GOVERNMENT OF WEST BENGAL
IRRIGATION & WATERWAYS DIRECTORATE

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सत्यमेव जयते

ANNUAL FLOOD REPORT – 2008.

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ANNUAL FLOOD REPORT OF WEST BENGAL FOR THE YEAR 2008.

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PREFACE

The flood, a water related disaster in the state of West Bengal has been an annual feature. Some parts of the state are victims of onslaughts of flood each year resulting severe loss to standing crops, cattles and human properties. The state has all possible facets of flood, drainage, bank erosion, cyclonic storm ravages and associated problems. It has been noticed that the furies due to flood have increased during the last two decades. A severe inundation took place twice in the fifties i.e. 1956, 1959 once in the sixties namely 1968 twice in the seventies i.e. 1971, 1978 thrice in the eighties namely 1984, 1986, 1987 six times during the nineties i.e. 1991,1993,1995,1997, 1999 and 2000. Flood and allied problems thus being on the rise, due stress is to be meted out to both structural and non-structural measures for proper management of flood.

Due to its physical and geographical position, the state, apart from diverse characteristics like physical, topographical has climatological variations as well. The average rainfall in the state is 1750 mm of which more than75% occurs during the monsoon period while the hilly region at the foot hills receives the heaviest rainfall ranging from 2500 mm to 5000 mm, the southern districts in the plains receive average of 1125 mm to 1875 mm.

Many factors such as intensity and duration of rainfall, sedimentation in river bed, natural or manmade obstruction etc. play a role in the occurrence of flood. Study of these factors and evaluation of flood hazards every year for a given basin/sub-basin are indispensible for evolution of various flood management measures. Accordingly Irrigation & Waterways Directorate, at the end of each flood season, prepare annual flood report comprising rainfall pattern in the basin/sub-basin, rainfall in the districts, reservoir condition and major flood events of the year.

1. INTRODUCTION.

The state West Bengal crowned by the mighty snow-white Himalayas in the North and frothy sea on the South is a combination of land varying from high regions to the plains. The state is beset with extensive network of rivers, their tributaries, rivulets, jhoras , canals, tanks beels and low lying pockets of water bodies. With the Tropic of Cancer running across it, the state is situated between 21º31' & 27º13'14" North Latitudes and 85º45'20" & 89º53' East Longitudes. The geographical area of the state is about 88,752 sq.km. with a population density of 767 per sq.km. according to 2001 census. River Teesta, Torsa, Raidak, Sankosh, Jaldhaka, Mahananda flow in the North and the river Bhagirathi-Hooghly emerging from the Ganges flows through the central part to the south of the state. The Mayurakshi, Ajoy, Damodar, Dwarakeswar, Rupnarayan, Kangsabati, Kaliaghai and the Subarnarekha are some of the major rivers from the Western part of the state. The river Ganga geographically divides the state into two regions. In the north-the districts are Coochbehar, Jalpaiguri, Darjeeling, Uttar Dinajpur, Dakshin Dinajpur and Malda and in the south – Murshidabad, Nadia, North 24-Parganas, South 24-Parganas, Purulia, Bankura, Birbhum, Burdwan, Hooghly, Howrah, Midnapore. The onset of the monsoon in the state spreads between middle of June to the middle of October.

Classification of areas.

1	Geographical Area	88,752 sq.km.
2.	Area under Forest	11,880 sq.km.
3.	Total Flood Prone Area	37,660 sq.km.
4.	Area already protected	22,005 sq.km.

1.1 RIVER BASINS.

The state can be demarcated into three distinct drainage basins coming under the Ganga, Brahmaputra and Subarnarekha system respectively. These three main river basins can in turn be divided into Sub-bains having individual catchment of their own. The area-wise distribution of the above main basins in the state are as under –

1.	Brahmaputra Basin	11,860 sq.km.
2.	Ganga Basin including Sundarban Area	74,732 sq.km.
3.	Subarnarekha Basin	2,160 sq.km.

1.2 RIVER SYSTEM

1.2.1 Brahmaputra Basin Drainage System.

The rainfall in the northern region of the state is generally high. The ground slope is steep enough particularly in the Sub-Himalayan regions of the northern districts. Except Darjeeling, all the areas belong to Brahmaputra Basin. This system consists of a total area of 11,860 sq.km. nearly 14% 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, Mansai, Jaldhaka etc. All these rivers originate from the Himalayas in Bhutan/Sikkim and flow across the Terai region and reach the plains of West Bengal and then flow to Bangladesh joining ultimately the Brahmaputra in Bangladesh. The rivers feeding the river Brahmaputra have number of tributaries as under –

Sl.No.	River Basin	Catchment area in sq.km.	Tributaries
1.	Sankosh	172	Chiklajhore
2.	Raidak	807	Raidak-I, Raidak-II, Turturi
3.	Torsa	3419	Kaljani,Sil-Torsa,Char-Torsa Dolong,Sanjai,Ghargharia,Garam, Diana,Pana,Jainti,Gabur-Basra
4.	Jaldhaka	3746	Mujnai,Murti,Diana,Sutanga, Dolong,Dharala,Ghatia,Kumlai, Gilandi,Duduya
5.	Teesta	3716	Great Rangeet,Ramam,Rangpoo, Mechi,Leesh,Ghish,Chel,Mal, Neora, Karala.

BRIEF DESCRIPTION OF RIVERS UNDER BRAHMAPUTRA BASIN

(A) SANKOSH

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 Gangadhar.

(B) RAIDAK.

It originates in Mt. Akungphu at an altitude of 6400 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 Gangadhar.

(C) TORSA

The river Torsa originates in Chumbi Valley of southern Tibet at an altitude of 7065 M. It flows through Tibet, Bhutan, West Bengal and Bangladesh. Below Hasimara bridge on NH-31, it bifurcates into two channels viz. Sil-Torsa and Char-Torsa. They reunite at Patla Khowa forest. The river passes by the Coochbehar town and is joined by river Kaljani and Raidak-I. The combined flow outfalls into Brahmaputra near Nageswari at Rangpur in Bangladesh.

(D) JALDHAKA

The river Jaldhaka has its origin at Bitang Lake in Sikkim at an altitude of 4400 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.

(E) TEESTA

Teesta – the mighty river of North Bengal originates in the glaciers of North Sikkim at an altitude of 6400 M and is formed by the union of two streams viz. Lachen and Lachung at Chungthung in Sikkim. It enters West Bengal at Rangpoo and upto Mechi, it forms the boundary betwen West Bengal and Sikkim. Two of its tributaries-Great Rangit and Rammam also serve as the natural boundary between the two states. The river finally outfalls into Brahmaputra in Rangpur district of Bangladesh.

1.2.2 GANGA BASIN

The two holy rivers – Bhagirathi and Alakananda originating from the glaciers of the Himalayas at an altitude of 7000 M. join at Dev prayag and the combined stream is known as the Ganga. It emerges into the plains at Rishikesh in Uttaranchal. After flowing exclusivelly through Uttaranchal and Uttar Pradesh it receives the flow of Yamuna, the largest tributary at Allahabad. 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. and then it enters West Bengal.

As it enters West Bengal, the river swings round the Rajmahal hill range and then starts flowing almost due south. The river then bifurcates into two arms about 40 km. below Farakka. The left arm called the Padma flows eastwards into Bangladesh while the right arm called Bhagirathi continues to flow south through West Bengal. The stretch of the river after Nabadwip is called Hooghly and ultimately outfalls into the Bay of Bengal near Sagar Island.

The Central, Southern and the South-Western parts of the State of West Bengal constitute the Ganga Basin.

The total length of the river Ganga from its point of origin to the point where it falls into sea is about 2575 km. (measured along Bhagirathi and the Hooghly), of which 1450 km. lies in Uttaranchal 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 74,732 sq.km. within the state of West Bengal. The catchment areas of different rivers within this system in the state of West Bengal are as under –

Sl.No.	Name of River Sub-Basin	Catchment Area in Sq.km.
1	2	3
(a)	Mahananda	9,640
(b)	Punarbhaba	730
(c)	Atrai	910
(d)	Pagla-Bansloi	730
(e)	Dwaraka-Bhrahmani	2,500
(f)	Bhagirathi-Hooghly	1,170
(g)	Jalangi	5,344
(h)	Mayurakshi	2,720
(i)	Ajoy	2,490
(j)	Khari-Gangur-Ghea	4,460
(k)	Churni	800
(l)	Damodar	5,250
(m)	Dwarkeswar	4,430
(n)	24-Parganas(South & North) and Kolkata Port Drainage Basin	4,619
(o)	Kangsabati	8,369
(p)	Silabati	3,952
(q)	Rupnarayan	2,548
(r)	Pichabani	820
(s)	Rasulpur	1,130
(t)	Haldi	980
(u)	Tidal zone (Sundarban Area)	11,320

The different tributaries of these rivers are listed below –

Sl.No.	Name of River	Tributaries
1	2	3
1.	Mahananda	Mechi, Balason, Dauk, Nagar, Kulik, Gamari, Chiramati, Tangon, Kalindri
2.	Punarbhaba	Punarbhaba
3.	Atrai	Atrai
4.	Pagla	Pagla, Bansloi, Bagmari
5.	Brahmoni	Brahmoni, Dwarka
6.	Bhagirathi	Bhagirathi, Hooghly
7.	Jalangi	Jalangi, Silamari, Bhairab, Suti
8.	Mayurakshi	Mayurakshi, Babla, Siddheswari, Kuiya, Kopai, Bakreswar, Sal, Monikornika, Daoki, Kana, Mor, Gambhira.
9.	Ajoy	Ajoy, Hinglow, Kunoor, Pathro, Jayanti,
10.	Khari-Gangur-Ghea	Khari, Brahmoni, Banka, Bangour, Ghea, Behula, Kana
11.	Churni	Churni
12.	Damodar	Damodar, Barakar, Sali.
13.	Dwarkeswar	Ganddheswari, Dwarkeswar, Arkasha, Berai.
14.	Rupnarayan	Mundeswari, Dwarkeswar, Berai, Tarjuli, Sankari, Silabati, Joypanda, Kubai, Parag, Kanki, Ganddheswari, Damodar
15.	Haldi	Haldi, Banki, Kangsabati, Kumari, Bhairab, Tarafeni, Kaliaghai, Bagchai, Chandra, Kapaleswari.
16.	Rasulpur	Rasulpur, Pichabani.
17.	Tidal Rivers	Tolly's Nullah, Keorapukur, Ichamati, Raimongal, Kultigong, Jamuna, Kalindi, Haroa, Bhanga, Gosaba, Metia, Piali, Thakuran, Raidighi, Saptamukhi, Buriganga, Matla, Dansa, Kalagachi, Bidyadhari, etc.

BRIEF NOTES ON THE SUB-BASINS

1. MAHANANDA.

The river Mahananda originates from Ghoom near Darjeeling town in the district of Darjeeling. The Mahananda river system lies between latitude 25º15' N to 26º15' N and longitude 87º45' E to 88º15' E. It is bounded on the north by the Himalayas, in the east by the ridges seperating 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 North-Western side at Godogarighat just downstream of the point where Ganga leaves the boundary of West Bengal.

2. ATRAI-PUNARBHABA

Some rivers like Sahu, Neem, Talma, Chaoai, Panga originating from the high lands in districts of Jalpaiguri, meet together afterwards. This combined stream assumes the name Karotowa. It then enters Bangladesh by the name Atrai. The river Atrai then bifurcates into two channels namely Dheepa and Atrai. The Western Channel – Atrai re-enters 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 Brahmaputra.

The Dheepa on the other hand taking a South – Westernly course enters Gangarampur P.S. in South Dinajpur district assuming the name Punarbhaba. Covering a length of about 40 km. in the district it touches the eastern boundary of Maldah district and finally enters Bangladesh. Further down, Punarbhaba meets the river Mahananda in Bangladesh.

3. NAGAR-KULICK, GAMARI-CHIRAMATI, TANGON, KALINDRI

All these rivers flow through the districts Malda and North Dinajpur. In course of their flow, somewhere they form the boundary either between West Bengal and Bihar or between West Bengal and Bangladesh. These rivers ultimately outfall into the river Mahananda.

Nagar, originating in Bangladesh flows along the boundary of West Bengal and taking a Southeasternly course, receives a spill channel of Mahananda and is joined by Kullick, which has also its origin in Bangladesh. Gamari and Chiramati are two small rivers that flow through North-Dinajpur district before they are united. This combined stream 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.

River Kalindri originating in North Bihar flows through the plain of Purnia district. It enters West Bengal in the Malda district and outfalls into Mahananda.

4. PAGLA-BANSLOI-BRAHMANI.

These rivers originate from the Rajmahal hills in the district of Bihar. Flowing easternly across Birbhum district, they entered Murshidabad district as the tributaries of the river Bhagirathi.

5. JALANGI-BHAIRAB

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 rain, when it receives water from Padma. The river ends its journey by finally outfalling into the river Hooghly near Nabadwip town in Nadia district in West Bengal.

The river Bhairab starts its journey from the river Ganga in P.S. Lalbag of Murshidabad district. It is now almost a dead channel but during rainy season it receives water from Padma.

6. ICHAMATI-CHURNI

The river Mathabhanga originates from the mouth of the Jalangi of Padma. It is not an important river in this stage, as it flows mainly through Bangladesh. It flows only a few kilometers within the district of Nadia. At this stage, the river bifurcates into two streams – the eastern course runs a few kilometres through the districts in a south-east directions to meet Bhagirathi by the name Churni and the other course flows by the name Ichamati. Ichamati gets a little supply from Padma and thrives on wash out by tidal flows.

7. BHAGIRATHI-HOOGHLY

The Ganga Brahmaputra Meghna river system constitutes one of the largest river systems of the world in terms of its water resources. The river Ganga originating in the Himalayas in India, drains a vast area. Near its deltaic head at Farakka it divides into two channels, the Bhagirathi-Hooghly and the Padma. The Bhagirathi-Hooghly flows through West Bengal and outfalls in Bay of Bengal and the Padma crosses over into Bangladesh and joins the Brahmaputra at Goalundo.

The river Bhagirathi divides the Murshidabad district into two part. It receives three right bank tributories namely the Bagmari-Pagla, the Mayurakshi and the Ajoy. It receives the Jalangi just upstream of Nabadwip town from the left. After its confluence with the Jalangi, the Bhagirathi is known as the Hooghly.

The Bhagirathi-Hooghly is the main river in the state and is the main drainage artery for the southern districts draining almost the entire area. Before 12th century, the Ganga had its main course down Bhagirathi-Hooghly. Subsequently, the main flow was

pushed to the east through the present course of Padma. The flow of Bhagirathi increases downstream due to the run off and outflows receives from a number of eastern and western tributaries. It also form the boundary between 24-Parganas and Hooghly districts.

8. MAYURAKSHI-BABLA

Mayurakshi originates from the high lands of Santhal Parganas. It is the main river of Birbhum district. Several spill channels – the Manikornika, Kana Mor, Gambhira etc. take off from the Mayurakshi in its lower reaches. All these rivers flow into the lower pocket of Hijal Beel in the district of Murshidabad. From the Beel, the river Babla starts its journey finally draining into the river Bhagirathi. The drainage and flood level in the Hijal Beel is considerably influenced by the level rulling in the Bhagirathi.

9. AJOY

The river Ajoy originates from the hills near Deoghar in Jharkhand. The Principal tributaries of the river are - Hinghlow, Kunoor, Pathro and Jayanti. The floods of this river are flashy and of short duration. There are some pockets in the Ajoy-Kunoor catchment which suffer from frequent inundation. Large areas of Burdwan and Birbhum districts face inundation whenever floods of the Ajoy synchronize with that of the Mayurakshi, the Pagla, the Bansloi and the Bhagirathi.

10. DAMODAR

The river Damodar originating from Palamau hills in Jharkhand, bifurcates into two channels at Beguahana. The main flow passes through Mundeswari channel and discharges into Rupnarayan. The other one Amta channel carries discharge during high flood and outfalls into the Hooghly. The river causes floods in its lower reaches in the districts of Burdwan, Hooghly and Howrah, mainly on the right bank of the river below Beguahana.

11. DWARAKESWAR-SILABATI-RUPNARAYAN

Dwarakeswar originates from the high lands of Purulia district. River Ganddheswari rising from Bankura district meets Dwarakeswar near Bankura town receiving water from streams like Arkasha, Berai, enters Hooghly district and meets Silabati to form Rupnarayan.

Silabati also originates in Purulia district. It traverses through the district of Midnapore. The river receives water of Joypanda and meets with Dwarakeswar to form Rupnarayan.

Rupnarayan is a combination of number of streams. The tidal reach below confluence of Dwarakeswar and Silabati is known as Rupnarayan. It outfalls into Hooghly after receiving mainflow of Damodar through Mundeswari and branch of Kangsabati. The river is tidal through out its entire course.

12. KANGSABATI-KALIAGHAI-HALDI

The river Kangsabati originating from Purulia district is joined by Kumari in Bankura district. Further down, it is joined by the combined streams of Bhairab Banki and Tarafeni rivers and thereafter it flows through the Midnapore district. After a tortuous course, it bifurcates. The upper branch known as old Cossye or Palaspai Khal outfalls into the Rupnarayan and the other one is known as New Cossye.

The river Kaliaghai trickles out from Jhargram, P.S. in Midnapore district. During the course of its journey, it is fed by the flow of its tributaries namely Kapaleswari, Baghai and Chandia. This combined flow meets the other arm of Kangsabati i.e. New Cossye to form Haldi.

