgs/ Kultali	Debipur	21.250 km. to 21.300 km.	21.955000 88.540833		15.00			Others	Full Moon Kotal		0.68	28.09.23 to 05.10.23	
404	Thakuran (L/B)	South24 Pgs/ Kultali	Debipur	14.300 km. to 14.350 km.	21.960000 88.501667		13.00			Others	Full Moon Kotal		0.73	28.09.23 to 05.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
405	Gurakhal (R/B)	South24 Pgs/ Kultali	Maipith	Ch 34.270 to Ch 34.490	21.917222 88.550833		220.00			Slip & Subsidence	Full Moon Kotal		5.85	28.09.23 to 05.10.23	
406	Matla (R/B)	South24 Pgs/ Kultali	Dongajora	3.50 km. to 3.55 km.	22.120833 88.6219444		23.00			Others	Full Moon Kotal		0.79	28.09.23 to 05.10.23	
407	Nabipukur(L/B )	South24 Pgs/ Kultali	Kaikhali	1.50 km. to 1.55 km.	22.056170 88.606742		13.00			Others	Full Moon Kotal		1.08	28.09.23 to 05.10.23	
408	Beledona (R/B)	South24 Pgs/ Kultali	Purba Shyamnagar	6.50 km. to 6.55 km.	22.16555556 88.62750000		30.00			Others	Full Moon Kotal		0.77	28.09.23 to 05.10.23	
409	Gurakhal (R/B)	South24 Pgs/ Kultali	Debipur	23.450 km. to 23.500 km.	21.95750000 88.54055556		50.00			Slip & Subsidence	Full Moon Kotal		7.94	27.10.23 to 30.10.23	
410	Moni (L/B)	South24 Pgs/ Joynagar-II	Nolgora	36.00 km to 36.090 km	22.011055 88.471493		90.00			Others	Full Moon Kotal		3.00	01.08.23 to 04.08.23	
411	Thakuran (L/B)	South24 Pgs/ Joynagar-II	Binodpur	Ch. 12.15 to Ch. 12.225	22.008889 88.546666		75.00			Others	Full Moon Kotal		3.00	30.08.23 to 03.09.2025	
412	Thakuran (L/B)	South24 Pgs/ Joynagar-II	Bhubankhali	Ch 12.23 to Ch 12.245	22.00833333 88.54611111		15.00			Others	Full Moon Kotal		1.24	28.09.23 to 05.10.23	
413	Jagaddal	South24 Pgs/ Patharpratima	Sridharnagar	Sundarban Embankment	21.710000 88.430555		525.00			Slip & Subsidence	Full Moon Kotal		31.00	01.08.23 to 04.08.23	
414	Gobadia (L/B)	South24 Pgs/ Patharpratima	Dk. Gobindopur	5.15 km to 5.18 km	21.836111 88.355833		30.00			Slip & Subsidence	Full Moon Kotal		1.20	01.08.23 to 04.08.23	
415	Nakchara (L/B)	South24 Pgs/ Patharpratima	Kuemari	5.84km to 5.88 km	21.904941 88.448164		40.00			Slip & Subsidence	Full Moon Kotal		3.50	01.08.23 to 04.08.23	
416	Nakchara (L/B)	South24 Pgs/ Patharpratima	Kuemari	Sluice	21.902017 88.451106				1	Structure	Full Moon Kotal		0.70	01.08.23 to 04.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
417	Thakuran (L/B)	South24 Pgs/ Patharpratima	Paschim Sripatinagar	0.200 km to 0.600 km	21.800833 88.480277		350.00			Slip & Subsidence	Full Moon Kotal		21.00	01.08.23 to 04.08.23	
418	Mridangabhan ga (R/B)	South24 Pgs/ Patharpratima	Jogindrapur	9.20 km to 9.24 km	21.83527778 88.38305556		10.00			Others	Full Moon Kotal		0.50	01.08.23 to 04.08.23	
419	Gobadia (L/B)	South24 Pgs/ Patharpratima	Dk. Gobindpur	Sluice	21.82361111 88.35722222				1	Structure	Full Moon Kotal		1.50	01.08.23 to 04.08.23	
420	Mridangabhan ga (R/B)	South24 Pgs/ Patharpratima	Dk. Mahendrapur	6.70 km to 6.73 km	21.80944444 88.390000 .		10.00			Others	Full Moon Kotal		0.50	01.08.23 to 04.08.23	
421	Mridangabhan ga (R/B)	South24 Pgs/ Patharpratima	Indraprastha	7.500 km to 7.535 km	21.84222222 88.38527778		10.00			Others	Full Moon Kotal		0.50	01.08.23 to 04.08.23	
422	Mridangabhan ga (L/B)	South24 Pgs/ Patharpratima	Bishnupur	15.20 km to 15.23 km	21.842223 88.401308		15.00			Others	Full Moon Kotal		0.75	01.08.23 to 04.08.23	
423	Atherogachi Khal (R/B)	South24 Pgs/ Patharpratima	Kumarpur	37.55km to 37.65 km	21.847222 88.415555		100.00			Slip & Subsidence	Full Moon Kotal		2.20	01.08.23 to 04.08.23	
424	Kalua (L/B)	South24 Pgs/ Patharpratima	Abad Gangadharpur	66.1 km to Ch 66.17 km	21.976033 88.348953		60.00			Slip & Subsidence	New Moon Kotal		5.76	16.08.23 to 19.08.23	
425	Mridangabhan ga (R/B)	South24 Pgs/ Patharpratima	Ramganga	16.70 km to 16.90 km	21.794496 88.382406		200.00			Slip & Subsidence	New Moon Kotal		7.45	16.08.23 to 19.08.23	
426	Mridangabhan ga (L/B)	South24 Pgs/ Patharpratima	Laxmipur	2.70 km to 2.90 km	21.81027778 88.40138889		100.00			Slip & Subsidence	New Moon Kotal		4.30	16.08.23 to 19.08.23	
427	Pakhirali (L/B)	South24 Pgs/ Patharpratima	Achintanagar	24.36 km to 24.51 km	21.80333333 88.42888889		150.00			Slip & Subsidence	New Moon Kotal		5.45	16.08.23 to 19.08.23	
428	Gobadia	South24 Pgs/ Patharpratima	Taranagar	2.70 km to 2.90 km	21.9011111 88.3058333		60.00			Others	New Moon Kotal		1.00	16.08.23 to 19.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
429	Gobadia (L/B)	South24 Pgs/ Patharpratima	Dk. Gobindapur	5.20 km to 5.35 km	21.836792 88.356076		150.00			Slip & Subsidence	New Moon Kotal		5.50	16.08.23 to 19.08.23	
430	Thakuran (R/B)	South24 Pgs/ Patharpratima	Purba Sripatinagar	11.30 km to 11.70	21.824722 88.494167		330.00			Slip & Subsidence	New Moon Kotal		13.00	16.08.23 to 19.08.23	
431	Jagaddal (R/B)	South24 Pgs/ Patharpratima	Sridhamnagar	16.30 km to 16.50 km	21.714444 88.427222		120.00			Slip & Subsidence	New Moon Kotal		4.50	16.08.23 to 19.08.23	
432	Atharogachi Khal (L/B)	South24 Pgs/ Patharpratima	Kumarpur	40.70 km to 40.725 km	21.8436111 88.4013888		25.00			Others	New Moon Kotal		0.66	16.08.23 to 19.08.23	
433	Atharogachi Khal (R/B)	South24 Pgs/ Patharpratima	Lakhijanardanpur	34.20 km to 34.25 km	21.824840 88.458221		50.00			Others	New Moon Kotal		0.63	16.08.23 to 19.08.23	
434	Atharogachi Khal	South24 Pgs/ Patharpratima	Lakhijanardanpur	31.70 km to 31.72 km	21.836251 88.436751		20.00			Others	New Moon Kotal		0.83	16.08.23 to 19.08.23	
435	Thakuran (R/B)	South24 Pgs/ Patharpratima	Purbo Suredranagar	Sluice	21.877592 88.475571				1	Structure	New Moon Kotal		1.26	16.08.23 to 19.08.23	
436	Mridangabhan ga (R/B)	South24 Pgs/ Patharpratima	Indraprastha	21.20 km to 21.50 km	21.84194444 88.38527778		50.00			Slip & Subsidence	Full Moon Kotal		5.20	30.08.23 to 03.09.23	
437	Pakhirali (L/B)	South24 Pgs/ Patharpratima	Kamdevpur	22.14 km to 22.34 km	21.81527778 88.42361111		200.00			Slip & Subsidence	Full Moon Kotal		5.40	30.08.23 to 03.09.23	
438	Barchara.(L/B)	South24 Pgs/ Patharpratima	Ramganga	14.84 km to 14.94 km	21.79666667 88.37166667		100.00			Slip & Subsidence	Full Moon Kotal		2.50	30.08.23 to 03.09.23	
439	Gobadia	South24 Pgs/ Patharpratima	Dk.Mahendrapur	Sluice	21.873264 88.367604				1	Structure	Full Moon Kotal		1.50	30.08.23 to 03.09.23	
440	Mridangabhan ga (R/B)	South24 Pgs/ Patharpratima	Baikunthapur	18.60 km to 18.70 km	21.81833333 88.38638889		30.00			Others	Full Moon Kotal		1.00	30.08.23 to 03.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
441	Gundakata khal (R/B)	South24 Pgs/ Patharpratima	Taranagar	8.20 km to 8.25 km	21.88944444 88.32055556		15.00			Slip & Subsidence	Full Moon Kotal		0.61	28.09.23 to 05.10.23	
442	Mridangabhan ga (L/B)	South24 Pgs/ Patharpratima	Laxmipur	3.60 km to 3.85 km	21.81527778 88.42361111		250.00			Slip & Subsidence	Full Moon Kotal		5.82	28.09.23 to 05.10.23	
443	Gundakata khal (R/B)	South24 Pgs/ Patharpratima	Taranagar	Sluice	21.901161 88.306166				1	Structure	Full Moon Kotal		0.50	28.09.23 to 05.10.23	
444	Panipukuria Khal (R/B)	South24 Pgs/ Patharpratima	Purnachandapur	Sluice	21.908571 88.327798				1	Structure	Full Moon Kotal		0.58	28.09.23 to 05.10.23	
445	Nakchara (R/B)	South24 Pgs/ Patharpratima	Kuemari	8.89km to 8.910 km	21.892898 88.461449		10.00			Others	Full Moon Kotal		0.65	28.09.23 to 05.10.23	
446	Sibua (R/B)	South24 Pgs/ Patharpratima	Dk. Kashinagar	16.97km to 16.997 km	21.83880 88.484477		17.00			Others	Full Moon Kotal		0.65	28.09.23 to 05.10.23	
447	Sibua (R/B)	South24 Pgs/ Patharpratima	Laxmijanardanpur	29.60 Km to 29.632 Km.	21.833572 88.469130		22.00			Others	Full Moon Kotal		0.67	28.09.23 to 05.10.23	
448	Pakhirali (R/B)	South24 Pgs/ Patharpratima	Upendranagar	25.30 km to 25.330 km	21.796666 88.466944		15.00			Others	Full Moon Kotal		0.46	28.09.23 to 05.10.23	
449	Pakhirali (R/B)	South24 Pgs/ Patharpratima	Upendranagar	27.60 km to 27.90 km	21.7897222 88.4652777		120.00			Slip & Subsidence	Full Moon Kotal		3.00	28.09.23 to 05.10.23	
450	Mridangabhan ga (R/B)	South24 Pgs/ Patharpratima	Indranarayanpur	4.70 km to 5.00 km	21.900444 88.381667		250.00			Slip & Subsidence	Full Moon Kotal		13.02	28.09.23 to 05.10.23	
451	Gobadia (R/B)	South24 Pgs/ Patharpratima	Taranagar	16.50 km to 16.515 km	21.95027778 88.34833333		15.00			Others	Full Moon Kotal		2.91	28.09.23 to 05.10.23	
452	Sutarbag (R/B)	South24 Pgs/ Patharpatima	Dk Raypur / Dk Raipur	Ch 65.30 km to Ch 65.42 km	21.968479 88.373181		120.00			Slip & Subsidence	Full Moon Kotal		17.31	28.09.23 to 05.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
453	Kalua (L/B)	South24 Pgs/ Patharpatima	Dakshin Durgapur / Abad Gangadharpur	63.15 km to 63.210 km	21.951977 88.353828		60.00			Slip & Subsidence	Full Moon Kotal		3.17	28.09.23 to 05.10.23	
454	Nakchara (R/B)	South24 Pgs/ Patharpatima	Kuemari	5.93 KM. to 5.95 Km.	21.905037 88.448995		20.00			Erosion	Full Moon Kotal		2.75	28.09.23 to 05.10.23	
455	Mridangabhan ga (L/B)	South24 Pgs/ Patharpatima	Kumarpur	49.720 Km to 49.730 Km.	21.853315 88.402317		10.00			Others	Full Moon Kotal		0.34	27.10.23 to 30.10.23	
456	Sibua (R/B)	South24 Pgs/ Patharpatima	Dk. Kashinagar	17.18 km to 17.192 km	21.851720 88.447300		12.00			Others	Full Moon Kotal		0.37	27.10.23 to 30.10.23	
457	Mridangabhan ga	South24 Pgs/ Patharpatima	Digambarpur	Sluice	21.927211 88.395766				1	Structure	Full Moon Kotal		1.36	27.10.23 to 30.10.23	
458	Pakhrali (L/B)	South24 Pgs/ Patharpatima	Kamdevpur	21.90 km to 22.00 km	21.812500 88.420278		100.00			Slip & Subsidence	Full Moon Kotal		2.30	27.10.23 to 30.10.23	
459	Ghatihara (LB)	North 24 Pgs/SDK-I	Bholakhali	Ghatihara (LB)	22.393576 88.879573		200.00			Subsidence	Incessant Rain		10.00	29.06.23	
460	Dansa	North 24 Pgs/ Sandeshkhali-II	Dholkhali	Left Bank	22.359408 88.902131		50.00			Slip & Erosion	Incessant Rain & Depression		4.84	17.06.23	
