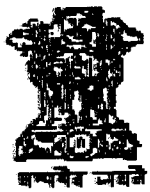
(186)

O/C

GOVERNMENT OF WEST BENGAL
IRRIGATION & WATERWAYS DIRECTORATE

*****

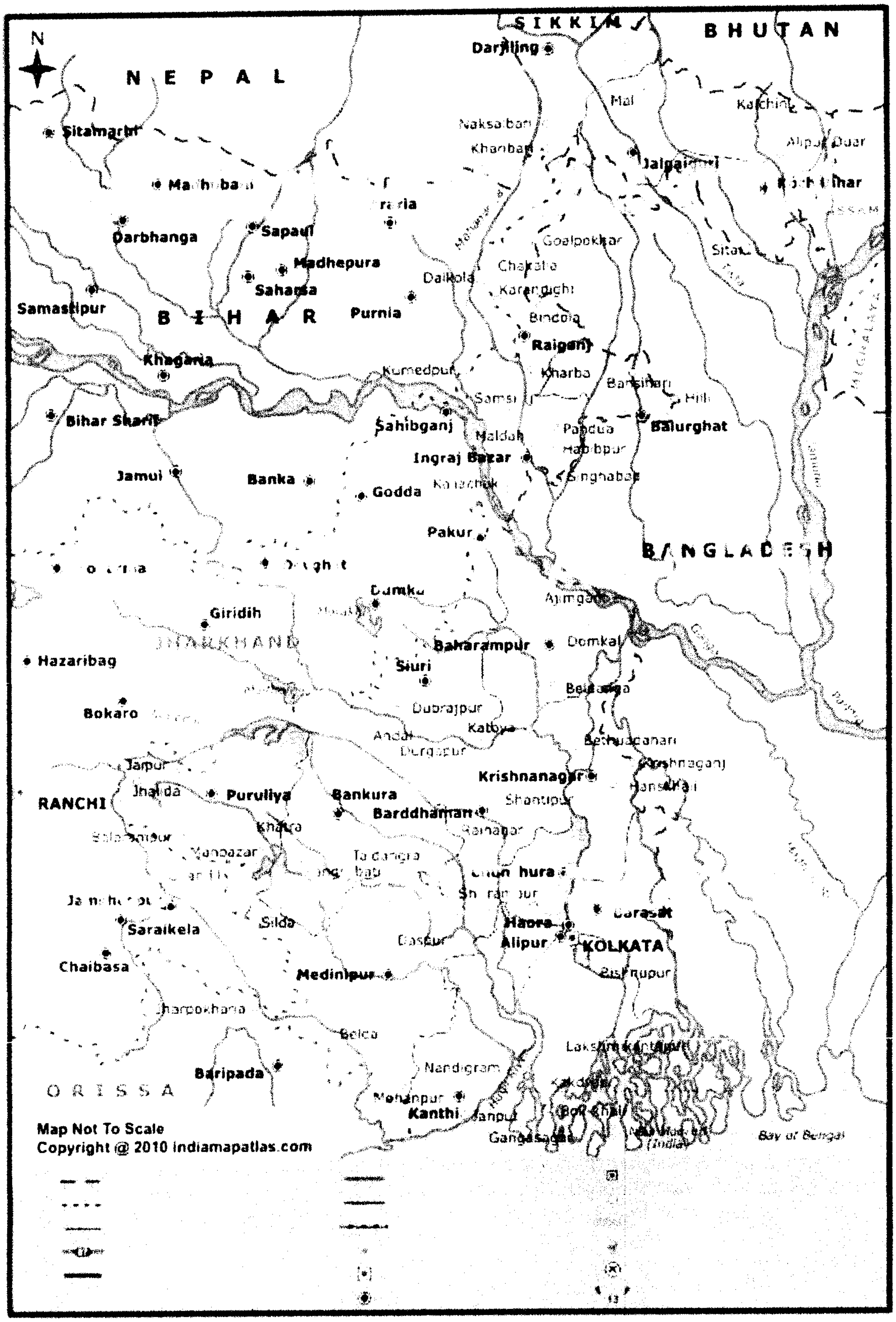


ANNUAL FLOOD REPORT – 2010.

Director
Advance Planning Project
Evaluation & Monitoring Cell
Irrigation & Waterways Directorate
Jalasampad Bhawan, Salt lake
Kolkata-700 091.

*****

February 2011


N
NEPAL
SIKKIM
BHUTAN
Darjiling
Naksalbari
Jalpaiguri
Alipur Duar
Sitamarhi
Darbhanga
Sapaul
Madhepura
Saharsa
Samastipur
BIHAR
Purnia
Dalkola
Goalpokhar
Chakulia
Karandighi
Bindol
Raiganj
Khagaria
Kumedpur
Kharba
Bansihari
Hili
Bihar Sharif
Sahibganj
Pandua
Balurghat
Maldah
Habibpur
Ingraj Bazar
Jamui
Banka
Godda
Pakur
BANGLADESH
Dumka
Giridih
Hazaribag
Baharampur
Domkal
Siuri
Bokaro
Dubrajpur
Katoya
Durgapur
Krishnanagar
Krishnaganj
RANCHI
Jhalda
Puruliya
Bankura
Barddhaman
Shantipur
Khatra
Saraikela
Silda
Haora
Barasat
Alipur
KOLKATA
Chaibasa
Medinipur
Bishnupur
Belda
Nandigram
Baripada
ORISSA
Kanthi
Gangasagar
Bay of Bengal
Map Not To Scale
Copyright @ 2010 indiamapatlas.com

ANNUAL FLOOD REPORT OF WEST BENGAL FOR THE YEAR 2010

INDEX

PREFACE

The State of West Bengal is the lowermost riparian State in the Ganga Basin and most of the rivers in the State originate from outside the state boundary and are of inter-state/international category. The State is quite often ravaged by destructive flood, even without any appreciable rainfall within the geographical limits of the State. Along with flood, various allied problems like bank erosion, drainage congestion, cyclonic disaster accentuate the flood situation. The State being 43% of its geographical area flood prone, happens to be one of the prime flood prone States in the country.

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, cattle 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. In the State only few years could be identified as flood free years since 1960 when only less than 500 sq.kms of area were inundated, and the year 2010 is one of such years. After last 1978 major flood, the State suffered consecutively in 1998, 1999 and 2000. In terms of loss of life and property the 2000 flood was almost comparable to 1978 flood.

This year this State witnessed severe drought in 11 districts following trifle rainfall mainly in South Bengal districts. Only North Bengal received moderate to high intensity of rainfall during monsoon 2010.

There is 10401 K.M of total length of embankment (out of which 1326.08 K.M Ex – Zamindary Embankment) is maintained by this department in the state of West Bengal. Till date work for protection of total 25380 sq K.M area from flood has been undertaken by this department.. Length of 280 K.M coastal belt of the State (including Creeks) and 65.4 K.M. of sea-dyke length (Digha) and 7.9 K.M. length of Sea wall is maintained by this department in the state.

Embankments in various districts of the State in general and Sundarban areas in particular are used as communication link, particularly during periods of calamity for safe passage of people and carrying relief materials. Disruption of such communication links leads livelihood activities almost to a grinding halt. Moreover, embankments, constructed either decades or century ago particular embankment are functioning as lifeline to the people of Sundarban since those prevent entry of diurnal high tidal water into the countryside where average ground level is substantially lower than the normal amplitude of high tide. Due to breach as well as washout of embankments major portion of the area becomes disconnected from basic facilities of life.

Many factors such as intensity and duration of rainfall, sedimentation in river bed, natural or man made 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 indispensable for evolution of various flood management measures. Accordingly Irrigation & Waterways Department, 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 in the north and partly high in the south west to the plains in the rest areas. 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 21°31' & 27°13'14" North Latitudes and 85°45'20" & 89°53' 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.

West Bengal, a part of Bengal Delta, has a long recorded history of flood. It is because the landmass of the State was formed by the Ganga-Padma system of rivers through the delta building process of which flood is an adjunct being the main carrier of sediments, the bulk of fluvial deposit, in huge volumes. At present 42.3% of total area of the State is susceptible to flood spread over 110 blocks in 18 districts. The highest affected area as recorded in 1978 is about 30,607sq.km.and in 2000 about 23,971 sq.km.

Ganges enters West Bengal near Rajmahal and then flows in a south-easterly direction. It divides into two near north of Dhulian in Murshidabad district. One branch enters Bangladesh as the Padma while the other flows through West Bengal as the Bhagirathi River and Hooghly River in a southern direction. The Bhagirathi is the main river in West Bengal which flows past some of the important cities like Murshidabad, Baharampur, Nabadwip, Chinsura, Chandannagar, Srirampur, Howrah, Kolkata, Diamond Harbour and Haldia. It empties its water into Bay of Bengal near Sagar Island in the South 24 Parganas

The Mayurakshi, Ajay, Damodar, Kangsabati, Rupnarayan and their tributaries which rise in the Western plateau and high lands flow eastwards through the different districts of West Bengal and joins the Bhagirathi on the right bank. The Mayurakshi, which is fed by tributaries Brahmani, Dwarka, Bakreshwar and Kopai joins the Bhagirathi near Kalna, the Ajay, which rises in the hills of Jharkhand, being joined by the Kunur, flows down the plateau fringe, marking the boundary between Bardhaman and Birbhum districts joining it near Katwa and Damodar, with its small meandering distributaries, small streams, Khari, Banka and Behula joins the Bhagirathi near Uluberia. The Damodar known as the sorrow of Bengal, is now controlled by making the Damodar Valley Project. The Dwarakeswar and Shilabati rivers join to form Rupnarayan and the Kangsabati and Keleghai rivers join to form the Haldi. The Rupnarayan and Haldi fall into the Hooghly river in the Howrah district. The Subarnarekha river after flowing for a short distance in West Bengal re enters into Orissa. These rivers carry plenty of water thus keeping the Bhagirathi river with optimum water throughout the year. The rivers along with water carry silt and sand eroded from the western plateaus and deposits them in the Bhagirathi and the rivers themselves. This silting is causing great inconvenience for the Kolkata Port and often results flooding in the years of heavy rain.

The distributaries of the Padma River like Bhairab, Jalangi, Mathabhanga River and their tributaries enters West Bengal and joins the Bhagirathi on its left bank. The Bhairab and

the Jalangi meet and their joined water known as Jalangi falls into Bhagirathi. The Mathabhanga divides into branches namely; Churni and Ichhamati, while the Churni meets the Bhagirathi while the other flows southwards and joins the Kalindi.

The Sunderbans region is covered by numerous estuaries and streams, mainly distributaries of main rivers. The rivers are interconnected and are fed by tidal waters. The major rivers of the area are Hoogly, Matla, Gosaba, Saptamukhi, Haribhanga, Piyali, Thakuran/ Jamira, Raimangal, Kalindi and Ichhamati.

The Teesta flows cutting deep gorges from north to south in the mountainous Darjeeling district, it enters the plains at Sevoke and flows in a mighty stream on straight line towards the south east until it joins Brahamaputra in Bangladesh. Torsa, Jaldhaka, Kaljani, Raidak, Sankosh and Mahananda rivers are in the northern hilly region which rise in the Himalayas and flow in a southerly direction through the districts of Darjeeling, Jalpaiguri, Cooch Behar and North and South Dinajpur and enters Bangladesh. As most of the rivers are snow fed, so most of the rivers are perennial in nature and often floods during the rainy season. The entire region is made up of sand, gravel and pebbles laid down by these rivers. The Mahananda rises from the Dow Hills forest, near the town of Darjeeling and are fed by similar small rivers like, Mahanadi, Balason, and Mechi and runs in a zig-zag way through the district of Malda and joins the Padma in Bangladesh. In the central region, the main river is the Mahananda. The Tangon and Punarbhabha, and Atrai arises in the plains, while the former two joins together and flows into Mahanadi, Atrai flows into the Padma.

1.1 RIVER BASINS

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.*

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

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.

1.1.2 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. D/S of 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.

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 25°15' N to 26°15' N and longitude 87°45' E to 88°15" 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.

Apart 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,

1.1.3 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.

2. RAINFALL

Diverse climatic conditions across the State is the characteristics of West Bengal due to its varied topography. The average rainfall in the state is 1750 mm of which more than75% occurs during the monsoon period. 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.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.

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.

This year in the Gangetic West Bengal region districts –Ten Districts:West Midnapore (-36.51%),Nadia(-33.1%), Bankura(-32.10 %), Purulia(-37.6 %),Burdwan(-34.08 %), Birbhum (-29.16 %) ,Hooghly (-29.68 %), South 24-Parganas(-27.39 %), Murshidabad(-31.21 %), & North 24-Parganas(-25.70%) had experienced draught situation during Monsoon period (June to October,2010) .All thirteen districts of Gangetic West Bengal region witness deficit of rain fall in the range of -4.79 % - 37.60%. In the Sub-Himalayan region excepting the district Darjeeling (+31.93 %) , Jalpaiguri (+21.90 %) & North Dinajpur (19.77%), the other three districts witness deficit rainfall, out of which the district Malda experienced draught situation.

District wise actual and normal monthly rainfall during the year 2010 along with district wise rainfall deficit in percentage of normal annual rainfall are given in Annexure A1 to A-10 (in 10 sheets).

Gauge levels of important rivers during the monsoon period of 2010 along with relevant graphs are given in Annexure from G-1 to G-50 (in 52 sheets).

Reservoir along with outflow of different dams and barrages (Tenughat Dam , Tilpara Barrage, Masanjore Dam, Maithon Dam, Durgapur Barrage, ,Kangsabati Barrage & Panchet Dam) during monsoon period are given in annexure R1 to R21 (in 21 sheets).

2. *2010 - A YEAR OF DRAUGHT*

In the year 2010 the State of West Bengal hit by severe draught situation , major part of the South Bengal Districts were affected due to scanty rainfall . Eleven districts of West Bengal experienced draught, out of which ten districts belong to South Bengal and one district to North Bengal i.e Malda. The draught hit districts were West Midnapore, Nadia , Bankura , Purulia, Burdwan, Birbhum, Hooghly , South 24-Parganas, Murshidabad , North 24-Parganas , Malda .

Purulia is the worst hit Districts as paddy has been cultivated only 6.50% of agricultural land whereas the farmers have been able to cultivate 30 and 33 percent of land in Birbhum and Bankura districts, respectively. In Burdwan and Hooghly, paddy has been cultivated in 77 and 74 percent of agricultural land respectively. Farmers were encouraged to cultivate early Rabi crops and oilseeds in their fields where paddy could not be groom due to scarcity of water.

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 organizations.

12/04/2011

Assistant Engineer & Research Officer
Advance Planning, Project Evaluation
& Monitoring Cell,
I&W Directorate, Govt. of W.B
Jalasampad Bhavan, Kolkata-91

12/04/2011

Deputy Director
Advance Planning, Project Evaluation
& Monitoring Cell
I&W Directorate, Govt. of W.B
Jalasampad Bhavan, Kolkata-91

12/4/11

Director
Advance Planning, Project Evaluation
& Monitoring Cell
I&W Directorate, Govt. of W.B
Jalasampad Bhavan, Kolkata-91

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 demudation 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.whiwd.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 organizations.

Assistant Engineer & Research Officer
Advance Planning, Project Evaluation
& Monitoring Cell,
I&W Directorate, Govt. of W.B
Jalasampad Bhavan, Kolkata-91

Deputy Director
Advance Planning, Project Evaluation
& Monitoring Cell
I&W Directorate, Govt. of W.B
Jalasampad Bhavan, Kolkata-91

Director
Advance Planning, Project Evaluation
& Monitoring Cell
I&W Directorate, Govt. of W.B
Jalasampad Bhavan, Kolkata-91

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month January 2010
Sub-Division : Gengetic West Bengal

Sl No	Name of District	Actual	Normal	Departu re
1	Bankura	0	13	-100
2	Birbhum	1	12'	-93
3	Burdwan	Trace	13	-98
4	East Midnapore	0	18	-100
5	Hoogly •	0	10	-100
6	Howrah	0	11	-100
7	Kolkata	0	15	-100
8	Murshidabad	0	16	-100
9	Nadia	0	12	-100
10	24 Pgs North	0	13	-99
11	Purulia	Trace	14	-98
12	24 Pgs South	0	15	-100
13	West Midnapore	0	17	-99

Total	1	167	-1087
Average	0.08	12.85	-83.62

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	0	13	-100
2	Darjeeling	0	17	-100
3	Jalpaiguri	0	9	-100
4	Malda	0	12	-100
5	North Dinajpur	--	7	--
6	South Dinajpur	0	7	-100

Total	0	65	-500
Average	0.00	10.83	-83.33

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month March 2010				
Sub-Division : Gengetic West Bengal				
Sl. No	Name of District	Actual	Normal	Departure
1	Bankura	31	22	41
2	Birbhum	9	26	-65
3	Burdwan	10	21	-52
4	East Midnapore	3	31	-89
5	Hoogly	4	30	-87
6	Howrah	0	32	-100
7	Kolkata	10	30	-66
8	Murshidabad	0	19	-100
9	Nadia	0	23	-100
10	24 Pgs North	5	24	-78
11	Purulia	6	21	-73
12	24 Pgs South	1	29	-95
13	West Midnapore	1	33	-99
Total		49	319	-616
Average		3.77	24.54	-47.38
Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	64	35	86
2	Darjeeling	7	40	-83
3	Jalpaiguri	42	33	28
4	Malda	Trace	13	-99
5	North Dinajpur	,--	23	--
6	South Dinajpur	0	23	-100
Total		113	167	-168
Average		18.83	27.83	-28.00

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month February 2010				
Sub-Division : Gengetic West Bengal				
Sl. No	Name of District	Actual	Normal	Departure
1	Bankura	34	17	102
2	Birbhum	12	20	-37
3	Burdwan	8	17	-51
4	East Midnapore	26	22	16
5	Hoogly	31	25	24
6	Howrah	11	23	-52
7	Kolkata	17	21	-21
8	Murshidabad	Trace	11	-99
9	Nadia	10	15	-33
10	24 Pgs North	15	16	-11
11	Purulia	30	18	64
12	24 Pgs South	2	18	-90
13	West Midnapore	1	23	-97
	Total	197	246	-285
	Average	15.15	18.92	-21.92

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	0	19	-29
2	Darjeeling	3	13	-100
3	Jalpaiguri	3	14	-76
4	Malda	2	11	-72
5	North Dinajpur	--	11	-81
6	South Dinajpur	0	15	-100
	Total	8	83	-458
	Average	1.33	13.83	-76.33

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month March 2010				
Sub-Division : Gengetic West Bengal				
Sl. No	Name of District	Actual	Normal	Departure
1	Bankura	31	22	41
2	Birbhum	9	26	-65
3	Burdwan	10	21	-52
4	East Midnapore	3	31	-89
5	Hoogly	4	30	-87
6	Howrah	0	32	-100
7	Kolkata	10	30	-66
8	Murshidabad	0	19	-100
9	Nadia	0	23	-100
10	24 Pgs North	5	24	-78
11	Purulia	6	21	-73
12	24 Pgs South	1	29	-95
13	West Midnapore	1	33	-99
Total		49	319	-909
Average		3.77	24.54	-69.92

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	64	35	86
2	Darjeeling	7	40	-83
3	Jalpaiguri	42	33	28
4	Malda	Trace	13	-99
5	North Dinajpur	--	23	--
6	South Dinajpur	0	23	-100
Total		113	167	-168
Average		18.83	27.83	-28.00