The river Haldi formed by joining of New Cossye and the combined flow of Kaliaghai outfalls into the river Hooghly. The lower portion of the river Haldi is affected by over bank spills and drainage problem during the monsoon.

13. **RASULPUR**

The river Rasulpur is formed by three streams namely Bagda, Sarpai and Madhakhali. It is the main river of Contai Sub-Division of Midnapore district. It acts as the main drainage for Dwarakeswar, Silabati and large portion of the Kangsabati rivers. It causes flooding in two regions namely Dubda and Contai areas. The river ultimately falls into the river Hooghly.

14. **TIDAL RIVERS OF SOUTHERN WEST BENGAL**.

Aapart from the rivers described earlier within the Ganga and the Brahmaputra river systems, there is a group of rivers in Southern part of the State which falls in the deltaic zone. These rivers mostly lie in the deltaic zone to the east of the Hooghly river popularly known as Sundarbans and form an intricate network with a number of criss-cross inter connecting channels, thus dividing the land spill channels of Ganga, then upland supply running dry, during winter months. But gradually their off-takes from Ganga have deteriorated and in some cases being cut-off from the river. Now these rivers drain off whatsoever fresh discharge comes from country sides, thus ultimately draining into Bay of Bengal through one or other of the principal estuaries in the area which are, starting from Hooghly river successively the Bartala of Muriganga or channel creek, Saptamukhi, Matla, Gosaba, Hariabhanga, Raimongal etc.

The Tolly's Nullah or the Adi Ganga, as it is sometises called is a small but important tidal creek draining into the Hooghly from the left in the vicinity of the city of Kolkata.

1.2.3 SUBARNAREKHA BASIN

The river Subarnarekha though it has small catchment within this state, has got seperate entity as it directly falls into the Bay of Bengal. Originating in the Chotonagpur Range at an elevation of 609 M it traverses through three states – Bihar, West Bengal and Orissa. It drains a total area of 18,951 sq.km. of which 13,590 sq.km. in Bihar,

2,160 sq.km. in West Bengal and 3201 sq.km. in Orissa. The main tributaries of the river are Kanchi and Khakai above Chandil in Bihar, Kakhai in Bihar and Orissa and Dolong in West Bengal.

The maximum and minimum observed as well as the danger levels and highest flood levels at different gauge sites of various river systems during the flood season of 2008 are given in Annexure-IV(Sheet No. 1/39 to 39/39 & 1/45 to 45/45).

2. RAINFALL

The main rainfall season in this state is the South-West monsoon season during which the entire land (excepting the extreme north, the extreme north-east and extreme south) gets 75% of the annual rainfall. The gangetic plains of West Bengal gets 78% of its annual rainfall during the monsoon period. During last seventy five years, the date of onset of monsoon over West Bengal was spread between last week of May to last week of June with its withdrawal between last week of September to second week of October. This year the onset of monsoon over West Bengal spread between early second week of June to early second week of October.

2.1 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 occurance. 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.

2.1.1 HIMALAYAN AND SUB-HIMALAYAN REGION.

The Himalayan and Sub-Himalayan Region comprising the districts- Darjeeling, Jalpaiguri, Coochbehar and Northern part of Islampur Sub-Division of Uttar Dinajpur district of high intensity of rainfall from 2000 mm. to over 4000 mm. about 80% of which is found to occur during monsoon season. On the average Darjeeling, Coochbehar and Jalpaiguri get 114, 112, 110 rainy days respectively in a year. The monsoon generally follows a northernly 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 northwards to the Himalayan foothills. It has been found that a precipitation to the tune of 200 to 300 mm. in two hours is not unusual while in more than forty occasions of rainfall of 250 mm. and above have been registered during 1891-1965.

2.1.2 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 : Comprising districts – Bankura, Burdwan, Hooghly, Nadia and Purulia which receive an average rainfall – between 1140 mm and 1400 mm.

Sector – II : Comprising districts – Birbhum, Midnapore, Murshidabad and North 24-Parganas having an average annual rainfall between 1400 mm and 1650 mm.

Sector – III : Comprising districts – Howrah and South 24-Parganas having an average annual rainfall – between 1650 mm and 1900 mm.

Such regional variations in the precipitation pattern causes flood conditions from time to time.

This year in the Gangetic West Bengal region districts – Midnapore(+19%), Howrah(+28%), Nadia(+12%), Bankura(+18%), Purulia(+9%), Burdwan(+17%), Birbhum (+4%) and Hooghly (+5%) had experienced above rainfall than the normal but, South 24-Parganas(-7%), Murshidabad(-3%) & North 24-Parganas(-16%), had experienced less rainfall than normal and the region as a whole had experienced excess (+7.40%) rainfall than the normal rainfall during monsoon period (i.e. June'08 to October'08). In the Sub-Himalayan region the districts Darjeeling (+24%), Jalpaiguri(+10%) & Malda(+20%) had experienced excess rainfall than the normal but North Dinajpur (-12%), South Dinajpur (-2%) and Coochbehar (-10%) had experienced less rainfall than the normal during monsoon period (i.e. from June'08 to October'08) and the region as a whole had experienced excess (+5.50%) rainfall than the normal rainfall during monsoon period (i.e. from June'08 to October'08). The state had experienced excess rainfall than the Average Annual Rainfall (period from January'08 to December'08). All are shown in Annexure-I (Sheet 1 to 15).

The monthly rainfall data for the districts as collected from Indian Meteorological Department, Alipore, Kolkata is shown in Annexure-I (Sheet – 1/15 to 15/15) and summary statement of rainfall datas during monsoon is shown in Annexure-V (Sheet –1/3).

During the monsoon period, this year, the Sub-basins within the state of West Bengal experienced an average rainfall ranging from 22% to 112% of annual average rainfall of the sub-basins.

Flood had occurred in the district of Midnapore on 18/6/2008 as the river Kaliaghai at Amgachia, Subarnarekha at Sonakanai, Kangsabati at Mohanpur, Kalmajore & Mayna at Barisha were running above EDL sychronised with incessant rainfall at river Sub-basins of Amgachia, Midnapore, Panskura, Phulberia & Mayna etc. respectively. Again, some major structures were damaged at Digha & Contai in Midnapore due to active cyclone from 15.9.2008 to 17.9.2008. The losses at different blocks, inundated areas, river positions & rainfall datas are shown in Annexure-VIII, VII & V respectively.

The rainfall data of different rivers (Sub-basin wise) are shown in Annexure-V (Sheet no. 1/3 to 3/3).

3. REPORT ON FLOOD DURING – 2008 OF WEST BENGAL.

Flood is a recurring problem and is almost a regular feature in this state. The state has experienced flood almost every year excepting a very few instances. A major part of the state was created through delta building process by its river systems. Over the years vast area was reclaimed prematurely by constructing flood embankments. Those areas were not allowed to be properly built up by not allowing flood to deposit its silt load in those areas. 42.43% geographical area of the state is flood prone. The flood affected areas as presented below from 1960 to 2008 will depict a scenario of recurrence of high flood in the state.

Flood affected area (Sq.km.)	Years of occurance	Total No. of years.
Below 500	1985,89,92,94,97,2001 & 2005,2006	8
Between 500-2000	1962,63,64,65,66,72,75,96,2003,2004,2007	11
Between 2000-5000	1960,61,67,69,70,74,76,80,81 & 82	10
Between 5000-10,000	1973,77,93,95,98 & 2008	6
Between 10,000 – 15,000	1968,79,83,90 & 99	5
Between 15,000 – 20,000	1971,86,87 & 88	4
Above 20,000	1978,80,84 & 2000.	4

This year i.e. 2008 may be considered as a year of excess rainfall(+3.7%). The rainfall over the state during the year is below the normal average rainfall in Sub-Himalayan West Bengal (i.e. by -1.30% departure) and above the normal average rainfall in Gangetic West Bengal (+5.00%). This is shown in Annexure-I (Sheet No. 14/15).

Most of the rivers of the state were running with flow of normal intensity among the North Bengal rivers except – Raidak-II at L.R.P. Crossing, Torsa at Hasimara, Jaldhaka at NH-31, Mahananda at H.C.Road, Sui at Pazol, Ganga at Manikchakghat, Ganga at Nimtita were running above Danger Levels but the rivr Mayna at Barisha, Ganga at Sabibganj, Ganga at Chakghat, Ganga at Nurpur, Ganga at Farakka, Ganga at Kalagaon, Ganga at Hatidah, Ganga at Patna, Fulahar at Teljana on both protected & unprotected areas, Gamari at Itahar, Mahananda at Englishbazar, Dangraghat & Jhawa, Teesta at Domohani were running above Extreme Danger Levels on a few occasions and among the South Bengal rivers – Dwaraka at Sankoghat, Damodar at Amta, Jalangi at Swarupganj, Churni at Hanskhali, Rupnarayan at Bandar, Jamuna at Gobardanga were running above Danger Levels but the rivers of Jamuna at Gaighata, Ichamati at Bongaon, & Mejdia, Subarnarekha at Sonakonai, Rupnarayan & Ranichaaaaak, Bhagirathi at Berhampore, Kaliaghai at Amgachia, Kangsabati at Panskura & Kalmajore were running above Extreme Danger Levels on a few occasions.

In case of important reservoirs – the maximum reservoir levels, maximum outflows and incase of Barrages - the maximum Barrage levels, maximum discharges are shown in Annexure-II (1/6 to 6/6) & Annexure – III (1/2 & 2/2) accordingly.

There were partial damages to the engineering structures, severe erosion of banks. District wise damages, slips etc. are shown in Annexure-VI (sheet 1/ to 140/).

4. CONCLUSION

The West Bengal is basically recipient of run-off generated outside the state. The state has a typical basin characteristics. In the north the rainfall is high and the ground slope is steep mainly in the Sub-Himalayan region. The rivers in the Terai region are wide with shallow depth. Due to continuous denudation of forest cover, Dolomite mining in the hills, the river beds are being silted up day by day reducing the carrying capacity of the rivers causing the flood. In the South & Central Region heavy rainfalls and run-off coming from the upper catchment cause drainage congestion and inundation due to very flat ground slope of the regions.

Main structural measures of flood control in West Bengal are embankments measuring 10000 km. (approx.) spread over different river systems, constructed over the years. There are dams across the Kangsabati, the Mayurakshi and the Damodar river system. But only in the Damodar river system the dams moderate the peak flood to some extent. The other structural measures like catchment area treatment and afforestation in upper catchment requires intervention at Government of India level as they are outside the state.

In North Bengal, an elaborate flood warning system maintained by the department warns the people about the trend of rise of the rivers and thus alarm them to take necessary safety measures. In Central & South Bengal the water level of different rivers together with their danger & extreme danger levels and releases from different dams and reservoirs are intimated to different authorities from time to time during rainy season. Besides, the department also tries to maintain contact with Indian Meteorological Department, Kolkata to get information on adverse weather condition during the monsoon period and to take possible measures. Central Water Commission also extends their co-operation in supplying the conditions and trends of important river conditions in addition to rainfall data at different rain gauge stations.

Besides the department has already opened its own website (www.wbiwd.com) to make available daily rainfall data and river gauge levels with trend at different stations.

The flood management of the state is a vast problem. The problem cannot be tackled by the state government alone. It requires close liaison of different organisations. The flood awareness particularly understanding about the complexity of the causes of flood and vulnerability of West Bengal will require help of NGO's and Panchayet Raj Institutions. The flood is a problem to be admitted by the society and the people of an area are to formulate their own action plan in close liaison with different Government organisations.

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF JANUARY - 2008.

Period from 01.01.2008 to 31.01.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	26.0	12.3	111
2.	Birbhum	15.1	12.2	24
3.	Burdwan	23.1	12.8	80
4.	Hooghly	54.8	10.0	448
5.	Howrah	-	10.0	-
6.	Midnapore	84.5	14.5	483
7.	Murshidabad	6.2	15.6	-60
8.	North 24-Parganas	59.7	15.5	285
9.	Nadia	70.6	11.7	503
10.	Purulia	24.0	11.7	105
11.	South 24-Parganas	99.0	14.7	574

Total	:	463.00	141.00	-
Average	:	42.10	12.82	228.00

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	40.7	12.5	226
13.	Darjeeling	19.5	16.9	15
14.	Jalpaiguri	13.6	9.2	48
15.	Malda	61.4	12.4	395
16.	North Dinajpur	-	7.0	-
17.	South Dinajpur	0.0	7.0	-100

Total	:	135.2	65	-
Average	:	22.5	10.8	108

* Data not available.

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF FEBRUARY - 2008.

Period from 01.02.2008 to 29.02.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	5.4	16.8	-68
2.	Birbhum	6.3	19.6	-68
3.	Burdwan	13.3	16.9	-21
4.	Hooghly	9.2	24.8	-63
5.	Howrah	-	19.5	-
6.	Midnapore	13.4	21.0	-36
7.	Murshidabad	2.1	11.5	-82
8.	North 24-Parganas	35.0	19.4	81
9.	Nadia	39.4	15.5	154
10.	Purulia	3.1	19.9	-85
11.	South 24-Parganas	10.5	21.1	-50

Total	:	137.7	205.1	-
Average	:	12.5	18.9	-34

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	8.8	13.0	-32
13.	Darjeeling	2.9	14.0	-79
14.	Jalpaiguri	5.5	11.2	-51
15.	Malda	0.6	11.5	-95
16.	North Dinajpur	-	15.1	-
17.	South Dinajpur	0.0	15.1	-100

Total	:	17.8	79.9	-
Average	:	3.0	13.3	-77

*Data not available.

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF MARCH - 2008.

Period from 01.03.2008 to 31.03.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	3.3	27.9	-88
2.	Birbhum	9.1	26.1	-65
3.	Burdwan	21.3	20.6	3
4.	Hooghly	22.2	29.8	-26
5.	Howrah	1.8	32.9	-95
6.	Midnapore	17.7	34.3	-48
7.	Murshidabad	2.3	19.1	-88
8.	North 24-Parganas	10.2	25.8	-61
9.	Nadia	29.0	22.7	28
10.	Purulia	3.9	23.6	-83
11.	South 24-Parganas	8.0	30.8	-74

Total	:	128.8	293.6	-
Average	:	11.7	26.7	-59

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	63.5	34.6	83
13.	Darjeeling	48.9	39.7	23
14.	Jalpaiguri	64.6	32.8	97
15.	Malda	3.6	12.6	-71
16.	North Dinajpur	-	23.0	-
17.	South Dinajpur	0.0	23.0	-100

Total	:	180.6	165.7	-
Average	:	30.1	27.6	9

*Data not available.

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF APRIL - 2008.

Period from 01.04.2008 to 30.04.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	39.3	40.0	-2
2.	Birbhum	24.7	41.0	-40
3.	Burdwan	37.3	37.6	-1
4.	Hooghly	54.2	66.6	-19
5.	Howrah	50.0	55.4	-10
6.	Midnapore	72.2	47.2	53
7.	Murshidabad	7.8	45.4	-83
8.	North 24-Parganas	92.0	50.5	82
9.	Nadia	50.0	55.8	-10
10.	Purulia	16.8	34.4	-51
11.	South 24-Parganas	50.6	51.9	-3

Total	:	494.9	525.8	-
Average	:	45	48	6

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	136.4	127.0	7
13.	Darjeeling	66.9	82.4	-19
14.	Jalpaiguri	135.0	123.1	10
15.	Malda	11.7	37.1	-68
16.	North Dinajpur	-	62.4	-
17.	South Dinajpur	0.0	62.4	-100

Total	:	350	494.4	-
Average	:	58.3	82.4	-29.25

*Data not available.

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF MAY - 2008.

Period from 01.05.2008 to 31.05.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	93.4	71.6	30
2.	Birbhum	96.8	94.0	3
3.	Burdwan	125.2	73.0	71
4.	Hooghly	95.8	111.7	-14
5.	Howrah	90.4	117.4	-23
6.	Midnapore	99.6	108.3	-8
7.	Murshidabad	32.9	100.9	-67
8.	North 24-Parganas	96.5	106.3	-9
9.	Nadia	193.0	96.1	101
10.	Purulia	63.0	54.8	15
11.	South 24-Parganas	77.0	104.3	926

Total	:	1063.6	1038.4	-
Average	:	96.7	94.4	2.44

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	219.9	390.0	-44
13.	Darjeeling	191.8	188.2	2
14.	Jalpaiguri	226.8	303.8	-25
15.	Malda	37.5	104.4	-64
16.	North Dinajpur	-	163.8	-
17.	South Dinajpur	1.2	163.8	-99

Total	:	677.2	1314	-
Average	:	113	219	-48.4

*Data not available.

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF JUNE - 2008.

Period from 01.06.2008 to 30.06.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	398.6	216.8	84
2.	Birbhum	294.1	228.3	29
3.	Burdwan	375.5	229.4	64
4.	Hooghly	355.6	236.8	50
5.	Howrah	562.5	237.7	137
6.	Midnapore	709.3	245.5	189
7.	Murshidabad	252.1	222.7	13
8.	North 24-Parganas	259.8	289.5	-10
9.	Nadia	238.3	223.2	7
10.	Purulia	403.3	218.1	85
11.	South 24-Parganas	399.2	270.3	48

Total	:	4248.3	2618.3	-
Average	:	386.21	238.03	62.25

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	446.5	708.2	-37
13.	Darjeeling	915.0	507.5	80
14.	Jalpaiguri	672.1	634.7	6
15.	Malda	394.8	212.8	86
16.	North Dinajpur	293.9	298.4	-2
17.	South Dinajpur	286.8	298.4	-4

Total	:	3009.1	2660	-
Average	:	501.52	443.33	13.15

*Data not available.