461	Dansa	North 24 Pgs/ Sandeshkhali-II	Dholkhali	Left Bank	22.364463 88.902082		70.00			Slip & Erosion	Incessant Rain & Depression		6.15	17.06.23	
462	Ichamoti	North 24 Pgs/ Hasnabad	Barunhat	Right Bank	22.364463 88.902082		220.00			Slip & Erosion	Incessant Rain & Depression		4.74	17.06.23	
463	Sahebkhali	North 24 Pgs/ Sandeshkhali-II	Khulna	Right Bank	22.322477 88.945641		270.00			Slip & Erosion	Incessant Rain & Depression		5.65	03.07.23	
464	Baro Kolagachi	North 24 Pgs/ Sandeshkhali-II	Khulna	Left Bank	22.332119 88.912299		160.00			Slip & Erosion	Incessant Rain & Depression		3.25	03.07.23	
465	Sahebkhali	North 24 Pgs/ Hingalganj	Amberia	Right bank	22.414314 88.970349		100.00			Slip & Erosion	Kotal		5.80	18.06.23	
466	Sahebkhali	North 24 Pgs/ Hingalganj	Choto Sahebkhali	Left bank	22.407127 88.966927		110.00			Slip & Erosion	Kotal		7.45	18.06.23	
467	Goureswar	North 24 Pgs/ Hingalganj	Dharamberia	Right bank	22.48599 88.948331		95.00			Erosion	Kotal		5.24	17.06.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
468	Sahebkhali	North 24 Pgs/ Hingalganj	Swarupkathi	Right bank	22.401408 88.965126		14.00			Other & embankment erosion	Kotal		1.12	18.06.23	
469	Goureswar	North 24 Pgs/ Hingalganj	Bastala	Right bank	22.398402 88.934605		15.00			Other & embankment erosion	Kotal		1.27	18.06.23	
470	Raimongal	North 24 Pgs/ Hingalganj	Jogeshganj	Left Bank	22.240856 88.963686		40.00			Other & embankment erosion	Incessant Rain with Depression		2.09	03.07.23	
471	Raimongal	North 24 Pgs/ Hingalganj	Jogeshganj	Left Bank	22.241263 88.963868		35.00			Other & embankment erosion	Incessant Rain with Depression		1.79	03.07.23	
472	Sahebkhali	North 24 Pgs/ Hingalganj	Pukuria	Left Bank	22.33509 88.954822		90.00			Slip & Erosion	Incessant Rain with Depression		2.07	03.07.23	
473	Raimongal	North 24 Pgs/ Hingalganj	Madhabkati	Left Bank	22.273276 88.954222		60.00			Slip & Erosion	Incessant Rain with Depression		1.75	03.07.23	
474	Sahebkhali	North 24 Pgs/ Hingalganj	Dulduli	Left Bank	22.362053 88.956887		50.00			Slip & Erosion	Incessant Rain with Depression		3.63	03.07.23	
475	Raimongal	North 24 Pgs/ Hingalganj	Ramapur	Left Bank	22.298047 88.951792		40.00			Slip & Erosion	Incessant Rain with Depression		3.66	03.07.23	
476	Kalindi	North 24 Pgs/ Hingalganj	Bankra & Malekanghumti	Right bank	22.437714 88.985808		126.00			Other & embankment erosion	Incessant Rain with Depression		5.14	4.07.23	
477	Kalindi	North 24 Pgs/ Hingalganj	Charalkhali	Right bank	22.299395 89.000003		60.00			Other & embankment erosion	Incessant Rain with Depression		2.37	3.07.23	
478	Kalindi	North 24 Pgs/ Hingalganj	Singerkati	Right bank	22.438259 89.041271		120.00			Other & embankment erosion	Incessant Rain with Depression		5.13	3.07.24	
479	Kalindi	North 24 Pgs/ Hingalganj	Sridharkati	Right bank	22.254571 89.006729		1 No			Sluice Repair	Incessant Rain with Depression		2.84	2.07.23	
480	Kalindi	North 24 Pgs/ Hingalganj	Sridharkati	Right bank	22.270548 89.013311		49.00			Other & embankment erosion	Incessant Rain with Depression		2.05	4.07.24	
481	Dansa	North 24 Pgs/ Hasnabad	Chalkpatli	Left Bank	22.50496 88.910404		200.00			Slip & Erosion	Incessant Rain with Depression		2.85	18.05.23	
482	Dansa	North 24 Pgs/ Hingalganj	Bainaara	Left Bank	22.437902 88.912076		150.00			Slip & Erosion	Incessant Rain with Depression		7.80	20.04.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
483	Dansa (RB)	North 24 Pgs/SDK-I	Bholakhali	Dansa (RB)	22.337973 88.89992.		117.00			Erosion	Kotal		3.58	19.06.23	
484	Dansa (RB)	North 24 Pgs/SDK-I	Bholakhali	Dansa (RB)	22.373923 88.895847.		140.00			Erosion	Kotal		9.05	19.06.23	
485	Dansa (RB)	North 24 Pgs/SDK-I	Choto Sehara	Dansa (RB)	22.434379 88.907692.		75.00			Erosion	Kotal		3.58	19.06.23	
486	Tushkhali (RB)	North 24 Pgs/SDK-II	Bhangatushkhali	Tushkhali (RB)	22.33394 88.871218.		42.00			Erosion	Kotal		3.20	19.06.23	
487	Bani Boalia (LB)	North 24 Pgs/SDK-II	Jelliakhali (West)	Bani Boalia (LB)	22.336129 88.808415.		200.00			Erosion	Kotal		5.90	19.06.23	
488	Hatakhalii (LB)	North 24 Pgs/SDK-II	Jelliakhali (West)	Hatakhalii (LB)	22.322295 88.810217.		195.00			Erosion	Kotal		5.45	19.06.23	
489	Bani Boalia (LB)	North 24 Pgs/SDK-II	Jelliakhali (West)	Bani Boalia (LB)	22.336129 88.808415.		180.00			Erosion	Kotal		5.67	19.06.23	
490	Barokalagachi (RB)	North 24 Pgs/SDK-II	Atapur	Barokalagachi (RB)	22.317919 88.90369		180.00			Slip	Kotal		12.77	19.06.23	
491	Dansa (RB)	North 24 Pgs/Hansabad	Sulkuni Abad	Dansa (RB)	22.551382 88.896293				1	Jelepara Sluice	Kotal		6.07	18.06.23	
492	Raimangal (RB)	North 24 Pgs/SDK-II	Monipur	Raimangal (RB)	22.289906 88.935225				1	Boalier Char Sluice	Kotal		2.24	18.06.23	
493	Boalia (LB)	North 24 Pgs/SDK-II	Bhangatushkhali	Boalia (LB)	22.333853 88.866306		40.00			Erosion	Kotal		2.51	03.07.23	
494	Ghatihara (LB)	North 24 Pgs/SDK-I	Bholakhali	Ghatihara (LB)	22.381002 88.881424		175.00			Erosion	Kotal		3.91	04.07.23	
495	Ghatihara (LB)	North 24 Pgs/SDK-I	Bholakhali	Ghatihara (LB)	22.372215 88.88819		135.00			Erosion	Kotal		7.87	04.07.23	
496	Raimangal (RB)	North 24 Pgs/SDK-II	Monipur	Raimangal (RB)	22.289864 88.935143		45.00			Erosion	Kotal		1.53	03.07.23	
497	Hatakhalii (LB)	North 24 Pgs/SDK-II	Jelliakhali (West)	Hatakhalii (LB)	22.315429 88.819042				1	Christan para Sluice	Kotal		3.00	05.07.23	
498	Ghatihara (LB)	North 24 Pgs/SDK-I	Nityaberia	Ghatihara (LB)	22.398745 88.88153		60.00			Erosion	Kotal		4.00	05.07.23	
499	Chotokalagachi (LB)	North 24 Pgs/SDK-II	Dwarir Jungal	Chotokalagachi (LB)	22.368488 88.864469		150.00			Erosion	Kotal		4.36	05.07.23	
500	Ghatihara (LB)	North 24 Pgs/SDK-I	Nityaberia	Ghatihara (LB)	22.39598 88.880629		125.00			Erosion	Kotal		4.86	04.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
501	Dansa (RB)	North 24 Pgs/SDK-I	Radhanagar	Dansa (RB)	22.424214 88.903593		120.00			Erosion	Kotal		5.76	04.07.2024	
502	Bidyadhari (L.B)	North 24 Pgs/Minakhan	Atpukur	Bidyadhari (L.B)	22.529226 88.707376		20.00			Subsidence	Kotal		4.77	17.06.23	
503	Buri (R.B)	North 24 Pgs/Minakhan	Kachhuola	Buri (R.B)	22.555821 88.732596		150.00			Slip	Kotal		2.36	03.07.23	
504	Metia (R.B)	North 24 Pgs/Minakhan	Batchra Abad	Metia (R.B)	22.539686 88.76375		140.00			Slip	Kotal		3.27	03.07.23	
505	Haroagang Kultkgang (L.B)	North 24 Pgs/Haroa	Ranigachi	Haroagang Kultkgang (L.B)	22.548408 88.675019		100.00			Subsidence	Kotal		7.19	17.06.23	
506	Bidyadhari (L.B)	North 24 Pgs/Minakhan	Atpukur	Bidyadhari (L.B)	22.528436 88.712355		25.00			Slip	Kotal		1.32	03.07.23	
507	Bidyadhari (R.B)	North 24 Pgs/Sandeshkhali-I	Kanmari	Bidyadhari (R.B)	22.440236 88.805676		30.00			Slip	Kotal		3.21	18.06.23	
508	Chotokalagachi (R.B)	North 24 Pgs/Sandeshkhali-II	Bermajur	Chotokalagachi (R.B)	22.383070 88.849126		6.00			Subsidence	Kotal		0.25	18.06.23	
509	Bidyadhari (R.B)	North 24 Pgs/Sandesh Khali-I	Baunia Abad	Bidyadhari (R.B)	22.467558 88.812109		26.00			Slip	Kotal		1.13	18.06.23	
510	Bidyadhari (R.B)	North 24 Pgs/Sandesh Khali-I	Baunia Abad	Bidyadhari (R.B)	22.492847 88.796149		150.00			Slip	Kotal		3.97	18.06.23	
511	Bidyadhari (R.B)	North 24 Pgs/Sandesh Khali-I	Baunia Abad	Bidyadhari (R.B)	22.455047 88.811321		70.00			Slip	Kotal		16.58	18.06.23	
512	Bidyadhari (R.B)	North 24 Pgs/Sandesh Khali-I	Baunia Abad	Bidyadhari (R.B)	22.474413 88.810712		3.00			Other	Kotal		1.75	18.06.23	
513	Bidyadhari (R.B)	North 24 Pgs/Sandesh Khali-I	Baunia Abad	Bidyadhari (R.B)	22.499125 88.785707		200.00			Slip	Kotal		5.54	18.06.23	
514	Chotokalagachi (R.B)	North 24 Pgs/Sandesh Khali-II	Dhamakhali	Chotokalagachi (R.B)	22.369285 88.858265		250.00			Slip	Kotal		5.69	18.06.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
515	Chotokalagachi (R.B)	North 24 Pgs/Sandesh Khali- II	Bermajur	Chotokalagachi (R.B)	22.385703 88.852284		40.00			Slip	Kotal		1.52	18.06.23	
516	Chotokalagachi (R.B)	North 24 Pgs/Sandesh Khali- II	Jhupkhali	Chotokalagachi (R.B)	22.373739 88.855651		200.00			Slip	Kotal		4.52	18.06.23	
517	Dhulia (R.B)	North 24 Pgs/Sandesh Khali- II	Jhupkhali	Dhulia (R.B)	22.381716 88.852798		105.00			Slip	Kotal		3.09	18.06.23	
518	Dansa	North 24 Pgs/ Hasnabad	Chalkpatli	Left Bank	22.508119 88.905703		190.00			Slip & Erosion	Incessant Rain with Depression		4.33	16.07.23	
519	Sahebkhali	North 24 Pgs/ Hingalganj	Ketarchak	Right bank	22.380453 88.964022		50.00			Slip & Erosion	Kotal		5.97	18.07.23	
520	Sahebkhali	North 24 Pgs/ Hingalganj	Choto Sahebkhali	Left bank	22.407197 88.966991		95.00			Slip & Erosion	Kotal		10.15	18.07.23	
521	Sahebkhali	North 24 Pgs/ Hingalganj	Putia Mathbari	Left bank	22.37747 88.966951		35.00			Erosion	Kotal		1.32	18.07.23	
522	Raimongal	North 24 Pgs/ Hingalganj	Patghara	Left Bank	22.275566 88.954449		80.00			Slip & Erosion	Incessant Rain with Depression		5.48	16.07.23	
523	Kalindi	North 24 Pgs/ Hingalganj	Choto Sahebkhali	Right bank	22.403881 88.974047		36.00			Other & embankment erosion	Incessant Rain with Depression		1.40	19.07.23	
524	Bidyadhari (R.B.)	North 24 Pgs/Sandesh Khali- I	Baunia Abad	Bidyadhari (R.B.)	22.457502 88.810959		35.00			Slip	Kotal		6.27	18.07.23	
525	Bidyadhari (R.B.)	North 24 Pgs/Sandesh Khali- I	Baunia Abad	Bidyadhari (R.B.)	22.456447 88.810845		60.00			Slip	Kotal		7.11	18.07.23	
526	Bidyadhari (R.B.)	North 24 Pgs/Sandesh Khali- I	Baunia Abad	Bidyadhari (R.B.)	22.454481 88.811025		170.00			Slip	Kotal		5.71	18.07.23	
527	Haroagang-Kultigang (L.B)	North 24 Pgs/Haroa	Ranigachi	Haroagang-Kultigang (L.B)	22.57243 88.677209		80.00			Subsidence	Kotal		8.66	19.07.23	
528	Metia (R.B)	North 24 Pgs/Minakhan	Mohanpur	Metia (R.B)	22.567263 88.77034		30.00			Subsidence	Kotal		1.04	19.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
529	Rampur (L.B)	North 24 Pgs/Sandeshpur-II	Rampur	Rampur (L.B)	22.362039 88.841128 22.361928 88.838466		35.00			Subsidence	Kotal		1.63	18.07.23	