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month March 2010				
Sub-Division : Gengetic West Bengal				
Sl No	Name of District	Actual	Normal	Departure
1	Bankura	31	22	41
2	Birbhum	9	26	-65
3	Burdwan	10	21	-52
4	East Midnapore	3	31	-89
5	Hoogly	4	30	-87
6	Howrah	0	32	-100
7	Kolkata	10	30	-66
8	Murshidabad	0	19	-100
9	Nadia	0	23	-100
10	24 Pgs North	5	24	-78
11	Purulia	6	21	-73
12	24 Pgs South	1	29	-95
13	West Midnapore	1	33	-99
	Total	49	319	-909
	Average	3.77	24.54	-69.92

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	64	35	86
2	Darjeeling	7	40	-83
3	Jalpaiguri	42	33	28
4	Malda	Trace	13	-99
5	North Dinajpur	.--	23	--
6	South Dinajpur	0	23	-100
	Total	113	167	-168
	Average	18.83	27.83	-28.00

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month April 2010				
Sub-Division : Gengetic West Bengal				
Sl No	Name of District	Actual	Normal	Departure
1	Bankura	31	41	-23
2	Birbhum	26	41	-37
3	Burdwan	13	38	-65
4	East Midnapore	0	51	-100
5	Hoogly	18	67	-72
6	Howrah	2	60	-96
7	Kolkata	21	54	-62
8	Murshidabad	0	45	-100
9	Nadia	29	56	-47
10	24 Pgs North	25	58	-57
11	Purulia	12	30	-60
12	24 Pgs South	11	45	-75
13	West Midnapore	1	62	-98
	Total	189	648	-892
	Average	14.54	49.85	-68.62

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	287	127	126
2	Darjeeling	73	82	-11
3	Jalpaiguri	226	123	83
4	Malda	28	37	2
5	North Dinajpur	--	62	--
6	South Dinajpur	85	62	36
	Total	699	493	236
	Average	116.50	82.17	39.33

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month May 2010				
Sub-Division : Gengetic West Bengal				
Sl No	Name of District	Actual	Normal	Departu re
1	Bankura	118	73	61
2	Birbhum	66	94	-30
3	Burdwan	110	73	51
4	East Midnapore	95	108	-12
5	Hoogly	171	112	53
6	Howrah	107	123	-13
7	Kolkata	150	110	36
8	Murshidabad	88	101	-13
9	Nadia	94	96	-2
10	24 Pgs North	152	112	35
11.	Purulia	88	48	82
12	24 Pgs South	151	91	66
13	West Midnapore	178	108	65
	Total	1568	1249	379
	Average	120.62	96.08	29.15
Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	442	390	13
2	Darjeeling	304	188	62
3	Jalpaiguri	421	304	39
4	Malda	184	104	77
5	North Dinajpur	--	164	--
6	South Dinajpur	121	164	-26
	Total	1472	1314	165
	Average	245.33	219.00	27.50

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month June 2010				
Sub-Division : Gengetic West Bengal				
Sl No	Name of District	Actual	Normal	Departure
1	Bankura	189	207	-9
2	Birbhum	215	228	-6
3	Burdwan	223	229	-3
4	East Midnapore	180	265	-32
5	Hoogly	186	237	-21
6	Howrah	175	269	-35
7	Kolkata	296	276	7
8	Murshidabad	263	223	18
9	Nadia	173	223	-22
10	24 Pgs North	220	284	-23
11	Purulia	102	191	-47
12	24 Pgs South	251	289	-13
13	West Midnapore	179	228	-22
	Total	2652	3149	-208
	Average	204.00	242.23	-16.00

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	688	708	-3
2	Darjeeling	635	507	25
3	Jalpaiguri	873	635	38
4	Malda	218	213	3
5	North Dinajpur	364	298	22
6	South Dinajpur	384	298	29
	Total	3162	2659	114
	Average	527.00	443.17	19.00

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month July, 2010				
Sub-Division : Gengetic West Bengal				
Sl. No	Name of District	Actual	Normal	Departu re
1	Bankura	196.00	312.00	-37.00
2	Birbhum	221.00	306.00	-28.00
3	Burdwan	190.00	325.00	-41.00
4	East Midnapore	297.00	330.00	-10.00
5	Hoogly	146.00	301.00	-52.00
6	Howrah	207.00	333.00	-38.00
7	Kolkata	267.00	350.00	-24.00
8	Murshidabad	102.00	326.00	-69.00
9	Nadia	113.00	244.00	-54.00
10	24 Pgs North	207.00	339.00	-39.00
11	Purulia	138.00	292.00	-53.00
12	24 Pgs South	249.00	383.00	-35.00
13	West Midnapore	215.00	330.00	-35.00
	Total	2548.00	4171.00	-515.00
	Average	196.00	320.85	-39.62

Sub-Division : Sub-Himalayan West Bengal				
14	Coochbehar	809.00	718.00	13.00
15	Darjeeling	982.00	766.00	28.00
16	Jalpaiguri	1162.00	842.00	38.00
17	Malda	215.00	327.00	-34.00
18	North Dinajpur	435.00	378.00	15.00
19	South Dinajpur	147.00	378.00	-61.00
	Total	3750.00	3409.00	-1.00
	Average	625.00	568.17	-0.17

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

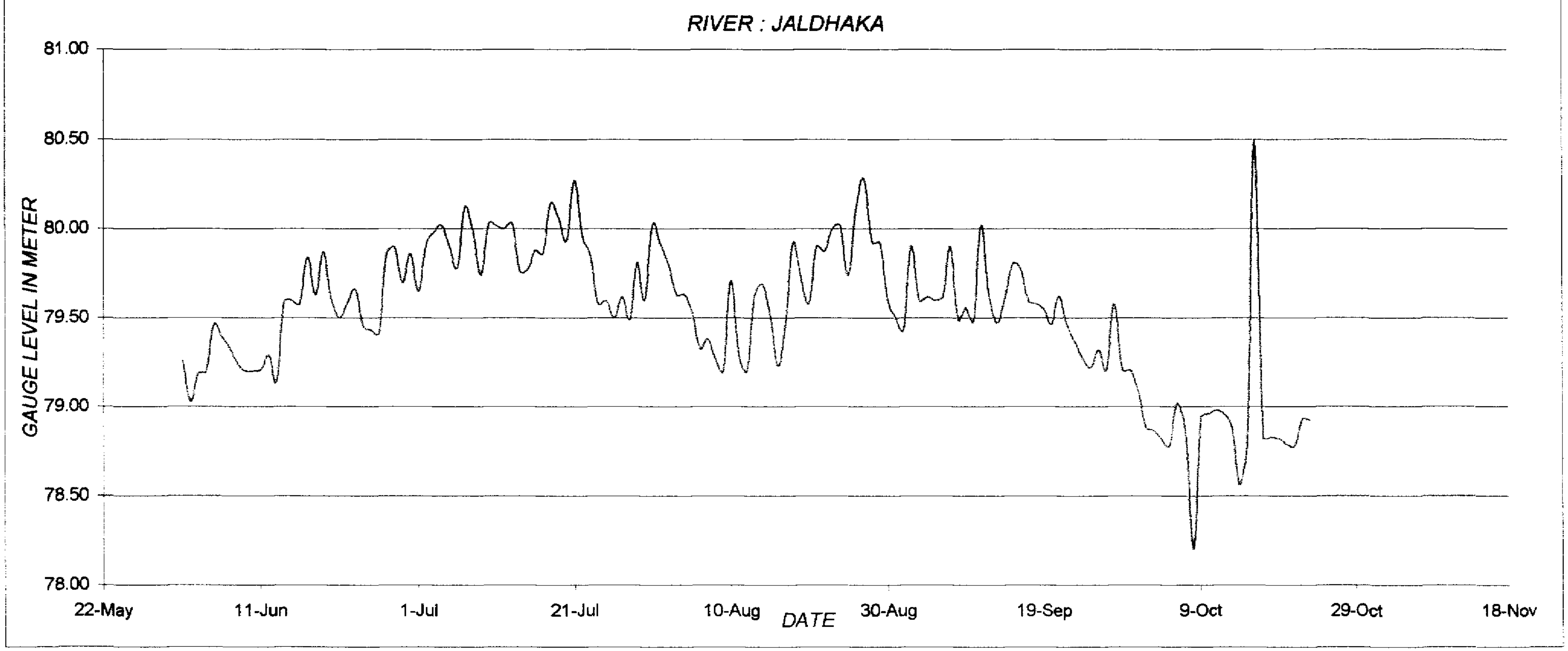
NORTH BENGAL RIVERS

RIVER - *JALDHAKA*

GAUGE STATION - *N.H.-31 CROSSING*

DANGER LEVEL IN (M) 80.000

EXTREME DANGER LEVEL IN (M) 80.500



MONTHLY SIX HIGHEST GUGE LEVELS IN METER

17-Jun	19-Jun	27-Jun	28-Jun	29-Jun	30-Jun	7-Jul	10-Jul	13-Jul	18-Jul	19-Jul	21-Jul	18-Aug	23-Aug	24-Aug
79.84	79.87	79.85	79.9	79.7	79.86	80.12	80.03	80.03	80.14	80.06	80.27	79.92	80.00	80.02

26-Aug	27-Aug	28-Aug	2-Sep	4-Sep	7-Sep	11-Sep	15-Sep	16-Sep	1-Oct	6-Oct	10-Oct	11-Oct	12-Oct	16-Oct
80.11	80.28	79.92	79.90	79.62	79.90	80.02	79.80	79.78	79.09	79.02	79.00	78.98	78.96	80.50

X

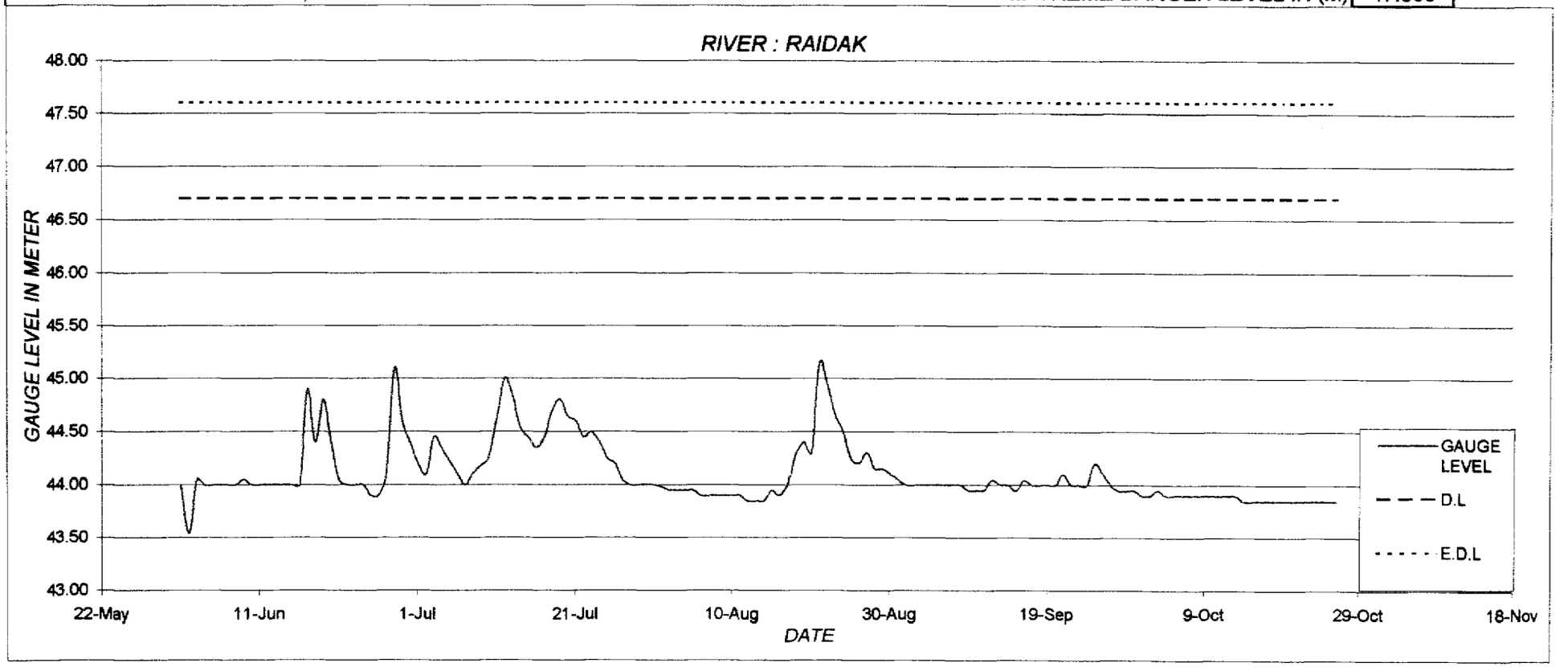
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *RAIDAK*

GAUGE STATION - *RAIDAK-I, L.R.P CROSSING*

DANGER LEVEL IN (M)	46.700
EXTREME DANGER LEVEL IN (M)	47.600



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

17-Jun-10	18-Jun-10	19-Jun-10	20-Jun-10	28-Jun-10	29-Jun-10	11-Jul-10	12-Jul-10	13-Jul-10	18-Jul-10	19-Jul-10	20-Jul-10	18-Aug	19-Aug	21-Aug
44.90	44.40	44.80	44.40	45.10	44.60	44.98	45.00	44.85	44.70	44.80	44.65	44.30	44.40	45.15

22-Aug	23-Aug	24-Aug	1-Sep	12-Sep	16-Sep	21-Sep	25-Sep	26-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct
44.95	44.65	44.50	44.00	44.05	44.05	44.10	44.20	44.10	43.90	43.90	43.95	43.90	43.90	43.90

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, I & W Dte.

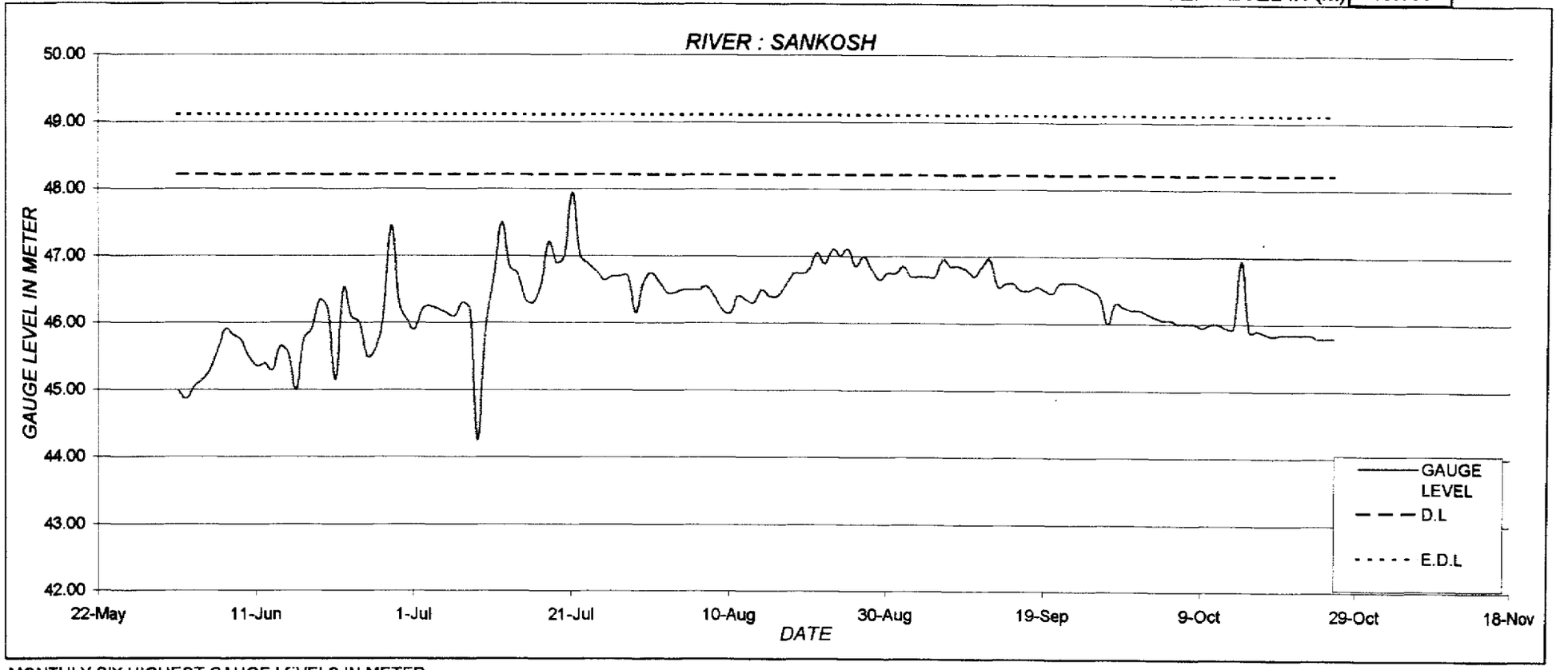
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *SANKOSH*

GAUGE STATION - *L.R.P CROSSING*

DANGER LEVEL IN (M)	48.200
EXTREME DANGER LEVEL IN (M)	49.100



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

19-Jun-10	20-Jun-10	22-Jun-10	23-Jun-10	28-Jun-10	29-Jun-10	12-Jul-10	18-Jul-10	19-Jul-10	20-Jul-10	21-Jul-10	22-Jul-10	21-Aug-10	22-Aug-10	23-Aug-10
46.35	46.2	46.5	46.1	47.45	46.3	47.5	47.2	46.9	47	47.95	47	47.05	46.9	47.1

24-Aug-10	25-Aug-10	27-Aug-10	1-Sep-10	6-Sep-10	7-Sep-10	8-Sep-10	11-Sep-10	12-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	14-Oct-10
47	47.1	47	46.85	46.95	46.85	46.85	46.85	46.95	46.2	46.15	46.1	46.05	46.05	46.95

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, I & W Dn.

G-1

INDEX FOR GAUGE LEVELS (WITH GRAPH) OF DIFFERENT GAUGE STATIONS ON DIFFERENT RIVER BASINS/SUB-BASINS.