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF JULY - 2008.

Period from 01.07.2008 to 31.07.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	438.6	309.3	42
2.	Birbhum	396.8	305.7	30
3.	Burdwan	420.1	324.8	29
4.	Hooghly	339.5	301.5	13
5.	Howrah	312.6	338.6	-8
6.	Midnapore	284.5	307.8	-8
7.	Murshidabad	378.5	325.9	16
8.	North 24-Parganas	301.2	326.0	-8
9.	Nadia	305.7	244.3	25
10.	Purulia	384.8	294.1	31
11.	South 24-Parganas	243.7	356.8	-32

Total	:	3806.0	3434.80	-
Average	:	346.0	312.25	10.81

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	622.8	717.8	-13
13.	Darjeeling	738.5	766.3	-4
14.	Jalpaiguri	959.2	841.7	14
15.	Malda	456.3	327.1	39
16.	North Dinajpur	511.8	378.0	35
17.	South Dinajpur	464.4	378.0	23

Total	:	3753.0	3408.9	-
Average	:	625.5	568.15	10.10

D.N.A.: Data Not Available

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF AUGUST - 2008.

Period from 01.08.2008 to 31.08.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	302.8	296.9	2
2.	Birbhum	299.8	293.3	2
3.	Burdwan	297.9	303.6	-2
4.	Hooghly	216.1	272.3	-21
5.	Howrah	258.1	251.5	-27
6.	Midnapore	269.5	336.4	-20
7.	Murshidabad	210.1	261.9	-20
8.	North 24-Parganas	219.5	336.4	-35
9.	Nadia	128.4	230.0	-44
10.	Purulia	202.8	311.7	-35
11.	South 24-Parganas	297.5	362.3	-18

Total	:	2702.5	3256.3	-
Average	:	245.70	296.03	-17.0

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	854.5	553.4	54
13.	Darjeeling	875.4	555.5	58
14.	Jalpaiguri	1045.8	649.1	61
15.	Malda	256.4	264.1	-3
16.	North Dinajpur	334.3	242.8	38
17.	South Dinajpur	304.0	242.8	25

Total	:	3670.4	2507.7	-
Average	:	611.73	417.95	46.4

D.N.A.: Data Not Available

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH SEPTEMBER - 2008.

Period from 01.9.2008 to 30.09.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	231.7	246.9	-6
2.	Birbhum	202.4	258.9	-22
3.	Burdwan	268.3	240.3	12
4.	Hooghly	237.9	219.8	8
5.	Howrah	362.1	297.0	22
6.	Midnapore	286.4	310.3	-8
7.	Murshidabad	219.5	228.2	-4
8.	North 24-Parganas	314.0	300.0	5
9.	Nadia	314.2	185.6	69
10.	Purulia	271.2	254.3	7
11.	South 24-Parganas	285.3	319.5	-11

Total	:	2993.0	2860.8	-
Average	:	272.10	260.10	4.6

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	275.3	470.0	-41
13.	Darjeeling	292.2	424.2	-31
14.	Jalpaiguri	321.5	540.3	-40
15.	Malda	233.2	237.4	-2
16.	North Dinajpur	21.3	269.1	-92
17.	South Dinajpur	197.6	269.1	-27

Total	:	1341.1	2210.1	-
Average	:	223.52	368.35	-39.32

D.N.A.: Data Not Available

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF OCTOBER - 2008.

Period from 01.10.2008 to 31.10.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	18.9	106.7	-82
2.	Birbhum	54.2	110.6	-51
3.	Burdwan	56.3	108.0	-48
4.	Hooghly	39.0	101.5	-62
5.	Howrah	70.0	100.3	-30
6.	Midnapore	68.7	161.0	-57
7.	Murshidabad	66.2	124.2	-47
8.	North 24-Parganas	81.5	141.1	-42
9.	Nadia	127.0	111.3	14
10.	Purulia	10.5	85.0	-88
11.	South 24-Parganas	149.9	177.5	-16

Total	:	742.2	1327.2	-
Average	:	67.47	120.65	-44.10

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	162.3	172.3	-6
13.	Darjeeling	137.8	125.3	10
14.	Jalpaiguri	98.8	161.0	-39
15.	Malda	47.9	116.7	-59
16.	North Dinajpur	-	132.3	-
17.	South Dinajpur	42.8	132.3	-68

Total	:	489.6	839.90	-
Average	:	81.6	139.98	-41.7

D.N.A.: Data Not Available

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF NOVEMBER - 2008.

Period from 01.11.2008 to 30.11.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	0.0	15.8	-100
2.	Birbhum	0.0	14.4	-100
3.	Burdwan	0.0	11.0	-100
4.	Hooghly	0.0	21.0	-100
5.	Howrah	0.0	30.2	-100
6.	Midnapore	0.0	33.2	-100
7.	Murshidabad	0.0	15.6	-100
8.	North 24-Parganas	0.0	24.3	-100
9.	Nadia	0.0	13.9	-100
10.	Purulia	0.0	13.2	-100
11.	South 24-Parganas	0.0	36.5	-100

Total	:	0.0	229.4	-
Average	:	0.0	20.85	-100

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	0.0	11.4	-100
13.	Darjeeling	27.2	9.9	175
14.	Jalpaiguri	12.9	8.7	48
15.	Malda	0.0	11.6	-100
16.	North Dinajpur	-	12.4	-
17.	South Dinajpur	0.0	12.4	-100

Total	:	40.1	66.4	-
Average	:	6.7	11.10	-39.64

D.N.A.: Data Not Available

MONTHLY DISTRICTWISE ACTUAL & NORMAL RAINFALL RECEIVED FROM I.M.D. ALIPORE, KOLKATA ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE MONTH OF DECEMBER-2008.

Period from 01.12.2008 to 31.12.2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	0.0	6.1	-100
2.	Birbhum	0.0	5.8	-100
3.	Burdwan	0.0	3.1	-100
4.	Hooghly	0.0	6.5	-100
5.	Howrah	0.0	13.4	-100
6.	Midnapore	0.0	7.3	-100
7.	Murshidabad	0.0	2.6	-100
8.	North 24-Parganas	0.0	6.1	-100
9.	Nadia	0.0	4.1	-100
10.	Purulia	0.0	5.4	-100
11.	South 24-Parganas	0.0	10.8	-100

Total	:	0.0	71.2	-
Average	:	0.0	6.5	-100

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	0.1	2.8	-96
13.	Darjeeling	0.0	3.6	-100
14.	Jalpaiguri	3.7	4.5	-17
15.	Malda	0.0	4.3	-100
16.	North Dinajpur	17.1	28.9	-41
17.	South Dinajpur	0.0	4.9	-100

Total	:	20.9	49.0	-
Average	:	3.48	8.17	-57

D.N.A.: Data Not Available

DISTRICTWISE ACTUAL & NORMAL RAINFALL DURING MONSOON PERIOD ALONG WITH PERCENT DEPARTURE FROM NORMAL FOR THE YEAR-2008.

Period from June 2008 to October 2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	1390.60	1176.60	18
2.	Birbhum	1247.30	1196.80	4
3.	Burdwan	1418.10	1206.10	17
4.	Hooghly	1188.10	1131.90	5
5.	Howrah	1565.30	1225.10	28
6.	Midnapore	1618.40	1361.00	19
7.	Murshidabad	1126.40	1162.90	-3
8.	North 24-Parganas	1176.00	1393.00	-16
9.	Nadia	1113.60	994.30	12
10.	Purulia	1272.60	1163.20	9
11.	South 24-Parganas	1375.60	1486.40	-7

Total	:	14492.00	13497.30	-
Average	:	1317.45	1227.03	7.40

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	2361.40	2621.70	-10
13.	Darjeeling	2958.90	2378.80	24
14.	Jalpaiguri	3097.40	2826.80	10
15.	Malda	1388.60	1156.10	20
16.	North Dinajpur	1161.30	1320.60	-12
17.	South Dinajpur	1295.60	1320.30	-2

Total	:	12263.20	11626.60	-
Average	:	2043.87	1937.77	5.50

D.N.A.: Data Not Available

YEARLY DISTRICTWISE ACTUAL & NORMAL RAINFALL WITH PERCENT DEPARTURE FROM NORMAL FOR THE YEAR-2008.

Period from January 2008 to December 2008.

Sl.No.	Name of District	Actual (in mm)	Normal (in mm)	Departure (in %)
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	1558.00	1367.10	-14
2.	Birbhum	1399.30	1409.90	-1
3.	Burdwan	1638.30	1381.10	0
4.	Hooghly	1424.30	1402.60	2
5.	Howrah	1707.50	1503.90	14
6.	Midnapore	1905.80	1626.80	17
7.	Murshidabad	1177.70	1373.60	-14
8.	North 24-Parganas	1461.50	1640.90	-11
9.	Nadia	1495.60	1214.10	23
10.	Purulia	1383.40	1326.20	4
11.	South 24-Parganas	1620.70	1756.50	-8

Total	:	16772.10	16002.70	-
Average	:	1524.74	1454.79	5.00

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	2830.80	3213.00	-12
13.	Darjeeling	3316.10	2733.50	21
14.	Jalpaiguri	3559.50	3320.10	7
15.	Malda	1503.40	1352.00	11
16.	North Dinajpur	1178.40	1633.20	-28
17.	South Dinajpur	1295.60	1609.20	-19

Total	:	13683.80	13861.00	-
Average	:	2280.63	2310.17	-1.30

D.N.A.: Data Not Available

DISTRICTWISE MONSOON RAINFALL IN PERCENTAGE OF ANNUAL RAINFALL FOR THE YEAR -2008.

Sl.No.	Name of District	Actual Monsoon Rainfall (in mm)	Normal Annual Rainfall (in mm)	In percentage of Annual Normal Rainfall
1	2	3	4	5

Sub-Division : Gangetic West Bengal

1.	Bankura	1390.60	1367.10	1.72
2.	Birbhum	1247.30	1409.90	-11.53
3.	Burdwan	1418.10	1381.10	2.68
4.	Hooghly	1188.10	1402.60	-15.29
5.	Howrah	1565.30	1503.90	4.08
6.	Midnapore	1618.40	1626.80	-0.52
7.	Murshidabad	1126.40	1373.60	-18.0
8.	North 24-Parganas	1176.00	1640.90	-28.33
9.	Nadia	1113.60	1214.10	-8.30
10.	Purulia	1272.60	1326.20	-4.04
11.	South 24-Parganas	1375.60	1756.50	-21.68

Total	:	14492.00	16002.70	-
Average	:	1317.45	1454.79	-9.44

Sub-Division : Sub-Himalayan West Bengal

12.	Coochbehar	2361.40	3213.00	-26.50
13.	Darjeeling	2958.90	2733.50	8.24
14.	Jalpaiguri	3097.40	3320.10	-6.71
15.	Malda	1388.60	1352.00	2.71
16.	North Dinajpur	1161.30	1633.20	-28.89
17.	South Dinajpur	1295.60	1609.20	-19.50

Total	:	12263.2	13861.00	-
Average	:	2043.87	2310.20	-11.53

IMPORTANT RESERVOIR LEVELS & OUTFLOW DATA DURING THE FLOOD SEASON OF 2008.

Name of Reservoir : Maithon
Conservation Level : 146.310 M (480.00 Ft.)
Dead Storage Level : 132.590 M (435.00 Ft.)

Date	Time (in hours)	Reservoir Level (in M)	Outflow (in Cumecs)	Remarks
1	2	3	4	5
6.6.2008	6.00	0.00	0.000	
17.6.2008	6.00	140.280	20.470	
19.6.2008	6.00	140.07	149.130	
20.6.2008	6.00	140.07	140.07	
26.6.2008	6.00	138.72	168.227	
3.7.2008	6.00	140.72	166.955	
10.7.2008	6.00	143.650	187.580	
16.7.2008	6.00	146.09	788.611	
17.7.2008	6.00	145.93	875.386	
21.7.2008	6.00	146.970	1143.116	
28.7.2008	6.00	146.170	270.011	
30.7.2008	6.00	145.970	411.550	
3.8.2008	6.00	146.31	303.000	
13.8.2008	6.00	146.30	223.417	
18.8.2008	6.00	146.83	421.495	
19.8.2008	6.00	146.81	423.230	
21.8.2008	6.00	146.98	424.040	
23.8.2008	6.00	146.39	**4149.002****	**** Maximum Outflow.**
28.8.2008	6.00	145.87	286.59	
29.8.2008	6.00	146.37	285.779	
4.9.2008	6.00	145.16	131.37	
7.9.2008	6.00	144.71	211.092	
14.9.2008	6.00	144.12	345.943	
15.9.2008	6.00	144.86	52.065	
22.9.2008	6.00	145.44	132.19	
24.9.2008	6.00	146.26	132.44	
26.9.2008	6.00	147.17	230.821	
27.9.2008	6.00	147.58	157.815	
3.10.2008	6.00	147.70	55.767	
8.10.2008	6.00	**148.07***	30.60	*** Maximum Reservoir Level**
9.10.2008	6.00	148.02	0.00	
15.10.2008	6.00	147.64	96.957	

IMPORTANT RESERVOIR LEVELS & OUTFLOW DATA DURING THE FLOOD SEASON OF 2008.

Name of Reservoir : Panchet
Conservation Level : 124.970 M (410.00 Ft.)
Dead Storage Level : 119.480 M (392.00 Ft.)

Date	Time (in hours)	Reservoir Level (in M)	Outflow (in Cumecs)	Remarks
1	2	3	4	5
19.6.2008	6.00	123.520	329.050	
22.6.2008	6.00	126.800	374.174	
24.6.2008	6.00	126.15	389.910	
2.7.2008	6.00	**129.01***	346.050	*** Maximum Reservoir Level**
3.7.2008	6.00	126.54	363.992	
10.7.2008	6.00	127.05	1380.417	
11.7.2008	6.00	124.42	**1715.370****	**** Maximum Outflow**
12.7.2008	6.00	124.43	1710.277	
21.7.2008	6.00	126.800	854.329	
22.7.2008	6.00	126.53	856.643	
26.7.2008	6.00	126.400	377.530	
27.7.2008	6.00	126.15	771.000	
1.8.2008	6.00	125.040	425.545	
3.8.2008	6.00	124.97	452.000	
12.8.2008	6.00	126.03	389.790	
13.8.2008	6.00	126.02	429.941	
18.8.2008	6.00	127.30	713.638	
19.8.2008	6.00	126.92	718.034	
22.8.2008	6.00	128.13	1355.078	
23.8.2008	6.00	127.62	1499.009	
1.9.2008	6.00	126.790	429.131	
2.9.2008	6.00	126.67	429.478	
4.9.2008	6.00	126.40	428.553	
11.9.2008	6.00	124.68	202.706	
24.9.2008	6.00	127.79	256.044	
25.9.2008	6.00	128.24	469.280	
26.9.2008	6.00	128.110	714.332	
2.10.2008	6.00	127.57	173.781	
9.10.2008	6.00	127.12	175.000	

IMPORTANT RESERVOIR LEVELS & OUTFLOW DATA DURING THE FLOOD SEASON OF 2008.

Name of Reservoir : Tenughat
Conservation Level : 263.66 M (865.00 Ft.)
Dead Storage Level : 249.02 M (817.00 Ft.)

Date	Time (in hours)	Reservoir Level (in M)	Outflow (in Cumecs)	Remarks
1	2	3	4	5
6.6.2008	6.00	0.00	0.00	
19.6.2008	6.00	260.780	415.190	
20.6.2008	6.00	259.65	211.760	
21.6.2008	6.00	258.92	527.550	
2.7.2008	6.00	259.21	429.050	
3.7.2008	6.00	259.32	274.688	
10.7.2008	6.00	262.32	**1748.458****	**** Maximum Outflow**
11.7.2008	6.00	260.11	1646.300	
20.7.2008	6.00	258.99	520.300	
24.7.2008	6.00	259.72	160.940	
25.7.2008	6.00	259.51	406.107	
3.8.2008	6.00	259.53	83.189	
10.8.2008	6.00	259.38	813.602	
12.8.2008	6.00	**263.66***	84.060	*** Maximum Reservoir Level**
16.8.2008	6.00	260.09	520.180	
17.8.2008	6.00	259.42	760.97	
21.8.2008	6.00	260.91	947.120	
22.8.2008	6.00	260.19	1162.430	
30.8.2008	6.00	259.92	83.715	
31.8.2008	6.00	259.40	402.339	
4.9.2008	6.00	259.82	83.504	
5.9.2008	6.00	259.82	83.535	
11.9.2008	6.00	259.55	90.362	
16.9.2008	6.00	259.61	4.800	
18.9.2008	6.00	260.40	4.859	
19.9.2008	6.00	259.460	549.68	
26.9.2008	6.00	260.09	4.859	
28.9.2008	6.00	259.96	132.358	
7.10.2008	6.00	260.25	48.15	
8.10.2008	6.00	260.33	2.36	
13.10.2008	6.00	260.21	140.228	
15.10.2008	6.00	260.600	26.38	

IMPORTANT RESERVOIR LEVELS & OUTFLOW DATA DURING THE FLOOD SEASON OF 2008.

Name of Reservoir : Kangsabati
Conservation Level : 134.11 M (440.00 Ft.)
Dead Storage Level : 120.40 M (395.00 Ft.)