530	Raimangal (RB)	North 24 Pgs/SDK-II	Monipur	Raimangal (RB)	22.292063 88.937019		110.00			Erosion	Kotal		2.80	17.07.23	
531	Raimangal (RB)	North 24 Pgs/SDK-II	Monipur	Raimangal (RB)	22.28699 88.93567		100.00			Erosion	Kotal		2.51	17.07.23	
532	Bidya (RB)	North 24 Pgs/SDK-II	Daudpur	Bidya (RB)	22.27064 88.81704		120.00			Erosion	Kotal		3.31	17.07.23	
533	Choto Kalagachi (R.B)	North 24 Pgs/Sandesh Khali- II	Dhamakhali	Choto Kalagachi (R.B)	22.361167 88.868202		10.00			Slip	Kotal		1.32	05.07.23	
534	Sahebkhali	North 24 Pgs/ Hingalganj	Swarupkathi	Right bank	22.401373 88.965154		23.00			Other & embankment erosion	Kotal		1.76	02.08.23	
535	Goureswar	North 24 Pgs/ Hingalganj	Bhandarkhali, Rupamari	Right bank	22.378258 88.944158 22.426517 88.949427		26.00			Other & embankment erosion	Kotal		1.69	02.08.23	
536	Sahebkhali	North 24 Pgs/ Hingalganj	Choto Sahebkhali	Left bank	22.406245 88.967183		120.00			Erosion	Kotal		3.53	02.08.23	
537	Sahebkhali	North 24 Pgs/ Hingalganj	Lebukhali	Right bank	22.370044 88.961505		125.00			Erosion	Kotal		4.08	02.08.23	
538	Goureswar	North 24 Pgs/ Hingalganj	Lebukhali	Left bank	22.373067 88.953207		50.00			Slip & Erosion	Kotal		4.44	02.08.23	
539	Goureswar	North 24 Pgs/ Hingalganj	Sandeler bill	Left bank	22.442355 88.948093		19.00			Other & embankment erosion	Kotal		1.28	02.08.23	
540	Ichamoti	North 24 Pgs/ Hasnabad	Rameswarpur Barunhat	Right Bank	22.512508 88.969471		155.00			Severe embankment erosion	Incessant Rain & Depression		3.73	02.08.23	
541	Baro Kolagachi	North 24 Pgs/ Sandeshkhali-II	Khulna	Left Bank	22.330523 88.914121 22.353672 88.903699		300.00			Severe embankment erosion	Incessant Rain & Depression		5.57	02.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
542	Dansa	North 24 Pgs/ Sandeshkhali-II	Khulna	Left Bank	22.345047 88.906150		100.00			Severe embankment erosion	Incessant Rain & Depression		2.89	02.08.23	
543	Sakunkhali	North 24 Pgs/ Hingalganj	Samshernagar	Left Bank	22.207879 89.045926		36.00			Other & embankment erosion	Incessant Rain & Depression		1.12	02.08.23	
544	Gomoti	North 24 Pgs/ Hingalganj	Pergumti	Left Bank	22.222943 88.989783		40.00			Other & embankment erosion	Incessant Rain & Depression		1.21	02.08.23	
545	Sakunkhali	North 24 Pgs/ Hingalganj	Samshernagar	Left Bank	22.207888 89.045953		100.00			Slip & Erosion	Incessant Rain & Depression		3.49	02.08.23	
546	Raimongal	North 24 Pgs/ Hingalganj	Ramapur	Left Bank	22.293475 88.953694		110.00			Slip & Erosion	Incessant Rain & Depression		9.71	02.08.23	
547	Raimongal	North 24 Pgs/ Hingalganj	Ramapur	Left Bank	22.293793 89.953528		100.00			Slip & Erosion	Incessant Rain & Depression		39.24	02.08.23	
548	Ichamati (LB)	North 24 Pgs/Baduria	Swarparajpur	Ichamati (LB)	22.723275 88.811223		125.00			Subsidence	Kotal		4.50	03.08.23	
549	Ichamati (RB)	North 24 Pgs/Baduria	Ward-10	Ichamati (RB)	22.708697 88.810658		120.00			Subsidence	Kotal		4.34	03.08.2024	
550	Ichamati (RB)	North 24 Pgs/Basirhat Municipality	Ward-11	Ichamati (RB)	22.66663988. 860889		70.00			Slip	Kotal		1.68	04.08.2025	
551	Ichamati (LB)	North 24 Pgs/Basirhat- I	Panitor	Ichamati (LB)	22.666612 88.92078		150.00			Slip/Subsidence	Kotal		3.99	04.08.2026	
552	Barokalagachi (RB)	North 24 Pgs/SDK-II	Monipur	Barokalagachi (RB)	22.30559 88.917358		210.00			Erosion	Kotal		5.40	02.08.23	
553	Barokalagachi (RB)	North 24 Pgs/SDK-II	Monipur	Barokalagachi (RB)	22.30668 88.914825		185.00			Erosion	Kotal		4.43	02.08.23	
554	Tushkhali (RB)	North 24 Pgs/SDK-II	Baro Tushkhali	Tushkhali (RB)	22.378995 88.892124		65.00			Erosion	Kotal		1.73	03.08.23	
555	Bani Boalia (LB)	North 24 Pgs/SDK-II	Jelliakhali (West)	Bani Boalia (LB)	22.326742 88.805342		150.00			Erosion	Kotal		3.46	02.08.23	
556	Choto Kalagachi (LB)	North 24 Pgs/SDK-II	Dwarir Jungle	Choto Kalagachi (LB)	22.407387 88.86096		38.00			Erosion	Kotal		0.96	02.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
557	Choto Kalagachi (LB)	North 24 Pgs/SDK-II	Dwarir Jungle	Choto Kalagachi (LB)	22.405111 88.860532		60.00			Erosion	Kotal		1.44	02.08.23	
558	Dansa (RB)	North 24 Pgs/SDK-I	Baro Sehara	Dansa (RB)	22.409189 88.908852		40.00			Erosion	Kotal		2.19	02.08.23	
559	Ghatihara (LB)	North 24 Pgs/SDK-I	Nityaberia	Ghatihara (LB)	22.400872 88.882547		200.00			Erosion	Kotal		4.75	03.08.23	
560	Ghatihara (LB)	North 24 Pgs/SDK-I	Bholakhali	Ghatihara (LB)	22.374111 88.885653		75.00			Erosion	Kotal		4.78	03.08.23	
561	Dansa (RB)	North 24 Pgs/SDK-I	Ghatihara	Dansa (RB)	22.459282 88.897231		50.00			Erosion	Kotal		1.39	02.08.23	
562	Benti (RB)	North 24 Pgs/SDK-I	Dakshin Akhratala	Benti (RB)	22.499653 88.850418				1	Atbunia Sluice	Rain		1.08	02.08.23	
563	Bhaijuri (LB)	North 24 Pgs/Hansabad	Ichapur	Bhaijuri (LB)	22.50735 88.90085		40.00			Erosion	Kotal		2.28	03.08.23	
564	Kantakhali (LB)	North 24 Pgs/Hansabad	Bhurkunda	Kantakhali (LB)	22.554302 88.893704		60.00			Erosion	Kotal		1.43	02.08.23	
565	Bidyadhari (R.B)	North 24 Pgs/Sandesh Khali- II	Hatgachi	Bidyadhari (R.B)	22.431222 88.816319		20.00			Slip	Kotal		1.01	03.08.23	
566	Bidyadhari (R.B.)	North 24 Pgs/Sandesh Khali- I	Baunia Abad	Bidyadhari (R.B.)	22.483874 22.483874		80.00			Slip	Kotal		2.26	03.08.23	
567	Bidyadhari (L.B.)	North 24 Pgs/Sandesh Khali- I	Nazat	Bidyadhari (L.B.)	22.453458 88.818522		150.00			Slip	Kotal		3.22	03.08.23	
568	Choto Kalagachi (R.B)	North 24 Pgs/Sandesh Khali- II	Bermajur	Choto Kalagachi (R.B)	22.406384 88.85554		153.00			Slip	Kotal		3.25	03.08.23	
569	Rampur (L.B)	North 24 Pgs/Sandesh Khali- II	Rampir	Rampur (L.B)	22.361972 22.360674 88.838331 88.837347		55.00			Subsidence	Kotal		1.75	04.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
570	Bidyadhari (L.B. & R.B)	North 24 Pgs/Sandesh Khali-I & II	Nazat and Bermajur	Bidyadhari (L.B. & R.B)	22.436625 22.381563 22.401430 88.850021 88.852946 88.853327		50.00			Slip	Kotal		2.87	04.08.23	
571	Jagannath (R.B)	North 24 Pgs/Haroa	Haldah	Jagannath (R.B)	22.57787 88.720697		250.00			Slip	Kotal		5.40	04.08.23	
572	Choto Kalagachi (R.B)	North 24 Pgs/Sandesh Khali- II	Bermajur	Choto Kalagachi (R.B)	22.38254888. 850854 22.38295588. 852513 22.36409388. 861852		3.00			Other	Kotal		1.03	04.08.23	
573	Ichamati	North 24 Pgs/ Hasnabad	Laskarnagar, Angnara, Tangramari	Left Bank & Right Bank	22.567227 88.916625		75.00			Subsidence & Severe embankment erosion	Incessant Rain & Depression		3.15	16.08.23	
574	Sahebkhali	North 24 Pgs/ Hingalganj	Pukuria	Left Bank	22.332428 89.954214		60.00			Slip & Erosion	Incessant Rain & Depression		2.27	16.08.23	
575	Kalindi	North 24 Pgs/ Hingalganj	Samshernagar	Right bank	22.220336 88.989477		140.00			Erosion	Kotal		4.08	18.08.23	
576	Sahebkhali	North 24 Pgs/ Hingalganj	Putia Mathbari	Left bank	22.378019 88.966877		35.00			Erosion	Kotal		1.12	16.08.23	
577	Tushkhali (LB)	North 24 Pgs/SDK-II	Korakati	Tushkhali (LB)	22.329298 88.872648		90.00			Erosion	Kotal		2.20	17.08.23	
578	Boalia (RB)	North 24 Pgs/SDK-II	Bhanga Tushkhali	Boalia (RB)	22.335347 88.862361		100.00			Erosion	Kotal		8.50	17.08.23	
579	Barokalagachi (RB)	North 24 Pgs/SDK-II	Atapur	Barokalagachi (RB)	22.351674 88.873242		130.00			Erosion	Kotal		3.23	17.08.23	
580	Chotokalagachi (RB)	North 24 Pgs/SDK-II	Tushkhali	Chotokalagachi (RB)	22.348451 88.892124		75.00			Erosion	Kotal		4.12	17.08.23	
581	Dansa (RB)	North 24 Pgs/Hansabad	Ichapur	Dansa (RB)	22.506651 88.902669		40.00			Erosion	Kotal		1.97	18.08.23	
582	Dansa (RB)	North 24 Pgs/Hansabad	Sulkuni Abad	Dansa (RB)	22.554176 88.893899		40.00			Erosion	Kotal		0.66	16.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
583	Benti (RB)	North 24 Pgs/SDK-I	Dakshin Akhratala	Benti (RB)	22.500486 88.84411				1	Dakshin Akhratala Sluice	Kotal		0.27	16.08.23	
584	Benti (RB)	North 24 Pgs/SDK-I	Dakshin Akhratala	Benti (RB)	22.440869 88.85505		120.00			Erosion	Kotal		2.23	16.08.23	
585	Dansa (RB)	North 24 Pgs/SDK-I	Ghatihara	Dansa (RB)	22.461695 88.895805		50.00			Erosion	Kotal		1.26	16.08.23	
586	Dansa (RB)	North 24 Pgs/SDK-I	Bholakhali	Dansa (RB)	22.387191 88.898379		150.00			Erosion	Kotal		7.48	17.08.23	
587	Ghatihara (RB)	North 24 Pgs/SDK-II	Dwarir Jungle	Ghatihara (RB)	22.384303 88.875317		60.00			Erosion	Kotal		4.47	16.08.23	
588	Dansa (RB)	North 24 Pgs/SDK-I	Baro Sehara	Dansa (RB)	22.410728 88.905943		40.00			Erosion	Kotal		0.88	17.08.23	
589	Ghatihara (LB)	North 24 Pgs/SDK-I	Bholakhali	Ghatihara (LB)	22.37671 88.884381		100.00			Erosion	Kotal		2.29	17.08.23	
590	Rampur (L.B)	North 24 Pgs/Sandesh Khali- II	Dhamakhali	Rampur (L.B)	22.361966 88.866958 22.362535 88.865868 22.362226 88.861911		3.00			Other	Kotal		1.00	16.08.23	
591	Bidyadhari (L.B)	North 24 Pgs/Sandesh Khali- I	Baunia Abad	Bidyadhari (L.B)	22.466688 88.797416		47.00			Slip	Kotal		2.70	16.08.23	
592	Metia (L.B)	North 24 Pgs/Minakanh	Chatal	Metia (L.B)	22.525831 88.783992		160.00			Slip	Kotal		3.84	16.08.23	
593	Goureswar	North 24 Pgs/ Hingalganj	Bastala	Right bank	22.389991 88.937674				1	Dakshin Bastala sluice	Kotal		2.50	30.08.23	
594	Goureswar	North 24 Pgs/ Hingalganj	Bispur	Right bank	22.480411 88.947183		60.00			Erosion	Kotal		1.52	30.08.23	
595	Goureswar	North 24 Pgs/ Hingalganj	Bhandarkhali	Right bank	22.369625 88.945163		40.00			Erosion	Kotal		1.09	30.08.23	
596	Sahebkhali	North 24 Pgs/ Hingalganj	Amberia	Right bank	22.414122 88.970076		80.00			Slip	Kotal		4.71	30.08.23	
597	Sahebkhali	North 24 Pgs/ Hingalganj	Amberia	Right bank	22.411385 89.965838, 22.410609 88.964996		90.00			Erosion	Kotal		2.51	30.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
598	Sahebkhali	North 24 Pgs/ Hingalganj	Swarupkathi	Right bank	22.401423 88.966477		38.00			Erosion	Kotal		1.40	30.08.23	
599	Goureswar	North 24 Pgs/ Hingalganj	Barunhat	Left bank	22.507397 88.969305		60.00			Slip	Kotal		2.15	30.08.23	