Districtwise Actual & Normal Rainfall received from I.M.D, Alipur, Kolkata along with percent of rainfall & percent departure from the normal during Monsoon period for June 2010 to October 2010					
Sub-Division : Gengetic West Bengal					
Sl.No	Name of District	Actual	Normal	% of Rainfall	% Departure
1	Bankura	791	1165	67.90	-32.10
2	Birbhum	848	1197	70.84	-29.16
3	Burdwan	795	1206	65.92	-34.08
4	East Midnapore	1290	1463	88.17	-11.83
5	Hoogly	796	1132	70.32	-29.68
6	Howrah	1097	1360	80.66	-19.34
7	Kolkata	1332	1399	95.21	-4.79
8	Murshidabad	800	1163	68.79	-31.21
9	Nadia	665	994	66.90	-33.10
10	24 Pgs North	1012	1362	74.30	-25.70
11,	Purulia	692	1109	62.40	-37.60
12	24 Pgs South	1124	1548	72.61	-27.39
13	West Midnapore	826	1301	63.49	-36.51

Sub-Division : Sub-Himalayan West Bengal					
1	Coochbehar	2534	2621	96.68	-3.32
2	Darjeeling	3136	2377	131.93	31.93
3	Jalpaiguri	3446	2827	121.90	21.90
4	Malda	949	1158	81.95	-18.05
5	North Dinajpur	1581	1320	119.77	19.77
6	South Dinajpur	1178	1320	89.24	-10.76

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month October, 2010				
Sub-Division : Gengetic West Bengal				
Sl.No	Name of District	Actual	Normal	Departure
1	Bankura	71	105	-32
2	Birbhum	68	111	-39
3	Burdwan	50	108	-54
4	East Midnapore	158	175	-10
5	Hoogly	65	102	-36
6	Howrah	160	117	37
7	Koikata	105	151	-30
8	Murshidabad	90	124	-28
9	Nadia	110	111	-1
,10	24 Pgs North	168	125	34
11	Purulia	59	83	-29
12	24 Pgs South	149	189	-21
13	West Midnapore	94	125	-25
Total		1347	1626	-234
Average		103.62	125.08	-18.00

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	58	172	-66
2	Darjeeling	136	125	9
3	JalpaiQuri	74	161	-54
4	Malda	92	117	-21
5	North Dinajpur	69	132	-47
6	South Dinajpur	119	132	-10
Total		548	839	-189
Average		91.33	139.83	-31.50

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month September , 2010				
Sub-Division : Gengetic West Bengal				
Sl.No	Name of District	Actual	Normal	Departure
1	Bankura	199	230	-13
2	Birbhum	222	259	-14
3	Burdwan	209	240	-13
4	East Midnapore	283	339	-17
5	Hoogly	209	220	-5
6	Howrah	204	285	-28
7	Kolkata	391	291	34
8	Murshidabad	174	228	-24
9	Nadia	181	186	-3
10	24 Pgs North	203	281	-28
11	Purulia	175	251	-30
12	24 Pgs South	222	317	-30
13	West Midnapore	193	287	-33
	Total	2865	3414	-174
	Average	220.38	262.62	-13.38

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	479	470	2
2	Darjeeling	469	424	11
3	Jalpaiguri	553	540	2
4	Malda	220	237	-7
5	North Dinajpur	370	269	37
6	South Dinajpur	192	269	-29
	Total	2283	2209	16
	Average	380.50	368.17	2.67

Monthly Districtwist Actual and Normal Rainfall received from IMD Alipur, Kolkata alongwith percent departure from the normal for the month August 2010				
Sub-Division : Gengetic West Bengal				
Sl.No	Name of District	Actual	Normal	Departure
1	Bankura	136	311	-56
2	Birbhum	122	293	-59
3	Burdwan	123	304	-60
4	East Midnapore	372	354	5
5	Hoogly	190	272	-30
6	Howrah	351	356	-2
7	Kolkata	273	331	-17
8	Murshidabad	171	262	-35
9	Nadia	88	230	-62
10	24 Pgs North	214	333	-36
11	Purulia	218	292	-25
12	24 Pgs South	253	370	-32
13	West Midnapore	145	331	-56
	Total	2656	4039	-465
	Average	204.31	310.69	-35.77

Sub-Division : Sub-Himalayan West Bengal				
1	Coochbehar	500	553	-10
2	Darjeeling	914	555	64
3	Jalpaiguri	784	649	21
4	Malda	204	264	-23
5	North Dinajpur	343	243	41
6	South Dinajpur	336	243	38
	Total	3081	2507	131
	Average	513.50	417.83	21.83

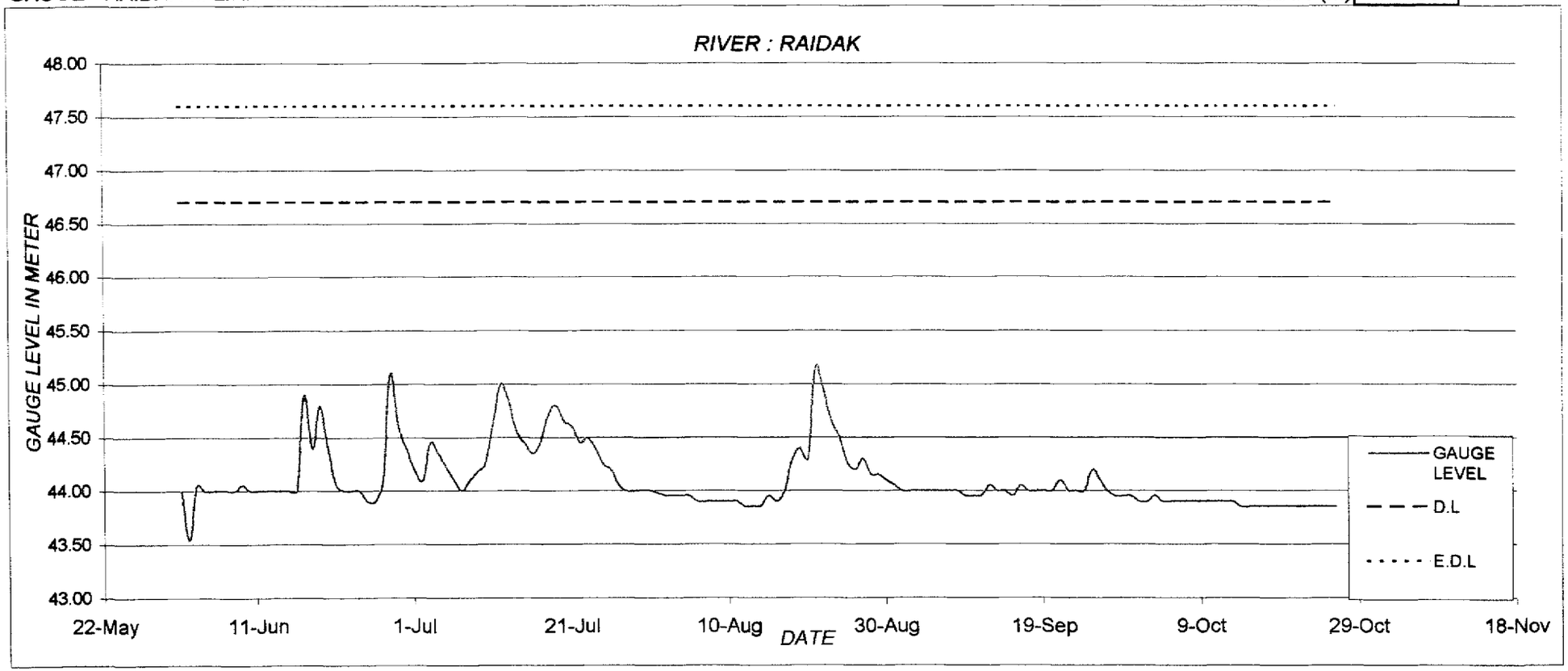
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *RAIDAK*

GAUGE - *RAIDAK-II. L.R.P CROSSING*

DANGER LEVEL IN (M)	46.700
EXTREME DANGER LEVEL IN (M)	47.600



MONTHLY HIGHEST GAUGE LEVELS IN METER

17-Jun-10	18-Jun-10	19-Jun-10	20-Jun-10	28-Jun-10	29-Jun-10	11-Jul-10	12-Jul-10	13-Jul-10	18-Jul-10	19-Jul-10	20-Jul-10	21-Aug-10	22-Aug-10	23-Aug-10
44.90	44.40	44.80	44.40	45.10	44.60	44.98	45.00	44.85	44.70	44.80	44.65	45.15	44.95	44.65

24-Aug-10	19-Aug-10	18-Aug-10	25-Sep-10	21-Sep-10	26-Sep-10	12-Sep-10	16-Sep-10	1-Sep-10	3-Oct	1-Oct	2-Oct	4-Oct	5-Oct	6-Oct
44.50	44.40	44.30	44.20	44.10	44.10	44.05	44.05	44.00	43.95	43.90	43.90	43.90	43.90	43.90

Surface Planning, Project Evaluation & Monitoring Cell, S & W Dte.

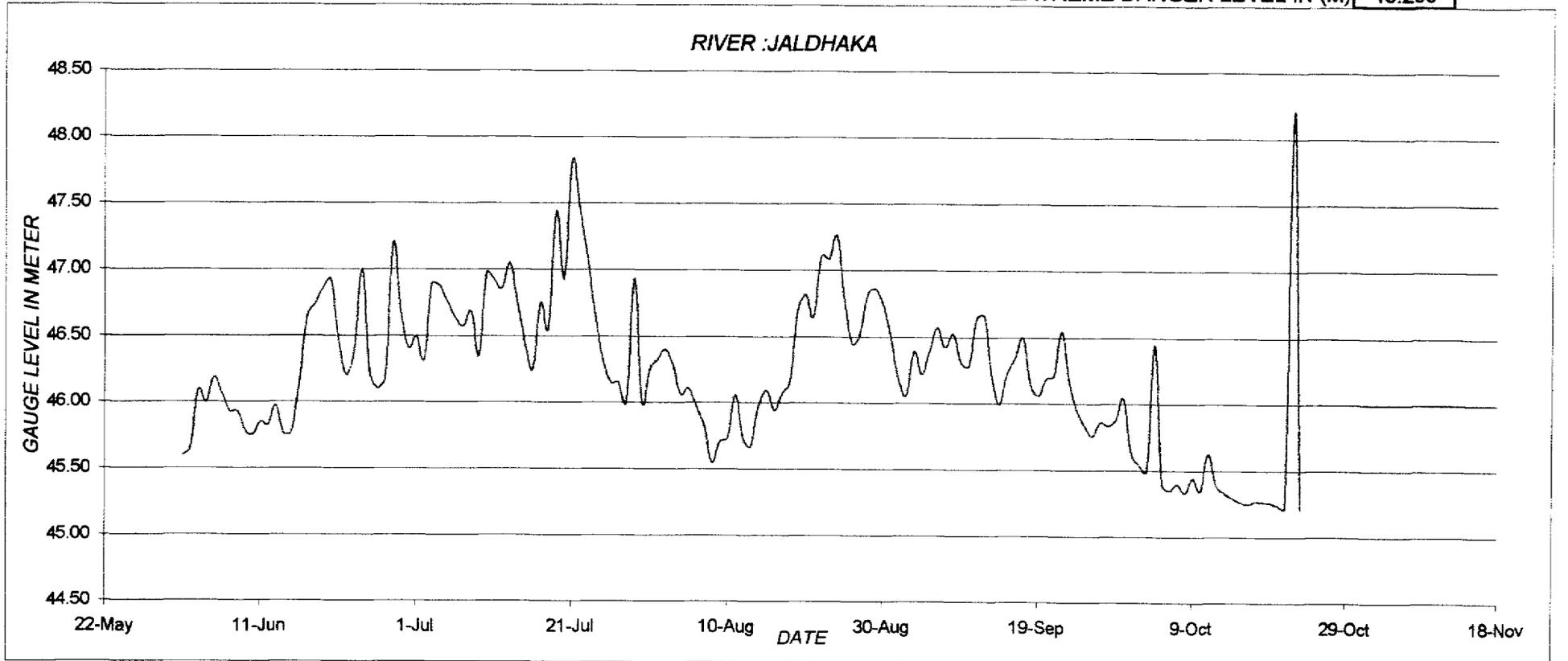
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *JALDHAKA*

GAUGE - MANSAI / MATHABHANGA

DANGER LEVEL IN (M)	47.700
EXTREME DANGER LEVEL IN (M)	48.200



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

28-Jun-10	24-Jun-10	20-Jun-10	19-Jun-10	18-Jun-10	29-Jun-10	21-Jul-10	22-Jul-10	19-Jul-10	23-Jul-10	13-Jul-10	10-Jul-10	24-Aug-10	22-Aug-10	23-Aug-10
47.20	47.00	46.92	46.86	46.74	46.67	47.82	47.45	47.44	47.09	47.05	46.98	47.26	47.11	47.08

29-Aug-10	20-Aug-10	28-Aug-10	12-Sep-10	11-Sep-10	6-Sep-10	22-Sep-10	8-Sep-10	17-Sep-10	22-Oct-10	4-Oct-10	1-Oct-10	11-Oct-10	2-Oct-10	3-Oct-10
46.86	46.82	46.82	46.65	46.64	46.57	46.54	46.52	46.50	48.21	46.45	45.64	45.63	45.54	45.49

Drainage Planning, Project Evaluation & Monitoring Cell, S & W Dte.

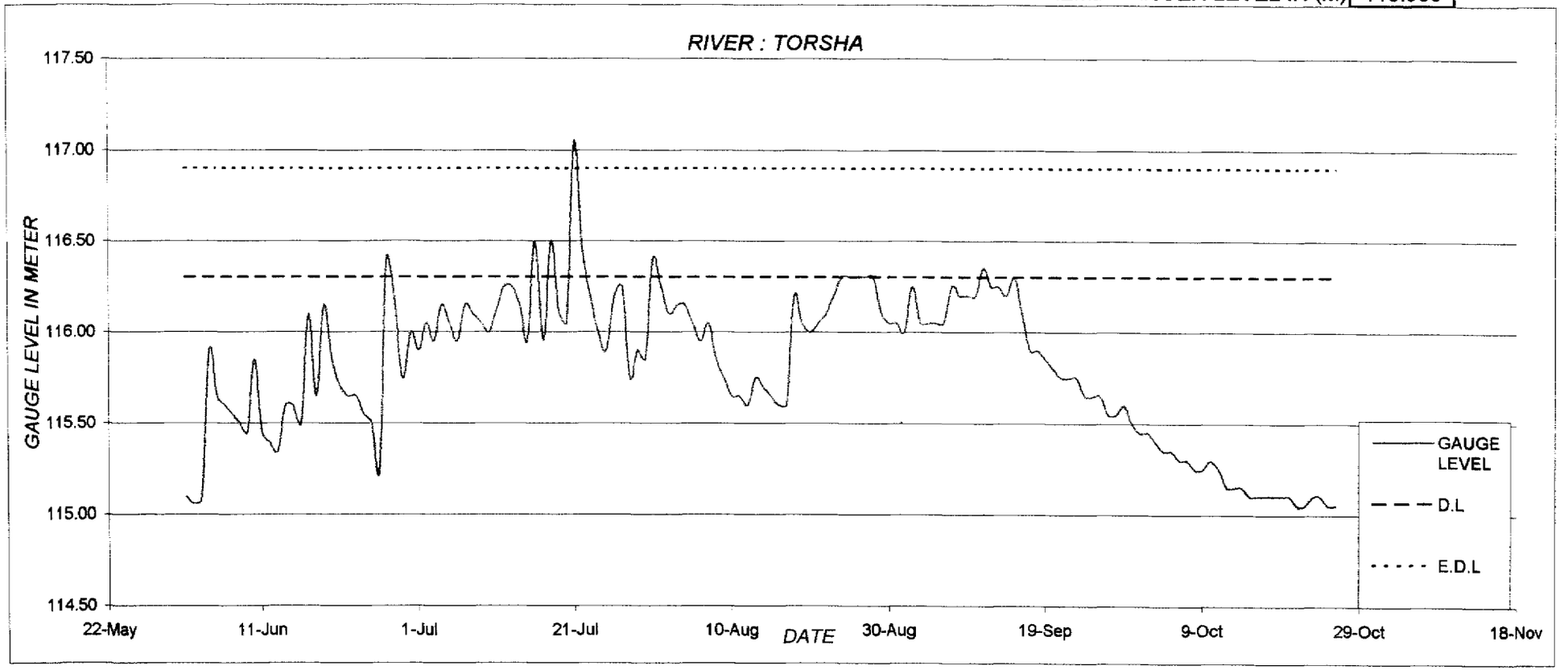
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *TORSA*

GAUGE STATION - *HASIMARA*

DANGER LEVEL IN (M)	116.300
EXTREME DANGER LEVEL IN (M)	116.900



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

4-Jun-10	17-Jun-10	19-Jun-10	27-Jun-10	28-Jun-10	30-Jun-10	31-Jul-10	22-Jul-10	21-Jul-10	18-Jul-10	16-Jul-10	12-Jul-10	1-Aug-10	24-Aug-10	25-Aug-10
115.9	116.1	116.15	116.4	116.2	116	116.40	116.45	117.05	116.50	116.50	116.25	116.25	116.30	116.30

26-Aug-10	27-Aug-10	28-Aug-10	11-Sep-10	15-Sep-10	2-Sep-10	7-Sep-10	12-Sep-10	13-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
116.30	116.30	116.30	116.35	116.30	116.25	116.25	116.25	116.25	115.45	115.45	115.40	115.35	115.35	115.30

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, S & W Dte.

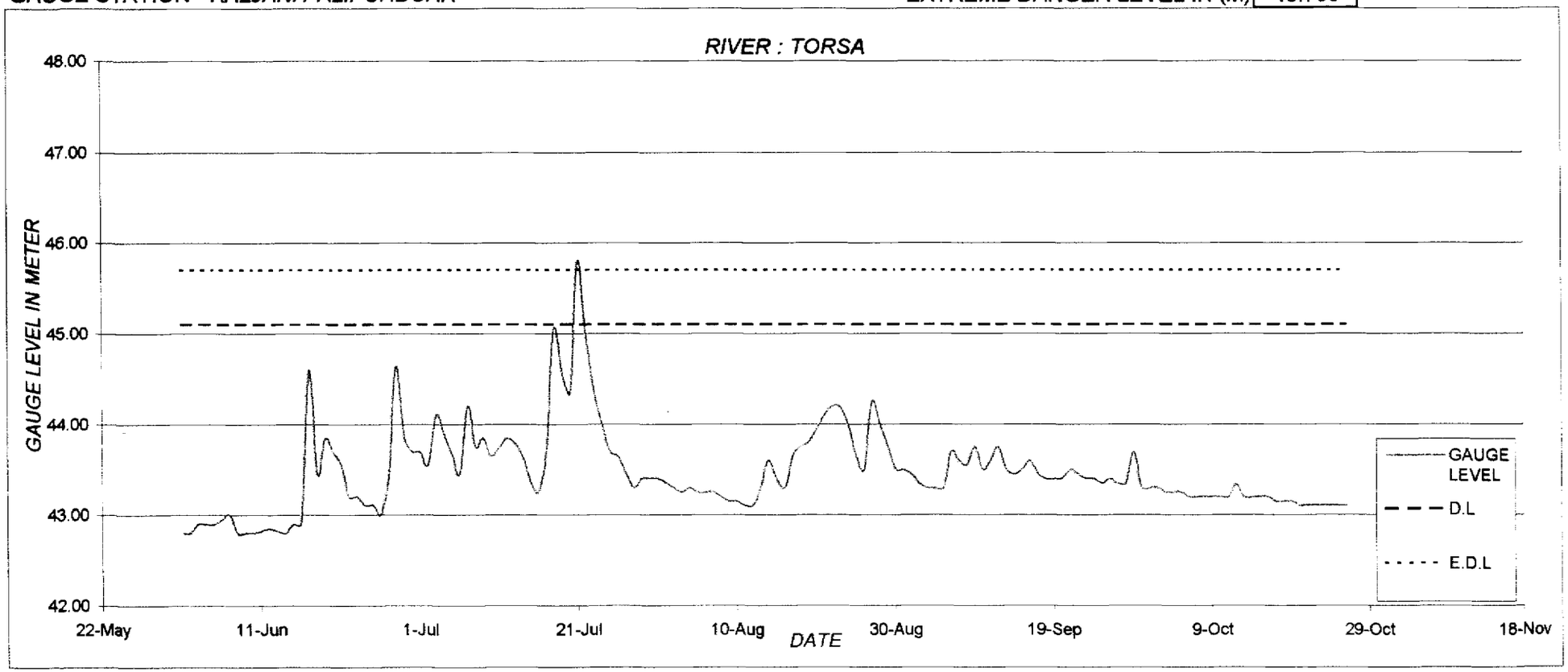
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *TORSA*

GAUGE STATION - *KALJANI / ALIPURDUAR*

DANGER LEVEL IN (M)	45.100
EXTREME DANGER LEVEL IN (M)	45.700



MONTHLY SIX HIGHEST GAUGE LEVELS IN METE

17-Jun	19-Jun	20-Jun	28-Jun	29-Jun	30-Jun	9-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	21-Aug	22-Aug	23-Aug
44.60	43.85	43.70	44.65	43.85	43.70	[illegible]	45.05	44.55	44.35	45.80	45.00	44.10	44.20	44.20

24-Aug	27-Aug	28-Aug	6-Sep	7-Sep	9-Sep	11-Sep	12-Sep	29-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	12-Oct
44.00	44.25	44.00	43.70	43.60	43.75	43.60	43.75	43.70	43.30	43.30	43.25	43.25	43.25	43.34