Date	Time (in hours)	Reservoir Level (in M)	Outflow (in Cumecs)	Remarks
1	2	3	4	5
6.6.2008	6.00	0.00	0.00	
19.6.2008	6.00	127.910	0.00	
26.6.2008	6.00	129.190	0.00	
3.7.2008	6.00	130.000	0.00	
22.7.2008	6.00	132.130	267.020	
23.7.2008	6.00	131.950	288.105	
26.7.2008	6.00	132.310	233.240	
29.7.2008	6.00	131.890	372.669	
3.8.2008	6.00	132.100	181.524	
6.8.2008	6.00	131.890	210.606	
8.8.2008	6.00	131.690	185.745	
10.8.2008	6.00	131.440	197.286	
17.8.2008	6.00	132.220	150.580	
20.8.2008	6.00	132.390	51.441	
21.8.2008	6.00	132.800	131.608	
23.8.2008	6.00	132.370	**420.320****	**** Maximum Outflow**
28.8.2008	6.00	132.100	0.00	
2.9.2008	6.00	131.600	190.875	
4.9.2008	6.00	131.370	191.329	
10.9.2008	6.00	130.640	211.834	
11.9.2008	6.00	130.550	211.178	
18.9.2008	6.00	130.970	6.339	
24.9.2008	6.00	132.440	0.00	
28.9.2008	6.00	**133.240***	193.430	*** Maximum Reservoir Level**
30.9.2008	6.00	133.080	195.358	
3.10.2008	6.00	132.690	199.169	
5.10.2008	6.00	132.420	197.800	
11.10.2008	6.00	132.480	0.00	
14.10.2008	6.00	132.470	31.338	

IMPORTANT RESERVOIR LEVELS & OUTFLOW DATA DURING THE FLOOD SEASON OF 2008.

Name of Reservoir : Massanjore
Conservation Level : 121.34 M (398.00 Ft.)
Dead Storage Level : 106.37 M (349.00 Ft.)

Date	Time (in hours)	Reservoir Level (in M)	Outflow (in Cumecs)	Remarks
1	2	3	4	5
6.6.2008	6.00	0.000	0.000	
19.6.2008	6.00	111.008	0.000	
26.6.2008	6.00	111.740	0.000	
3.7.2008	6.00	113.279	0.000	
10.7.2008	6.00	116.053	0.000	
17.7.2008	6.00	118.247	0.000	
24.7.2008	6.00	119.664	0.000	
31.7.2008	6.00	119.847	100.790	
1.8.2008	6.00	119.756	91.583	
7.8.2008	6.00	119.177	123.764	
13.8.2008	6.00	120.122	275.264	
14.8.2008	6.00	120.122	275.264	
20.8.2008	6.00	120.487	182.318	
21.8.2008	6.00	120.366	**470.300****	**** Maximum Outflow**
29.8.2008	6.00	120.030	106.415	
31.9.2008	6.00	120.244	187.705	
4.9.2008	6.00	120.213	74.323	
7.9.2008	6.00	119.794	113.794	
11.9.2008	6.00	119.482	101.725	
13.9.2008	6.00	119.101	147.960	
18.9.2008	6.00	118.872	4.510	
24.9.2008	6.00	119.451	0.000	
30.9.2008	6.00	120.929	0.000	
9.10.2008	6.00	121.265	0.000	
13.10.2008	6.00	**121.31***	11.076	*** Maximum Reservoir Level**
15.10.2008	6.00	121.234	75.73	

IMPORTANT RESERVOIR LEVELS & OUTFLOW DATA DURING THE FLOOD SEASON OF 2008.

Name of Reservoir : Ex-Galudah
Conservation Level : xxxxxxxxxxxx
Dead Storage Level : xxxxxxxxxxxx

Date	Time (in hours)	Reservoir Level (in M)	Outflow (in Cumecs)	Remarks
1	2	3	4	5
6.6.2008	8.00 A.M.	0.00	0.00	
13.6.2008	8.00 A.M.	0.00	0.00	
24.6.2008	8.00 A.M.	85.50	590.00	
26.6.2008	8.00 A.M.	86.40	550.00	
10.7.2008	8.00 A.M.	**88.00***	**1895.000****	* Maximum Reservoir Level / ** Maximum Outflow
11.7.2008	8.00 A.M.	87.55	1685.000	
20.7.2008	8.00 A.M.	87.30	1470.000	
25.7.2008	8.00 A.M.	87.30	720.000	
30.7.2008	8.00 A.M.	86.90	1030.000	
1.8.2008	8.00 A.M.	87.20	1360.000	
10.8.2008	8.00 A.M.	87.00	1140.000	
16.8.2008	8.00 A.M.	87.10	1250.000	
21.8.2008	8.00 A.M.	87.70	1789.000	
29.8.2008	8.00 A.M.	86.40	560.000	
5.9.2008	8.00 A.M.	86.00	400.00	
15.9.2008	8.00 A.M.	86.00	400.00	
18.9.2008	8.00 A.M.	87.80	1811.000	
26.9.2008	8.00 A.M.	87.400	1580.000	
3.10.2008	8.00 A.M.	86.000	400.000	

IMPORTANT BARRAGE LEVELS & DISCHARGE DATA DURING THE FLOOD SEASON OF 2008.

Name of Barrage: Durgapur.

Date	Time (in hours)	Barrage Level (in M)	Discharge (in Cumecs)	Remarks
1	2	3	4	5
19.6.2008	6.00	64.465	676.848	
20.6.2008	6.00	64.465	737.736	
24.6.2008	6.00	64.465	608.880	
3.7.2008	6.00	64.465	623.040	
5.7.2008	6.00	64.465	772.156	
9.7.2008	6.00	64.312	1728.228	
12.7.2008	6.00	64.312	2431.272	
22.7.2008	6.00	64.312	**2608.970****	** Maximum Discharge
27.7.2008	6.00	64.312	1494.588	
1.8.2008	6.00	64.312	745.524	
4.8.2008	6.00	64.312	620.916	
12.8.2008	6.00	64.465	669.768	
15.8.2008	6.00	**64.465***	1037.928	* Maximum Barrage Level
20.8.2008	6.00	64.312	1617.072	
30.8.2008	6.00	64.465	717.127	
6.9.2008	6.00	64.465	570.648	
11.9.2008	6.00	64.465	304.440	
19.9.2008	6.00	64.465	316.541	
27.9.2008	6.00	64.465	942.724	
6.10.2008	6.00	64.465	199.91	
9.10.2008	6.00	64.465	179.832	

IMPORTANT BARRAGE LEVELS & DISCHARGE DATA DURING THE FLOOD SEASON OF 2008.