600	Kalindi	North 24 Pgs/ Hingalganj	Malekanghumti	Right bank	22.248322 89.033393		150.00			Erosion	Kotal		3.54	1.09.23	
601	Kalindi	North 24 Pgs/ Hingalganj	Kanaikati	Right bank	22.287226 88.993477		100.00			Erosion	Kotal		3.42	2.09.23	
602	Raimongal	North 24 Pgs/ Hingalganj	Madhabkati	Left Bank	22.269927 88.953429		31.00			Slip & Erosion	Incessant Rain & Depression		2.37	30.08.23	
603	Raimongal	North 24 Pgs/ Hingalganj	Madhabkati	Left Bank	22.273278 88.953295		65.00			Slip & Erosion	Incessant Rain & Depression		22.27	30.08.23	
604	Sakunkhali	North 24 Pgs/ Hingalganj	Kalitala	Left Bank	22.210973 89.015615		80.00			Slip & Erosion	Incessant Rain & Depression		2.98	30.08.23	
605	Sakunkhali	North 24 Pgs/ Hingalganj	Samshernagar	Left Bank	22.179741 89.06237		50.00			Slip & Erosion	Incessant Rain & Depression		1.96	30.08.24	
606	Sahebkhali	North 24 Pgs/ Sandeshkhali-II	Sitalia	Right Bank	22.314904 88.5419.9		27.00			Slip & Erosion	Incessant Rain & Depression		3.57	31.08.23	
607	Ichamati (R/B)	North 24 Pgs/ Taki Municipality	Ward no-2	Ichamati (R/B)	22.597830 88.940152			75.00		Bank erosion/Subside- nce	Kotal		4.50	01.09.23	
608	Gacherati Khal (R/B)	North 24 Pgs/ Taki Municipality	Ward no-1	Gacherati Khal (R/B)	22.613437 88.946803		40.00			Slip	Kotal		2.14	01.09.23	
609	Ichamati (RB)	North 24 Pgs/Baduria	Bajitpur	Ichamati (RB)	22.698392 88.846081		80.00			Slip	Kotal		4.50	31.08.23	
610	Ichamati (LB)	North 24 Pgs/ Swarupnagar	Banglani	Ichamati (LB)	22.793920 88.855032		110.00			Subsidence	Kotal		4.50	02.09.23	
611	Ichamati (RB)	North 24 Pgs/Baduria	Bajitpur	Ichamati (RB)	22.691947 88.845681				1	Harishpur Three Vent Sluice	Kotal		1.43	31.08.23	
612	Ichamati (RB)	North 24 Pgs/Baduria	Kankrasuti	Ichamati (RB)	22.747109 88.821329				1	Kankrasuti Double Vent Sluice	Kotal		1.50	01.09.23	
613	Chotokalagac- hi (RB)	North 24 Pgs/SDK-II	Tushkhali	Chotokalagachi (RB)	22.343519 88.890638		45.00			Erosion	Kotal		1.06	02.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
614	Barokalagachi (RB)	North 24 Pgs/SDK-II	Atapur	Barokalagachi (RB)	22.313187 88.907167		115.00			Slip	Kotal		18.27	01.09.23	
615	Ghatihara (RB)	North 24 Pgs/SDK-II	Dwarir Jungle	Ghatihara (RB)	22.385205 88.875025		70.00			Erosion	Kotal		4.93	01.09.23	
616	Ghatihara (LB)	North 24 Pgs/SDK-I	Bholakhali	Ghatihara (LB)	22.371203 88.893718		220.00			Erosion	Kotal		5.04	02.09.23	
617	Dansa (RB)	North 24 Pgs/SDK-I	Ghatihara	Dansa (RB)	22.46185 88.894138				1	Uttar Ghatihara Sluice	Kotal		1.99	02.09.23	
618	Boalia (LB)	North 24 Pgs/SDK-II	Durgamondop	Boalia (LB)	22.330327 88.866604		110.00			Erosion	Kotal		8.11	01.09.2024	
619	Kantakhali (LB)	North 24 Pgs/Hansabad	Ghosalati	Kantakhali (LB)	22.510525 88.857984		70.00			Erosion	Kotal		2.90	02.09.23	
620	Kantakhali (LB)	North 24 Pgs/Hansabad	Ghosalati	Kantakhali (LB)	22.501972 88.858854		45.00			Slip	Kotal		1.93	01.09.2024	
621	Bidyadhari (R.B.)	North 24 Pgs/Sandeshkhali-I	Baunia Abad	Bidyadhari (R.B.)	22.466032 88.812192		270.00			Slip	Kotal		11.13	01.09.23	
622	Bidyadhari (R.B.)	North 24 Pgs/Sandeshkhali-I	Baunia Abad	Bidyadhari (R.B.)	22.442329 22.432208		175.00			Slip	Kotal		3.92	01.09.23	
623	Bidyadhari (R.B.)	North 24 Pgs/Sandeshkhali-I	Kanmari & Hatgachi	Bidyadhari (R.B.)	22.442329 88.803349 22.432208 88.814286		120.00			Slip	Kotal		4.14	01.09.23	
624	Metia (L-B.)	North 24 Pgs/Minakhan	Chaital	Metia (L-B.)	22.520952 88.782389		180.00			Slip	Kotal		7.51	01.09.23	
625	Bidyadhari (R.B.)	North 24 Pgs/Sandeshkhali-I	khariat	Bidyadhari (R.B.)	22.448337 88.800798		120.00			Slip	Kotal		2.60	01.09.23	
626	Bidyadhari (R.B.)	North 24 Pgs/Sandeshkhali-I	khariat	Bidyadhari (R.B.)	22.472377 88.792495		50.00			Slip	Kotal		1.05	02.09.23	
627	Bidyadhari (R.B.)	North 24 Pgs/Sandeshkhali-I	khariat	Bidyadhari (R.B.)	22.469306 88.793961		80.00			Slip	Kotal		1.71	02.09.23	
628	Bidyadhari (R.B.)	North 24 Pgs/Sandeshkhali-I	khariat	Bidyadhari (R.B.)	22.477154 88.184744		50.00			Slip	Kotal		1.01	02.09.23	
629	Dansa	North 24 Pgs/Hingalganj	Kankaria	Left Bank	22.466021 88.898298		85.00			Subsidence & Severe embankment erosion	Incessant Rain & Depression		1.67	14.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
630	Dansa	North 24 Pgs/ Hingalganj	Kumirmari	Left Bank	22.414268 88.910782		40.00			Subsidence & Severe embankment erosion	Incessant Rain & Depression		1.10	14.09.23	
631	Kalindi	North 24 Pgs/ Hingalganj	Hingalganj	Right bank	22.489373 88.976518		90.00			Slip	Kotal		5.09	16.09.23	
632	Kalindi	North 24 Pgs/ Hingalganj	Singerkati	Right bank	22.287226 88.993477		20.00			Other	Kotal		0.93	15.09.23	
633	Sahebkhali	North 24 Pgs/ Hingalganj	Choto Sahebkhali	Left bank	22.404018 88.968747		95.00			Erosion	Kotal		2.70	14.09.23	
634	Sahebkhali, Goureswar	North 24 Pgs/ Hingalganj	Hatgacha, 3no Amberia	Left bank , Right bank	22.338102 88.945404 22.4156 88.96397				2	Hatgacha , 3no. Amberia sluice	Kotal		2.86	14.09.23	
635	Ichamati (R/B)	North 24 Pgs/Basirhat-I	Bagundi	Ichamati (R/B)	22.618662 88.931942		120.00			Slip	Kotal & Incessent rain		8.49	15.09.23	
636	Ichamati (R/B)	North 24 Pgs/ Taki Municipality	Ward No 2	Ichamati (R/B)	22.600854 88.944581		60.00			Slip/Bank erosion	Kotal & Incessent rain		3.20	18.09.23	
637	Rampur (LB)	North 24 Pgs/SDK-II	Bhangat tushkhali	Rampur (LB)	22.354599 88.873967		45.00			Erosion	Kotal		1.00	15.09.23	
638	Boalia (LB)	North 24 Pgs/SDK-II	Durgamondop	Boalia (LB)	22.332294 88.857495		105.00			Erosion	Kotal		2.18	15.09.23	
639	Rampur (LB)	North 24 Pgs/SDK-II	Bhangat tushkhali	Rampur (LB)	22.356724 88.862641 22.664285 88.891525		28.00			Erosion	Kotal		1.15	15.09.23	
640	Kantakhali (LB)	North 24 Pgs/Hansabad	Ghosalati	Kantakhali (LB)	22.501824 88.859205		200.00			Erosion	Kotal		15.44	16.09.23	
641	Kantakhali (LB)	North 24 Pgs/Hansabad	Bhurkunda	Kantakhali (LB)	22.524374 88.868735		200.00			Erosion	Kotal		15.43	16.09.23	
642	Kantakhali (RB)	North 24 Pgs/Hansabad	Kharampur	Kantakhali (RB)	22.508756 88.841355		150.00			Erosion	Kotal		1.74	16.09.23	
643	Raimangal (RB)	North 24 Pgs/SDK-II	Monipur	Raimangal (RB)	22.269382 88.930727		135.00			Erosion	Kotal		2.74	15.09.23	
644	Dansa (RB)	North 24 Pgs/SDK-II	Bholakhali	Dansa (RB)	22.389789 88.90172		200.00			Erosion	Kotal		4.32	15.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
645	Dansa (RB)	North 24 Pgs/SDK-I	Raypur	Dansa (RB)	22.440923 88.903542		30.00			Erosion	Kotal		1.07	14.09.23	
646	Benti (LB)	North 24 Pgs/SDK-I	Putimari	Benti (LB)	22.485326 88.866074		80.00			Erosion	Kotal		1.70	14.09.23	
647	Ghatihara (LB)	North 24 Pgs/SDK-I	Nityaberia	Ghatihara (LB)	22.405546 88.880816		65.00			Slip	Depression		3.50	19.09.23	
648	Barokalagachi (RB)	North 24 Pgs/SDK-II	Atapur	Barokalagachi (RB)	22.312309 88.907752		70.00			Slip	Depression		15.60	19.09.23	
649	Barokalagachi (RB)	North 24 Pgs/SDK-II	Atapur	Barokalagachi (RB)	22.311553 88.908473		120.00			Erosion	Depression		2.49	20.09.23	
650	Bidyadhari (L.B)	North 24 Pgs/ sandeshkhali-I	Baunia Abad	Bidyadhari (L.B)	22.457502 88.810959		150.00			slip	Kotal		18.95	15.09.23	
651	Bidyadhari (L.B)	North 24 Pgs/ sandeshkhali-I	Baunia Abad	Bidyadhari (L.B)	22.457502 88.810959		150.00			Slip	Kotal		19.46	15.09.23	
652	Haroagang-Kultigang (L.B)	North 24 Pgs/ Minakhan	Behari	Haroagang-Kultigang (L.B)	22.530307 88.692303		40.00			Subsidence	Kotal		2.78	15.09.23	
653	Bidyadhari (L.B)	North 24 Pgs/Minakhan	Uchildah	Bidyadhari (L.B)	22.514503 88.738133		35.00			Subsidence	Kotal		2.49	15.09.23	
654	Metia (R.B)	North 24 Pgs/Minakhan	Mohanpur	Metia (R.B)	22.565239 88.767789		130.00			Subsidence	Kotal		3.01	16.09.23	
655	Jagannath (R.B)	North 24 Pgs/Haroa	Haldah	Jagannath (R.B)	22.57545 88.720632		200.00			Subsidence	Kotal		4.60	15.09.23	
656	Dansa	North 24 Pgs/ Hasnabad	Durgapur	Left Bank	22.493436 88.906106 22.498191 88.908215		40.00			Slip & Erosion	Incessant Rain & Depression		3.49	29.09.23	
657	Kantakhali	North 24 Pgs/ Hasnabad	Laskarnagar, Angnara	Left Bank & Right Bank	22.566683 88.915629 22.564297 88.912505		25.00			Slip & Erosion	Incessant Rain & Depression		6.50	29.09.23	
658	Dansa	North 24 Pgs/ Hingalganj	Rupmari	Left Bank	22.442511 88.907836		100.00			Erosion	Incessant Rain & Depression		11.90	29.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
659	Dansa	North 24 Pgs/ Sandeshkhali-II	Sandeshkhali	Left Bank	22.391132 88.917855 22.352414 88.904116		90.00			Damage of Embankment	Incessant Rain & Depression		2.75	29.09.23	
660	Sahebkhali	North 24 Pgs/ Hingalganj	Choto Sahebkhali	Left bank	22.403514 88.969162		95.00			Erosion	Kotal		2.72	04.10.23	
661	Goureswar	North 24 Pgs/ Hingalganj	Dharamberia	Right bank	22.481118 88.947039		30.00			Erosion	Kotal		0.96	04.10.23	
662	Goureswar	North 24 Pgs/ Hingalganj	Bastala	Right bank	22.401420 88.940059		30.00			Erosion	Kotal		1.71	04.10.23	
663	Goureswar	North 24 Pgs/ Hingalganj	Rupamari	Right bank	22.412573 88.939127		60.00			Erosion	Kotal		2.56	04.10.23	
664	Sahebkhali	North 24 Pgs/ Hingalganj	Ketarchak	Right bank	22.389652 88.964360		30.00			Erosion	Kotal		1.16	04.10.23	
665	Goureswar	North 24 Pgs/ Hingalganj	Rupamari	Right bank	22.420334 88.940195		80.00			Slip & Erosion	Kotal		6.13	04.10.23	
666	Goureswar	North 24 Pgs/ Hingalganj	Dakshin Bastala	Right bank	22.339015 88.937716		17.00			Erosion	Kotal		1.19	04.10.23	
667	Goureswar	North 24 Pgs/ Hingalganj	4no Kothabari	Left bank	22.404466 88.942908		13.00			Erosion	Kotal		0.95	04.10.23	
668	Sahebkhali	North 24 Pgs/ Hingalganj	Lebukhali	Right bank	22.367662 88.960117		90.00			Erosion	Kotal		2.81	04.10.23	
669	Kalindi	North 24 Pgs/ Hingalganj	Sahebkhali	Right bank	22.321830 88.987464		180.00			Erosion	Kotal		4.10	2.10.23	
670	Kalindi	North 24 Pgs/ Hingalganj	Charalkhali	Right bank	22.305197 89.015705		100.00			Erosion	Kotal		2.56	3.10.23	