[illegible]

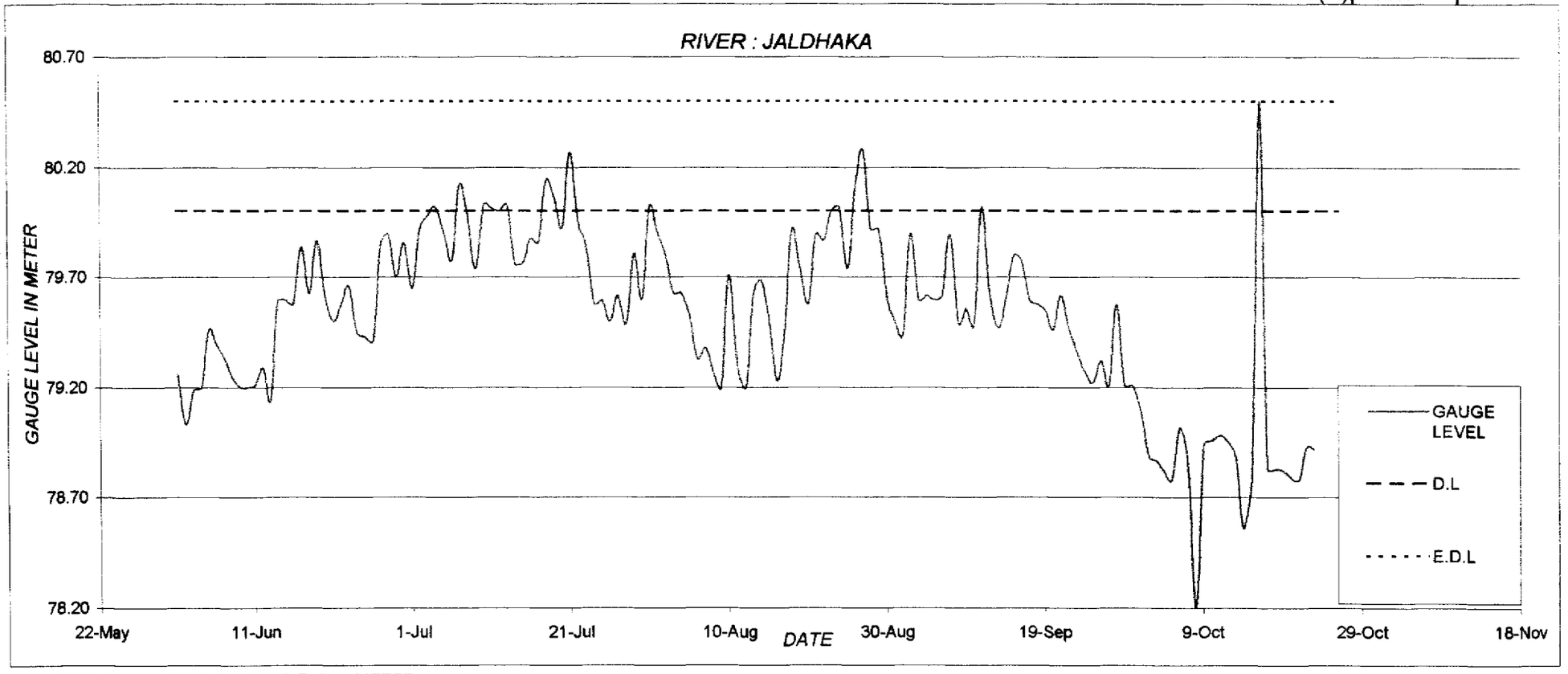
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *JALDHAKA*

GAUGE STATION - *N.H.-31 CROSSING*

DANGER LEVEL IN (M)	80.000
EXTREME DANGER LEVEL IN (M)	80.500



MONTHLY SIX HIGHEST GUGE LEVELS IN METER

17-Jun	19-Jun	27-Jun	28-Jun	29-Jun	30-Jun	7-Jul	10-Jul	13-Jul	18-Jul	19-Jul	21-Jul	18-Aug	23-Aug	24-Aug
79.84	79.87	79.85	79.9	79.7	79.86	80.12	80.03	80.03	80.14	80.06	80.27	79.92	80.00	80.02

26-Aug	27-Aug	28-Aug	2-Sep	4-Sep	7-Sep	11-Sep	15-Sep	16-Sep	1-Oct	6-Oct	10-Oct	11-Oct	12-Oct	16-Oct
80.11	80.28	79.92	79.90	79.62	79.90	80.02	79.80	79.78	79.09	79.02	79.00	78.98	78.96	80.50

Irrigation Planning, Project Evaluation & Monitoring Cell, J & W Dte.

9-D

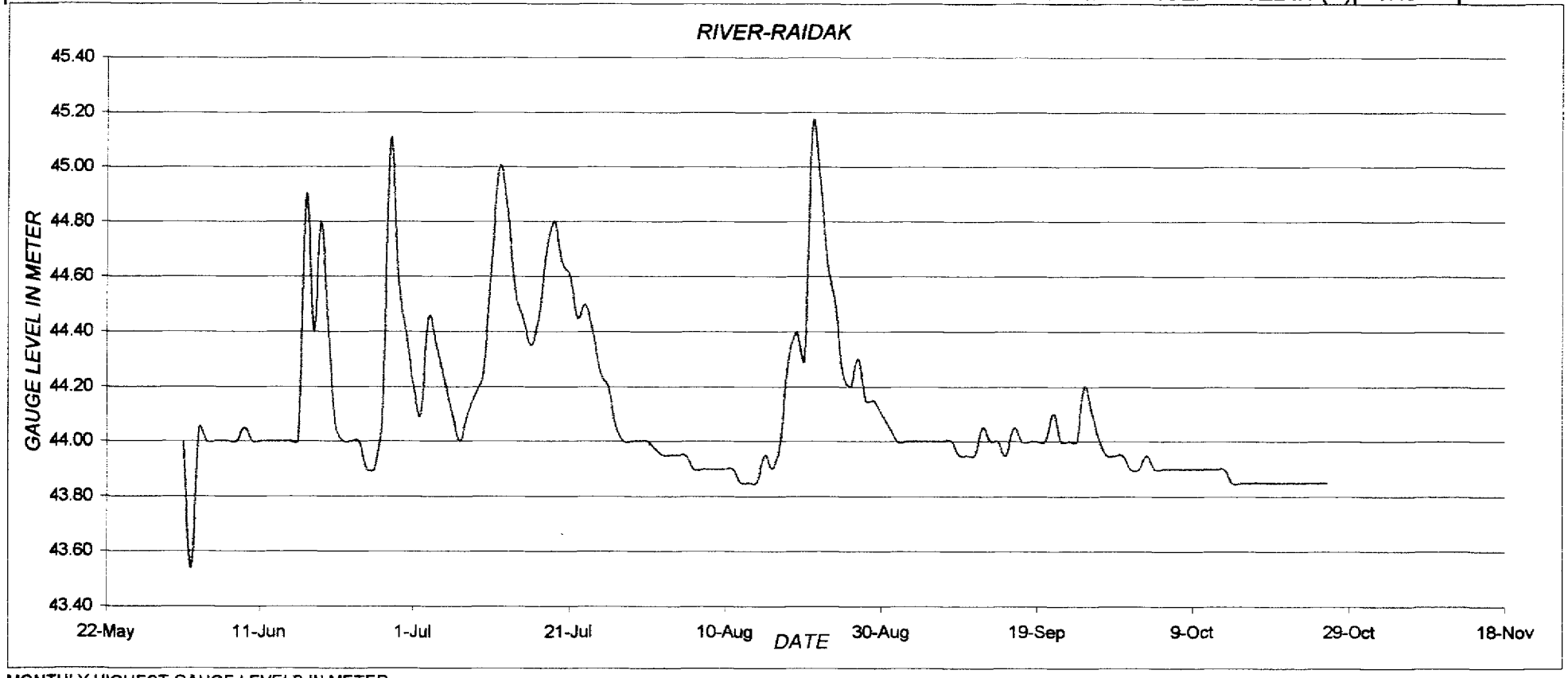
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *RAIDAK*

GAUGE STATION - *RAIDAK-I, L.R.P CROSSING*

DANGER LEVEL IN (M)	46.700
EXTREME DANGER LEVEL IN (M)	47.600



MONTHLY HIGHEST GAUGE LEVELS IN METER

17-Jun-10	18-Jun-10	19-Jun-10	20-Jun-10	28-Jun-10	29-Jun-10	11-Jul-10	12-Jul-10	13-Jul-10	18-Jul-10	19-Jul-10	20-Jul-10	18-Aug	19-Aug	21-Aug
44.90	44.40	44.80	44.40	45.10	44.60	44.98	45.00	44.85	44.70	44.80	44.65	44.30	44.40	45.15

22-Aug	23-Aug	24-Aug	1-Sep	12-Sep	16-Sep	21-Sep	25-Sep	26-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct
44.95	44.65	44.50	44.00	44.05	44.05	44.10	44.20	44.10	43.90	43.90	43.95	43.90	43.90	43.90

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, J & W Dte.

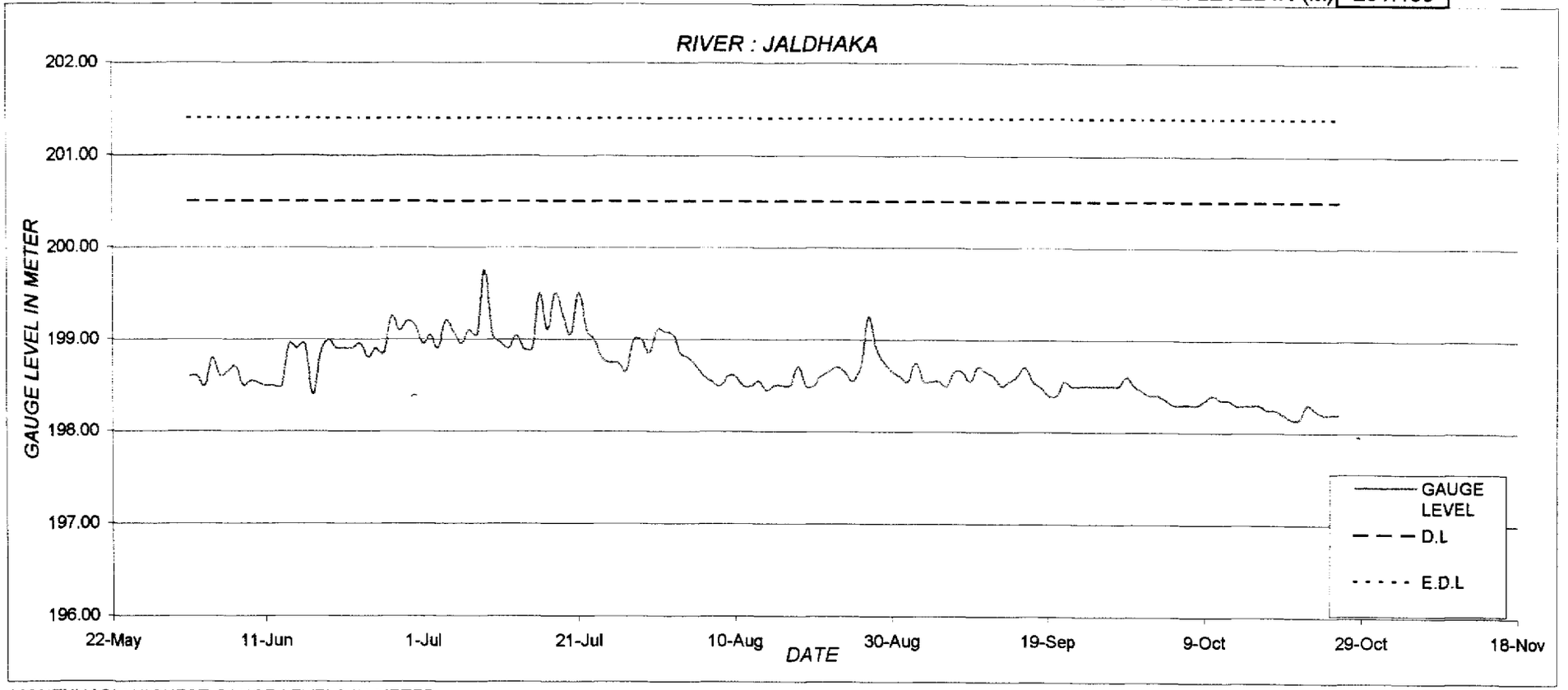
GAUGE LEVEL OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *JAIDHAKA*

GAUGE STASTION - *DIANA / CHENGMARI*

DANGER LEVEL IN (M)	200.500
EXTREME DANGER LEVEL IN (M)	201.400



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

14-Jun-10	19-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	4-Jul-10	9-Jul-10	16-Jul-10	18-Jul-10	19-Jul-10	21-Jul-10	2-Aug-10	3-Aug-10	4-Aug-10
198.95	199	199.25	199.1	199.2	199.15	199.20	199.75	199.50	199.50	199.25	199.50	199.05	198.85	198.80

27-Aug-10	28-Aug-10	29-Aug-10	2-Sep-10	7-Sep-10	8-Sep-10	10-Sep-10	11-Sep-10	16-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	9-Oct-10	10-Oct-10
199.25	198.90	198.75	198.75	198.65	198.65	198.70	198.65	198.70	198.45	198.40	198.40	198.35	198.35	198.40

Advance Planning, Project Evaluation & Monitoring Cell, BWDB.

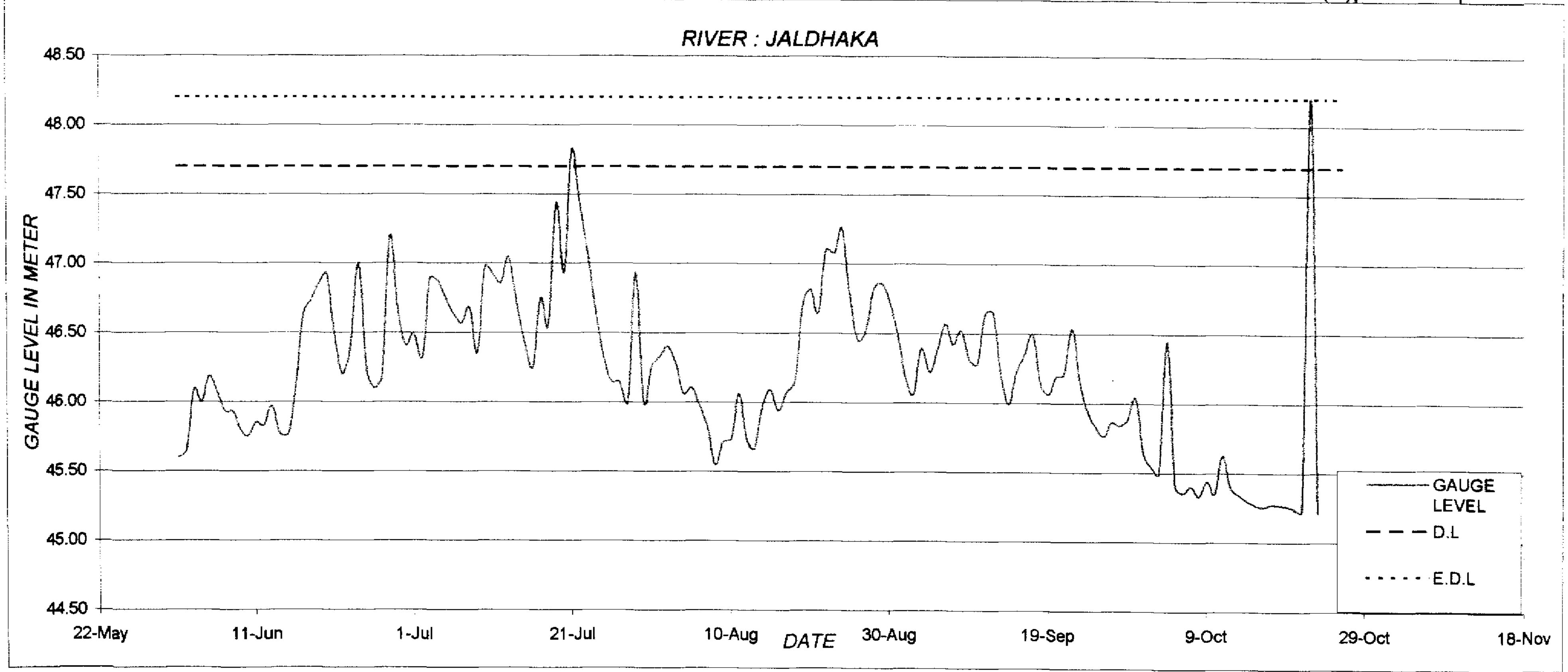
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *JALDHAKA*

GAUGE - *MANSAI / MATHABHANGA*

DANGER LEVEL IN (M)	47.700
EXTREME DANGER LEVEL IN (M)	48.200



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

28-Jun-10	24-Jun-10	20-Jun-10	19-Jun-10	18-Jun-10	29-Jun-10	21-Jul-10	22-Jul-10	19-Jul-10	23-Jul-10	13-Jul-10	10-Jul-10	24-Aug-10	22-Aug-10	23-Aug-10
47.20	47.00	46.92	46.86	46.74	46.67	47.82	47.45	47.44	47.09	47.05	46.98	47.26	47.11	47.08

29-Aug-10	20-Aug-10	28-Aug-10	12-Sep-10	11-Sep-10	6-Sep-10	22-Sep-10	8-Sep-10	17-Sep-10	22-Oct-10	4-Oct-10	1-Oct-10	11-Oct-10	2-Oct-10	3-Oct-10
46.86	46.82	46.82	46.65	46.64	46.57	46.54	46.52	46.50	48.21	46.45	45.64	45.63	45.54	45.49

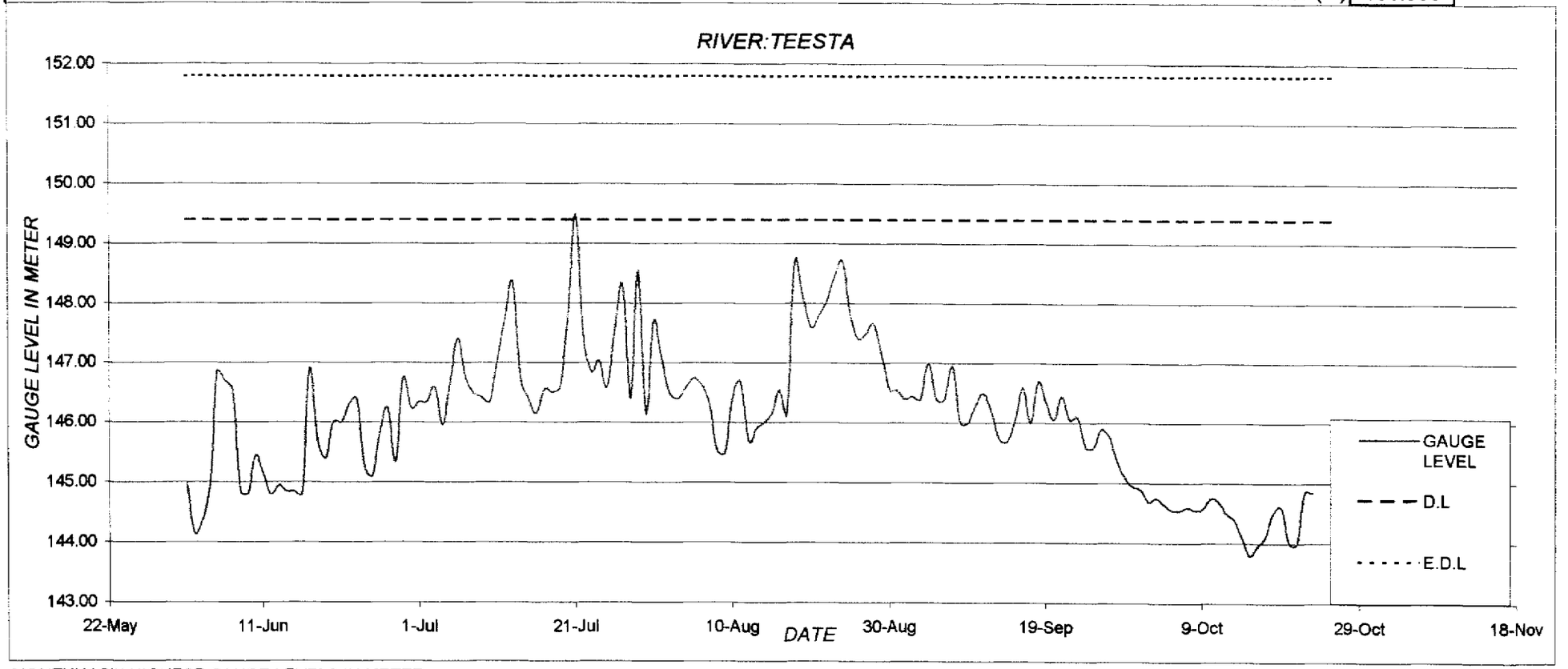
GAUGE LEVEL OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *TEESTA*

GAUGE STATION - *CORONATION BRIDGE*

DANGER LEVEL IN (M)	149.400
EXTREME DANGER LEVEL IN (M)	151.800



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

5-Jun-10	6-Jun-10	7-Jun-10	17-Jun-10	23-Jun-10	29-Jun-10	12-Jul-10	13-Jul-10	20-Jul-10	21-Jul-10	27-Jul-10	29-Jul-10	18-Aug-10	19-Aug-10	21-Aug-10
146.85	146.70	146.55	146.90	146.40	146.75	147.75	148.35	147.80	149.50	148.30	148.55	148.70	148.15	147.80
22-Aug-10	23-Aug-10	24-Aug-10	2-Sep-10	4-Sep-10	7-Sep-10	11-Sep-10	16-Sep-10	18-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	10-Oct-10	22-Oct-10	23-Oct-10
148.05	148.45	148.70	146.45	147.00	146.95	146.50	146.60	146.70	144.90	144.70	144.75	144.75	144.85	144.85

ADVANCE PLANNING, PROJECT FORMULATION & MONITORING CELL, F & W Dte.