Name of Barrage : Tilpara

Date	Time (in hours)	Barrage Level (in M)	Discharge (in Cumecs)	Remarks
1	2	3	4	5
21.6.2008	6.00	58.064	0.00	
27.6.2008	6.00	58.064	0.00	
6.7.2008	6.00	59.131	0.00	
16.7.2008	6.00	59.259	199.655	
17.7.2008	6.00	58.826	234.147	
18.7.2008	6.00	61.966	234.147	
19.7.2008	6.00	62.330	62.330	
30.7.2008	6.00	62.667	60.861	
31.7.2008	6.00	62.580	101.331	
1.8.2008	6.00	62.667	98.537	
3.8.2008	6.00	62.606	181.523	
9.8.2008	6.00	62.667	100.490	
13.8.2008	6.00	62.210	425.819	
14.8.2008	6.00	62.210	425.819	
16.8.2008	6.00	62.484	182.420	
23.8.2008	6.00	62.210	**2485.291****	** Maximum Discharge
26.8.2008	6.00	62.545	5.522	
30.8.2008	6.00	**62.700***	146.801	* Maximum Barrage Level
4.9.2008	6.00	62.789	101.924	
9.9.2008	6.00	62.636	116.667	
15.9.2008	6.00	62.636	129.989	
16.9.2008	6.00	62.728	121.850	
20.9.2008	6.00	62.636	107.213	
27.9.2008	6.00	62.606	67.823	
30.9.2008	6.00	62.545	147.423	
6.10.2008	6.00	62.575	136.23	
9.10.2008	6.00	62.332	NIL	
12.10.2008	6.00	61.631	22.65	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Sankosh	L.R.P.Crossing	10.6.2008	45.60	10.00	
Warning Level		15.6.2008	46.10	10.00	
E.D.L.	49.10	19.6.2008	46.60	10.00	
D.L.	48.20	2.7.2008	46.15	10.00	
		5.7.2008	46.85	10.00	
		16.7.2008	46.50	10.00	
		23.7.2008	47.25	10.00	
		24.7.2008	46.90	10.00	
		7.8.2008	46.40	10.00	
		12.8.2008	46.40	10.00	
		18.8.2008	46.90	10.00	
		22.8.2008	46.60	10.00	
		29.8.2008	*47.45**	10.00	* This year's highest level.
		5.9.2008	46.60	10.00	
		15.9.2008	46.05	10.00	
		19.9.2008	45.80	10.00	
		30.9.2008	45.80	10.00	
		3.10.2008	45.75	10.00	
		10.10.2008	45.65	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Raidak-I	**L.R.P.Crossing**	6.6.2008	43.69	10.00	
Warning Level		14.6.2008	44.40	10.00	
E.D.L.	**47.60**	21.6.2008	44.14	10.00	
D.L.	**46.70**	26.6.2008	45.65	10.00	
		3.7.2008	45.04	10.00	
		12.7.2008	44.35	10.00	
		22.7.2008	***45.90****	10.00	*** This year's highest level.**
		25.7.2008	44.65	10.00	
		7.8.2008	44.50	10.00	
		8.8.2008	44.25	10.00	
		20.8.2008	45.40	10.00	
		26.8.2008	44.85	10.00	
		31.8.2008	45.85	10.00	
		5.9.2008	44.90	10.00	
		12.9.2008	44.00	10.00	
		20.9.2008	43.86	10.00	
		26.9.2008	43.80	10.00	
		3.10.2008	43.75	10.00	
		12.10.2008	43.75	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Raidak-II	L.R.P.Crossing	10.6.2008	45.80	10.00	
Warning Level		18.6.2008	46.00	10.00	
E.D.L.	49.00	21.6.2008	*48.40**	10.00	* Above D.L. & this year's highest level.
D.L.	48.10	2.7.2008	45.75	10.00	
		3.7.2008	46.25	10.00	
		12.7.2008	46.20	10.00	
		23.7.2008	47.05	10.00	
		25.7.2008	46.20	10.00	
		6.8.2008	46.60	10.00	
		12.8.2008	46.25	10.00	
		16.8.2008	46.65	10.00	
		26.8.2008	46.15	10.00	
		29.8.2008	47.40	10.00	
		5.9.2008	46.10	10.00	
		12.9.2008	45.75	10.00	
		25.9.2008	45.65	10.00	
		29.9.2008	45.70	10.00	
		4.10.2008	45.65	10.00	
		10.10.2008	45.60	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Torsa	Hasimara	10.6.2008	115.05	10.00	
Warning Level		15.6.2008	115.15	10.00	
E.D.L.	116.90	22.6.2008	116.05	10.00	
D.L.	116.30	2.7.2008	116.05	10.00	
		4.7.2008	115.95	10.00	
		11.7.2008	115.75	10.00	
		23.7.2008	***116.60****	10.00	*** Above D.L. & this year's highest level.**
		24.7.2008	116.10	10.00	
		4.8.2008	116.05	10.00	
		11.8.2008	115.95	10.00	
		17.8.2008	115.75	10.00	
		26.8.2008	115.80	10.00	
		31.8.2008	116.20	10.00	
		5.9.2008	115.65	10.00	
		12.9.2008	115.55	10.00	
		19.9.2008	115.20	10.00	
		26.9.2008	115.10	10.00	
		6.10.2008	115.10	10.00	
		12.10.2008	115.00	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Kaljani	**Alipurduar**	7.6.2008	42.70	10.00	
Warning Level		14.6.2008	43.50	10.00	
E.D.L.	**45.70**	21.6.2008	43.15	10.00	
D.L.	**45.10**	2.7.2008	43.50	10.00	
		4.7.2008	44.30	10.00	
		16.7.2008	43.60	10.00	
		23.7.2008	44.35	10.00	
		26.7.2008	44.20	10.00	
		6.8.2008	44.24	10.00	
		14.8.2008	43.50	10.00	
		20.8.2008	43.95	10.00	
		26.8.2008	43.95	10.00	
		29.8.2008	***44.65****	10.00	*** This year's highest level.**
		6.9.2008	43.95	10.00	
		12.9.2008	43.20	10.00	
		19.9.2008	43.00	10.00	
		30.9.2008	43.00	10.00	
		4.10.2008	42.90	10.00	
		10.10.2008	42.85	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Jaldhaka	N.H.-31	10.6.2008	79.32	10.00	
Warning Level		14.6.2008	79.40	10.00	
E.D.L.	80.50	22.6.2008	79.86	10.00	
D.L.	80.00	2.7.2008	79.94	10.00	
		6.7.2008	*80.09**	10.00	*Above D.L. & this year's highest level.
		15.7.2008	79.76	10.00	
		23.7.2008	80.04	10.00	
		25.7.2008	79.96	10.00	
		6.8.2008	79.81	10.00	
		11.8.2008	79.70	10.00	
		18.8.2008	79.95	10.00	
		26.8.2008	79.90	10.00	
		2.9.2008	79.99	10.00	
		6.9.2008	79.88	10.00	
		12.8.2008	79.38	10.00	
		24.9.2008	79.19	10.00	
		28.9.2008	79.12	10.00	
		9.10.2008	79.94	10.00	
		10.10.2008	79.05	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Diana	**Chengmari**	9.6.2008	198.95	10.00	
Warning Level		14.6.2008	199.00	10.00	
E.D.L.	**201.40**	22.6.2008	199.75	10.00	
D.L.	**200.50**	2.7.2008	199.60	10.00	
		4.7.2008	199.15	10.00	
		16.7.2008	198.85	10.00	
		23.7.2008	199.60	10.00	
		24.7.2008	199.25	10.00	
		7.8.2008	199.65	10.00	
		8.8.2008	198.95	10.00	
		19.8.2008	199.05	10.00	
		26.8.2008	199.10	10.00	
		1.9.2008	***199.95****	10.00	*** This year's highest level.**
		6.9.2008	199.35	10.00	
		12.9.2008	198.70	10.00	
		19.9.2008	198.55	10.00	
		26.9.2008	198.55	10.00	
		5.10.2008	198.55	10.00	
		10.10.2008	198.55	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mansai	**Mathabhanga**	6.6.2008	45.63	10.00	
Warning Level		15.6.2008	46.13	10.00	
E.D.L.	**48.70**	24.6.2008	46.50	10.00	
D.L.	**48.20**	2.7.2008	46.18	10.00	
		6.7.2008	47.02	10.00	
		16.7.2008	46.48	10.00	
		22.7.2008	47.34	10.00	
		24.7.2008	47.10	10.00	
		7.8.2008	46.70	10.00	
		8.8.2008	46.42	10.00	
		20.8.2008	46.94	10.00	
		27.8.2008	***47.64****	10.00	*** This year's highest level.**
		29.8.2008	47.51	10.00	
		5.9.2008	46.55	10.00	
		12.9.2008	45.46	10.00	
		19.9.2008	45.04	10.00	
		26.9.2008	44.87	10.00	
		7.10.2008	45.18	10.00	
		10.10.2008	44.84	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Teesta	Coronation Bridge	6.6.2008	145.80	10.00	
Warning Level		18.6.2008	148.70	10.00	
E.D.L.	151.80	20.6.2008	*149.00**	10.00	* This year's highest level.
D.L.	149.40	2.7.2008	148.20	10.00	
		6.7.2008	147.80	10.00	
		13.7.2008	148.25	10.00	
		22.7.2008	148.85	10.00	
		26.7.2008	148.50	10.00	
		4.8.2008	148.05	10.00	
		11.8.2008	148.20	10.00	
		16.8.2008	148.80	10.00	
		26.8.2008	147.90	10.00	
		29.8.2008	148.15	10.00	
		5.9.2008	148.00	10.00	
		12.9.2008	145.90	10.00	
		22.9.2008	146.05	10.00	
		28.9.2008	145.40	10.00	
		3.10.2008	145.25	10.00	
		10.10.2008	145.40	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Teesta	Domohani	11.6.2008	85.21	10.00	
Warning Level		14.6.2008	85.55	10.00	
E.D.L.	85.95	20.6.2008	85.77	10.00	
D.L.	85.65	30.6.2008	85.54	10.00	
		6.7.2008	85.67	10.00	
		15.7.2008	85.52	10.00	
		22.7.2008	85.77	10.00	
		24.7.2008	85.53	10.00	
		6.8.2008	85.58	10.00	
		8.8.2008	85.43	10.00	
		19.8.2008	85.82	10.00	
		27.8.2008	85.66	10.00	
		29.8.2008	85.93	10.00	
		5.9.2008	85.65	10.00	
		13.9.2008	85.24	10.00	
		23.9.2008	85.06	10.00	
		28.9.2008	85.00	10.00	
		8.10.2008	***85.98***	10.00	** Above E.D.L. & this year's highest level.
		11.10.2008	84.86	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mahananda	H.C.Road	9.6.2008	114.025	10.00	
Warning Level		14.6.2008	114.100	10.00	
E.D.L.	116.59	20.6.2008	115.20	10.00	
D.L.	115.97	27.6.2008	114.35	10.00	
		6.7.2008	114.60	10.00	
		11.7.2008	114.60	10.00	
		20.7.2008	114.60	10.00	
		25.7.2008	114.40	10.00	
		4.8.2008	115.60	10.00	
		10.8.2008	114.90	10.00	
		19.8.2008	115.30	10.00	
		26.8.2008	114.45	10.00	
		29.8.2008	114.70	10.00	
		10.9.2008	114.40	10.00	
		14.9.2008	***115.98****	10.00	*** Above D.L. & this year's highest level.**
		19.9.2008	113.95	10.00	
		30.9.2008	113.90	10.00	
		3.10.2008	115.05	10.00	
		10.10.2008	113.95	10.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mahananda	**Sonapur**	10.6.2008	73.98	06.00	
Warning Level		14.6.2008	74.98	06.00	
E.D.L.	**76.38**	20.6.2008	74.78	06.00	
D.L.	**75.77**	2.7.2008	74.68	06.00	
		6.7.2008	74.78	06.00	
		16.7.2008	74.78	06.00	
		22.7.2008	74.78	06.00	
		25.7.2008	74.38	06.00	
		6.8.2008	74.28	06.00	
		13.8.2008	74.65	06.00	
		20.8.2008	74.75	06.00	
		28.8.2008	74.48	06.00	
		29.8.2008	***74.99****	06.00	*** This year's highest level.**
		5.9.2008	74.20	06.00	
		12.9.2008	73.58	06.00	
		19.9.2008	73.30	06.00	
		28.9.2008	73.78	06.00	
		7.10.2008	73.78	06.00	
		10.10.2008	73.68	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mahanamda	**Jhawa**	23.6.2008	29.87	06.00	
Warning Level		30.6.2008	29.95	06.00	
E.D.L.	**32.010**	9.7.2008	31.34	06.00	
D.L.	**31.400**	14.7.2008	31.01	06.00	
		18.7.2008	31.20	06.00	
		26.7.2008	31.58	06.00	
		7.8.2008	30.96	06.00	
		10.8.2008	31.06	06.00	
		20.8.2008	31.89	06.00	
		22.8.2008	31.78	06.00	
		1.9.2008	***32.03***	06.00	**Above E.D.L. & this year's highest level.
		5.9.2008	31.71	06.00	
		13.9.2008	30.84	06.00	
		19.9.2008	29.60	06.00	
		1.10.2008	30.48	06.00	
		4.10.2008	29.82	06.00	
		10.10.2008	30.08	06.00	
				06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mahananda	**Dangraghat**	22.6.2008	35.09	06.00	
Warning Level		19.6.2008	24.74	06.00	
E.D.L.	**36.26**	8.7.2008	36.31	06.00	
D.L.	**35.65**	15.7.2008	35.56	06.00	
		18.7.2008	35.80	06.00	
		25.7.2008	36.27	06.00	
		7.8.2008	34.97	06.00	
		8.8.2008	35.49	06.00	
		20.8.2008	35.99	06.00	
		22.8.2008	36.02	06.00	
		1.9.2008	***36.39***	06.00	****Above E.D.L. & this year's highest level.**
		5.9.2008	35.92	06.00	
		13.9.2008	34.90	06.00	
		19.9.2008	34.02	06.00	
		1.10.2008	35.00	06.00	
		9.10.2008	34.39	06.00	
		10.10.2008	34.47	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mahananda	**Englishbazar**	18.6.2008	16.90	06.00	
Warning Level		19.6.2008	17.04	06.00	
E.D.L.	**23.50**	22.6.2008	16.90	06.00	
D.L.	**22.75**	2.7.2008	17.24	06.00	
		3.7.2008	***23.50***	06.00	**** Above E.D.L. & this year's highest level.**
		16.7.2008	18.65	06.00	
		23.7.2008	19.80	06.00	
		28.7.2008	20.30	06.00	
		1.8.2008	19.90	06.00	
		14.8.2008	19.77	06.00	
		21.8.2008	20.55	06.00	
		22.8.2008	20.60	06.00	
		3.9.2008	20.68	06.00	
		5.9.2008	20.77	06.00	
		12.9.2008	19.59	06.00	
		19.9.2008	18.00	06.00	
		29.9.2008	18.15	06.00	
		3.10.2008	19.25	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Sui	**Pazol**	10.6.2008	24.40	06.00	
Warning Level		18.6.2008	24.70	06.00	
E.D.L.	**28.00**	19.6.2008	24.97	06.00	
D.L.	**27.43**	2.7.2008	24.70	06.00	
		9.7.2008	24.92	06.00	
		16.7.2008	25.60	06.00	
		23.7.2008	26.45	06.00	
		25.7.2008	26.55	06.00	
		1.8.2008	25.85	06.00	
		8.8.2008	26.65	06.00	
		21.8.2008	26.45	06.00	
		22.8.2008	26.45	06.00	
		3.9.2008	26.20	06.00	
		5.9.2008	26.17	06.00	
		12.9.2008	25.30	06.00	
		19.9.2008	24.78	06.00	
		26.9.2008	*27.72**	06.00	*** Above D.L. & this year's highest level.**
		3.10.2008	25.50	06.00	
		10.10.2008	24.87	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Sui	Katchua	11.6.2008	21.00	06.00	
Warning Level		18.6.2008	21.65	06.00	
E.D.L.	26.090	19.6.2008	21.85	06.00	
D.L.	25.490	2.7.2008	21.10	06.00	
		9.7.2008	21.50	06.00	
		16.7.2008	22.30	06.00	
		23.7.2008	23.50	06.00	
		25.7.2008	23.75	06.00	
		1.8.2008	22.75	06.00	
		14.8.2008	22.90	06.00	
		20.8.2008	*23.84**	06.00	* This year's highest level.
		22.8.2008	23.82	06.00	
		3.9.2008	23.50	06.00	
		5.9.2008	23.48	06.00	
		12.9.2008	21.98	06.00	
		19.9.2008	21.55	06.00	
		1.10.2008	22.60	06.00	
		3.10.2008	22.60	06.00	
		10.10.2008	21.60	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Tangon	**Radhikapur**	11.8.2008	28.60	06.00	
Warning Level		15.6.2008	30.00	06.00	
E.D.L.	**34.05**	20.6.2008	28.90	06.00	
D.L.	**33.45**	2.7.2008	28.90	06.00	
		7.7.2008	30.40	06.00	
		15.7.2008	30.00	06.00	
		18.7.2008	30.50	06.00	
		24.7.2008	30.40	06.00	
		7.8.2008	29.10	06.00	
		14.8.2008	29.80	06.00	
		21.8.2008	31.00	06.00	
		22.8.2008	30.80	06.00	
		1.9.2008	***31.20****	06.00	*** This year's highest level.**
		5.9.2008	30.20	06.00	
		30.9.2008	29.40	06.00	
		3.10.2008	29.05	06.00	
		10.10.2008	28.65	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Tangon	**Banshihari**	16.6.2008	24.05	06.00	
Warning Level		20.6.2008	21.95	06.00	
E.D.L.	**26.21**	8.7.2008	23.90	06.00	
D.L.	**25.60**	16.7.2008	24.15	06.00	
		22.7.2008	23.55	06.00	
		25.7.2008	24.44	06.00	
		7.8.2008	22.60	06.00	
		14.8.2008	24.05	06.00	
		21.8.2008	24.70	06.00	
		22.8.2008	24.80	06.00	
		3.9.2008	***24.90****	06.00	*** This year's highest level.**
		5.9.2008	24.20	06.00	
		13.9.2008	23.35	06.00	
		25.9.2008	21.95	06.00	
		1.10.2008	23.35	06.00	
		3.10.2008	22.55	06.00	
		12.10.2008	21.85	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Nagore	Makdampur	11.6.2008	27.75	06.00	
Warning Level		18.6.2008	28.30	06.00	
E.D.L.	31.86	23.6.2008	28.45	06.00	
D.L.	31.54	1.7.2008	28.00	06.00	
		9.7.2008	28.85	06.00	
		10.7.2008	28.75	06.00	
		18.7.2008	29.90	06.00	
		26.7.2008	29.15	06.00	
		6.8.2008	28.70	06.00	
		8.8.2008	28.50	06.00	
		20.8.2008	***30.00****	06.00	*** This year's highest level.**
		22.8.2008	29.65	06.00	
		2.9.2008	28.20	06.00	
		5.9.2008	28.10	06.00	
		12.9.2008	27.75	06.00	
		19.9.2008	27.20	06.00	
		2.10.2008	27.70	06.00	
		3.10.2008	27.70	06.00	
		10.10.2008	26.80	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Kullick	Rly. Bridge	11.6.2008	25.90	06.00	
Warning Level		18.6.2008	27.75	06.00	
E.D.L.	32.69	19.6.2008	26.90	06.00	
D.L.	31.20	26.6.2008	26.50	06.00	
		9.7.2008	28.20	06.00	
		10.7.2008	28.30	06.00	
		21.7.2008	*29.00**	06.00	* This year's highest level.
		25.7.2008	28.82	06.00	
		6.8.2008	28.00	06.00	
		14.8.2008	27.70	06.00	
		21.8.2008	28.70	06.00	
		22.8.2008	28.80	06.00	
		3.9.2008	28.78	06.00	
		5.9.2008	28.65	06.00	
		12.9.2008	27.00	06.00	
		25.9.2008	26.95	06.00	
		2.10.2008	28.40	06.00	
		3.10.2008	28.40	06.00	
		10.10.2008	26.90	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Dauk	Chopra	6.6.2008	65.50	06.00	
Warning Level		20.6.2008	65.45	06.00	
E.D.L.	70.07	23.6.2008	65.45	06.00	
D.L.	69.46	2.7.2008	65.455	06.00	
		6.7.2008	67.705	06.00	
		16.7.2008	66.855	06.00	
		23.7.2008	66.825	06.00	
		26.7.2008	66.855	06.00	
		6.8.2008	67.36	06.00	
		14.8.2008	66.76	06.00	
		16.8.2008	66.93	06.00	
		28.8.2008	66.96	06.00	
		2.9.2008	***67.96****	06.00	*** This year's highest level.**
		10.9.2008	67.36	06.00	
		13.9.2008	66.66	06.00	
		22.9.2008	66.36	06.00	
		28.9.2008	66.46	06.00	
		3.10.2008	66.56	06.00	
		12.10.2008	66.46	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level(in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Gamari	**Itahar**	8.6.2008	24.06	06.00	
Warning Level		17.6.2008	24.40	06.00	
E.D.L.	**27.41**	20.6.2008	24.16	06.00	
D.L.	**26.82**	2.7.2008	24.12	06.00	
		6.7.2008	***28.30***	06.00	***Above E.D.L. & this year's highest level.**
		16.7.2008	24.48	06.00	
		23.7.2008	25.05	06.00	
		27.7.2008	26.05	06.00	
		4.8.2008	24.60	06.00	
		14.8.2008	24.40	06.00	
		21.8.2008	24.80	06.00	
		22.8.2008	24.75	06.00	
		30.8.2008	24.35	06.00	
		5.9.2008	24.05	06.00	
		12.9.2008	23.75	06.00	
		19.9.2008	23.40	06.00	
		2.10.2008	23.56	06.00	
		3.10.2008	23.56	06.00	
		10.10.2008	23.15	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Fulahar	**Teljana(protected)**	17.6.2008	24.05	06.00	
Warning Level		23.6.2008	24.90	06.00	
E.D.L.	**28.35**	2.7.2008	24.40	06.00	
D.L.	**27.43**	8.7.2008	27.40	06.00	
		15.7.2008	27.03	06.00	
		23.7.2008	27.59	06.00	
		25.7.2008	26.08	06.00	
		7.8.2008	27.54	06.00	
		8.8.2008	27.70	06.00	
		15.8.2008	27.82	06.00	
		22.8.2008	28.44	06.00	
		31.8.2008	***28.75***	06.00	**Above E.D.L. & this year's highest level.
		5.9.2008	28.04	06.00	
		12.9.2008	27.11	06.00	
		19.9.2008	25.70	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Fulahar	**Teljana(Unprotected)**	22.8.2008	***28.44***	06.00	**Above E.D.L & this year's highest level.**
Warning Level		12.9.2008	27.11	06.00	
E.D.L.	**27.43**	19.9.2008	25.70	06.00	
D.L.	**26.82**				

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Punarbhaba	Gangarampur	15.6.2008	23.85	06.00	
Warning Level		23.6.2008	22.35	06.00	
E.D.L.	26.42	26.6.2008	22.05	06.00	
D.L.	25.82	7.7.2008	23.90	06.00	
		16.7.2008	23.80	06.00	
		18.7.2008	24.65	06.00	
		25.7.2008	24.70	06.00	
		5.8.2008	23.85	06.00	
		14.8.2008	24.00	06.00	
		21.8.2008	24.45	06.00	
		22.8.2008	24.55	06.00	
		1.9.2008	*25.70**	06.00	* This year's highest level.
		5.9.2008	24.50	06.00	
		13.9.2008	22.95	06.00	
		22.9.2008	50.00	06.00	
		29.9.2008	22.35	06.00	
		6.10.2008	0.00	06.00	
		12.10.2008	0.00	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Atrai	**Balurghat**	15.6.2008	20.04	06.00	
Warning Level		24.6.2008	18.84	06.00	
E.D.L.	**23.75**	1.7.2008	18.74	06.00	
D.L.	**23.15**	8.7.2008	20.28	06.00	
		16.7.2008	20.48	06.00	
		18.7.2008	20.36	06.00	
		25.7.2008	21.69	06.00	
		7.8.2008	19.38	06.00	
		14.8.2008	20.44	06.00	
		15.8.2008	20.92	06.00	
		22.8.2008	20.60	06.00	
		1.9.2008	***22.18****	06.00	*** This year's highest level.**
		6.9.2008	20.68	06.00	
		13.9.2008	19.34	06.00	
		21.9.2008	21.09	06.00	
		29.9.2008	18.70	06.00	
		6.10.2008	0.00	06.00	
		12.10.2008	0.00	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Allahabad	26.7.2008	76.78	06.00	* This year's highest level.
Warning Level		10.8.2008	*78.64**	06.00	
E.D.L.	85.34	18.9.2008	0.00	06.00	
D.L.	84.73	25.9.2008	0.00	06.00	
		2.10.2008	0.00	06.00	
		9.10.2008	0.00	06.00	
		12.10.2008	0.00	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Benaras	26.7.2008	65.18	06.00	* This year's highest level.
Warning Level		10.8.2008	*67.21**	06.00	
E.D.L.	71.87	16.9.2008	0.00	06.00	
D.L.	71.26	25.9.2008	0.00	06.00	
		2.10.2008	0.00	06.00	
		9.10.2008	0.00	06.00	
		12.10.2008	0.00	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	**Patna**	23.6.2008	44.99	06.00	
Warning Level		2.7.2008	47.14	06.00	
E.D.L.	**49.21**	9.7.2008	47.84	06.00	
D.L.	**48.60**	11.7.2008	47.84	06.00	
		21.7.2008	48.33	06.00	
		28.7.2008	48.60	06.00	
		3.8.2008	48.63	06.00	
		14.8.2008	48.93	06.00	
		18.8.2008	49.25	06.00	
		24.8.2008	***49.31***	06.00	*** Above E.D.L. & this year's highest level.**
		29.8.2008	49.04	06.00	
		5.9.2008	48.59	06.00	
		12.9.2008	47.03	06.00	
		25.9.2008	46.78	06.00	
		30.9.2008	47.85	06.00	
		4.10.2008	47.20	06.00	
		10.10.2008	46.08	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	**Hatidah**	22.6.2008	36.82	06.00	
Warning Level		2.7.2008	39.64	06.00	
E.D.L.	**42.37**	9.7.2008	40.43	06.00	
D.L.	**41.76**	10.7.2008	40.43	06.00	
		21.7.2008	40.93	06.00	
		30.7.2008	41.23	06.00	
		3.8.2008	41.32	06.00	
		14.8.2008	41.55	06.00	
		21.8.2008	42.26	06.00	
		26.8.2008	42.42	06.00	
		29.8.2008	***42.77***	06.00	*** Above E.D.L. & this year's highest level.**
		5.9.2008	41.88	06.00	
		12.9.2008	40.46	06.00	
		25.9.2008	39.71	06.00	
		2.10.2008	41.11	06.00	
		4.10.2008	40.67	06.00	
		10.10.2008	39.24	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Munger	25.6.2008	33.88	06.00	
Warning Level		2.7.2008	36.10.	06.00	
E.D.L.	39.94	9.7.2008	37.02	06.00	
D.L.	39.33	12.7.2008	37.04	06.00	
		23.7.2008	37.55	06.00	
		30.7.2008	37.94	06.00	
		3.8.2008	38.00	06.00	
		14.8.2008	38.06	06.00	
		21.8.2008	38.67	06.00	
		26.8.2008	***38.25****	06.00	*** This year's highest level.**
		29.8.2008	38.64	06.00	
		5.9.2008	38.24	06.00	
		12.9.2008	36.79	06.00	
		25.9.2008	35.64	06.00	
		2.10.2008	37.28	06.00	
		4.10.2008	37.00	06.00	
		10.10.2008	35.62	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	**Bhagalpur**	25.6.2008	28.95	06.00	
Warning Level		2.7.2008	31.01	06.00	
E.D.L.	**34.29**	9.7.2008	32.02	06.00	
D.L.	**33.68**	11.7.2008	32.08	06.00	
		23.7.2008	32.72	06.00	
		30.7.2008	33.07	06.00	
		4.8.2008	33.11	06.00	
		14.8.2008	33.05	06.00	
		21.8.2008	33.68	06.00	
		26.8.2008	***33.79****	06.00	***This year's highest level.**
		29.8.2008	33.62	06.00	
		5.9.2008	33.34	06.00	
		12.9.2008	31.80	06.00	
		19.9.2008	30.47	06.00	
		2.10.2008	32.14	06.00	
		4.10.2008	31.94	06.00	
		10.10.2008	30.59	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Kalagaon	25.6.2008	27.55	06.00	
Warning Level		2.7.2008	29.34	06.00	
E.D.L.	31.70	9.7.2008	30.37	06.00	
D.L.	31.09	11.7.2008	30.41	06.00	
		23.7.2008	31.04	06.00	
		30.7.2008	31.48	06.00	
		3.8.2008	31.50	06.00	
		14.8.2008	31.39	06.00	
		21.8.2008	***31.97***	06.00	**Above E.D.L. & this year's highest level.
		22.8.2008	31.96	06.00	
		29.8.2008	31.77	06.00	
		5.8.2008	31.58	06.00	
		12.9.2008	30.19	06.00	
		19.9.2008	29.00	06.00	
		2.10.2008	30.33	06.00	
		4.10.2008	30.30	06.00	
		10.10.2008	29.07	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Manikchakghat	18.6.2008	21.88	06.00	
Warning Level		25.6.2008	23.00	06.00	
E.D.L.	25.54	2.7.2008	22.77	06.00	
D.L.	24.69	8.7.2008	24.85	06.00	
		11.7.2008	24.64	06.00	
		16.7.2008	24.70	06.00	
		23.7.2008	25.38	06.00	
		30.7.2008	25.34	06.00	
		1.8.2008	25.18	06.00	
		14.8.2008	24.86	06.00	
		21.8.2008	*25.44**	06.00	* Above D.L. & this year's highest level.
		21.8.2008	25.37	06.00	
		1.9.2008	25.25	06.00	
		5.9.2008	24.88	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Farakka	25.6.2008	19.10	06.00	
Warning Level		2.7.2008	20.86	06.00	
E.D.L.	22.85	9.7.2008	22.02	06.00	
D.L.	22.25	11.7.2008	22.06	06.00	
		23.7.2008	22.60	06.00	
		30.7.2008	23.00	06.00	
		4.8.2008	23.07	06.00	
		14.8.2008	22.86	06.00	
		21.8.2008	23.43	06.00	
		23.8.2008	23.56	06.00	
		4.9.2008	23.60	06.00	
		10.9.2008	***23.86***	06.00	**Above E.D.L. & this year's highest level.
		12.9.2008	22.43	06.00	
		19.9.2008	21.08	06.00	
		2.10.2008	22.04	06.00	
		4.10.2008	22.19	06.00	
		10.10.2008	21.05	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Nurpur	18.6.2008	14.76	06.00	
Warning Level		25.6.2008	16.99	06.00	
E.D.L.	21.64	2.7.2008	18.76	06.00	
D.L.	21.03	9.7.2008	19.76	06.00	
		15.7.2008	19.77	06.00	
		23.7.2008	20.58	06.00	
		30.7.2008	21.05	06.00	
		4.8.2008	20.97	06.00	
		14.8.2008	20.94	06.00	
		21.8.2008	21.64	06.00	
		22.8.2008	21.70	06.00	
		31.8.2008	21.71	06.00	
		5.9.2008	21.63	06.00	
		2.10.2008	***21.99***	06.00	* Above E.D.L. & this year's highest level.
		3.10.2008	21.26	06.00	
		10.10.2008	20.04	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Geria	18.6.2008	14.55	06.00	
Warning Level		25.6.2008	16.55	06.00	
E.D.L.	21.55	2.7.2008	18.48	06.00	
D.L.	20.94	9.7.2008	19.60	06.00	
		11.7.2008	19.60	06.00	
		23.7.2008	20.18	06.00	
		29.7.2008	20.57	06.00	
		1.8.2008	20.60	06.00	
		14.8.2008	20.42	06.00	
		21.8.2008	21.10	06.00	
		22.8.2008	21.18	06.00	
		3.9.2008	***21.19****	06.00	*** This year's highest level.**
		5.9.2008	21.06	06.00	
		12.9.2008	19.60	06.00	
		19.9.2008	18.30	06.00	
		2.10.2008	19.70	06.00	
		3.10.2008	19.70	06.00	
		10.10.2008	18.35	06.00	
				06.00	
				06.00	