671	Kalindi	North 24 Pgs/ Hingalganj	Charalkhali	Right bank	22.304282 89.016555		100.00			Erosion	Kotal		2.57	2.10.23	
672	Kalindi	North 24 Pgs/ Hingalganj	Charalkhali	Right bank	22.300187 89.019533		1 No			Sluice Repair	Kotal		3.12	2.10.23	
673	Kalindi	North 24 Pgs/ Hingalganj	Malekanghumti	Right bank	22.253483 89.010896		12.00			Other	Kotal		0.90	30.09.23	
674	Kalindi	North 24 Pgs/ Hingalganj	Malekanghumtij	Right bank	22.214217 89.049139		140.00			Erosion	Kotal		3.38	1.10.23	
675	Kalindi	North 24 Pgs/ Hingalganj	Khosbas	Right bank	22.415552 88.973704		120.00			Erosion	Kotal		6.43	1.10.23	
676	Sahebkhali	North 24 Pgs/ Hingalganj	Dulduli	Left Bank	22.36255 88.958932		17.00			Erosion	Incessant Rain & Depression		1.07	29.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
677	Gomoti	North 24 Pgs/ Hingalganj	Pergumti	Left Bank	22.214068 88.996535		18.00			Erosion	Incessant Rain & Depression		1.11	29.09.23	
678	Gomoti	North 24 Pgs/ Hingalganj	Pergumti	Left Bank	22.222874 88.999856		50.00			Slip & Erosion	Incessant Rain & Depression		2.00	29.09.23	
679	Sahebkhalii	North 24 Pgs/ Hingalganj	Dulduli	Left Bank	22.361727 88.957037		40.00			Slip & Erosion	Incessant Rain & Depression		4.35	29.09.23	
680	Raimongal	North 24 Pgs/ Hingalganj	Hemnagar	Left Bank	22.222674 88.968065				1 Sluice	1 No. Sluice Repair	Incessant Rain & Depression		2.35	29.09.23	
681	Raimongal	North 24 Pgs/ Hingalganj	Madhabkati	Left Bank	22.271271 88.95378		50.00			Slip & Erosion	Incessant Rain & Depression		12.00	29.09.23	
682	Raimongal	North 24 Pgs/ Hingalganj	Madhabkati	Left Bank	22.270394 88.953432		40.00			Slip & Erosion	Incessant Rain & Depression		10.03	29.09.23	
683	Ichamati (L/B)	North 24 Pgs/Baduria	Ward-11	Ichamati (L/B)	22.740660 88.812576		70.00			Slip	Kotal		3.50	04.10.23	
684	Ichamati (L/B)	North 24 Pgs/Baduria	Ward-11	Ichamati (L/B)	22.737065 88.828726		150.00			Slip	Kotal		8.00	04.10.23	
685	Ichamati (L/B)	North 24 Pgs/Baduria	Fatulapur	Ichamati (L/B)	22.711037 88.823058		60.00			Slip	Kotal		2.07	04.10.23	
686	Ichamati (R/B)	North 24 Pgs/Basirhat-I	Bagundi	Ichamati (R/B)	22.619391 88.931610		70.00			Slip	Kotal		6.99	04.10.23	
687	Ichamati (R/B)	North 24 Pgs/Taki Municipality	Ward No 3	Ichamati (R/B)	22.594433 88.936186		75.00			Subsidence	Kotal		1.98	30.09.23	
688	Ichamati (L/B)	North 24 Pgs/Basirhat-I	sangrampur	Ichamati (L/B)	22.665676 88.871047		60.00			Subsidence	Kotal		1.96	30.09.23	
689	Ichamati (R/B)	North 24 Pgs/ Taki Municipality	Ward No 3	Ichamati (R/B)	22.595835 88.938416		30.00			Slip	Kotal		1.38	04.10.23	
690	Barokalagachi (RB)	North 24 Pgs/SDK-II	Atapur	Barokalagachi (RB)	22.310319 88.909884		125.00			Erosion	Kotal		6.38	30.09.23	
691	Bali (LB)	North 24 Pgs/SDK-II	Joygopalpur	Bali (LB)	22.251212 88.895462		170.00			Erosion	Kotal		15.44	29.09.23	
692	Barokalagachi (RB)	North 24 Pgs/SDK-II	Atapur	Barokalagachi (RB)	22.305051 88.918923		210.00			Erosion	Kotal		5.04	30.09.23	
693	Rampur (LB)	North 24 Pgs/SDK-II	Bhanga tushkhali	Rampur (LB)	22.352834 88.879537		120.00			Erosion	Kotal		13.37	01.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
694	Tushkhali (LB)	North 24 Pgs/SDK-II	Baro Tushkhali	Tushkhali (LB)	22.344784 88.879361		120.00			Erosion	Kotal		5.64	01.10.23	
695	Tushkhali (LB)	North 24 Pgs/SDK-II	Baro Tushkhali	Tushkhali (LB)	22.336595 88.875513		75.00			Erosion	Kotal		5.14	01.10.23	
696	Tushkhali (LB)	North 24 Pgs/SDK-II	Baro Tushkhali	Tushkhali (LB)	22.352468 88.880437		100.00			Erosion	Kotal		6.17	01.10.23	
697	Tushkhali (LB)	North 24 Pgs/SDK-II	Baro Tushkhali	Tushkhali (LB)	22.336278 88.855552		100.00			Erosion	Kotal		7.21	30.09.23	
698	Hatakhalı (LB)	North 24 Pgs/SDK-II	Jelliakhali (West)	Hatakhalı (LB)	22.336183 88.842054		70.00			Erosion	Kotal		2.16	01.10.23	
699	Benti (RB)	North 24 Pgs/SDK-I	Dakshin Akhratala	Benti (RB)	22.500431 88.844021				1	Dakshin Akhratala Sluice	Kotal		2.55	02.10.23	
700	Ghatihara (LB)	North 24 Pgs/SDK-I	Nityaberia	Ghatihara (LB)	22.398198 88.880608		9.00			Other	Kotal		0.95	30.09.23	
701	Dansa (RB)	North 24 Pgs/SDK-I	Bholakhali	Dansa (RB)	22.375261 88.89532		80.00			Erosion	Kotal		3.09	29.09.23	
702	Dansa (RB)	North 24 Pgs/SDK-I	Bholakhali	Dansa (RB)	22.373062 88.89602		200.00			Erosion	Kotal		4.60	01.10.23	
703	Dansa (RB)	North 24 Pgs/SDK-I	Bholakhali	Dansa (RB)	22.389033 88.89966		115.00			Erosion	Kotal		4.18	01.10.23	
704	Dansa (RB)	North 24 Pgs/SDK-I	Bholakhali	Dansa (RB)	22.42578 88.925671		120.00			Erosion	Kotal		7.55	01.10.23	
705	Dansa (RB)	North 24 Pgs/SDK-I	Baro Sehara	Dansa (RB)	22.42578 88.925671		180.00			Erosion	Kotal		10.50	03.10.23	
706	Kantakhali (LB)	North 24 Pgs/Hasnabad	Ghosalati	Kantakhali (LB)	22.510767 88.858086		115.00			Erosion	Kotal		6.18	02.10.23	
707	Dansa (RB)	North 24 Pgs/Hasnabad	Ichapur	Dansa (RB)	22.496611 88.882268		65.00			Erosion	Kotal		2.05	01.10.23	
708	Ghatihara (LB)	North 24 Pgs/SDK-I	Bholakhali	Ghatihara (LB)	22.393087 88.879354		70.00			Slip	Kotal		3.16	03.10.23	
709	Dansa (RB)	North 24 Pgs/SDK-I	Baro Sehara	Dansa (RB)	22.411752 88.902905		14.00			Other	Kotal		1.09	03.10.23	
710	Barokalagachi (RB)	North 24 Pgs/SDK-II	Atapur	Barokalagachi (RB)	22.320545 88.902334		100.00			Erosion	Kotal		5.13	03.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
711	Barokalagachi (RB)	North 24 Pgs/SDK-II	Tushkhali	Barokalagachi (RB)	22.343605 88.891228		90.00			Erosion	Kotal		1.80	04.10.23	
712	Bidyadhari (LB)	North 24 Pgs/ Sandeshkhali-I	Baunia Abad	Bidyadhari (L.B)	22.472514 88.81191		150.00			Slip	Kotal		3.56	30.09.23	
713	Bidyadhari (L.B)	North 24 Pgs/ Sandeshkhali-I	Baunia Abad	Bidyadhari (L.B)	22.443209 88.805166		50.00			Slip	Kotal		4.86	30.09.23	
714	Bidyadhari (R.B & R.B)	North 24 Pgs/ Sandeshkhali-I	Baunia Abad	Bidyadhari (R.B & R.B))	22.454532, 88.810993 22.466579, 88.811993 22.463582, 88.800726 22.456962, 88.816395 22.432337, 88.819699		50.00			Slip	Kotal		3.45	30.09.23	
715	Bidyadhari (R.B)	North 24 Pgs/ Sandeshkhali-I	Baunia Abad	Bidyadhari (R.B)	22.458935, 88.811117 22.460624, 88.811377		200.00			Slip	Kotal		4.91	30.09.23	
716	Rampur (L.B)	North 24 Pgs/ Sandeshkhali-II	Dhamakhali	Rampur (L.B)	22.358590, 88.872068 22.361101, 88.868036		2.00			Other	Kotal		0.68	30.09.23	
717	Rampur (L.B)	North 24 Pgs/Sandeshkhali-II	Rampur	Rampur (L.B)	22.361966, 88.866958 22.362535, 88.865868 22.362226, 88.861911		3.00			Other	Kotal		0.97	30.09.23	
718	Bidyadhari (L.B)	North 24 Pgs/ Minakhan	Uchildah	Bidyadhari (L.B)	22.511591 88.734952		48.00			Slip	Kotal		4.35	30.09.23	
719	Bidyadhari (L.B)	North 24 Pgs/ Minakhan	Atpukur	Bidyadhari (L.B)	22.518734 88.727003		40.00			Subsidence	Kotal		1.07	01.10.23	
720	Metia (R.B)	North 24 Pgs/ Minakhan	Mohanpur	Metia (R.B)	22.566749 88.769246		200.00			Subsidence	Kotal		11.71	01.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
721	Metia (R.B)	North 24 Pgs/ Minakhan	Mohanpur	Metia (R.B)	22.534016 88.764462		80.00			Subsidence	Kotal		1.89	01.10.23	
722	Bidyadhari (R.B)	North 24 Pgs/ Minakhan	Bamanpukur	Bidyadhari (R.B)	22.522333 88.879573		40.00			Subsidence	Kotal		1.35	01.10.23	
723	Bidyadhari (R.B)	North 24 Pgs/ Minakhan	Balihati	Bidyadhari (R.B)	22.513288 88.739912		180.00			Slip	Kotal		7.22	01.10.23	
724	Kalindi	North 24 Pgs/ Hingalganj	Hingalganj	Right bank	22.463834 88.993280		100.00			Erosion	Kotal		2.67	15.11.23	
725	Kalindi	North 24 Pgs/ Hingalganj	Choto Sahebkhali	Right bank	22.404672 88.972894		50.00			Erosion	Kotal		1.78	16.10.23	
726	Goureswar	North 24 Pgs/ Hingalganj	Purba Khejurberia	Right bank	22.448217 88.943445		70.00			Erosion	Kotal		3.03	14.10.23	
727	Dansa	North 24 Pgs/ Sandeshkhali-II	Khulna	Left Bank	22.348864 88.905715		135.00			Subsidence Erosion	Incessant Rain & Depression		2.57	14.10.23	
728	Ichamati (R/B)	North 24 Pgs/Basirhat-I	Bagundi	Ichamati (R/B)	22.61799988. 932384		40.00			Slip	Kotal		3.96	15.10.23	
729	Ichamati (L/B)	North 24 Pgs/Baduria	Ward- 11	Ichamati (L/B)	22.737914 88.829683		80.00			Slip	Kotal		2.52	15.10.23	
730	Ichamati (L/B)	North 24 Pgs/ Basirhat-I	Chowrah	Ichamati (L/B)	22.69476188. 853846		210.00			Slip/Bank erosion	Kotal		7.25	15.10.23	
731	Ghatihara (LB) Benti (LB)	North 24 Pgs/ SDK-I	Nityaberia & Putimari	Ghatihara (LB) Benti (LB)	22.399324 88.881764 22.483458 88.863941		22.00			Other	Kotal		0.52	14.10.23 15.10.23	
732	Dansa (RB)	North 24 Pgs/ SDK-I	Bholakhali	Dansa (RB)	22.375609 88.895087		90.00			Erosion	Kotal		5.76	15.10.23	
733	Rampur (LB)	North 24 Pgs/SDK-II	Jelliakhali (East)	Rampur (LB)	22.362914, 88.848301 22.355436, 88.817138		57.00			Erosion	Kotal		1.65	15.10.23	
734	Rampur (LB)	North 24 Pgs/SDK-II	Bhanga tushkhali	Rampur (LB)	22.357727 88.86778		60.00			Erosion	Kotal		4.87	15.10.23	
735	Bani Boalia (LB)	North 24 Pgs/SDK-II	Jelliakhali (East)	Bani Boalia (LB)	22.36056 88.817073		26.00			Other	Kotal		0.78	16.10.23	
736	Kantakhali (LB)	North 24 Pgs/Hasnabad	Ghosalati	Kantakhali (LB)	22.501782 88.859176		50.00			Erosion	Kotal		1.19	15.10.23	
737	Rampur (L.B)	North 24 Pgs/ Sandeshkhali-II	Dhamakhali	Rampur (L.B)	22.35833 88.872373		60.00			slip	Kotal		1.19	15.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
738	Jagannath (R.B)	North 24 Pgs/ Haroa	Behari	Jagannath (R.B)	22.539995 88.694815		150.00			slip	Kotal		0.50	15.10.23	
739	Barokalagachi (RB)	North 24 Pgs/ SDK-II	Atapur	Barokalagachi (RB)	22.304748 88.921926		55.00			Erosion	Kotal		5.43	30.10.23	
740	Barokalagachi (RB)	North 24 Pgs/ SDK-II	Atapur	Barokalagachi (RB)	22.303558 88.92397			90.00		Erosion	Kotal			30.10.23	
741	Ichamati (L/B)	North 24 Pgs/ Basirhat-I	Itinda	Ichamati (L/B)	22.668573 88.91884			60.00		Slip	Kotal		4.38	28.10.23	
742	Raimongal	North 24 Pgs/ Hingalganj	Hemnagar	Left Bank	22.215655 88.978631		80.00			Slip & Erosion	Incessant Rain & Depression		5.04	05.07.23	