Ex-9

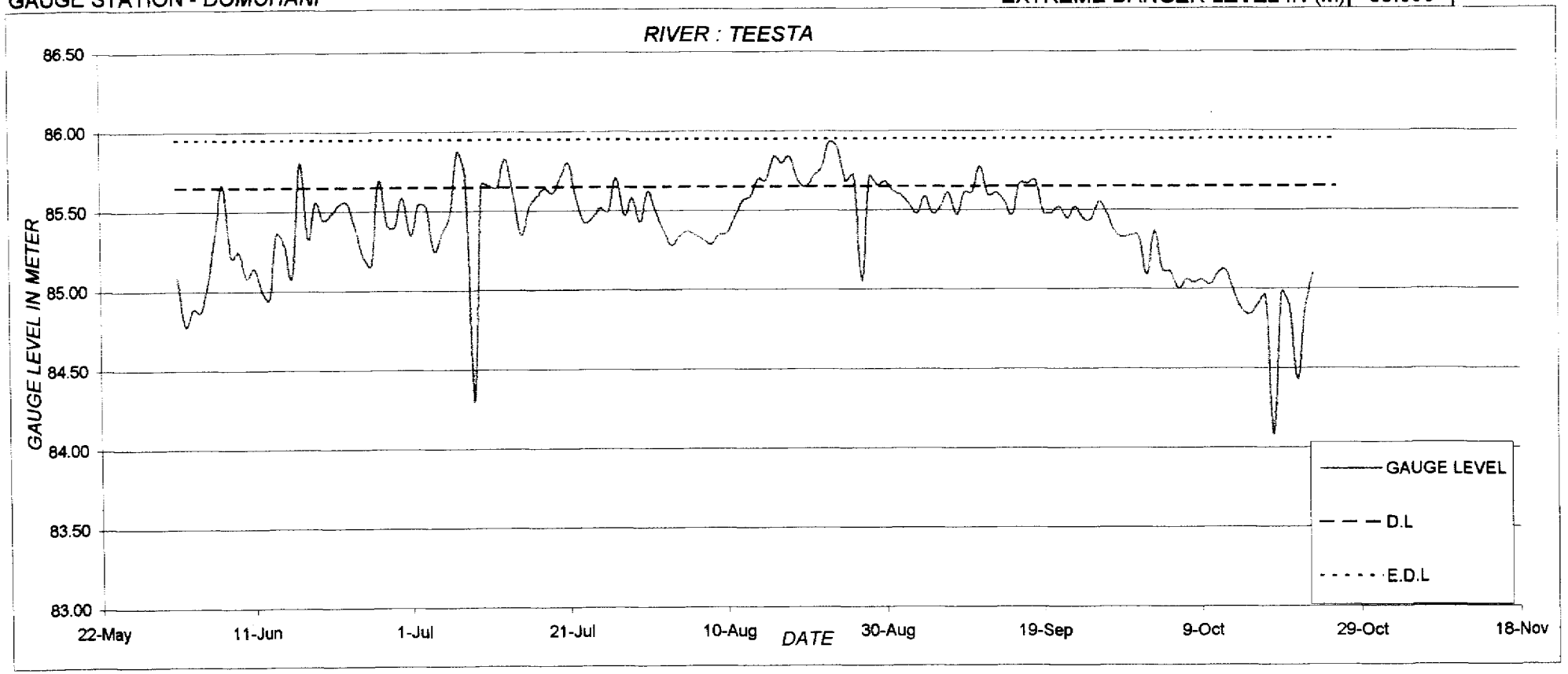
GAUGE LEVEL OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *TEESTA*

GAUGE STATION - *DOMOHANI*

DANGER LEVEL IN (M)	85.650
EXTREME DANGER LEVEL IN (M)	85.950



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

7-Jun-10	17-Jun-10	19-Jun-10	23-Jun-10	27-Jun-10	30-Jun-10	7-Jul-10	9-Jul-10	13-Jul-10	20-Jul-10	21-Jul-10	27-Jul-10	16-Aug-10	17-Aug-10	18-Aug-10
85.67	85.81	85.56	85.55	85.69	85.59	85.88	114.30	85.83	85.72	85.80	85.71	85.84	85.80	85.84

22-Aug-10	23-Aug-10	24-Aug-10	7-Sep-10	9-Sep-10	11-Sep-10	16-Sep-10	17-Sep-10	18-Sep-10	1-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	11-Oct-10	12-Oct-10
85.77	85.93	85.90	85.61	85.61	85.78	85.67	85.67	85.69	85.34	85.37	85.12	85.11	85.10	85.12

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, S&W Dte.

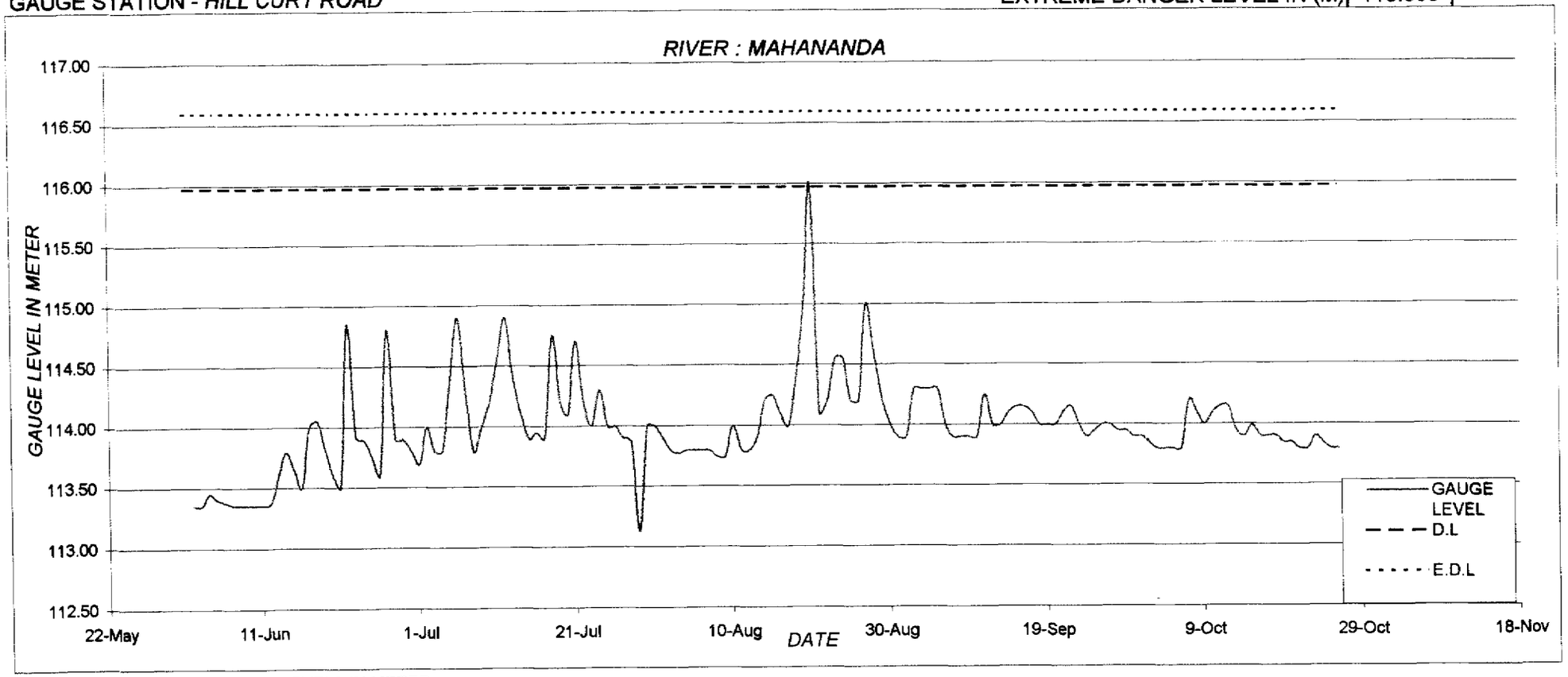
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *MAHANANDA*

GAUGE STATION - *HILL CURT ROAD*

DANGER LEVEL IN (M)	115.970
EXTREME DANGER LEVEL IN (M)	116.590



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

17-Jun-10	18-Jun-10	22-Jun-10	23-Jun-10	27-Jun-10	28-Jun-10	6-Jul-10	11-Jul-10	12-Jul-10	13-Jul-10	18-Jul-10	21-Jul-10	19-Aug-10	20-Aug-10	23-Aug-10
114.00	114.05	114.85	113.93	114.80	113.90	114.90	114.90	114.90	114.40	114.75	114.70	115.00	116.00	114.55

24-Aug-10	27-Aug-10	28-Aug-10	2-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	11-Sep-10	15-Sep-10	7-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10
114.55	115.00	57.50	114.30	114.30	114.30	114.30	114.25	114.15	114.20	114.10	114.00	114.10	114.15	114.15

ADVANCE PLANNING PROJECT EVALUATION & MONITORING CELL, S & W Dte.

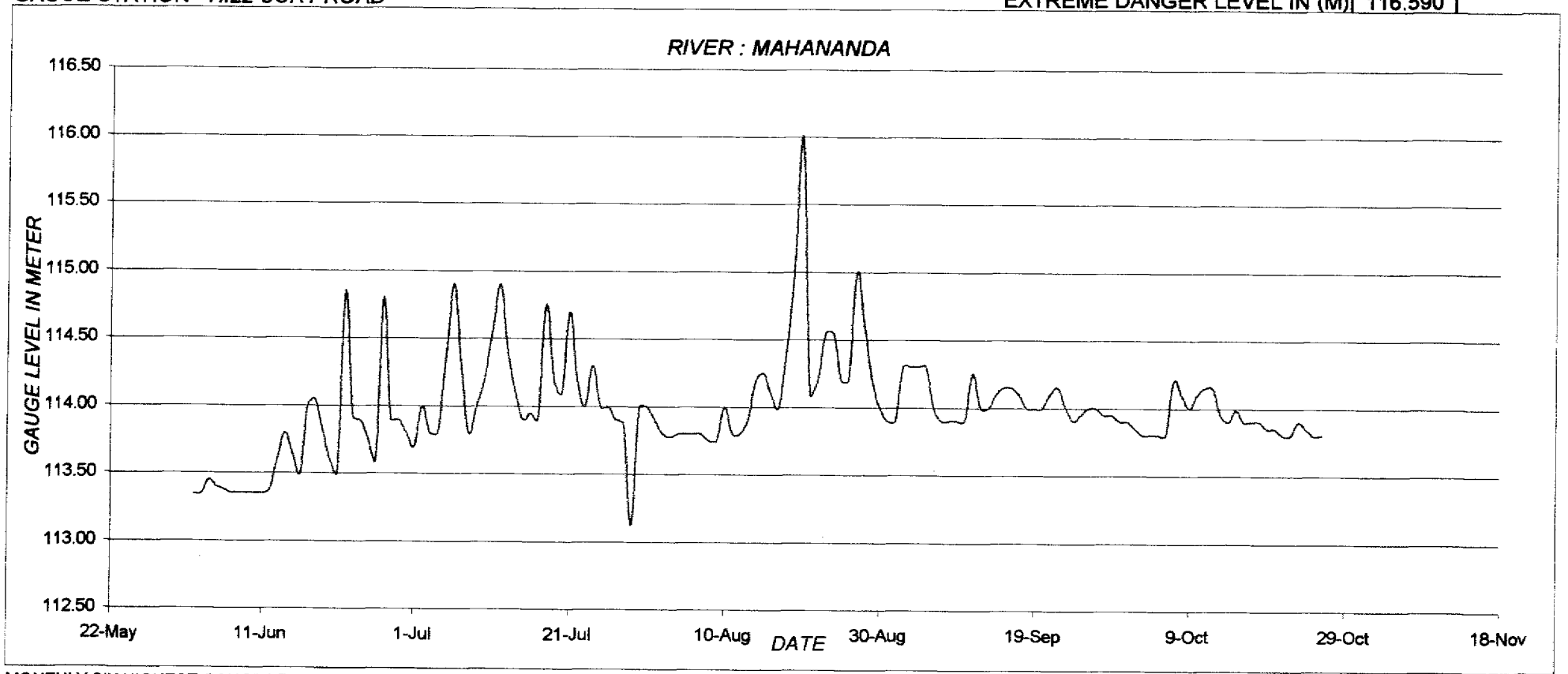
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *MAHANANDA*

GAUGE STATION - *HILL CURT ROAD*

DANGER LEVEL IN (M)	115.970
EXTREME DANGER LEVEL IN (M)	116.590



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

17-Jun-10	18-Jun-10	22-Jun-10	23-Jun-10	27-Jun-10	28-Jun-10	6-Jul-10	11-Jul-10	12-Jul-10	13-Jul-10	18-Jul-10	21-Jul-10	19-Aug-10	20-Aug-10	23-Aug-10
114	114.05	114.85	113.925	114.8	113.9	114.90	114.90	114.9	114.40	114.75	114.70	115.00	116.00	114.55

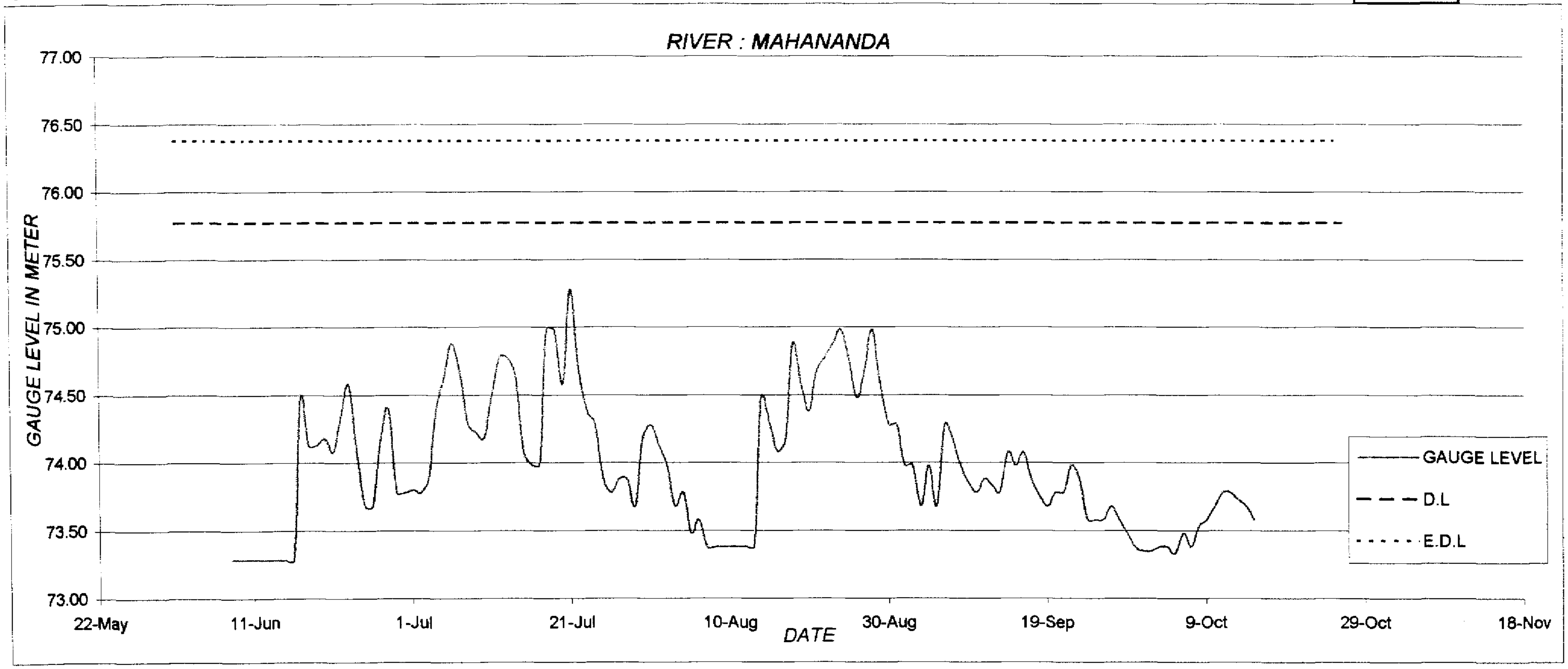
24-Aug-10	27-Aug-10	28-Aug-10	2-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	11-Sep-10	15-Sep-10	7-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10
114.55	115.00	57.50	114.30	114.30	114.30	114.30	114.25	114.15	114.20	114.10	114.00	114.10	114.15	114.15

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, I & W Dn.