GAUGE LEVELS OF IMPORTANT RIVERS
DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	**Chakghat**	25.6.2008	16.06	06.00	
Warning Level		2.7.2008	18.00	06.00	
E.D.L.	**21.49**	9.7.2008	19.10	06.00	
D.L.	**20.88**	11.7.2008	19.10	06.00	
		23.7.2008	19.68	06.00	
		30.7.2008	20.08	06.00	
		1.8.2008	20.10	06.00	
		14.8.2008	19.22	06.00	
		21.8.2008	20.61	06.00	
		22.8.2008	20.69	06.00	
		1.9.2008	20.69	06.00	
		5.9.2008	***21.60***	06.00	*** Above E.D.L. & this year's highest level.**
		2.10.2008	19.21	06.00	
		3.10.2008	19.21	06.00	
		10.10.2008	17.86	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Akherigunj	18.6.2008	12.65	06.00	
Warning Level		25.6.2008	13.68	06.00	
E.D.L.	19.05	2.7.2008	15.58	06.00	
D.L.	18.44	9.7.2008	16.43	06.00	
		12.7.2008	16.45	06.00	
		23.7.2008	16.87	06.00	
		30.7.2008	17.27	06.00	
		5.8.2008	17.51	06.00	
		14.8.2008	17.08	06.00	
		21.8.2008	17.74	06.00	
		23.8.2008	***17.82****	06.00	*** This year's highest level.**
		1.9.2008	17.81	06.00	
		5.9.2008	17.75	06.00	
		12.9.2008	16.51	06.00	
		19.9.2008	15.33	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Sabibganj	25.6.2008	24.71	06.00	
Warning Level		2.7.2008	25.82	06.00	
E.D.L.	----	9.7.2008	26.95	06.00	
D.L.	26.70	12.7.2008	27.03	06.00	
		23.7.2008	27.68	06.00	
		30.7.2008	28.12	06.00	
		2.8.2008	28.13	06.00	
		14.8.2008	27.93	06.00	
		21.8.2008	28.45	06.00	
		23.8.2008	***28.53***	06.00	
		29.8.2008	28.56	06.00	* Above E.D.L. & this year's highest level.
		5.9.2008	28.29	06.00	
		12.9.2008	26.83	06.00	
		19.9.2008	25.67	06.00	
		2.10.2008	26.71	06.00	
		4.10.2008	26.73	06.00	
		10.10.2008	25.49	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ganga	Nimtita	18.6.2008	15.29	06.00	
Warning Level		25.6.2008	17.51	06.00	
E.D.L.	22.51	23.7.2008	21.10	06.00	
D.L.	21.90	30.7.2008	21.54	06.00	
		2.8.2008	21.58	06.00	
		14.8.2008	21.45	06.00	
		22.8.2008	22.20	06.00	
		31.8.2008	***22.21****	06.00	*** Above D.L. & this year's highest level.**
		5.9.2008	22.12	06.00	
		12.9.2008	20.81	06.00	
		19.9.2008	20.11	06.00	
		2.10.2008	21.84	06.00	
		3.10.2008	21.80	06.00	
		10.10.2008	20.60	06.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Kuya	**Tarapur**	18.6.2008	18.04	6.00	
Warning Level		21.6.2008	18.63	6.00	
E.D.L.	**23.350**	1.7.2008	18.38	6.00	
D.L.	**22.710**	7.7.2008	20.61	6.00	
		10.7.2008	19.84	6.00	
		19.7.2008	21.08	6.00	
		24.7.2008	20.56	6.00	
		4.8.2008	18.73	6.00	
		14.8.2008	21.12	6.00	
		16.8.2008	***21.17****	6.00	*** This year's highest level**
		22.8.2008	20.09	6.00	
		15.9.2008	19.95	6.00	
		21.9.2008	20.27	6.00	
		1.10.2008	19.90	6.00	
		3.10.2008	19.50	6.00	
		12.10.2008	18.85	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Pagla	**Bansloi**	16.6.2008	27.53	6.00	
Warning Level		22.6.2008	27.42	6.00	
E.D.L.	**32.76**	28.6.2008	27.98	6.00	
D.L.	**31.85**	4.7.2008	***29.26****	6.00	*** This year's highest level**
		12.7.2008	28.95	6.00	
		19.7.2008	28.65	6.00	
		24.7.2008	28.05	6.00	
		2.8.2008	27.43	6.00	
		12.8.2008	29.10	6.00	
		20.8.2008	29.10	6.00	
		22.8.2008	27.80	6.00	
		30.8.2008	27.28	6.00	
		7.9.2008	27.13	6.00	
		18.9.2008	27.20	6.00	
		19.9.2008	27.58	6.00	
		29.9.2008	29.25	6.00	
		8.10.2008	27.28	6.00	
		10.10.2008	26.65	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Brahmoni	A.D.B. Road Bridge	13.6.2008	27.85	6.00	
Warning Level		19.6.2008	27.85	6.00	
E.D.L.	33.40	1.7.2008	28.17	6.00	
D.L.	33.00	3.7.2008	28.70	6.00	
		16.7.2008	30.00	6.00	
		19.7.2008	*30.96**	6.00	* This year's highest level
		24.7.2008	28.52	6.00	
		1.8.2008	27.77	6.00	
		13.8.2008	29.90	6.00	
		16.8.2008	28.37	6.00	
		22.8.2008	28.22	6.00	
		30.8.2008	28.70	6.00	
		5.9.2008	27.77	6.00	
		12.9.2008	27.15	6.00	
		20.9.2008	27.38	6.00	
		30.9.2008	27.85	6.00	
		3.10.2008	27.61	6.00	
		10.10.2008	27.05	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Dwarka	Sankoghat	17.6.2008	15.47	6.00	
Warning Level		23.6.2008	15.80	6.00	
E.D.L.	21.30	7.7.2008	20.25	6.00	
D.L.	20.42	16.7.2008	19.95	6.00	
		18.7.2008	20.56	6.00	
		24.7.2008	19.60	6.00	
		3.8.2008	16.90	6.00	
		14.8.2008	*20.61**	6.00	* Above D.L & this year's highest level
		15.8.2008	20.19	6.00	
		22.8.2008	18.80	6.00	
		31.8.2008	19.30	6.00	
		6.9.2008	17.34	6.00	
		18.9.2008	17.10	6.00	
		21.9.2008	18.40	6.00	
		30.9.2008	19.45	6.00	
		3.10.2008	17.60	6.00	
		10.10.2008	16.50	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Dwarka	Ranagram	2.7.2008	14.70	6.00	* Above EDL & this year's highest level
Warning Level		8.7.2008	16.51	6.00	
E.D.L.	17.86	10.7.2008	16.15	6.00	
D.L.	17.36	18.7.2008	*19.59***	6.00	
		24.7.2008	16.76	6.00	
		1.8.2008	14.60	6.00	
		14.8.2008	16.38	6.00	
		16.8.2008	16.65	6.00	
		22.8.2008	16.35	6.00	
		2.9.2008	15.64	6.00	
		5.9.2008	15.06	6.00	
		16.9.2008	14.18	6.00	
		21.9.2008	15.02	6.00	
		1.10.2008	15.43	6.00	
		3.10.2008	14.94	6.00	
		10.10.2008	13.45	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mayurakshi	**Narayanpur**	17.6.2008	23.50	6.00	
Warning Level		20.6.2008	23.52	6.00	
E.D.L.	**28.79**	2.7.2008	23.80	6.00	
D.L.	**27.99**	7.7.2008	24.62	6.00	
		16.7.2008	25.45	6.00	
		17.7.2008	24.64	6.00	
		25.7.2008	24.32	6.00	
		7.8.2008	23.38	6.00	
		14.8.2008	25.34	6.00	
		21.8.2008	***25.53****	6.00	*** This year's highest level**
		22.8.2008	24.83	6.00	
		30.8.2008	24.10	6.00	
		5.9.2008	23.62	6.00	
		18.9.2008	24.13	6.00	
		20.9.2008	24.23	6.00	
		30.9.2008	24.80	6.00	
		6.10.2008	23.85	6.00	
		10.10.2008	23.54	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ajoy	Sikatia	21.6.2008	162.61	6.00	
Warning Level		30.6.2008	163.09	6.00	
E.D.L.	166.24	5.7.2008	*164.65**	6.00	* This year's highest level
D.L.	165.64	16.7.2008	164.16	6.00	
		22.7.2008	163.91	6.00	
		25.7.2008	163.93	6.00	
		3.8.2008	163.71	6.00	
		13.8.2008	163.90	6.00	
		15.8.2008	164.35	6.00	
		22.8.2008	163.75	6.00	
		29.8.2008	163.20	6.00	
		7.9.2008	162.85	6.00	
		16.9.2008	162.80	6.00	
		19.9.2008	163.20	6.00	
		29.9.2008	163.28	6.00	
		3.10.2008	162.78	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ajoy	Katwa	18.6.2008	10.90	6.00	
Warning Level		21.6.2008	11.50	6.00	
E.D.L.	15.182	2.7.2008	11.65	6.00	
D.L.	14.481	7.7.2008	13.20	6.00	
		16.7.2008	13.15	6.00	
		24.7.2008	*13.39**	6.00	* This year's highest level
		1.8.2008	11.95	6.00	
		14.8.2008	13.15	6.00	
		17.8.2008	13.30	6.00	
		22.8.2008	13.15	6.00	
		1.9.2008	11.80	6.00	
		5.9.2008	11.37	6.00	
		18.9.2008	10.58	6.00	
		25.9.2008	11.35	6.00	
		1.10.2008	12.00	6.00	
		4.10.2008	11.45	6.00	
		10.10.2008	10.77	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ajoy	Gheropara	21.6.2008	36.46	6.00	
Warning Level		2.7.2008	36.42	6.00	
E.D.L.	40.46	6.7.2008	38.00	6.00	
D.L.	39.41	15.7.2008	*38.05**	6.00	* This year's highest level
		17.7.2008	37.83	6.00	
		24.7.2008	37.39	6.00	
		1.8.2008	36.77	6.00	
		14.8.2008	37.72	6.00	
		21.8.2008	37.76	6.00	
		22.8.2008	37.30	6.00	
		30.8.2008	36.95	6.00	
		8.9.2008	36.74	6.00	
		18.9.2008	36.47	6.00	
		24.9.2008	36.88	6.00	
		27.9.2008	36.94	6.00	
		3.10.2008	36.45	6.00	
		10.10.2008	36.37	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ajoy	Budra	10.6.2008	36.37	6.00	
Warning Level		17.6.2008	36.83	6.00	
E.D.L.	40.341	19.6.2008	37.13	6.00	
D.L.	39.426	2.7.2008	36.64	6.00	
		6.7.2008	*38.27**	6.00	* This year's highest level
		15.7.2008	38.26	6.00	
		17.7.2008	37.18	6.00	
		24.7.2008	37.58	6.00	
		2.8.2008	36.89	6.00	
		13.8.2008	37.92	6.00	
		21.8.2008	37.92	6.00	
		22.8.2008	37.44	6.00	
		31.8.2008	36.92	6.00	
		6.9.2008	36.58	6.00	
		18.9.2008	36.55	6.00	
		24.9.2008	36.98	6.00	
		27.9.2008	37.04	6.00	
		6.10.2008	36.61	6.00	
		11.10.2008	36.37	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Damodar	**Randia**	11.6.2008	48.185	6.00	
Warning Level		18.6.2008	49.587	6.00	
E.D.L.	**52.893**	20.6.2008	49.679	6.00	
D.L.	**52.134**	29.6.2008	49.618	6.00	
		6.7.2008	50.075	6.00	
		12.7.2008	50.288	6.00	
		21.7.2008	***50.380****	6.00	*** This year's highest level**
		24.7.2008	49.984	6.00	
		2.8.2008	49.65	6.00	
		12.8.2008	49.68	6.00	
		21.8.2008	50.11	6.00	
		23.8.2008	50.35	6.00	
		30.8.2008	49.71	6.00	
		5.9.2008	49.68	6.00	
		14.9.2008	49.56	6.00	
		23.9.2008	49.71	6.00	
		27.9.2008	49.83	6.00	
		3.10.2008	49.68	6.00	
		10.10.2008	49.65	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Damodar	**Edilpur**	11.6.2008	28.21	6.00	
Warning Level		18.6.2008	28.54	6.00	
E.D.L.	**32.95**	21.6.2008	29.68	6.00	
D.L.	**32.79**	30.6.2008	29.65	6.00	
		11.6.2008	28.21	6.00	
		18.6.2008	28.54	6.00	
		21.6.2008	29.68	6.00	
		30.6.2008	29.65	6.00	
		9.7.2008	30.04	6.00	
		13.7.2008	30.91	6.00	
		22.7.2008	***31.06****	6.00	*** This year's highest level**
		24.7.2008	30.25	6.00	
		1.8.2008	29.14	6.00	
		13.8.2008	29.35	6.00	
		21.8.2008	30.11	6.00	
		27.8.2008	30.66	6.00	
		1.9.2008	28.66	6.00	
		5.9.2008	28.60	6.00	
		14.9.2008	28.48	6.00	
		22.9.2008	29.08	6.00	
		27.9.2008	29.82	6.00	
		3.10.2008	29.17	6.00	
		10.10.2008	28.96	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Damodar	**Jamalpur**	11.6.2008	16.83	6.00	
Warning Level		18.6.2008	17.13	6.00	
E.D.L.	**23.542**	21.6.2008	18.39	6.00	
D.L.	**23.237**	1.7.2008	18.18	6.00	
		9.7.2008	19.38	6.00	
		12.7.2008	20.13	6.00	
		22.7.2008	***20.43****	6.00	*** This year's highest level**
		24.7.2008	19.59	6.00	
		3.8.2008	18.39	6.00	
		13.8.2008	18.63	6.00	
		21.8.2008	19.77	6.00	
		23.8.2008	20.10	6.00	
		31.8.2008	18.18	6.00	
		5.9.2008	17.28	6.00	
		12.9.2008	16.98	6.00	
		20.9.2008	17.43	6.00	
		26.9.2008	18.58	6.00	
		3.10.2008	16.98	6.00	
		11.10.2008	16.89	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Damodar	**Amta**	18.6.2008	3.03	6.00	
Warning Level		21.6.2008	3.90	6.00	
E.D.L.	**6.24**	2.7.2008	3.70	6.00	
D.L.	**5.64**	9.7.2008	4.60	6.00	
		13.7.2008	5.66	6.00	
		23.7.2008	***5.99****	6.00	*** Above D.L. & this year's highest level.**
		24.7.2008	5.71	6.00	
		1.8.2008	4.00	6.00	
		14.8.2008	3.40	6.00	
		21.8.2008	4.80	6.00	
		24.8.2008	5.55	6.00	
		2.9.2008	3.57	6.00	
		11.9.2008	3.45	6.00	
		12.9.2008	3.40	6.00	
		20.9.2008	3.15	6.00	
		28.9.2008	4.60	6.00	
		3.10.2008	3.60	6.00	
		10.10.2008	2.84	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Damodar	**Champadanga**	10.6.2008	9.23	6.00	
Warning Level		18.6.2008	9.84	6.00	
E.D.L.	**13.50**	21.6.2008	11.03	6.00	
D.L.	**12.89**	26.6.2008	10.42	6.00	
		9.7.2008	11.97	6.00	
		13.7.2008	12.46	6.00	
		22.7.2008	***12.74****	6.00	*** This year's highest level.**
		24.7.2008	11.98	6.00	
		1.8.2008	10.67	6.00	
		13.8.2008	10.70	6.00	
		21.8.2007	11.67	6.00	
		24.8.2008	12.19	6.00	
		31.8.2008	10.21	6.00	
		7.9.2008	9.69	6.00	
		12.9.2008	9.48	6.00	
		20.9.2008	9.69	6.00	
		28.9.2008	10.64	6.00	
		4.10.2008	9.17	6.00	
		11.10.2008	8.99	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mundeswari	**Harinkhola**	11.6.2008	6.66	6.00	
Warning Level		18.6.2008	7.42	6.00	
E.D.L.	**13.41**	21.6.2008	9.43	6.00	
D.L.	**12.60**	26.6.2008	8.86	6.00	
		9.7.2008	10.08	6.00	
		12.7.2008	11.79	6.00	
		22.7.2008	***11.98****	6.00	*** This year's highest level.**
		24.7.2008	11.00	6.00	
		3.8.2008	10.54	6.00	
		13.8.2008	8.88	6.00	
		21.8.2008	10.75	6.00	
		24.8.2008	11.29	6.00	
		12.9.2008	7.31	6.00	
		20.9.2008	7.78	6.00	
		28.9.2008	9.47	6.00	
		3.10.2008	7.38	6.00	
		10.10.2008	6.50	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level(in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Dwarakeswar	**Arambag**	10.6.2008	11.43	6.00	
Warning Level		18.6.2008	11.54	6.00	
E.D.L.	**17.83**	20.6.2008	12.77	6.00	
D.L.	**17.22**	2.7.2008	11.73	6.00	
		7.7.2008	11.73	6.00	
		15.7.2008	12.92	6.00	
		21.7.2008	***13.84****	6.00	***This year's highest level.**
		25.7.2008	11.85	6.00	
		3.8.2008	11.88	6.00	
		13.8.2008	11.88	6.00	
		21.8.2008	12.10	6.00	
		23.8.2008	11.76	6.00	
		18.9.2008	11.73	6.00	
		20.9.2008	11.98	6.00	
		30.9.2008	11.80	6.00	
		3.10.2008	11.73	6.00	
		10.10.2008	11.73	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level(in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Dwarakeswar	Shakepur	10.6.2008	7.00	6.00	