743	River Bidyadhari (Left Bank)	North 24 Pgs/ Deganga	G.P.- Champatala/ Vill-Chawkdhalat	Bidyadhari Left Embankment	22.626249 88.663718		225.00			Erosion	Kotal		18.89	08.09.23	
744	River Bidyadhari (Left Bank)	North 24 Pgs/ - Deganga	G.P.- Champatala/ Vill-Chawkdhalat	Bidyadhari Left Embankment	22.626477 88.663765		210.00			Erosion	Kotal		12.73	20.10.23	
745	River Bidyadhari (Left Bank)	North 24 Pgs/ Deganga	G.P.- Champatala/Vill-Champatala	Bidyadhari Left Embankment	22.625808 88.67793		140.00			Erosion	Kotal		8.62	18.10.23	
746	River Bidyadhari (Left Bank)	North 24 Pgs/ Deganga	GP- Champatala at U/S & D/S side of Gangdhulat Ferry Ghat/ Gangdhulat	Bidyadhari Left Embankment	22.626533 88.651669		140.00			Erosion	Kotal		11.07	10.10.23	
747	River Bidyadhari (Left Bank)	North 24 Pgs/ Deganga	Champatala /Downstream side of Vill- Gangdhulat	Bidyadhari Left Embankment	22.629545 88.6524		120.00			Erosion	Kotal		9.84	10.10.23	
748	River Bidyadhari (Right Bank)	North 24 Pgs/ Haroa	Baroj/Sonapukur Sankarpur	Bidyadhari Right Embankment	22.582662 88.676543		20.00			Erosion	Kotal		1.42	08.09.23	
749	River Hooghly (Left Bank)	North 24 Pgs/ Garulia Municipality	U/S of Shyamnagar South Jute Mill under Ward No.-08	Hooghly Left Embankment	22.827238 88.367321		90.00			Erosion	Kotal		19.05	08.07.23	
750	River Hooghly (Left Bank)	North 24 Pgs/ Garulia Municipality	D/S of Kangali Ghat under ward No.-08	Hooghly Left Embankment	22.827335 88.366415		60.00			Erosion	Kotal		12.92	08.07.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
751	River Hooghly (Left Bank)	North 24 Pgs/ North Barrackpore Municipality	At Char Paisar Ghat	Hooghly Left Embankment	22.77259 88.335702		170.00			Erosion	Kotal		15.80	10.10.23	
752	River Hooghly (Left Bank)	North 24 Pgs/ Bhatpara Municipality	At Atpur under Ward No.-21	Hooghly Left Embankment	22.845445 88.374773		150.00			Erosion	Kotal		9.54	18.10.23	
753	River Hooghly (Left Bank)	North 24 Pgs/ Garulia Municipality	Near Cable Ghat under ward No.-20	Hooghly Left Embankment	22.81898 88.357954		60.00			Erosion	Kotal		5.26	08.09.23	
754	River Hooghly (Left Bank)	North 24 Pgs/ Bhatpara Municipality	D/S of Sadhu Ghat under Ward No.-21	Hooghly Left Embankment	22.841166 88.376361		80.00			Erosion	Kotal		4.62	18.10.23	
755	River Hooghly (Left Bank)	North 24 Pgs/ Bhatpara Municipality	U/S of Sadhu Ghat under Ward No.-21	Hooghly Left Embankment	22.842867 88.376107		160.00			Erosion	Kotal		9.64	18.10.23	
756	Hooghly	South 24 Pgs/Kulpi	Dariratneswarpur	Hooghly left Embankment	22.13 88.21		150.00			Erosion	Kotal & easterly wind		128.37	28.07.23	
757	Diamond Harbour Creek Khal	South 24 Pgs/Diamond Harbour Municipality	Ward No.14	Khal Left Embankment	22.1956 88.1839		40.00			Subsidence	Kotal		7.80	06.07.23	
758	Hooghly	South 24 Pgs/Kulpi	Dariratneswarpur	Hooghly left Embankment	22.1719 88.1817		70.00			Subsidence	Kotal & easterly wind		8.71	28.07.23	
759	Hooghly	South 24 Pgs/Kulpi	Dariratneswarpur	Hooghly left Embankment	22.13 88.21		25.00			Erosion	Kotal & easterly wind		19.80	28.07.23	
760	Hooghly	South 24 Pgs/Kulpi	Dariratneswarpur	Hooghly left Embankment	22.18 88.2		25.00			Erosion	Kotal & easterly wind		19.97	28.07.23	
761	Hooghly	South 24 Pgs/Kulpi	Ramkishore	Hooghly left Embankment	22.2 88.18		130.00			Subsidence	Kotal		18.03	01.08.23	
762	Hooghly	South 24 Pgs/Diamond Harbour-II	Singhalganj	Hooghly left Embankment	22.21 88.13		35.00			Subsidence	Kotal		4.88	31.08.23	
763	Hooghly	South 24 Pgs/Kulpi	Roytala	Hooghly left Embankment	22.17 88.2					Sluice	Kotal		1.51	31.08.23	
764	Hooghly	South 24 Pgs/Kulpi	Roytala	Hooghly left Embankment	22.17 88.2		125.00			Subsidence	Kotal		10.56	31.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
765	Hooghly	South 24 Pgs/Diamond Harbour-I	Sultanpur	Hooghly left Embankment	22.167946 88.202166		90.00			Subsidence	Kotal		12.18	01.08.23	
766	Hooghly	South 24 Pgs/Diamond Harbour-II	Patra	Hooghly left Embankment	22.22 88.22					Sluice	Kotal		1.14	31.08.23	
767	Hooghly	South 24 Pgs/Kulpi	Jhantur Bhol, Tentulia, Kansarir chak	Hooghly left Embankment	21.94 88.28					Sluice	Kotal		2.19	31.08.23	
768	Diamond Harbour Creek Khal	South 24 Pgs/Diamond Harbour Municipality	Ward No.1	Kalisankarpur Khal	22.19 88.19					Sluice	Kotal		3.00	31.08.23	
769	Hooghly	South 24 Pgs/Diamond Harbour-II	Raichak	Hooghly left Embankment	22.21 88.12					Sluice	Kotal		17.07	30.9.23	
770	Hooghly	South 24 Pgs/Diamond Harbour-II	Noorpur	Hooghly left Embankment	22.22 88.07		120.00			Subsidence	Kotal		10.60	3.10.23	
771	Hooghly	South 24 Pgs/Kulpi	Dariratneswarpur	Hooghly left Embankment	22.13 88.21		50.00			Subsidence	Kotal		6.65	31.08.23	
772	Diamond Harbour Creek Khal	South 24 Pgs/Diamond Harbour Municipality	Ward No.14	Diamond Harbour Creek Khal Left Embankment	22.2 88.18		25.00			Subsidence	Kotal		9.16	30.9.23	
773	Diamond Harbour Creek Khal	South 24 Pgs/ Diamond Harbour Municipality	Ward No.14	Khal Left Embankment	22.2 88.18		60.00			Erosion	Kotal		6.04	16.10.23	
774	Hooghly river left embankment	South 24 Pgs/ Budge Budghe-I/ Budge Budge Municipality	Ward No-16/Bade Kalinagar/Balughat Ghosh bari	Ch.6.95 km	22.490778 88.192694		78.00			Slip & subsidence with toe	Heavy rainfall, excessive discharge and high tidal action of river water.		9.50	03.08.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
775	Hooghly river left embankment	South 24 Pgs/ Budge Budghe-I/ Pujali municipality	Kalipur 1 no ward/ Jelepara	Ch.11.31km	22.47431 88.156357		50.00			Slip & subsidence with toe	Heavy rainfall ,excessive discharge and high tidal action of river water.		5.00	03.08.23	
776	Hooghly river left embankment	South 24 Pgs/ Budge Budghe-II	Roypur/ Sk.para, U/S side of Roypur Jetty Ghat	Ch22.10 km	22.4066306 88.145332		45.00			Slip & subsidence	Slip and subsidence of bank with toe due to heavy rainfall ,excessive discharge and high tidal action of river water.		18.00	28.09.23	
777	Hooghly river left embankment	South 24 Pgs/ Budge Budghe-II	Roypur Hut para, D/S side of Roypur Jetty Ghat	Ch.22.05 km	22.406715 88.145465		45.00			Slip & subsidence	heavy rainfall, excessive discharge & high tidal action of river water.		13.00	28.09.23	
778	Hooghly river left embankment	South 24 Pgs/ Budge Budghe-II	Roypur Sk.para, U/S side of Roypur Jetty Ghat/ Roypur G.P/ Dk.Roypur	Ch.22.06 km	22.406378 88.145195		25.00			Erosion & Scour hole at toe due	Heavy rainfall, excessive discharge and high tidal action of river water.		19.00	28.09.23	
779	Hooghly river left embankment	South 24 Pgs/ Budge Budghe-II	Roypur Hut para, D/S side of Roypur Jetty Ghat	Ch.22.035 km	22.406183 88.145362		25.00			Erosion & Scour hole at toe due	Heavy rainfall, excessive discharge and high tidal action of river water.		19.00	28.09.23	
<b>Bidyadharai Drainage Division</b>															
1	NonaGong (LB)	North 24 Pgs/ Ashokenagar-Kalyangarh Municipality	Ward no. - 5	in between 39.40 km to 39.90 km	22.8638450, 88.6211970		400.00			Sudden subsidence of river bank	Incessant Rain		15.75	23.09.23	
2	NonaGong (LB)	North 24 Pgs/ Ashokenagar-Kalyangarh Municipality	Ward no. - 5	in between 39.95 km to 40.55km	22.863960, 88.6214620		415.00			Sudden subsidence of river bank	Incessant Rain		16.35	25.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3	NonaGong (LB & RB)	North 24 Pgs/ Ashokenagar- Kalyangarh Municipality	Ward no. - 6	in between 38.75 km to 39.3 5km	22.8551860, 88.613690		200.00			Sudden subsidence of river bank	Incessant Rain			26.09.23	
<b>Suburban Drainage Division</b>															
1	Kantakhali Main Khal, LB	South 24 Pgs/ Falta	Mallickpur	Ch. 21.00 Km	22.3287, 88.1204		65.00			Slip	Incessant Rain		9.82	29.08.23	
<b>Jalpaiguri Irrigation Division</b>															
1	Karala (RB)	Jalpaiguri / Jalpaiguri	Ward No. 25	Right bank of Karala at Pareshmitra Colony	26.540611, 88.713305					Spilling/ Overtopping	Incessant Rain	0.10		14.07.23	
2	Teesta (RB)	Jalpaiguri / SADAR	Kharia /Bibekananda pally	Bibekanandapal- ly Embankment	26.548988 , 88.742426		150.00			Raincut	Incessant Rain & lake outburst at Sikkim		2.90	04.10.23	
3	Teesta (RB)	Jalpaiguri / SADAR	Paharpur /Balapara	Bibekanandapal- ly Embankment	26.562222 , 88.750833		15.00			Slip & Erosion	Incessant Rain & lake outburst at Sikkim		1.24	04.10.23	
4	Teesta (RB)	Jalpaiguri / SADAR	Baropatia Natunbach /Nathuachar Vililage	Right bank of Teesta at Nathuachar	26.670027 , 88.624656	60.00				Breach	Incessant Rain & lake outburst at Sikkim	4.39	5.99	04.10.23	Palliative work taken up
5	Teesta (RB)	Jalpaiguri / SADAR	Baropatia Natunbach /Dhupgurybasy	Dhupguribasti Embankment	26.736574 , 88.587605		150.00			Rain cut	Incessant Rain & lake outburst at Sikkim		2.99	04.10.23	
6	Teesta (RB)	Jalpaiguri / Rajganj	Mantadari /Nimtala Basti	Milanpally Bank Protection	26.730956 , 88.594756		120.00	35.00		Rain cut & Erosion	Incessant Rain & lake outburst at Sikkim		3.99	04.10.23	
7	Teesta (RB)	Jalpaiguri / Rajganj	Mantadari /Nimtala Basti	Milanpally Bank Protection	26.730166 , 88.688169		150.00	150.00		Erosion	Incessant Rain		6.33	15.07.23	
8	Teesta (RB)	Jalpaiguri / Rajganj	Mantadari /Milanpally	Milanpally Embankment	26.723330 , 88.605797		1450.00	1450.00	30	Erosion, boulder filled wire crated Trapezoidal Deflector	Incessant Rain		177.39	10.04.23	Permanent restoration work under progress.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
9	Teesta (RB)	Jalpaiguri / Rajganj	Mantadari /Biren basty	Birenbasti Embankment	26.710736, 88.612641		1400.00	1400.00	40	Erosion, damage to protection of all deflector	Incessant Rain		107.56	10.04.23	Permanent restoration work under progress.
10	KARALA (LB)	Jalpaiguri / SADAR	Manadalghat /Gomasta Para	New Segregating Embankment	26.4607, 88.7522			131.00		RainCut and Slip	Incessant Rain		4.06	15.07.23	Permanent restoration work under progress.