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *MAHANANDA*
GAUGE STATION - *SONAPUR*

DANGER LEVEL IN (M) 75.770
EXTREME DANGER LEVEL 76.380



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

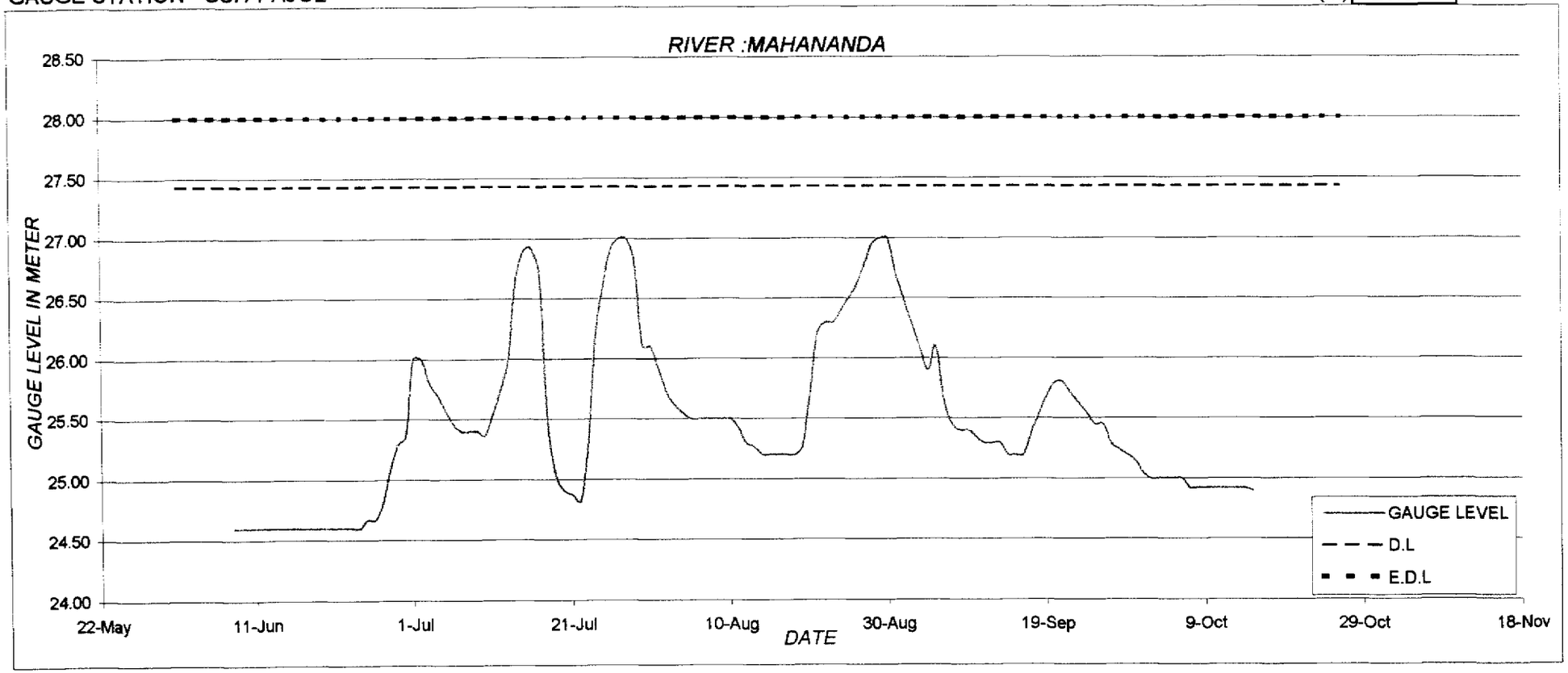
17-Jun-10	20-Jun-10	22-Jun-10	23-Jun-10	27-Jun-10	28-Jun-10	6-Jul-10	12-Jul-10	13-Jul-10	18-Jul-10	19-Jul-10	21-Jul-10	18-Aug-10	22-Aug-10	23-Aug-10
74.48	74.18	74.33	74.58	74.18	74.40	74.88	74.78	74.78	74.98	74.98	75.28	74.88	74.78	74.88

24-Aug-10	25-Aug-10	28-Aug-10	1-Sep-10	2-Sep-10	6-Sep-10	7-Sep-10	14-Sep-10	16-Sep-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	13-Oct-10	14-Oct-10
74.98	74.78	74.98	73.98	73.98	74.28	74.18	74.08	74.08	73.58	73.68	73.78	73.78	73.73	73.68

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *MAHANANDA*
GAUGE STATION - *SUI / PAJOL*

DANGER LEVEL IN (M)	27.430
EXTREME DANGER LEVEL IN (M)	28.000



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	9-Jul-10	16-Jul-10	15-Jul-10	26-Jul-10	27-Jul-10	28-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
24.67	24.67	24.80	25.10	25.30	25.37	28.80	26.92	26.90	26.90	27.00	27.00	26.60	26.77	26.95

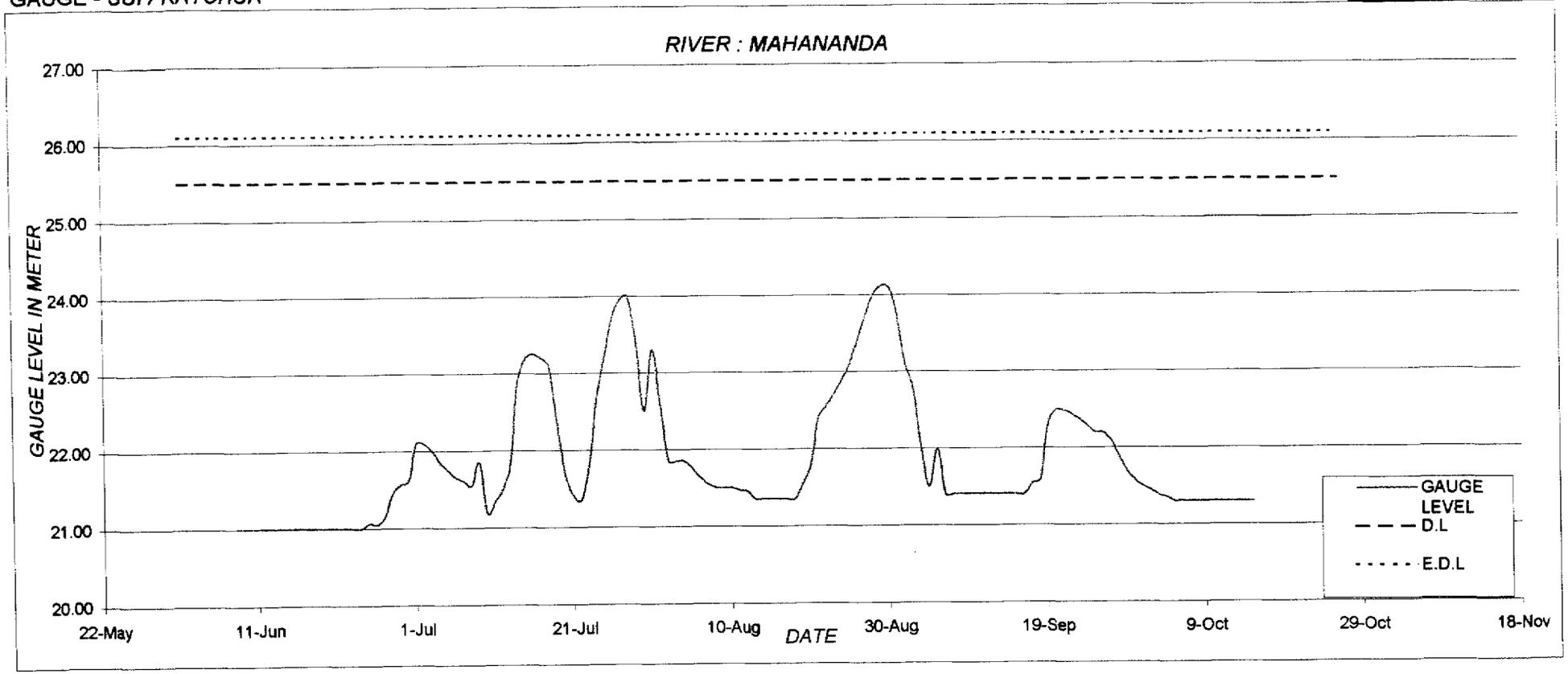
29-Aug-10	30-Aug-10	31-Aug-10	1-Sep-10	2-Sep-10	3-Sep-10	5-Sep-10	4-Sep-10	20-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
27.00	27.00	26.70	26.50	26.30	26.10	26.10	25.90	25.80	25.05	25.00	25.00	25.00	25.00	25.00

ADVANCE PLANNING, PROJECTS EVALUATION & MANAGEMENT CELL, I & W Dte.

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *MAHANANDA*
GAUGE - *SUI / KATCHUA*

DANGER LEVEL IN (M)	25.490
EXTREME DANGER LEVEL IN (M)	26.090



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	9-Jul-10	15-Jul-10	16-Jul-10	26-Jul-10	27-Jul-10	28-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
24.67	24.67	24.80	25.10	25.30	25.37	28.80	26.90	26.92	26.90	27.00	27.00	26.60	26.77	26.95

29-Aug-10	30-Aug-10	31-Aug-10	1-Sep-10	2-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	20-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
27.00	27.00	26.70	26.50	26.30	26.10	25.90	26.10	25.80	25.05	25.00	25.00	25.00	25.00	25.00

ADVANCE PLANNING, PROJECT EVALUATION & MANAGEMENT CELL, S & W Dte.

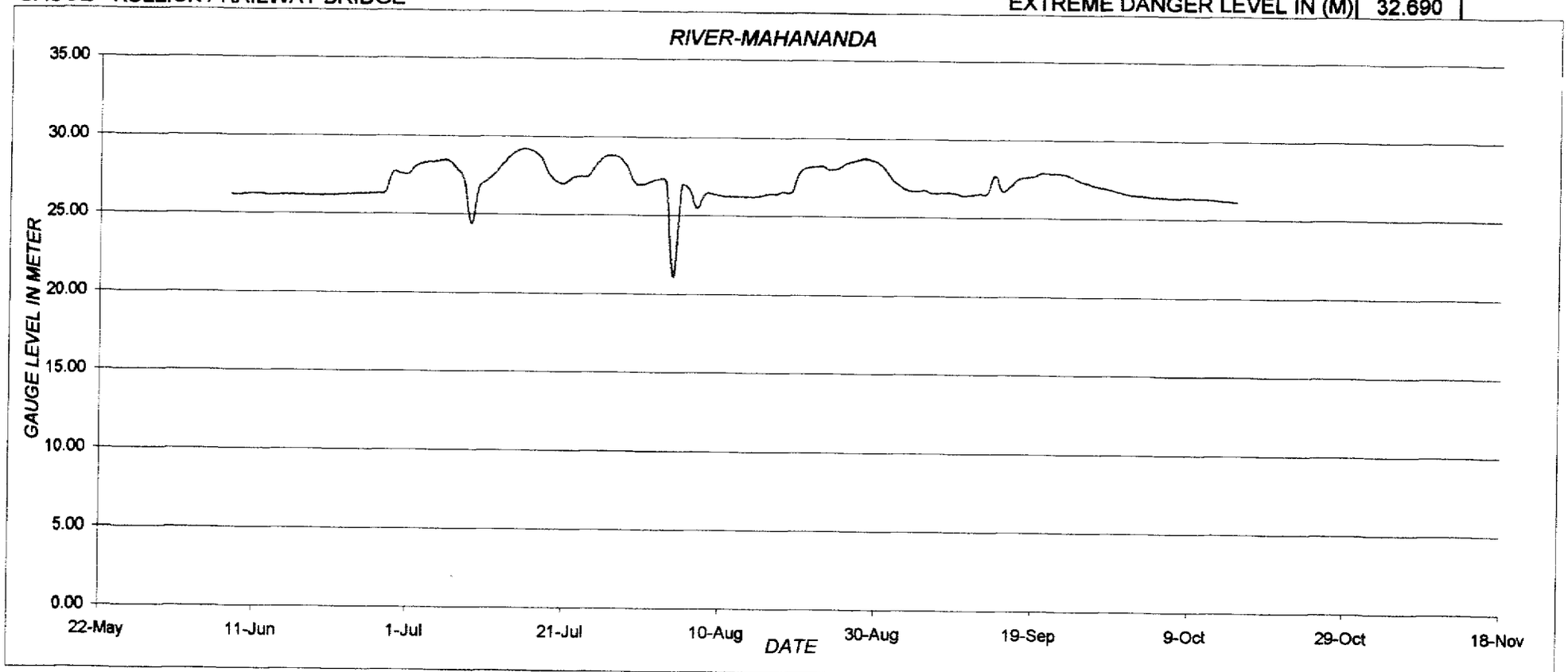
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - MAHANANDA

GAUGE - KULLICK / RAILWAY BRIDGE

DANGER LEVEL IN (M)	31.200
EXTREME DANGER LEVEL IN (M)	32.690



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

24-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	26-Jul-10	27-Jul-10	23-Aug-10	26-Aug-10	27-Aug-10
26.27	26.30	26.32	26.40	27.65	27.62	28.72	29.08	29.20	29.00	28.70	28.80	28.25	28.40	28.55

28-Aug-10	29-Aug-10	30-Aug-10	14-Sep-10	19-Sep-10	20-Sep-10	21-Sep-10	22-Sep-10	23-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
28.68	28.70	28.52	27.72	27.70	27.90	27.88	27.85	27.82	26.60	26.52	26.48	26.42	26.38	26.35

ADVANCE PLANNING, PROJECT FORMULATION & MONITORING CELL, I & W Dte.

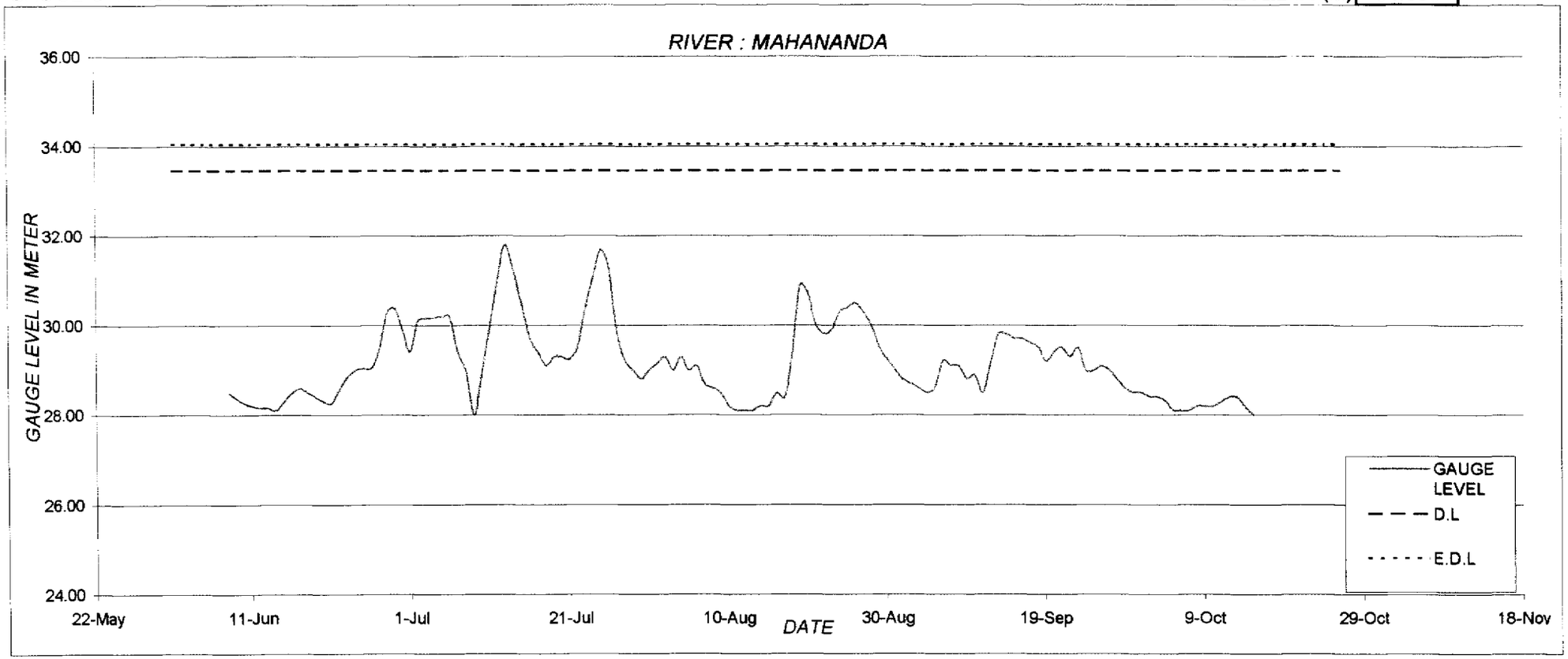
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - ***MAHANANDA***

GAUGE STATION - *TANGON / RADHIKAPUR*

DANGER LEVEL IN (M)	33.450
EXTREME DANGER LEVEL IN (M)	34.050



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	13-Jul-10	25-Jul-10	26-Jul-10	14-Jul-10	24-Jul-10	12-Jul-10	19-Aug-10	20-Aug-10	26-Aug-10
29.05	29.05	29.40	30.25	30.40	29.90	31.80	31.70	31.30	31.25	31.05	31.00	30.90	30.70	30.50

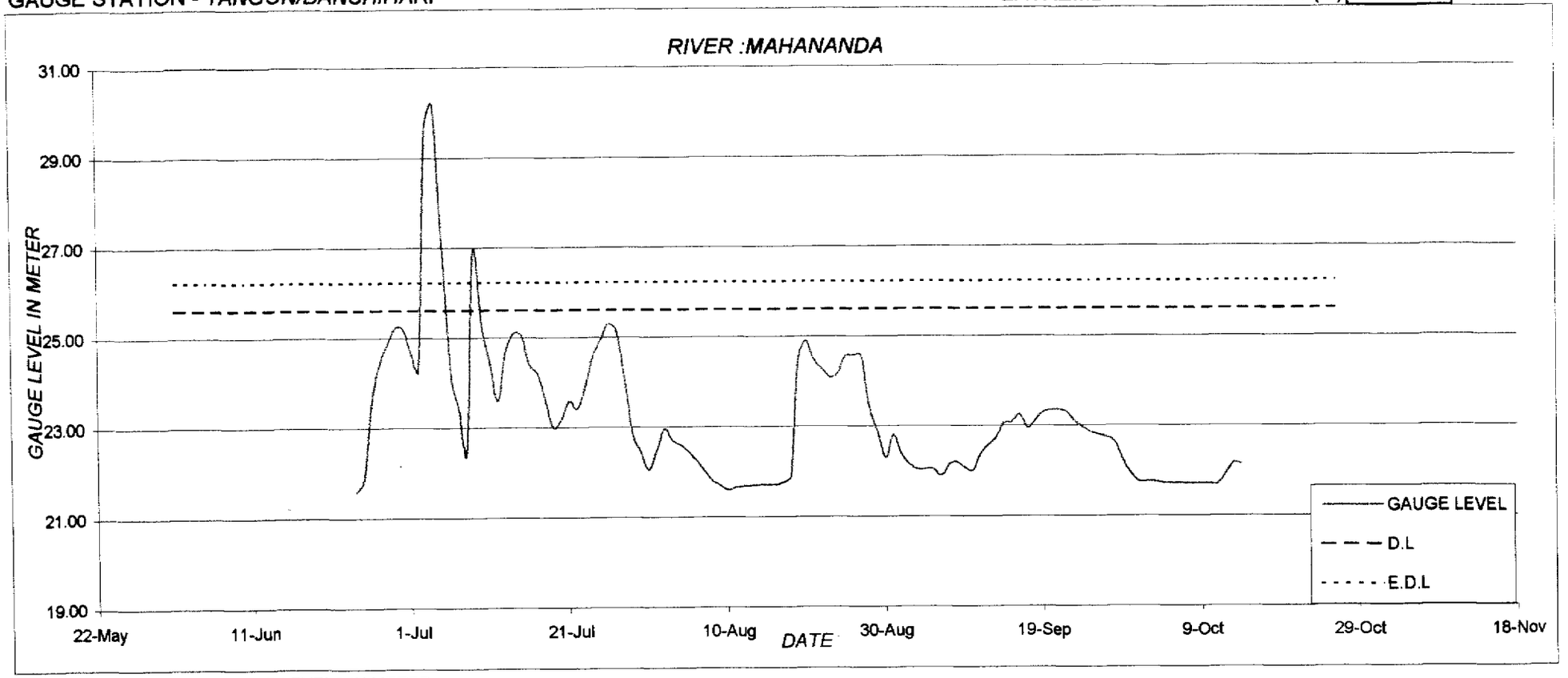
25-Aug-10	24-Aug-10	27-Aug-10	13-Sep-10	14-Sep-10	15-Sep-10	16-Sep-10	17-Sep-10	18-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	12-Oct-10	13-Oct-10	4-Oct-10
30.40	30.30	30.30	29.80	29.80	29.70	29.70	29.60	29.50	28.50	28.40	28.40	28.40	28.40	28.30

ADVANCED PLANNING, DESIGN & MANAGEMENT PVT. LTD.