Warning Level		18.6.2008	7.00	6.00	
E.D.L.	12.74	20.6.2008	9.16	6.00	
D.L.	11.74	2.7.2008	7.20	6.00	
		5.7.2008	7.55	6.00	
		16.7.2008	9.39	6.00	
		21.7.2008	***10.11****	6.00	* This year's highest level.
		25.7.2008	8.35	6.00	
		3.8.2008	7.94	6.00	
		13.8.2008	8.12	6.00	
		21.8.2008	8.57	6.00	
		23.8.2008	8.38	6.00	
		1.9.2008	7.55	6.00	
		5.9.2008	7.40	6.00	
		18.9.2008	7.55	6.00	
		20.9.2008	8.26	6.00	
		28.9.2008	8.10	6.00	
		3.10.2008	7.40	6.00	
		10.10.2008	7.40	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Silabati	**Gadghat**	21.6.2008	***7.98****	6.00	*** This year's highest level.**
Warning Level		26.6.2008	6.80	6.00	
E.D.L.	**9.60**	9.7.2008	6.47	6.00	
D.L.	**8.99**	16.7.2008	7.28	6.00	
		23.7.2008	7.96	6.00	
		24.7.2008	7.68	6.00	
		1.8.2008	6.37	6.00	
		14.8.2008	6.76	6.00	
		16.8.2008	6.80	6.00	
		23.8.2008	6.92	6.00	
		2.9.2008	5.67	6.00	
		7.9.2008	5.35	6.00	
		18.9.2008	5.82	6.00	
		20.9.2008	6.97	6.00	
		28.9.2008	6.73	6.00	
		3.10.2008	4.49	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Silabati	**Banka**	22.6.2008	14.03	6.00	
Warning Level		1.7.2008	12.93	6.00	
E.D.L.	**15.68**	7.7.2008	13.57	6.00	
D.L.	**15.08**	16.7.2008	13.84	6.00	
		21.7.2008	***14.85****	6.00	*** This year's highest level.**
		26.7.2008	12.60	6.00	
		2.8.2008	12.38	6.00	
		13.8.2008	13.14	6.00	
		21.8.2008	14.36	6.00	
		22.8.2008	13.27	6.00	
		30.8.2008	12.17	6.00	
		7.9.2008	12.29	6.00	
		18.9.2008	12.96	6.00	
		19.9.2008	13.94	6.00	
		26.9.2008	13.84	6.00	
		4.10.2008	11.89	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Kangsabati	Mohanpur	18.6.2008	23.72	6.00	
Warning Level		20.6.2008	24.50	6.00	
E.D.L.	25.72	1.7.2008	24.04	6.00	
D.L.	24.72	8.7.2008	24.92	6.00	
		16.7.2008	*24.52**	6.00	* This year's highest level.
		17.7.2008	24.48	6.00	
		25.7.2008	23.60	6.00	
		1.8.2008	22.30	6.00	
		12.8.2008	22.78	6.00	
		17.8.2008	22.40	6.00	
		23.8.2008	23.10	6.00	
		3.8.2008	21.84	6.00	
		5.9.2008	21.62	6.00	
		18.9.2008	22.94	6.00	
		19.9.2008	23.20	6.00	
		26.9.2008	22.64	6.00	
		9.10.2008	22.54	6.00	
		10.10.2008	22.46	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Kangsabati	**Kalmijore**	19.6.2008	***10.00***	6.00	***Above EDL & this year's highest level**
Warning Level		26.8.2008	7.38	6.00	
E.D.L.	**9.90**	8.7.2008	7.68	6.00	
D.L.	**9.29**	13.7.2008	8.01	6.00	
		20.7.2008	9.05	6.00	
		26.7.2008	8.35	6.00	
		1.8.2008	7.32	6.00	
		13.8.2008	7.89	6.00	
		15.8.2008	7.47	6.00	
		24.8.2008	8.44	6.00	
		31.8.2008	6.98	6.00	
		7.9.2008	7.01	6.00	
		18.9.2008	7.50	6.00	
		20.9.2008	8.68	6.00	
		27.9.2008	7.53	6.00	
		3.10.2008	6.37	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Kangsabati	Panskura	19.6.2008	*10.20***	6.00	*Above EDL & this year's highest level.
Warning Level		20.7.2008	8.50	6.00	
E.D.L.	9.90	24.7.2008	7.45	6.00	
D.L.	9.29	13.8.2008	6.45	6.00	
		24.8.2008	7.60	6.00	
		1.9.2008	0.00	6.00	
		8.9.2008	0.00	6.00	
		15.9.2008	0.00	6.00	
		20.9.2008	8.03	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Kaliaghai	**Amgachia**	18.6.2008	7.63	6.00	*** Above EDL & this year's highest level.**
Warning Level		19.6.2008	***8.00*****	6.00	
E.D.L.	**6.40**	26.6.2008	4.82	6.00	
D.L.	**5.79**	5.7.2008	4.59	6.00	
		10.7.2008	4.42	6.00	
		22.7.2008	5.18	6.00	
		30.7.2008	5.13	6.00	
		1.8.2008	5.15	6.00	
		14.8.2008	5.90	6.00	
		15.8.2008	5.84	6.00	
		22.8.2008	5.25	6.00	
		1.9.2008	4.72	6.00	
		8.9.2008	4.78	6.00	
		18.9.2008	5.56	6.00	
		20.9.2008	6.20	6.00	
		26.9.2008	5.63	6.00	
		3.10.2008	4.83	6.00	
		10.10.2008	4.45	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Jalangi	**Swarupganj**	13.6.2008	5.94	6.00	
Warning Level		23.6.2008	6.35	6.00	
E.D.L.	**9.05**	2.7.2008	6.29	6.00	
D.L.	**8.44**	9.7.2008	8.17	6.00	
		10.7.2008	8.12	6.00	
		23.7.2008	8.79	6.00	
		24.7.2008	8.86	6.00	
		1.8.2008	8.14	6.00	
		14.8.2008	8.40	6.00	
		18.8.2008	8.85	6.00	
		24.8.2008	***8.88****	6.00	***Above D.L. & this year's highest level.**
		2.9.2008	8.23	6.00	
		5.9.2008	8.04	6.00	
		12.9.2008	7.30	6.00	
		22.9.2008	7.43	6.00	
		2.10.2008	8.21	6.00	
		3.10.2008	8.25	6.00	
		10.10.2008	7.22	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Churni	Hanskhali	18.6.2008	3.46	6.00	
Warning Level		22.6.2008	3.80	6.00	
E.D.L.	8.14	2.7.2008	4.08	6.00	
D.L.	7.53	9.7.2008	5.26	6.00	
		16.7.2008	5.60	6.00	
		22.7.2008	6.54	6.00	
		27.7.2008	6.63	6.00	
		1.8.2008	6.22	6.00	
		8.8.2008	5.83	6.00	
		21.8.2008	6.38	6.00	
		23.8.2008	6.40	6.00	
		3.9.2008	6.28	6.00	
		5.9.2008	6.18	6.00	
		12.9.2008	5.59	6.00	
		19.9.2008	5.35	6.00	
		1.10.2008	7.46	6.00	
		3.10.2008	*7.58**	6.00	*Above D.L. & this year's highest level
		10.10.2008	7.25	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Bhagirathi	**Jangipur**	18.6.2008	18.06	6.00	
Warning Level		22.6.2008	18.20	6.00	
E.D.L.	**20.88**	28.6.2008	18.16	6.00	
D.L.	**20.27**	9.7.2008	19.29	6.00	
		10.7.2008	19.29	6.00	
		20.7.2008	***19.48****	6.00	***This year's highest level**
		24.7.2008	19.37	6.00	
		3.8.2008	18.79	6.00	
		14.8.2008	19.07	6.00	
		18.8.2008	19.46	6.00	
		22.8.2008	19.28	6.00	
		1.9.2008	18.88	6.00	
		6.9.2008	18.66	6.00	
		12.9.2008	17.98	6.00	
		25.9.2008	18.26	6.00	
		1.10.2008	18.54	6.00	
		3.10.2008	18.30	6.00	
		11.10.2008	18.07	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Bhagirathi	**Berhampore**	17.6.2008	14.79	6.00	
Warning Level		23.6.2008	14.85	6.00	
E.D.L.	**17.83**	2.7.2008	14.78	6.00	
D.L.	**17.22**	9.7.2008	16.02	6.00	
		10.7.2008	16.00	6.00	
		23.7.2008	16.20	6.00	
		24.7.2008	16.20	6.00	
		2.8.2008	15.50	6.00	
		14.8.2008	15.76	6.00	
		18.8.2008	16.20	6.00	
		22.8.2008	16.80	6.00	
		2.9.2008	15.58	6.00	
		6.9.2008	***18.35***	6.00	**** Above E.D.L. & this year's highest level**
		12.9.2008	14.80	6.00	
		25.9.2008	14.98	6.00	
		2.10.2008	15.31	6.00	
		3.10.2008	15.20	6.00	
		11.10.2008	14.84	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Bhagirathi	**Katwa**	8.6.2008	9.84	6.00	
Warning Level		12.6.2008	9.87	6.00	
E.D.L.	**14.32**	22.6.2008	10.16	6.00	
D.L.	**13.71**	2.7.2008	10.33	6.00	
		8.7.2008	12.24	6.00	
		16.7.2008	12.29	6.00	
		23.7.2008	12.78	6.00	
		24.7.2008	***12.79****	6.00	*** This year's highest level**
		1.8.2008	11.44	6.00	
		14.8.2008	12.40	6.00	
		17.8.2008	12.66	6.00	
		23.6.2008	12.65	6.00	
		1.9.2008	11.55	6.00	
		5.9.2008	11.15	6.00	
		12.9.2008	10.34	6.00	
		22.9.2008	10.92	6.00	
		2.10.2008	11.39	6.00	
		4.10.2008	11.05	6.00	
		10.10.2008	10.24	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Bhagirathi	**Kalna**	11.6.2008	4.81	6.00	
Warning Level		18.6.2008	5.04	6.00	
E.D.L.	**8.24**	21.6.2008	5.63	6.00	
D.L.	**7.63**	26.6.2008	4.305	6.00	
		21.7.2008	6.46	6.00	
		24.7.2008	***6.68****	6.00	*** This year's highest level**
		1.8.2008	6.09	6.00	
		14.8.2008	6.15	6.00	
		19.8.2008	6.66	6.00	
		24.8.2008	6.67	6.00	
		3.9.2008	6.18	6.00	
		5.9.2008	5.99	6.00	
		12.9.2008	5.23	6.00	
		19.9.2008	5.51	6.00	
		2.10.2008	6.33	6.00	
		3.10.2008	6.30	6.00	
		10.10.2008	5.27	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Rupnarayan	Bandar	22.6.2008	6.37	6.00	
Warning Level		2.7.2008	5.12	6.00	
E.D.L.	7.46	3.7.2008	5.12	6.00	
D.L.	6.85	16.7.2008	6.30	6.00	* Above D.L. & this year's highest level
		23.7.2008	*6.88**	6.00	
		24.7.2008	6.46	6.00	
		1.8.2008	4.78	6.00	
		14.8.2008	5.21	6.00	
		19.8.2008	5.81	6.00	
		23.8.2008	5.59	6.00	
		2.9.2008	4.23	6.00	
		7.9.2008	3.74	6.00	
		18.9.2008	5.48	6.00	
		21.9.2008	5.41	6.00	
		29.9.2008	4.54	6.00	
		3.10.2008	3.35	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Rupnarayan	Gopiganj	22.6.2008	3.62	6.00	
Warning Level		26.6.2008	3.00	6.00	
E.D.L.	5.64	8.7.2008	3.50	6.00	
D.L.	5.03	16.7.2008	3.62	6.00	
		23.7.2008	*4.78**	6.00	* This year's highest level
		24.7.2008	4.48	6.00	
		6.8.2008	3.29	6.00	
		8.8.2008	3.08	6.00	
		20.8.2008	3.44	6.00	
		22.8.2008	4.11	6.00	
		3.9.2008	2.40	6.00	
		5.9.2008	2.10	6.00	
		18.9.2008	2.26	6.00	
		25.9.2008	3.84	6.00	
		28.9.2008	2.83	6.00	
		3.10.2008	3.20	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Rupnarayan	**Ranichak**	22.6.2008	5.45	6.00	
Warning Level		26.6.2008	4.60	6.00	
E.D.L.	**5.94**	8.7.2008	4.54	6.00	
D.L.	**5.33**	16.7.2008	5.45	6.00	
		23.7.2008	***6.36***	6.00	**** Above EDL & this year's highest level**
		24.7.2008	6.21	6.00	
		1.8.2008	4.57	6.00	
		14.8.2008	4.78	6.00	
		17.8.2008	5.00	6.00	
		23.8.2008	5.12	6.00	
		2.9.2008	3.87	6.00	
		5.9.2008	3.65	6.00	
		15.9.2008	2.80	6.00	
		20.9.2008	4.51	6.00	
		29.9.2008	4.63	6.00	
		3.10.2008	2.04	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Subarnarekha	**Sonakonia**	18.6.2008	17.75	6.00	** Above E.D.L. & this year's highest level
Warning Level		19.6.2008	***17.76***	6.00	
E.D.L.	**16.75**	30.6.2008	12.53	6.00	
D.L.	**16.15**	3.7.2008	11.00	6.00	
		11.7.2008	13.64	6.00	
		21.7.2008	12.09	6.00	
		26.7.2008	11.95	6.00	
		3.8.2008	12.09	6.00	
		13.8.2008	12.24	6.00	
		21.8.2008	12.53	6.00	
		22.8.2008	12.97	6.00	
		1.9.2008	10.55	6.00	
		6.9.2008	10.55	6.00	
		18.9.2008	12.97	6.00	
		19.9.2008	13.52	6.00	
		27.9.2008	12.97	6.00	
		3.10.2008	10.26	6.00	
		12.10.2008	9.80	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ichamati	**Mejdia**	22.7.2008	7.38	6.00	
Warning Level		24.7.2008	7.39	6.00	
E.D.L.	**8.410**	1.8.2008	7.08	6.00	
D.L.	**7.824**	8.8.2008	6.85	6.00	
		21.8.2008	7.18	6.00	
		24.8.2008	7.29	6.00	
		3.9.2008	7.14	6.00	
		5.9.2008	7.10	6.00	
		12.9.2008	6.48	6.00	
		22.9.2008	0.00	6.00	
		28.9.2008	***8.91***	6.00	**** Above EDL & this year's highest level.**
		4.10.2008	8.44	6.00	
		10.10.2008	8.03	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ichamati	Tentulia	19.6.2008	1.99	6.00	
Warning Level		2.7.2008	3.13	6.00	
E.D.L.	Maximum 5.10m in year 2000	7.7.2008	3.48	6.00	
		10.7.2008	3.19	6.00	
D.L.	-	22.7.2008	3.62	6.00	
		27.7.2008	3.87	6.00	
		1.8.2008	3.79	6.00	
		14.8.2008	3.73	6.00	
		20.8.2008	3.93	6.00	
		24.8.2008	3.89	6.00	
		2.9.2008	3.97	6.00	
		7.9.2008	4.01	6.00	
		18.9.2008	3.97	6.00	
		20.9.2008	3.99	6.00	
		2.10.2008	4.67	6.00	
		8.10.2008	***4.92****	6.00	*** This year's highest level**
		10.10.2008	4.91	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Ichamati	**Bongaon**	16.6.2008	1.972	6.00	
Warning Level		24.6.2008	2.06	6.00	
E.D.L.	**5.675**	2.7.2008	2.27	6.00	
D.L.	**5.075**	9.7.2008	3.95	6.00	
		16.7.2008	3.63	6.00	
		18.7.2008	***6.90***	6.00	**** Above E.D.L. & this year's highest level**
		24.7.2008	3.81	6.00	
		6.8.2008	3.88	6.00	
		9.8.2008	3.40	6.00	
		19.8.2008	3.70	6.00	
		22.8.2008	3.65	6.00	
		4.9.2008	4.01	6.00	
		5.9.2008	3.53	6.00	
		18.9.2008	3.96	6.00	
		19.9.2008	3.88	6.00	
		1.10.2008	3.78	6.00	
		4.10.2008	3.61	6.00	
		10.10.2008	2.41	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Jamuna	**Gaighata**	13.6.2008	1.98	6.00	
Warning Level		18.6.2008	2.05	6.00	
E.D.L.	**4.50**	19.6.2008	1.77	6.00	
D.L.	**3.90**	24.6.2008	2.06	6.00	
		2.7.2008	3.18	6.00	
		8.7.2008	3.23	6.00	
		12.7.2008	3.89	6.00	
		16.7.2008	4.05	6.00	
		20.7.2008	4.10	6.00	
		24.7.2008	3.93	6.00	
		6.8.2008	3.95	6.00	
		10.8.2008	3.65	6.00	
		21.8.2008	3.58	6.00	
		22.8.2008	3.60	6.00	
		4.9.2008	3.88	6.00	
		5.9.2008	3.88	6.00	
		12.9.2008	3.67	6.00	
		25.9.2008	3.74	6.00	
		2.10.2008	4.32	6.00	** Above E.D.L. & this year's highest level
		9.10.2008	***4.58***	6.00	
		10.10.2008	4.53	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Jamuna	**Gobardanga**	16.6.2008	1.76	6.00	
Warning Level		25.6.2008	1.73	6.00	
E.D.L.	**4.37**	2.7.2008	2.88	6.00	
D.L.	**3.77**	3.7.2008	3.02	6.00	
		16.7.2008	3.70	6.00	
		17.7.2008	3.71	6.00	
		24.7.2008	3.61	6.00	
		1.8.2008	3.46	6.00	
		10.8.2008	3.35	6.00	
		21.8.2008	3.28	6.00	
		22.8.2008	3.29	6.00	
		4.9.2008	3.46	6.00	
		5.9.2008	3.46	6.00	
		12.9.2008	3.34	6.00	
		25.9.2008	3.41	6.00	
		1.10.2008	3.94	6.00	
		9.10.2008	***4.18****	6.00	*** Above D.L. & this year's highest level**
		10.10.2008	4.17	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

South Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Kuya	Tarapur	18.6.2008	18.04	6.00	
Warning Level		21.6.2008	18.63	6.00	
E.D.L.	23.350	1.7.2008	18.38	6.00	
D.L.	22.710	7.7.2008	20.61	6.00	
		10.7.2008	19.84	6.00	
		16.7.2008	19.68	6.00	
		19.7.2008	21.08	6.00	
		24.7.2008	20.56	6.00	
		5.8.2008	18.73	6.00	
		14.8.2008	21.12	6.00	
		16.8.2008	*21.17**	6.00	* This year's highest level
		22.8.2008	20.09	6.00	
		1.9.2008	20.03	6.00	
		9.9.2008	19.29	6.00	
		15.9.2008	19.95	6.00	
		21.9.2008	20.27	6.00	
		1.10.2007	19.90	6.00	
		3.10.2007	19.50	6.00	
		12.10.2007	18.85	6.00	

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2008.

North Bengal Rivers

River	Gauge at	Date	Level (in M) Maximum Level during corresponding week.	Time (in hours)	Remarks
1	2	3	4	5	6
Mayna	Barisha	21.6.2008	*5.42***	06.00	* Above E.D.L. & this year's highest level.
Warning Level		26.6.2008	4.90	06.00	
E.D.L.	5.000	4.7.2008	4.20	06.00	
D.L.	4.550	10.7.2008	4.20	06.00	
		22.7.2008	4.09	06.00	
		24.7.2008	4.03	06.00	
		1.8.2008	3.84	06.00	
		14.8.2008	3.84	06.00	
		15.8.2008	3.90	06.00	
		22.8.2008	3.54	06.00	
		2.9.2008	3.36	06.00	
		18.9.2008	3.93	06.00	
		21.9.2008	4.36	06.00	
		27.9.2008	4.06	06.00	
		3.10.2008	3.45	06.00	

STATEMENT OF RAINFALL DATA OF DIFFERENT RIVERS (SUB-BASIN WISE) WITHIN WEST BENGAL DURING MONSOON PERIOD OF 2008.

(As per available data)

Sl. No	Name of the River Sub-Basin including the name of gauge station	Rainfall upto June 2007 (mm)	Rainfall upto October 2007 (mm)	Rainfall during monsoon period (mm)	Sub-basin wise average rainfall during monsoon period (mm)	Yearly average rainfall (mm)	Sub-basin wise yearly average rainfall (mm)	Sub-basin wise monsoon rainfall in percentage of yearly average rainfall
1	2	3	4	5	6	7	8	9
1.	**SANKOSH**							
a)	Not yet installed	Rain Gauge to be installed						
2.	**KALJANI**							
a)	Alipurduar	1021.00	3350.00	2329.00	2329.00	3797.00	3797.00	61
3.	**RAIDAK**							
a)	Tufangunj	1922.00	4973.00	3051.00	3051.00	3492.00	3492.00	87
4.	**TORSA**							
a)	Coochbehar	1545.00	3760.00	2215.00	2253.50	3580.00	3542.50	64
b)	Hasimara	1092.00	3384.00	2292.00		3505.00		
5.	**DIANA**							
a)	Banarhat	1646.00	5672.00	4026.00	4026.00	3590.00	3590.00	112
6.	**JALDHAKA**							
a)	Mathabhanga	476.00	2522.00	2046.00	2046.00	3120.00	3120.00	66
7.	**TEESTA**							
a)	Jalpaiguri	595.00	3557.00	2962.00	2743.50	3290.00	3615.00	76
b)	Malbazar	1542.00	4067.00	2525.00		3940.00		
8.	**MAHANANDA**							
a)	Siliguri	1197.00	4177.20	2980.20	1843.40	3620.00	2220.00	83
b)	Raigunj	859.00	2322.00	1463.00		1600.00		
c)	Malda	405.00	1492.00	1087.00		1440.00		
9.	**PUNARBHAVA**							
a)	Gangarampur	769.00	1574.00	805.00	805.00	1946.00	1946.00	41
10.	**ATRAI**							
a)	Balurghat	932.00	1942.00	1010.00	1010.00	1609.00	1609.00	63
11.	**PAGLA-BANSLOI**							
a)	Paikar	516.60	1390.90	873.40	873.40	1402.00	1402.00	62
12.	**BRAHMONI-DWARKA**							
a)	Rampurhat	318.60	1188.10	869.50	851.60	1437.00	1228.50	69
b)	Nalhati	565.40	1399.10	833.70		1020.00		
13.	**MAYURAKSHI**							
a)	Maharo	68.40	1381.00	1312.60	1030.92	1480.00	1431.60	72
b)	Massanjore	448.80	1497.80	1049.00		1460.00		
c)	Tilpara Barrage	445.20	1308.40	863.20		1400.00		
d)	Kandi	449.20	1267.50	818.30		1408.00		
e)	Narayanpur	79.22	1190.72	1111.50		1410.00		

** average annual rainfall calculated on the basis of annual rainfall from 1987 to1995 for Banarhat & from 1996 to 2001 for Hasimara.

1	2	3	4	5	6	7	8	9
14.	**AJOY**							
a)	Sikatia	205.10	1545.00	1339.90	1253.97	1377.00	1310.80	96
b)	Bolepur	264.00	1490.00	1226.00		1220.00		
c)	Gheropara	290.50	1560.00	1269.50		1282.00		
d)	Katwa	339.44	1565.29	1225.85		1365.00		
e)	Burdwan(Kanainatsal)	94.10	1302.70	1208.60		1310.00		
15.	**DAMODAR**							
a)	Tilaiya	235.00	1350.00	1115.00	1171.62	1118.00	1434.10	82
b)	Tenughat	260.00	1322.00	1062.00		1321.00		
c)	Maithon	245.00	1395.00	1150.00		1113.00		
d)	Panchet Dam	265.00	1460.00	1195.00		1146.00		
e)	Durgapur	288.00	1631.70	1343.20		1210.00		
f)	Harinkhola	131.00	1465.64	1334.64		1444.00		
g)	Amta	865.80	2078.30	1212.50		1882.70		
h)	Champadanga	679.50	1707.75	1028.25		1589.60		
i)	Satkahania	175.00	1076.75	901.75		1440.00		
j)	Balgona	165.00	1217.80	1052.80		1460.00		
k)	Lohai(Raina)	164.00	1563.00	1399.00		1410.00		
l)	Domjur	782.00	1677.00	895.00		1681.00		
m)	Asansol	160.40	1399.30	1238.90		1470.00		
n)	Rondia	163.80	1514.00	1350.20		1465.00		
o)	Edilpur	79.20	761.20	682.00		1480.00		
p)	Memari	129.95	1205.40	1075.45		1475.00		
q)	Jamalpur	159.00	1584.50	1425.50		1460.00		
r)	Singhur	189.25	1499.25	1310.00		1485.00		
s)	Seharabazar	102.00	1668.00	1566.00		1490.00		
t)	Seriko	119.29	956.77	837.48		1470.00		
u)	Guskara	279.00	1938.50	1659.50		1490.00		
v)	Bedia	170.00	1111.50	941.50		1450.00		
16.	**DWARAKESWAR**							
a)	Simulia	482.00	1198.40	710.40	1080.95	1338.83	1396.43	77
b)	Arambag	436.00	1689.50	1253.50		1396.90		
c)	Sonamukhi	157.25	1175.26	1018.01		1410.00		
d)	Indus	172.00	1513.90	1341.90		1440.00		
17.	**SILABATI**							
a)	Ghatal	1253.40	2727.20	1473.80	1461.20	2221.06	2220.53	66
b)	Ghadghat	1251.40	2700.00	1448.60		2220.00		
18.	**KANGSABATI**							
a)	Tusuma	500.00	1439.60	939.60	1005.35	1238.73	1437.59	70
b)	Kangsabati Dam	607.75	1612.50	1004.75		1485.46		
c)	Mohanpur	1480.80	2794.40	1313.60		1556.00		
d)	Panskura	979.75	2224.50	1244.75		1938.25		
e)	Kharidwar	676.40	1656.40	980.00		1247.33		
f)	Purihansha	506.60	348.20	841.60		1226.16		
g)	Phulberia	599.50	1739.30	1139.80		1159.01		
h)	Midnapore	1198.80	2142.80	944.00		1500.00		
i)	Sabang	903.48	1617.89	714.41		1510.00		
j)	Bankura	399.50	1330.50	931.00		1515.00		
19.	**KALIAGHAI**							
a)	Amgachia	703.80	1501.00	797.20	836.95	1964.20	1852.50	45
b)	Itamogra	520.90	1397.60	876.70		1740.80		

1	2	3	4	5	6	7	8	9
20.	**JALANGI**							
a)	Swarupganj	607.00	1567.20	1960.20	960.20	1440.00	1440.00	67
21.	**CHURNI**							
a)	Ranaghat	Rain Gauge to be installed						
22.	**BHAGIRATHI-HOOGHLY**							
a)	Berhampore	417.90	1562.60	1144.70	1070.43	1390.00	1531.67	70
b)	Kolkata (Alipore)	860.50	1941.70	1081.20		1610.00		
c)	Kolkata (Dum Dum)	691.20	1676.60	985.40		1595.00		
23.	**RUPNARAYAN**							
a)	Tamluk	610.89	1469.06	858.17	858.17	1755.95	1755.95	49
24.	**SUBARNAREKHA**							
a)	Digha	361.50	767.25	405.75	405.75	1843.43	1843.43	22
25.	**24-PGS & KOLKATA**							
A)	Tentulia	210.00	1581.00	1371.00	1098.18	1623.00	1573.67	70
b)	Barasat	493.50	1638.75	1145.25		1508.00		
c)	Bongaon	390.30	1168.60	778.30		1590.00		
26.	**PICHABONI**							
a)	Ramnagar	Rain Gauge to be installed						
27.	**RASULPUR**							
a)	Contai	767.60	1495.80	728.20	728.20	1866.45	1866.45	39
28.	**HALDI**							
a)	Haldia	Rain Gauge to be installed						
29.	**MAYNA**							
a)	Barisha	629.25	1665.50	1036.25	1036.25	1494.45	1494.45	69
30.	**SIDDHESWARI**							
a)	Tatloi	35.25	952.20	916.95	962.10	1580.00	1575.00	61
b)	Kuskarni	30.15	1037.40	1007.25		1570.00		
31.	**BAIDARA BARRAGE**	390.25	1695.00	1304.75	1247.82	1585.00	1587.50	79
32.	**DEOCHA BARRAGE**	508.50	1699.40	1190.90		1590.00		
33.	**Uttarbhag Pumping Station**	278.70	1004.35	725.65	725.65	1610.00	1610.00	45
34.	**Chowbhaga Pumping Station**	379.75	2108.30	1728.55	1728.55	1620.00	1620.00	107

STATEMENT OF DISTRICT-WISE INUNDATED AREA IN THE YEAR 2008 DUE TO FLOOD

Sl.No.	Name of District	Geographical Area (Sq.km.)	Area in un-dated in (Sq.km.)	Percentage %	Remarks
1	2	3	4	5	6
1.	Bankura	6881.00	55.00	0.80	
2.	Birbhum	4545.00	18.44	0.40	
3.	Burdwan	7024.43	NIL	NIL	
4.	Hooghly	3149.00	881.00	28.0	
5.	Howrah	1466.62	15.00	1.02	
6.	Midnapore	14081.00	4458.45	32.0	
7.	Murshidabad	5324.00	13.59	0.25	
8.	Nadia	3927.45	NIL	NIL	
9.	North 24-Parganas	4094.00	NIL	NIL	
10.	South 24-Parganas	9960.00	2.80	0.028	
11.	Purulia	6258.72	NIL	NIL	
12.	Coochbehar	3387.00	31.00	0.91	
13.	Darjeeling	3149.00	NIL	NIL	
14.	Jalpaiguri	6227.00	119.00	2.0	
15.	Maldah	3732.00	37.00	1.0	
16.	North Dinajpur	3139.80	NIL	NIL	
17.	South Dinajpur	2218.65	NIL	NIL	
18.	Calcutta	187.33	NIL	NIL	
	Total	**88,752.00**	**5,631.28**	**66.41**	