11	Teesta (RB)	Jalpaiguri / SADAR	Kharia /Saradapally	Segregating embankment at Spur 4	26.506527, 88.736738		60.00		1.0	RainCut	Incessant Rain & lake outburst at Sikkim		1.94	04.10.23	
12	Teesta (RB)	Jalpaiguri / SADAR	Kharia /Sukanta Nagar	Town Protective Embankment	26.53859, 88.737269		100.00			RainCut	Incessant Rain & lake outburst at Sikkim		2.91	04.10.23	
13	Dhardhara (Both Bank)	Jalpaiguri /Jalpaiguri	Ward No -2	Both Bank of Dhardhara	26.541666, 88.728055		67.00			Erosion	Incessant Rain		4.26	15.07.23	
14	Teesta (L/B)	CoochBehar/ Mekhliganj	Kuchlibari	Kuchlibari Embankment	26.2694320, 88.969650		4000.00			Slip/ Subsidence/	Incessant Rain		5.00	14.07.23	Restoration partially done
15	Teesta (L/B)	CoochBehar/ Mekhliganj	Monglibari	River Bank	26.3498810, 88.937280		200.00			Erosion	Incessant Rain		1.50	14.07.2024	Paliative work done
16	Jarda (R/B)	Jalpaiguri / Maynaguri	Word No-4	B.P. Work	26.5672510, 88.8216720		20.00			Slip/ Subsidence/	Incessant Rain		1.50	12.07.23	Paliative work done
17	Jaldhaka (R/B)	Jalpaiguri / Maynaguri	Betgara	Spur & Dharaikuri Embankment	26.6238680, 88.822430		85.00			Erosion	Incessant Rain		1.93	13.07.23	
18	Teesta (L/B)	Jalpaiguri / Maynaguri	Dharampur	105 Spur of Bakali Embankment	26.4905930, 88.7594970		100.00		1	Erosion	Incessant Rain & lake outburst		21.00	05.10.23	Paliative work done
19	Teesta (L/B)	Jalpaiguri / Maynaguri	Dharampur	170 Spur of Bakali Embankment	26.468020, 88.7795790		35.00		1	Erosion	Incessant Rain & lake outburst		25.00	05.10.23	Paliative work done
20	Teesta (L/B)	Jalpaiguri / Maynaguri	Dharampur	185 Spur of Bakali Embankment	26.4680220, 88.7795800		25.00		1	Erosion	Incessant Rain & lake outburst		25.00	05.10.23	Paliative work done
21	Teesta (L/B)	Jalpaiguri / Maynaguri	Dharampur	200 Spur of Bakali Embankment	26.4584790, 88.7826460		35.00		1	Erosion	Incessant Rain & lake outburst		25.00	05.10.23	Paliative work done

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
22	Teesta (L/B)	Jalpaiguri / Maynaguri	Dharampur	226 Spur of Bakali Embankment	26.4571290, 88.7980380		45.00		1	Erosion	Incessant Rain & lake outburst		25.00	05.10.23	Paliative work done
23	Jaldhaka (L/B)	Jalpaiguri / Nagrakata	Sulkapara	Bamandanga	26.772256, 88.877234		300.00			Rain Cut & erosion	Incessant Rain	2.53	2.52	29.09.23	Spilling
24	Gilandi (L/B)	Jalpaiguri / Dhupguri	Uttar Khuttimari/ Beltoli	L/B of river Gilandi	26.693473, 88.942177		120.00			Bank erosion	Incessant Rain	0.01	4.50	13.07.23	Spilling
25	Kuji Diana (R/B)	Jalpaiguri / Nagrakata	Sulkapara / Ghasmari Basti	Ghasmari embankment	26.852034, 88.958072			60.00		Protective structures	Incessant Rain	1.99	4.15	28.07.23	Spilling
26	Hatinala (L/B)	Jalpaiguri / Banarhat	Binnaguri	L/B of Hatinala	26.7507358, 89.0451789			10.00		Protective structures	Incessant Rain	0.14	0.95	13.07.23	Spilling
27	Hatinala (L/B)	Jalpaiguri / Banarhat	Banarhat	L/B of Hatinala	26.789231, 89.029475			150.00		Protective structures	Incessant Rain	0.14	2.15	28.08.23	Spilling
28	Diana (R/B)	Jalpaiguri / Nagrakata	Angravasa-I	Khairkata Embankment	26.824303, 88.938203	28.00				Breach of embankment	Incessant Rain	14.40	3.00	13.07.23	
29	Diana (L/B)	Jalpaiguri / Nagrakata	Angravasa-II	Majiali Embankment	26.716011, 88.884138			130.00		Protective structures	Incessant Rain	1.22	3.50	17.07.23	Spilling
30	Reti-Sukriti (R/B)	Jalpaiguri / Banarhat	Chamurchi Forest Line	Reti-Sukriti Embankment	26.868705, 89.091641		180.00			Slip of earthen slope & damage of protective structure	Incessant Rain	1.53	7.35	24.07.23	Spilling
31	Reti-Sukriti (R/B)	Jalpaiguri / Banarhat	Chamurchi / Kathalguri T.E.	Reti-Sukriti Embankment	26.852535, 89.090743		190.00			Slip of earthen slope & damage of protective structure	Incessant Rain	4.36	7.25	29.08.23	Spilling
32	Reti-Sukriti (R/B)	Jalpaiguri / Banarhat	Banarhat-I/ Karbala T.E.	Reti-Sukriti Embankment	26.796593, 89.093794		70.00			Slip of earthen slope & damage of protective structure	Incessant Rain	18.00	9.00	24.07.23	Spilling
33	Rangati (R/B)	Jalpaiguri / Banarhat	Salbari-I /Saiba Para	R/B of river Rangati	26.745501, 88.947520		150.00			Erosion	Incessant Rain	0.12	8.00	15.07.23	Spilling
34	Jaldhaka (L/B)	Jalpaiguri / Nagrakata	Sulkapara / Tandu T.E.	Tandu bank protection work	26.786165, 88.884635			90.00		protective structures	Incessant Rain	1.00	4.98	26.09.23	Spilling

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
35	Mal (L/B)	Jalpaiguri/ Mal	Bidhannagar	Village : Jahajbasty On the Left Bank of river Mal	26.8911, 88.7488			150.00		Rain cut and Slip	Incessasnt Rain and High Discharge		4.85	06/10/23 07/10/23	
36	Teesta (L/B)	Jalpaiguri/ Kranti	Changmari	Spur No.3 & 4 of New C.P. Embk.	26.6627, 88.6758			250.00	2	Rain cut and Slip	Incessant Rain & course of river shifted towards LB hitting the nose of spur		3.39	10/10/23 11/10/23	
37	Chel (L/B)	Jalpaiguri/ Mal	Oodlabari / Khudirampally	On the Left Bank of river Chel	26.86, 88.63		220.00			Erosion and Raincut	Incessant Rainfall		2.91	23/09/23 02/10/23	
38	Chel (R/B)	Jalpaiguri/ Mal	Kumlai / Mechpara	On the Right Bank of river Chel	26.7875, 88.6980		150.00			Erosion and Raincut	Incessant Rainfall		18.24	05/07/23 11/07/23	Permanent Restoration work started
39	Leesh (L/B)	Jalpaiguri/ Mal	Bagrakote	Bagrakote Embankment	26.8911, 88.5644				350.00	RainCut and Slip	Incessant Rainfall & High Discharge		10.42	01/07/23 14/07/23	
40	Laity (L/B)	Jalpaiguri/ Mal	Oodlabari	Bank Protection Work	26.8916, 88.6261			150.00		RainCut and Slip	Incessant Rainfall & High Discharge		3.40	11/08/23 12/08/23 27/08/23	
41	Khulnai (L/B)	Jalpaiguri/ Kranti	Rajadanga / Padmatari	On the Left Bank of river Khulnai	26.7366, 88.6591		300.00			Erosion	Incessant Rainfall & High Discharge			14.07.23	
42	Juranti (R/B)	Jalpaiguri/ Mal	Bagrakote	Buddist Burning Ghat	26.8846, 88.5768		50.00			Erosion	Incessant Rainfall & High Discharge		4.32	14.07.23	
43	Teesta (R/B)	Jalpaiguri/ Rajganj	Dabgram Fulbari 1 No	Vill : Chumukdanga B.P. Work	26.8433, 88.4852			150.00		Rain cut and Slip	Incessant Rainfall & High Discharge		8.31	04/10/23, 05/10/23, 06/10/23	
44	Teesta (R/B)	Jalpaiguri/ Rajganj	Dabgram Fulbari 1 No	Vill : Laltong bano basty B.P. Work	26.8198, 88.5207			430.00		RainCut and Slip	Incessant Rainfall & High Discharge		8.97	04/10/23, 05/10/23, 06/10/23	Permanent Restoration work started

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
45	Teesta (L/B)	Jalpaiguri/ Kranti	Changmari	Sidhabari Changmari Embankment	26.81, 88.66			30.00		RainCut and Slip	Incessant Rainfall & High Discharge	.	2.89	04/10/23, 05/10/23, 06/10/24	
46	Teesta (L/B)	Jalpaiguri/ Kranti	Changmari	Dakshin Changmari - Premganj Embk.	26.87, 88.66			450.00		RainCut and Slip	Incessant Rainfall & High Discharge	.	7.27	04/10/23, 05/10/23, 06/10/25	
47	Teesta (R/B)	CoochBehar/ Haldibari	Baxiganj	Bibiganj-Jharsingheswar embankment	26.334651, 88.85198		80.00			Rain cut	Incessant Rain		2.50	04.10.23	Palliative work done
48	Teesta (R/B)	CoochBehar/ Haldibari	Per Mekhliganj	Spur No-7	26.302628, 88.905190			50.00	1	Erosion	Incessant Rain		3.79	04.10.23	Palliative work done
49	Jamuna (R/B)	Jalpaiguri/ Jalpaiguri	Kharija Berubari-II	Jamuna (R/B)	26.392178, 88.717557		24.00			Subsidence	Incessant Rain		1.99	24.09.23	Palliative work done
50	Jamuna (R/B)	Jalpaiguri/ Sadar	Nagar Berubari	Jamuna (R/B)	26.354156, 88.746835		35.00			Rain cut	Incessant Rain		0.93	10.07.23	Palliative work done
51	Jamuna (R/B)	Jalpaiguri/ Sadar	Nagar Berubari	Jamuna (R/B)	26.379882, 88.710774		15.00			Breach	Incessant Rain		1.75	10.07.23	Palliative work done
52	Teesta (R/B)	Jalpaiguri/ Sadar	Nandanpur-Boalmari	Spur No. 5 of Mondalghat-Bibiganj	26.3984603, 88.8066953			35.00		Erosion	Incessant Rain		4.14	04.10.23	Palliative work done
53	Teesta (L/B)	Jalpaiguri/ Sadar	Nandanpur-Boalmari	Mondalghat-Bibiganj	26.409111, 88.789528		75.00			Rain cut	Incessant Rain-		1.50	19.06.23	Palliative work done
54	Jaldhaka	Jalpaiguri/ Sadar	Jharaltagram I	Gadhayerkuthi Embankment	26.660250, 88.891806		60.00			Rain cut	Incessant Rain		2.00	10.07.23	Palliative work done
55	Jaldhaka	Jalpaiguri/ Sadar	Jharaltagram I	Mondalghat-Bibiganj	26.651512, 88.893094		75.00			Rain cut	Incessant Rain		3.20	14.07.23	Palliative work done
56	Connecting channel of Korotowa river	Jalpaiguri/ Rajganj	Hudugach	Both bank	26.539891, 88.490833				1	Erosion of HP culvert	Incessant Rain		25.00	14.07.23	Palliative work done
<b>Siliguri Irrigation Division</b>															
1	LB of Mahananda	Darjeeling/Siliguri Municipality	Ward no-10	LB 450 mtr	26.4312, 88.2516			450.00		Existing Protection works	Incessant Rain		7.27	24.06.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2	LB of Balason	Darjeeling/Matigara	Matigara-II	LB 250 mtr	26.4347, 88.2244			250.00		Existing Protection works	Incessant Rain		8.91	24.06.23	
3	LB of Panchanoi	Darjeeling/ Siliguri Municipality	Ward no-46	LB 135 mtr	26.44, 88.24			135.00		Existing Protection works	Incessant Rain		7.95	03.08.23	
4	LB of Panchanoi	Darjeeling/ Matigara	Dagapur	LB 160 mtr	26.44, 88.23			160.00		Existing Protection works	Incessant Rain		7.7	03.08.23	
5	RB of Rakti	Darjeeling/ Matigara	Patharghata	RB 125 mtr	26.46, 88.19			125.00		Existing Protection works	Incessant Rain		6.76	03.08.23	
6	LB of Rohini	Darjeeling/ Matigara	Patharghata	LB 125 mtr	26.45, 88.2			125.00		Existing Protection works	Incessant Rain		4.21	03.08.23	
7	RB of Mahananda	Darjeeling/ Phansidewa	Jalas Nijamtala	RB 200 mtr	26.38, 88.23			200.00		Existing Protection works	Incessant Rain		4.56	18.08.23	
8	LB of Singhijhora	Jalpaiguri/ Rajganj	Betgara	LB 125 mtr	26.47, 88.26			125.00		Existing Protection works	Incessant Rain		6.19	18.08.23	
9	LB of Mahananda	Jalpaiguri/ Rajganj	Salugara	LB 135 mtr	26.46, 88.26			135.00		Existing Protection works	Incessant Rain		6.39	18.08.23	
10	RB of Panchanoi	Darjeeling/ Matigara	Salbari	RB 125 mtr	26.458, 88.3626			125.00		Existing Protection works	Incessant Rain		4.53	24.08.23	
11	LB of Taipu	Darjeeling/ Phansidewa	Hetmuri	LB 23 mtr	26.6884, 88.2886			23.00		Existing Protection works	Incessant Rain		2.78	24.08.23	
12	RB of Panchanoi	Darjeeling/ Siliguri Municipality	Ward no-47	LB 25 mtr	26.7244, 88.4078			25.00		Existing Protection works	Incessant Rain		3.41	24.09.23	
13	LB of Singhijhora	Jalpaiguri/ Rajganj	Toribari	LB 160 mtr	26.7886, 88.4389			160.00		Existing Protection works	Incessant Rain		3.07	04.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
14	LB of Panchanoi	Darjeeling/ Matigara	Dagapur	LB 95 mtr	26.4514, 88.3989			95.00		Existing Protection works	Incessant Rain		6.14	04.10.23	
<b>Executive Engineer-I, Damodar Canal Division</b>															
1	Damodar	Bankura	Radha Mahonpur/ Nityanandapur & Dihipara/ Kenetimana	Right Bank	23.364356, 87.453056			800.00	16	Structure	Incessant Rain/ high Dam release	9.26	101.00	02.10.23	Spilling & water logging
2	Damodar	Bankura	Somsar/Vasna	Right Bank	23.228972, 87.648528		300.00			Slip and erosion of Right bank and formation of Scour hole	Flood and high Dam release		35.00	03.10.23	
3	Damodar	Purba Bardhaman	Lodna/Beldanga, Metedanga	Right Bank	23.22775, 87.660278		1000.00			Slip and erosion of Right bank and formation of Scour hole	Flood and high Dam release		150.00	03.10.23	
4	Damodar	Purba Bardhaman	Lodna/Banamalipur	Right Bank	23.230111, 87.671083			35.00		Subsidence and erosion of existing boulder protection work	Flood and high Dam release		15.00	03.10.23	
5	Damodar	Purba Bardhaman	Sasanga/Napara	Right Bank	23.239306, 87.771583				6	Toe erosion of existing boulder bed bar	Flood and high Dam release		14.00	03.10.23	
6	Damodar Lft Bank	Purba Bardhaman/ Khandokosh	Gaitanpur	Ch. 26.20 K.M	23.24, 87.791111		200.00			Subsidence	Due to high discharge of water		20.00	10.10.23	
7	Damodar Lft Bank	Purba Bardhaman/ Galsi-I	Simasimi	Ch. 2.5 km spur (10 nos)	23.274508, 87.588112					Protection	Due to high discharge of water		35.00	10.10.23	
8	Damodar Lft Bank	Purba Bardhaman/ Galsi-II	Jujuty	Ch. 19.40 km	23.254402, 87.725814		400.00			Subsidence	Due to high discharge of water		200.00	10.10.23	
9	Damodar Lft Bank	Purba Bardhaman/ Galsi-II	Konarpur	Ch. 22.80 km	23.248283, 87.759472		370.00			Subsidence	Due to high discharge of water		350.00	10.10.23	