GAUGE LEVEL OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *MAHANANDA*
GAUGE STATION - *TANGON/BANSHIHARI*

DANGER LEVEL IN (M)	25.600
EXTREME DANGER LEVEL IN (M)	26.210



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	3-Jul-10	4-Jul-10	5-Jul-10	9-Jul-10	10-Jul-10	26-Jul-10	1-Aug-10	20-Aug-10	21-Aug-10
21.85	23.54	24.38	24.80	25.22	25.20	29.70	30.20	28.55	26.90	13.45	25.30	22.50	24.90	24.50

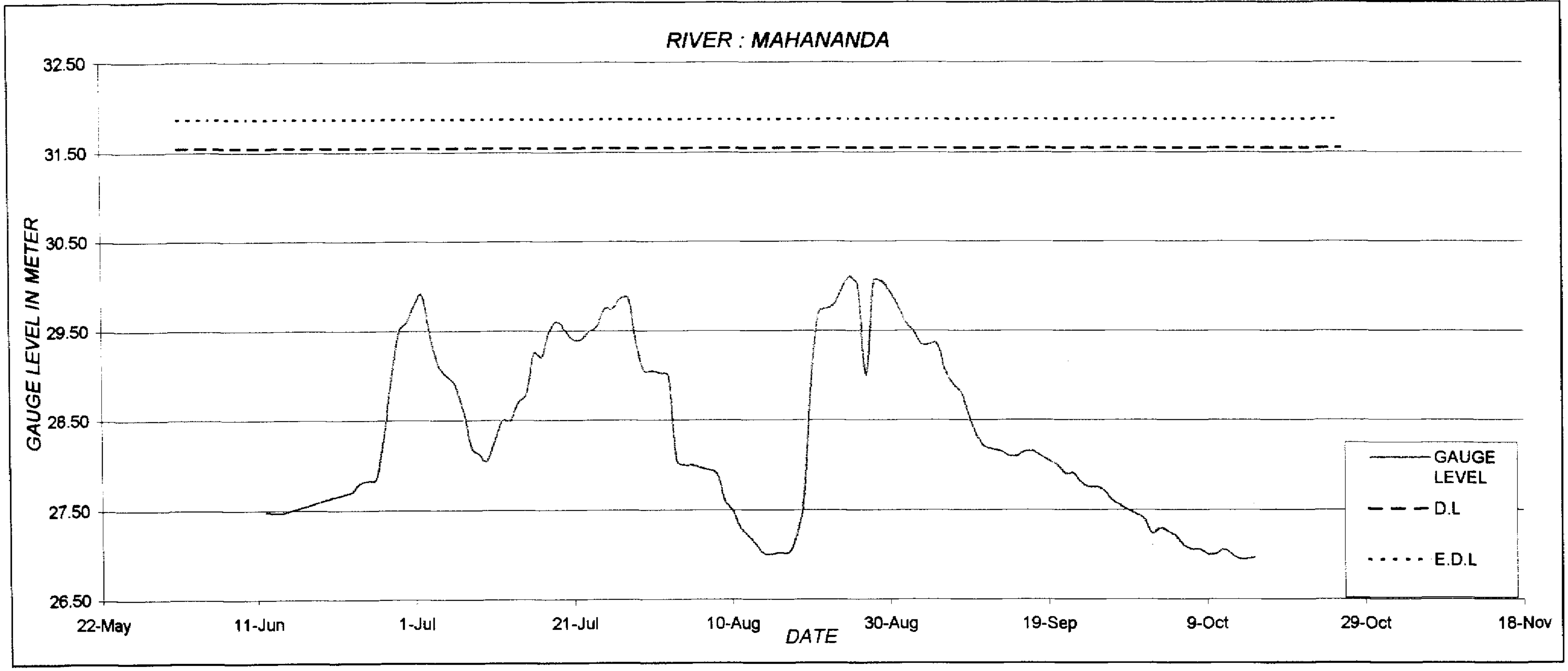
25-Aug-10	26-Aug-10	27-Aug-10	16-Sep-10	18-Sep-10	19-Sep-10	20-Sep-10	21-Sep-10	22-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	12-Oct-10	13-Oct-10	14-Oct-10
24.54	24.56	24.56	23.25	23.13	23.30	23.35	23.35	23.30	21.75	21.75	21.75	21.94	22.17	22.15

ADVANCE PLANNING, PROJECT FORMULATION & MONITORING CELL, I & W Dte.

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - MAHANANDA
GAUGE STATION - NAGORE / MAKDAMPUR

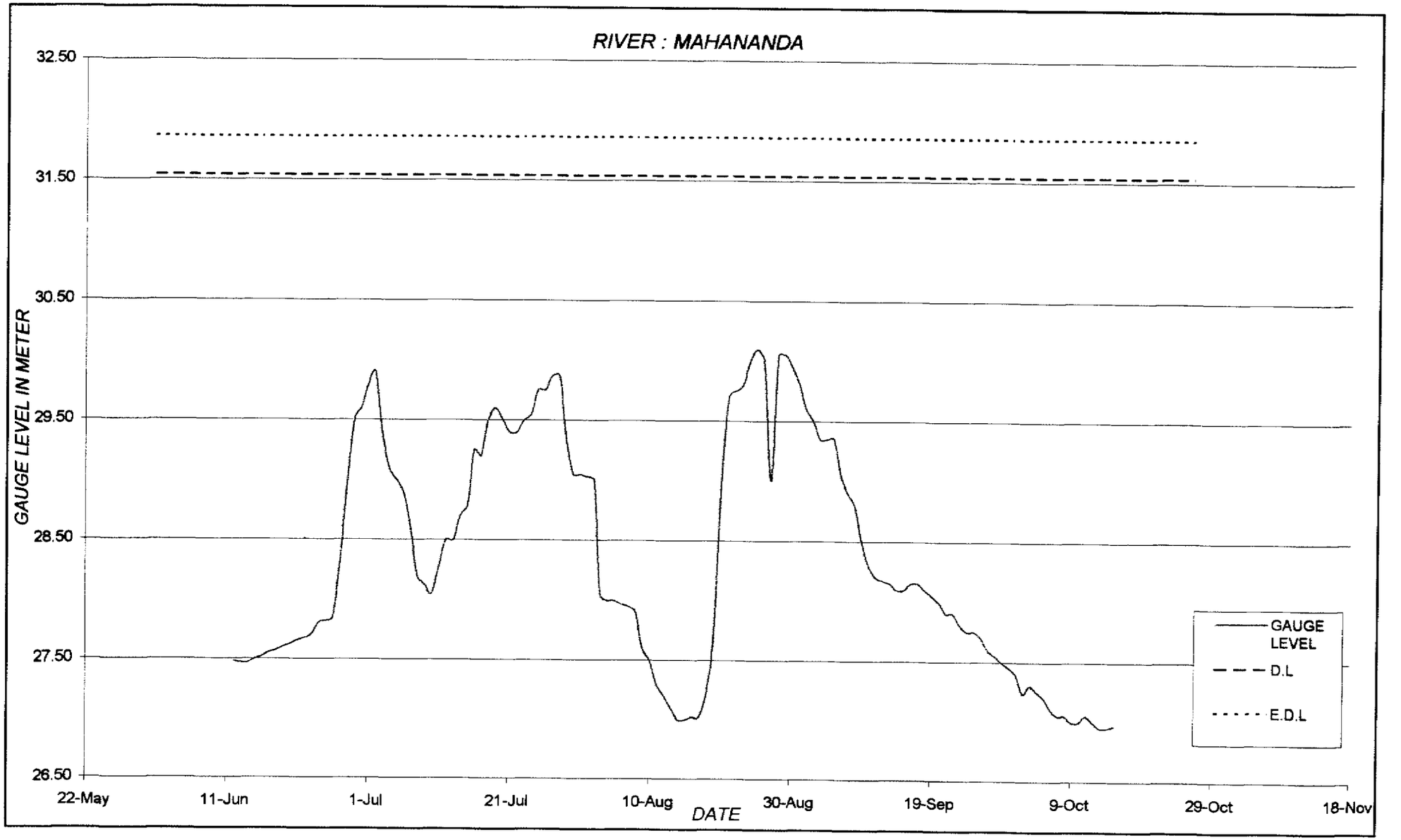
DANGER LEVEL IN (M)	31 540
EXTREME DANGER LEVEL IN (M)	31.860



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	1-Jul-10	2-Jul-10	25-Jul-10	26-Jul-10	27-Jul-10	28-Jul-10	24-Aug-10	25-Aug-10	26-Aug-10
27.82	27.85	28.30	28.95	29.50	29.60	29.80	29.90	29.75	29.75	29.87	29.87	30.00	30.10	30.00

28-Aug-10	29-Aug-10	30-Aug-10	1-Sep-10	2-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	6-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
30.05	30.05	29.95	29.60	29.50	29.35	29.35	29.35	29.05	27.40	27.24	27.30	27.25	27.20	27.10


RIVER : MAHANANDA
32.50
31.50
30.50
29.50
28.50
27.50
26.50
GAUGE LEVEL IN METER
22-May
11-Jun
1-Jul
21-Jul
10-Aug
30-Aug
19-Sep
9-Oct
29-Oct
18-Nov
DATE
GAUGE LEVEL
D.L
E.D.L

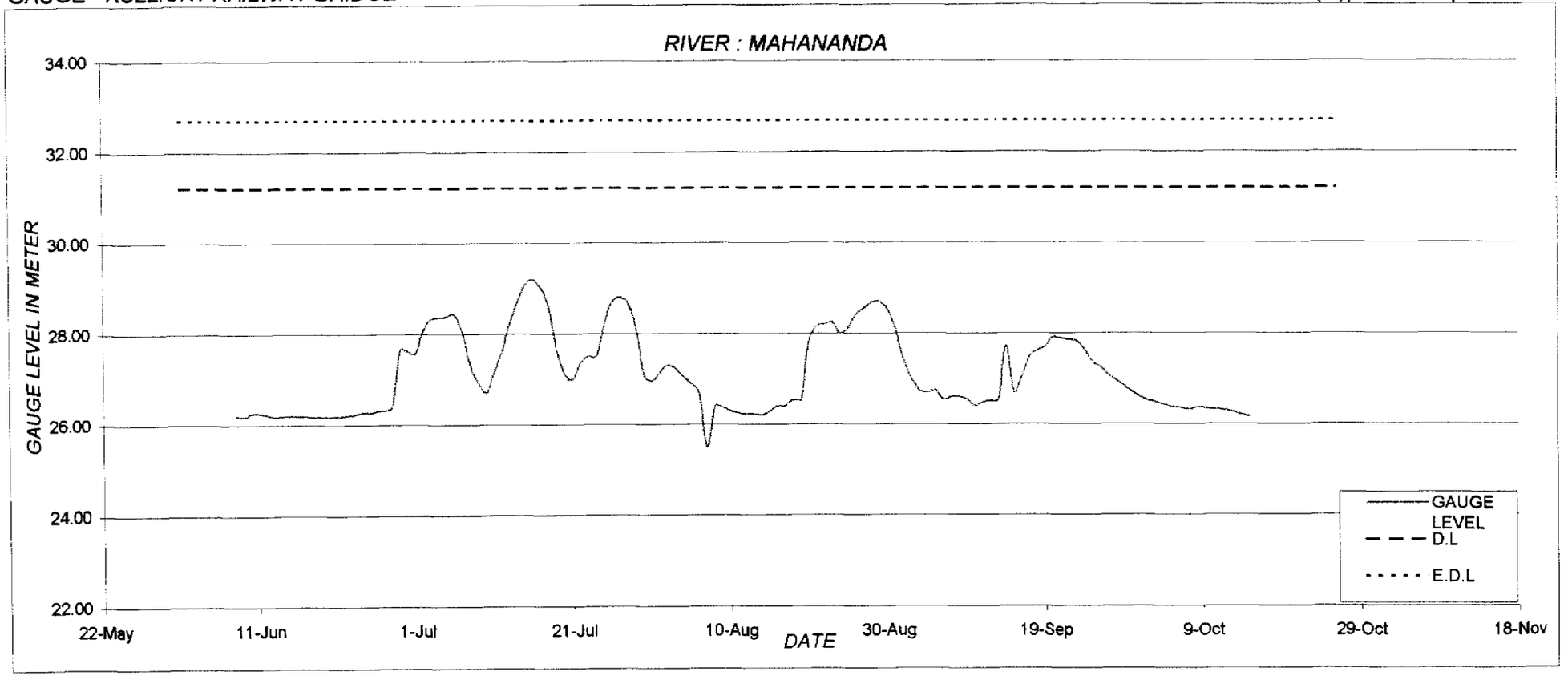
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *MAHANANDA*

GAUGE - *KULLICK / RAILWAY BRIDGE*

DANGER LEVEL IN (M)	31.200
EXTREME DANGER LEVEL IN (M)	32.690



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

24-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	26-Jul-10	27-Jul-10	23-Aug-10	26-Aug-10	27-Aug-10
26.27	26.30	26.32	26.40	27.65	27.62	28.72	29.08	29.20	29.00	28.70	28.80	28.25	28.40	28.55

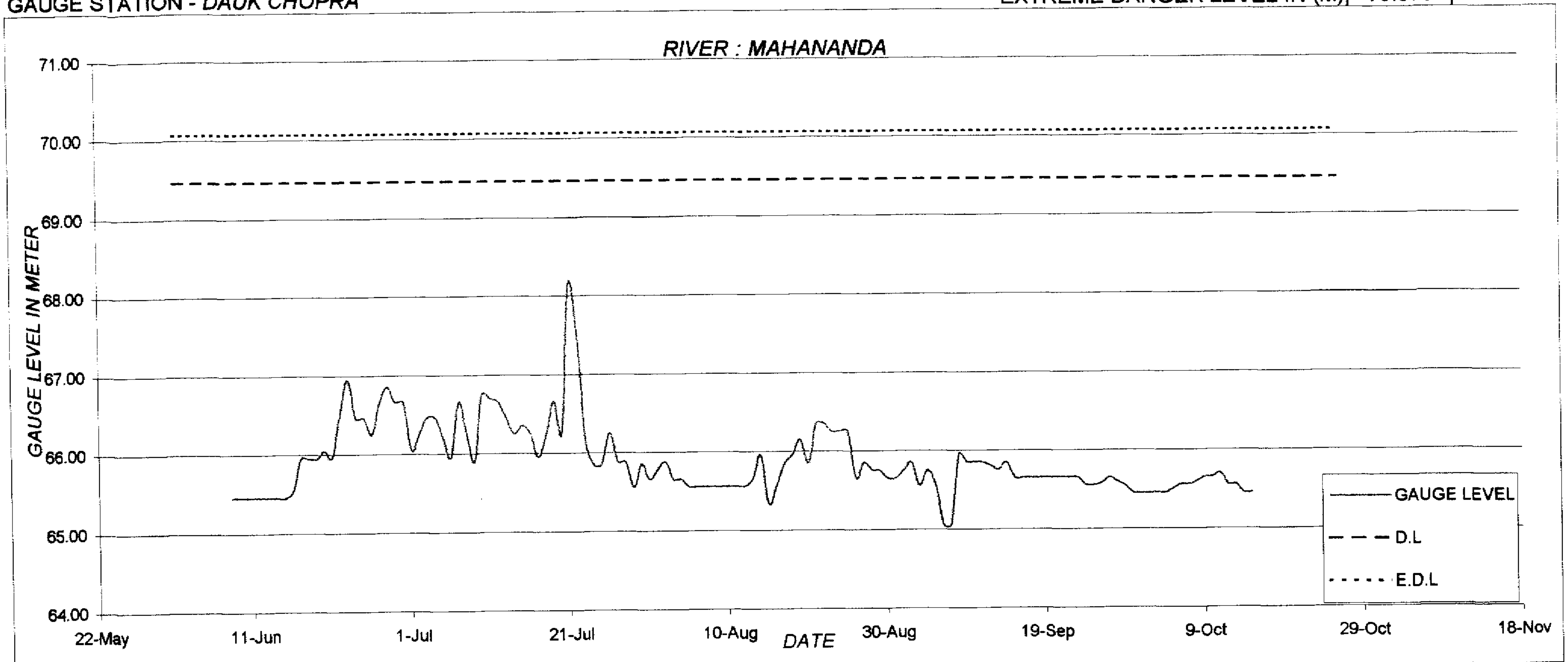
28-Aug-10	29-Aug-10	30-Aug-10	14-Sep-10	19-Sep-10	20-Sep-10	21-Sep-10	22-Sep-10	23-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
28.68	28.70	28.52	27.72	27.70	27.90	27.88	27.85	27.82	26.60	26.52	26.48	26.42	26.38	26.35

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, S & W Dte.

GAUGE LEVEL OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *MAHANANDA*
GAUGE STATION - *DAUK CHOPRA*

DANGER LEVEL IN (M)	69.460
EXTREME DANGER LEVEL IN (M)	70.070



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

22-Jun-10	23-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	7-Jul-10	10-Jul-10	11-Jul-10	12-Jul-10	21-Jul-10	22-Jul-10	19-Aug-10	21-Aug-10	22-Aug-10
66.46	66.96	66.66	66.86	66.66	66.66	66.66	66.76	66.71	66.66	68.16	67.46	66.16	66.36	66.36

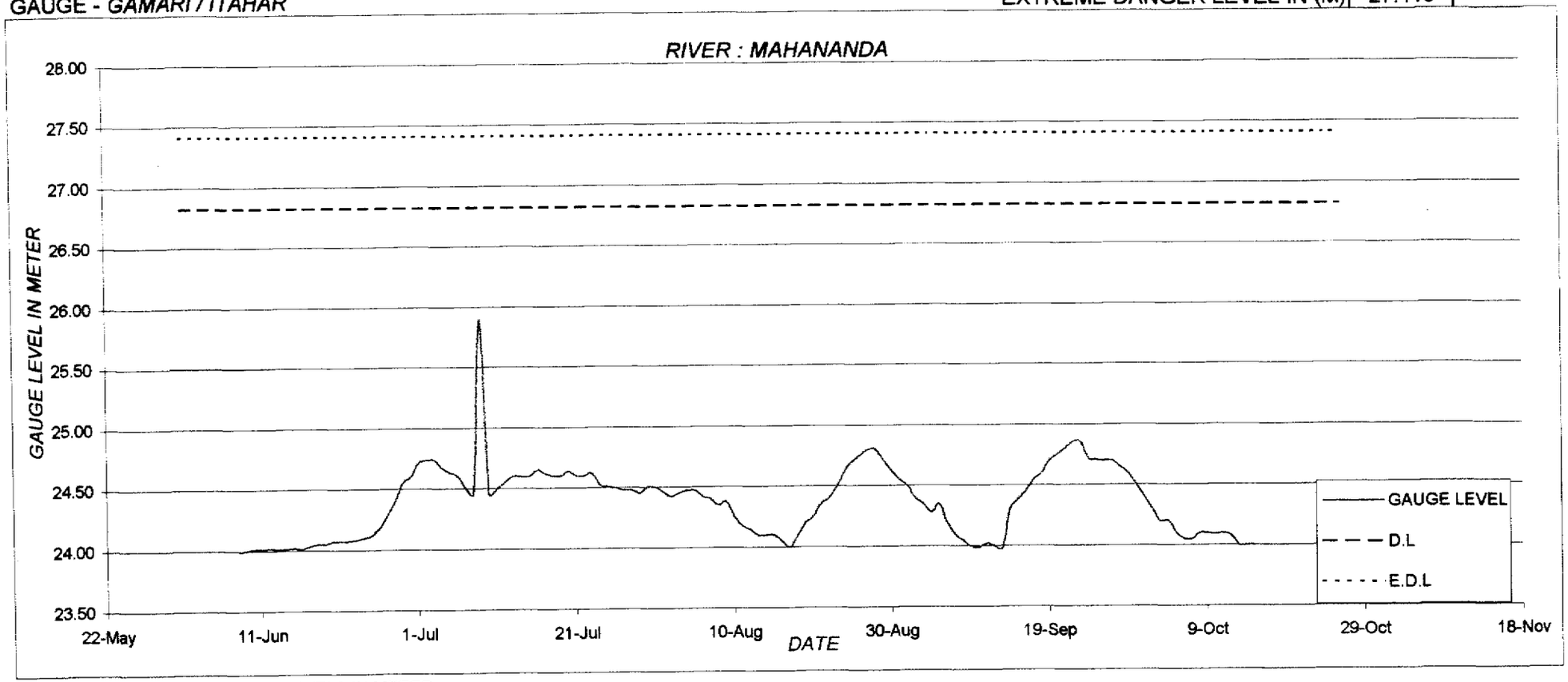
23-Aug-10	24-Aug-10	25-Aug-10	2-Sep-10	8-Sep-10	9-Sep-10	10-Sep-10	11-Sep-10	14-Sep-10	6-Oct-10	7-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10
66.26	66.26	66.26	65.86	65.96	65.86	65.86	65.86	65.86	65.56	65.56	65.61	65.66	65.66	65.71

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, I & W Dte.