<b>Executive Engineer-I, Damodar Canal Division</b>															

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Nimdaha / Joggeswarpur	Right Bank	23.528525, 88.277689		280.00	280.00		Slip & Erosion	Bed scour		51.57	02.01.23	
2	River Bhagirathi (L/B)	Purba Bardhaman / Kalna-I	Dhatrigram / Gramkalna	Left Bank	23.268067, 88.335303		75.00	75.00		Slip & Erosion	Bed scour		11.80	04.03.23	
3	River Bhagirathi (L/B)	Purba Bardhaman / Katwa-II	Agradwip / Kabirajpur	Left Bank	23.611944, 88.230833		45.00			Slip & Erosion	Bed scour		6.42	08.06.23	
4	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Nimdaha / Chhatni	Right Bank	23.527686, 88.272856		45.00	45.00		Slip & Erosion	Bed scour		7.12	18.05.23	
5	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Mertala / Kuturia	Right Bank	23.478056, 88.3475		40.00			Subsidence	Bed scour		6.25	25.06.23	
6	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-I	Nasaratpur / Nasaratpur	Right Bank	23.335153, 88.330962		12.00	12.00		Rain cut	Incessant Rain		0.91	21.08.23	
7	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-I	Nasaratpur / Nasaratpur	Right Bank	23.336141, 88.330074		24.00	24.00		Rain cut	Incessant Rain		0.85	21.08.23	
8	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-I	Nasaratpur / Nasaratpur	Right Bank	23.336987, 88.329725		23.00	23.00		Rain cut	Incessant Rain		0.82	21.08.23	
9	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-I	Nasaratpur / Nasaratpur	Right Bank	23.337462, 88.329434		41.00	41.00		Rain cut	Incessant Rain		0.78	21.08.23	
10	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Patuli / Narayanpur	Right Bank	23.551903, 88.265211		15.00	15.00		Slip & Erosion	Bed scour		0.97	06.10.23	
11	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Patuli / Narayanpur	Right Bank	23.550206, 88.263908		15.00	15.00		Slip & Erosion	Bed scour		0.97	06.10.23	
12	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Majida / Tamaghata	Right Bank	23.541171, 88.335923		12.00			Slip & Erosion	Bed scour		0.93	05.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
13	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Majida / Tamaghata	Right Bank	23.543597, 88.344344		12.00			Slip & Erosion	Bed scour		0.97	05.10.23	
14	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Majida / Tamaghata	Right Bank	23.541939, 88.340853		11.00			Slip & Erosion	Bed scour		0.93	04.10.23	
15	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Majida / Tamaghata	Right Bank	23.541079, 88.335834		9.00	9.00		Rain cut	Incessant Rain		0.94	01.10.23	
16	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Patuli / Nowapara	Right Bank	23.532532, 88.284031		15.00			Slip & Erosion	Bed scour		0.97	01.10.23	
17	River Bhagirathi (R/B)	Purba Bardhaman / Purbasthali-II	Nimdaha / Chhatni	Right Bank	23.527686, 88.272856		9.00	9.00		Slip & Erosion	Bed scour		0.88	18.05.23	
18	Bhagirathi RB	Purba-Bardhaman/Katwa-II	Raghunathpur	2550 m d/s of Matlary Ghat	23.613127, 88.203836	150.00				Slip	High water level of river	0.36	30.00	12.10.23	
<b>Executive Engineer-I, Lower Damodar Irrigation Division</b>															
1	Darakeswar/LB	Hooghly/ Khanakul-II	Dhannyaghori/ kaknan / kaknan	Left Ex-Zamindary Embankment	22.675442, 87.778278		150.00			Erosion	Incessant Rain		50.00	04.10.23	
2	Rupnarayan/LB	Hooghly/ Khanakul-II	Dhannyaghori/ Ghoradaha Bhoumikpara/ Ghoradaha	Left Ex-Zamindary Embankment	22.644005, 87.801180		80.00			Subsidence	Incessant Rain		40.00	04.10.23	
3	Rupnarayan/LB	Hooghly/ Khanakul-II	Marokhana/Marokhana / Pansuli	Left Bank	22.599908, 87.850597	130.00				Subsidence	Incessant Rain	7.00	35.00	04.10.23	
4	Darakeswar/LB	Hooghly/ Khanakul-I	Thakuranichak/ Kalur bundh/ Purba thakuranichak	Left Ex-ZamindarY Embankment	22.691392, 87.776455		120.00			Erosion	Incessant Rain		30.00	04.10.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5	Lower Harinakhalii River/ RB	Hooghly/ Khanakul-I	Arunda	Lower Harinakhalii Right Bank	22.702573, 87.900284					Inundation due to overtopping	Incessant rain	13.26		04.10.23	
<b>Damodar Head Works Division</b>															
1	Ajoy (Right)	Purba Bardhaman/ Mongalkote	Kathal Bagan	10.80 to 11.50 KM	23.588158, 87.731339					Rain Cuts, Slips	Incessant Rain		6.5	05.10.23	
2	Ajoy (Right)	Purba Bardhaman/ Mongalkote	Fatepur	12.50 to 13.00 Km	23.589619, 87.753425					Rain Cuts, Slips	Incessant Rain		2.65	05.10.23	
3	Ajoy (Right)	Purba Bardhaman/ Ausgram II	Santla	6.60 to 7.00 Km	23.615104, 87.713838					Slips	Incessant Rain		3.6	05.10.23	
4	Ajoy (Right)	Purba Bardhaman/ Mongalkote	Majhkhara	15.180 to 16.850 Km	23.579221, 87.579998					Ghoges	Incessant Rain		3.5	05.10.23	
5	Ajoy (Right)	Purba Bardhaman/ Ausgram II	Katalbagan	10.10 to 10.60 Km	23.595111, 87.728417					Ghoges & Slips	Incessant Rain		7.00	21.08.23	
6	Ajoy (Right)	Purba Bardhaman/ Ausgram II	Keshermath	4.40 to 4.80 Km	23.60719, 87.661679					Ghoges,Slips	Incessant Rain		2.55	05.10.23	
7	Ajoy (Right)	Purba Bardhaman/ Ausgram II	Keshermath	5.10to 5.50Km	23.609425, 87.700636					Ghoges,Slips	Incessant Rain		2.62	05.10.23	
8	Kunur	Purba Bardhaman/ Bhatar	Beroa		23.497069, 87.774053					Erosion	Incessant Rain		4.81	06.10.23	
9	Ajoy (Right)	Purba Bardhaman/ Ausgram II	Santla	8.09 to 8.29 Km	23.615114, 87.713858					Erosion	Incessant Rain		27.00	08.09.23	
10	Ajoy (Right)	Purba Bardhaman/ Ausgram II	Budra	5.90 to 6.2 Km	23.615104, 87.713819					Rain Cuts, Slips	Incessant Rain		9.00	05.10.23	
11	Ajay	Pashim Bardhaman/ Kanksa	Bidbihar	Ajay Right Embankment (27 no.)	23.689217, 87.421555							2.72		08.09.23	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
12	Ajay	Purba Bardhaman/ Aushgram-2	Ramnnagar	Ajay Right Embankment (29 no.)	23.605333, 87.774169							8.59		08.09.23	
<b>Asansol Irrigation Division</b>															
1	Ajoy	Paschim Bardhaman/ Paschim Bardhaman	Baidyanathpur	Right Bank	23.719633 87.313335		40.00			Erosion	Huge flood release from Sikatiya Barrage.		4.25	05.10.23	
2	Ajoy	Paschim Bardhaman/ Paschim Bardhaman	Shyamla	Right Bank	23.742275, 87.240760		35.00			Erosion	Huge flood release from Sikatiya Barrage.		4.17	05.10.23	
3	Ajoy	Paschim Bardhaman/ Paschim Bardhaman	Baidyanathpur	Right Bank	23.716339, 87.328166		35.00			Erosion	Huge flood release from Sikatiya Barrage.		4.01	05.10.23	
4	Ajoy	Paschim Bardhaman/ Paschim Bardhaman	Hijolgora	Right Bank	23.762586, 87.124440		30.00			Erosion	Huge flood release from Sikatiya Barrage.		4.08	05.10.23	
<b>Teesta Barrage Division</b>															
1	Teesta (RB)	Jalpaiguri/ Rajganj	Mantadari	Right side Guide Bundh of Teesta Barrage	26.7565, 88.5776	280.00			1	Breach	Flash flood caused due to Lhonak lake outburst in Sikkim	11.50	1000.00	04.10.23	
<b>DPMU-II under WBMIFMP</b>															
1	Mundeswari	Hoogly/ Khanakul-II	Marokhana	Right bank	22.605611, 87.8523						Water logging	2.00		04.10.23	
2	Damodar	Howrah/ Udaynarayanpur	Kurchi Shibpur	Right bank	22.733050, 87.981678						Water logging	1.24		05.10.23	
						Breach (m)	Slip/ Subsidence/ Erosion (m)	Protection work damage (m)	No. of damaged structures			Inundated/ Waterlogged Area (Sq. Km.)	Approx. Cost of Damage (Lakhs)		
Total	No. of affected districts = 19		Block = 173 Municipalities= 24	No. of damaged spots= 1431		2,381	1,61,183	33,055	711			242.14	23,294		

Annexure XII**CENTRAL FLOOD CONTROL ROOM & NODAL OFFICERS OF I. & W. DEPARTMENT**

SI. No.	DISTRICT	STATION / PLACE	CONTACT DETAILS OF NODAL / COORDINATING OFFICERS	TELEPHONE NUMBERS
				Office / Control Room
1	KOLKATA	Central Flood Control Room (CFCR), 1 <sup>st</sup> Floor, State Data Centre, Sech Aabasan, Salt Lake, Kolkata	Director, Advance Planning, Project Evaluation & Monitoring Cell (APPEMC)	(033) 2337-0281
			24-Hours Toll Free Help Line No. <b>1800-345-5201</b>	
			Land Line No. (033) 2321-8341 & (033) 2334-0117	
			Cell Phone Number: 94325 84007	
			E-mail ID: <a href="mailto:cfcritwdwb@gmail.com">cfcritwdwb@gmail.com</a> , Web Site: <a href="http://www.wbiwd.gov.in">www.wbiwd.gov.in</a>	
		Different Pumping Stations (Kolkata Municipal Areas)	Executive Engineer, Metropolitan Mechanical & Electrical Division	(033) 2358 0013
			Executive Engineer, Metropolitan Drainage Mechanical Division	(033) 2334 5768

**DISTRICT FLOOD CONTROL ROOMS & NODAL OFFICERS OF I. & W. DEPARTMENT**

SI. No.	DISTRICT	STATION / PLACE	CONTACT DETAILS OF NODAL / COORDINATING OFFICERS	TELEPHONE NUMBERS
				Office / Control Room
2	Jalpaiguri	Regional Flood Flood Control Room (RFCR), Jalpaiguri	Executive Engineer, Jalpaiguri Irrigation Division, Club Road, Jalpaiguri.	(03561) 230249 <u>Control Room</u> (03561) 230153 Toll Free Help Line: (1800-345-3255)
3	Malda	Regional Flood Flood Control Room (RFCR), Malda	Executive Engineer, Malda Irrigation Division, Green Park, Malda.	03512-252395 <u>Control Room:</u> (03512)-253939
4	North 24-Parganas	Basirhat	Executive Engineer, Basirhat Irrigation Division, Dhaltitha, Basirhat	(03217) 265-258
		Barasat	Executive Engineer, Bidyadhari Drainage Division, Taki Road, Barasat	(033) 2562-4520
5	South 24-Parganas	Joynagar	Executive Engineer, Joynagar Irrigation Division, Joynagar	(033) 2433-2887
		Kakdwip	Executive Engineer, Kakdwip Irrigation Division, Kakdwip	(03210) 255122
6	Howrah	Uluberia	Executive Engineer I, Lower Damodar Construction Division, Uluberia	(033) 2661 0311
			Executive Engineer II, Lower Damodar Construction Division, Uluberia	(033) 2661 0090
7	Hooghly	Singur	Executive Engineer I, Lower Damodar Irrigation Division, Singur	(033) 2630-0170
			Executive Engineer II, Lower Damodar Irrigation Division, Singur	(033) 2630-2260
8	Purba Bardhaman	Burdwan	Executive Engineer I, Damodar Canal Division, Burdwan	(0342) 2662496 <u>Control Room</u> (0342) 2645672)
			Executive Engineer II, Damodar Canal Division, Burdwan	

Sl. No.	DISTRICT	STATION / PLACE	CONTACT DETAILS OF NODAL / COORDINATING OFFICERS	TELEPHONE NUMBERS
9	<b>Paschim Bardhaman</b>	<b>Durgapur</b>	Executive Engineer, Damodar Head Works Division, Durgapur	(0343) 2555640 (0343) 2002012 ( <b>Barrage</b> )
		<b>Asansol</b>	Executive Engineer, Asansol Irrigation Division, Asansol	(03412) 280023
10	<b>Bankura</b>	<b>Bankura</b>	Executive Engineer, Bankura Irrigation Division, Bankura	(03242) 254934
		<b>Khatra</b>	Executive Engineer, Kangsabati Canal Division No. II, Khatra	(03243) 255236
11	<b>Purulia</b>	<b>Purulia</b>	Executive Engineer, Purulia Irrigation Division, Purulia	03252-222407
12	<b>Jhargram</b>	<b>Jhargram</b>	Executive Engineer, Jhargram Flood Management & Planning Division, Jhargram	9679170465 9733831201
13	<b>Paschim Medinipur</b>	<b>Midnapore</b>	Executive Engineer, West Medinipur Division, Midnapore	(03222) 275373
14	<b>Purba Medinipur</b>	<b>Tamluk</b>	Executive Engineer, East Medinipur Division, Tamluk	(03228) 266889
		<b>Contai</b>	Executive Engineer, Contai Irrigation Division, Contai	(03220) 255162
15	<b>Birbhum</b>	<b>Suri</b>	Executive Engineer, Mayurakshi Hd. Qtrs. Division, Suri	03462-255229
		<b>Bolpur</b>	Executive Engineer, Mayurakshi South Canals Division, Shyambati, Bolpur	03463-262256
		<b>Rampurhat</b>	Executive Engineer, Mayurakshi North Canals Division, Rampurhat	03461-255039
16	<b>Nadia</b>	<b>Krishnanagar</b>	Executive Engineer, Nadia Irrigation Division, Krishnanagar	03472-252451
17	<b>Murshidabad</b>	<b>Berhampore</b>	Executive Engineer, Berhampore Irrigation Division, Berhampore	03482-250645
18	<b>Uttar Dinajpur</b>	<b>Raigunj</b>	Executive Engineer, North Dinajpur Irrigation Division	03523-252008
19	<b>Dakshin Dinajpur</b>	<b>Balurghat</b>	Executive Engineer, South Dinajpur Irrigation Division	03522-255113
20	<b>Darjeeling</b>	<b>Siliguri</b>	Executive Engineer, Siliguri Irrigation Division, Mahanandapara, Siliguri	0353-2431842
21	<b>Coochbehar</b>	<b>Coochbehar</b>	Executive Engineer, Coochbehar Irrigation Division, Coochbehar	03582-228305 <u>Control Room:</u> (03582) 229114
22	<b>Alipurduar</b>	<b>Alipurduar</b>	Executive Engineer, Alipurduar Irrigation Division, Alipurduar	03564-255305 <u>Control Room:</u> (03564) 274198
23	<b>Jalpaiguri (Control Rooms under Teesta Barrage Project)</b>	<b>Gajoldoba</b>	Teesta Barrage Control Room	9064161095
		<b>Fulbari</b>	Mahananda Barrage Control Room	(03532) 005612

## 30-year's (1991-2021) Superimposed FIA and FPA Map of West Bengal