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *MAHANANDA*
GAUGE - *GAMARI / ITAHAR*

DANGER LEVEL IN (M)	26.820
EXTREME DANGER LEVEL IN (M)	27.410



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	1-Jul	2-Jul	3-Jul	4-Jul	9-Jul	16-Jul	27-Aug-10	28-Aug-10	26-Aug-10
24.12	24.18	24.28	24.4	24.55	24.6	24.72	24.74	24.74	24.67	25.90	24.65	24.80	24.80	24.75

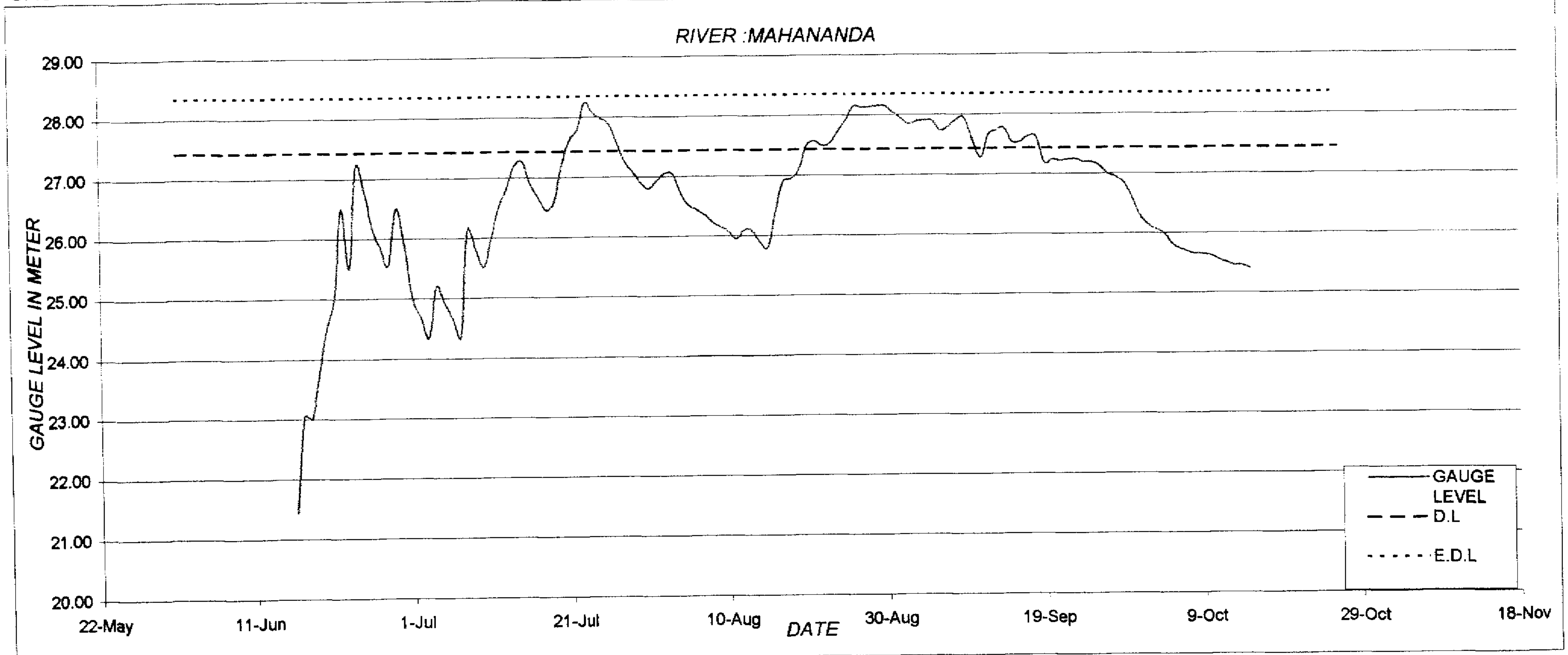
29-Aug-10	25-Aug-10	24-Aug-10	20-Sep-10	21-Sep-10	22-Sep-10	23-Sep-10	24-Sep-10	25-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	8-Oct-10
24.71	24.70	24.62	24.75	24.80	24.85	24.85	24.72	24.71	24.4	24.3	24.2	24.2	24.1	24.10

ASSISTANT ENGINEER, PROJECT EVALUATION & MONITORING CELL, I & W Dte.

GAUGE LEVEL OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *MAHANANDA*
GAUGE STATION - *FULHAR / TELJANA (PROTECTED)*

DANGER LEVEL IN (M)	27.430
EXTREME DANGER LEVEL IN (M)	28.350



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

22-Jun-10	24-Jun-10	25-Jun-10	26-Jun-10	29-Jun-10	30-Jun-10	21-Jul-10	22-Jul-10	23-Jul-10	24-Jul-10	25-Jul-10	26-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
26.50	27.20	26.80	26.18	26.50	25.90	27.60	27.80	28.25	28.08	27.99	27.90	28.15	28.13	28.14

29-Aug-10	30-Aug-10	31-Aug-10	1-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	8-Sep-10	9-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
28.15	28.15	28.04	27.94	27.90	27.91	27.90	27.92	27.95	26.32	26.16	26.08	26.00	25.83	25.74

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, I & W Dte.

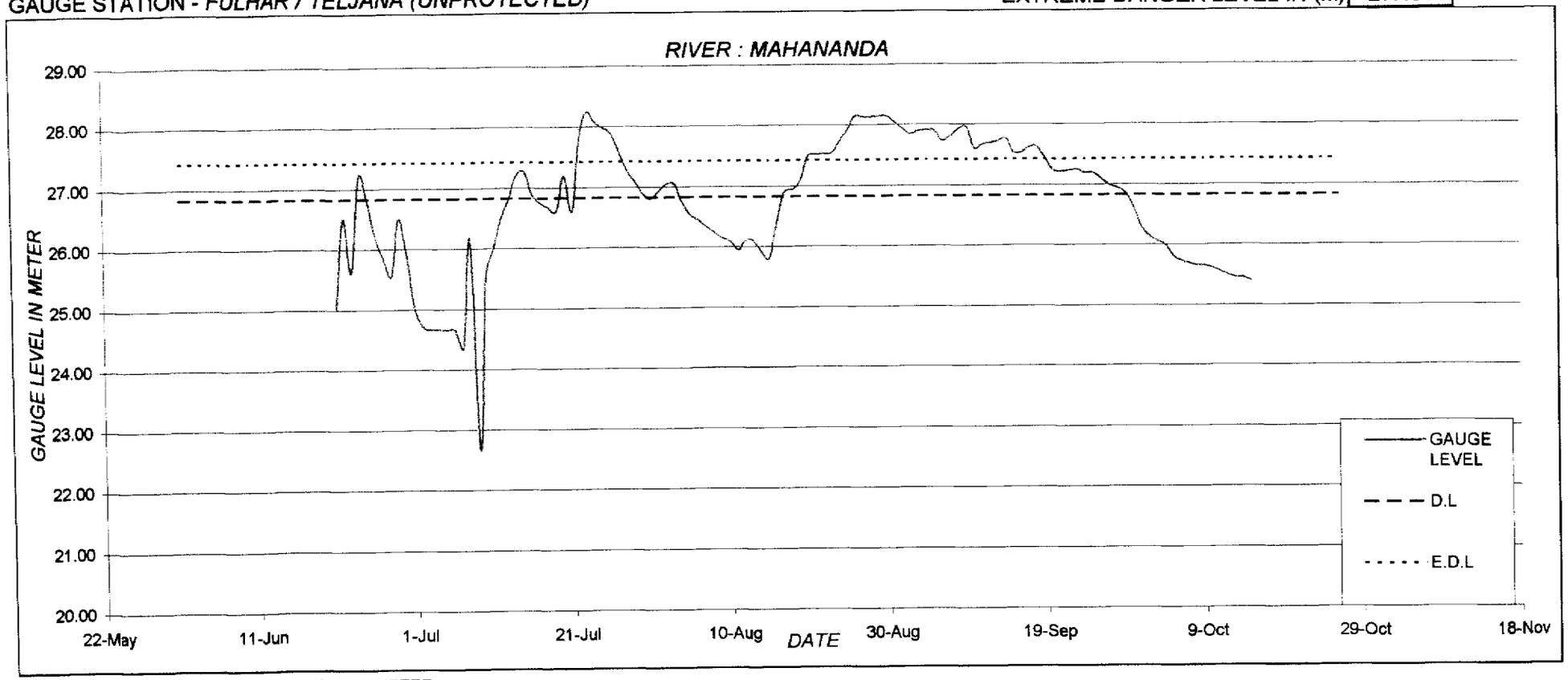
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS

RIVER - *MAHANANDA*

GAUGE STATION - *FULHAR / TELJANA (UNPROTECTED)*

DANGER LEVEL IN (M)	26.820
EXTREME DANGER LEVEL IN (M)	27.430



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

22-Jun-10	24-Jun-10	25-Jun-10	26-Jun-10	29-Jun-10	30-Jun-10	23-Jul-10	24-Jul-10	25-Jul-10	26-Jul-10	22-Jul-10	27-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
26.50	27.20	26.80	26.18	26.50	25.90	28.25	28.08	27.99	27.90	27.80	27.60	28.15	28.13	28.14

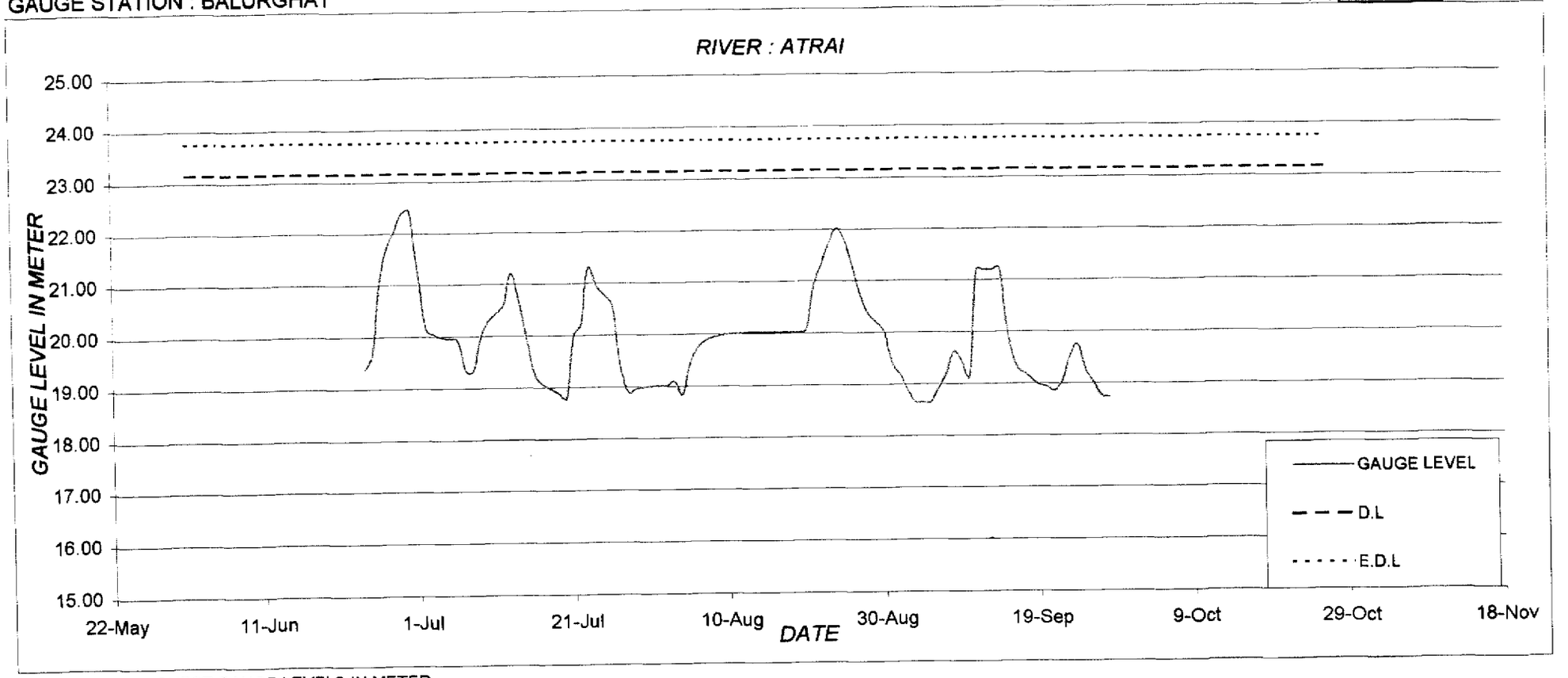
29-Aug-10	30-Aug-10	31-Aug-10	1-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	8-Sep-10	9-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
28.15	28.15	28.04	27.94	27.90	27.91	27.90	27.92	27.95	26.32	26.16	26.08	26.00	25.83	25.74

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, I & W Dte.

GAUGE LEVEL OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER : ATRAI
GAUGE STATION : BALURGHAT

DANGER LEVEL IN (M)	23.150
EXTREME DANGER LEVEL IN (M)	23.750



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	1-Jul-10	13-Jul-10	14-Jul-10	23-Jul-10	24-Jul-10	25-Jul-10	21-Aug-10	22-Aug-10	23-Aug-10
19.68	21.03	21.705	22.0425	22.38	22.44	21.26	21.22	20.68	21.3	20.95	20.775	20.9	21.31	21.72

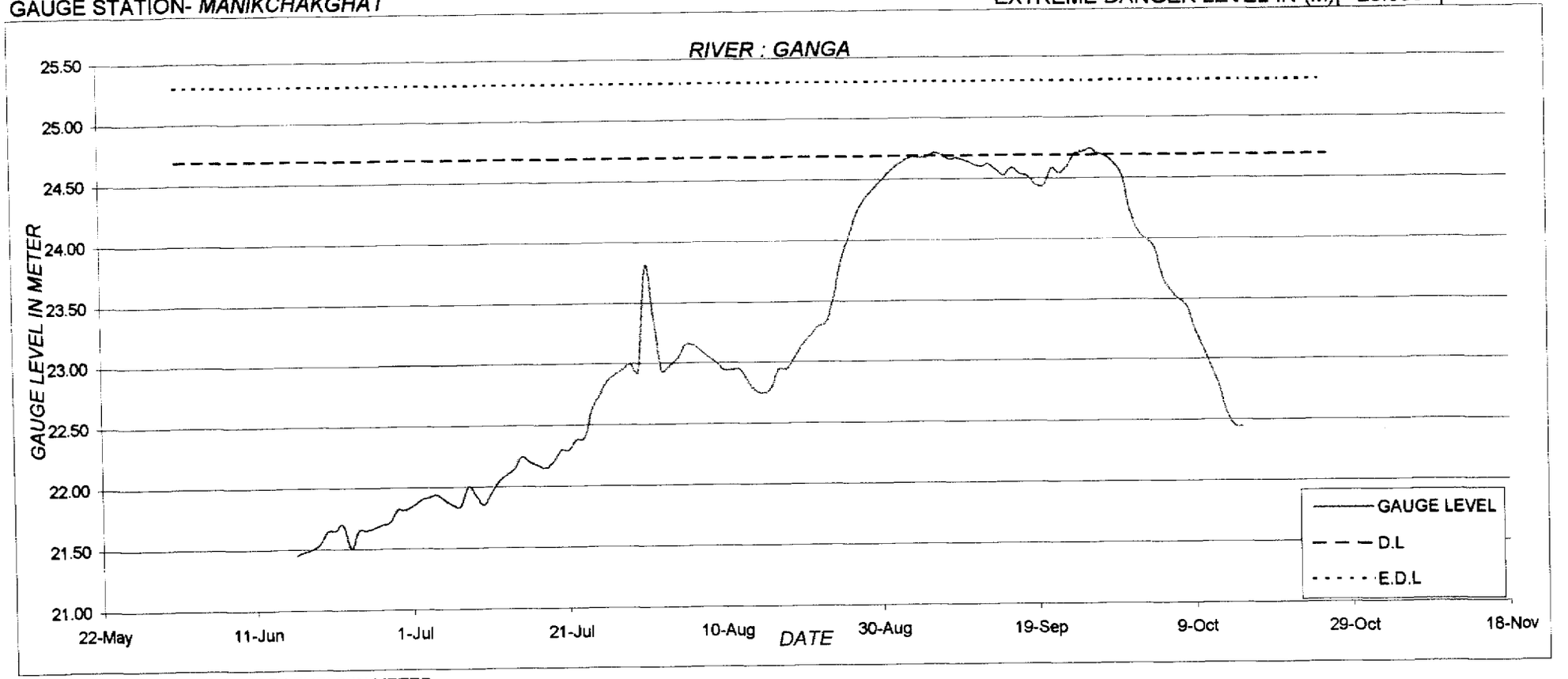
24-Aug-10	25-Aug-10	26-Aug-10	11-Sep-10	12-Sep-10	13-Sep-10	14-Sep-10	15-Sep-10	24-Sep-10	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct
22.02	21.82	21.32	21.2	21.2	21.2	21.24	19.98	19.74	N.A	N.A	N.A	N.A	N.A	N.A

[illegible]

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *GANGA*
GAUGE STATION- *MANIKCHAKGHAT*

DANGER LEVEL IN (M)	24.690
EXTREME DANGER LEVEL IN (M)	25.300



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

19-Jun-10	22-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	7-Jul-10	27-Jul-10	28-Jul-10	29-Jul-10	30-Jul-10	31-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
24.54	21.70	21.70	21.72	21.82	21.82	21.84	22.92	22.96	23.00	22.93	23.80	24.02	24.20	24.32

29-Aug-10	30-Aug-10	31-Aug-10	6-Sep-10	7-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	14-Oct-10
24.40	24.47	24.54	24.72	24.70	24.70	24.72	24.74	24.70	24.22	24.07	24.00	23.92	23.68	22.45

Annexure Planning, Project Evaluation & Monitoring Cell, I & W Dte.

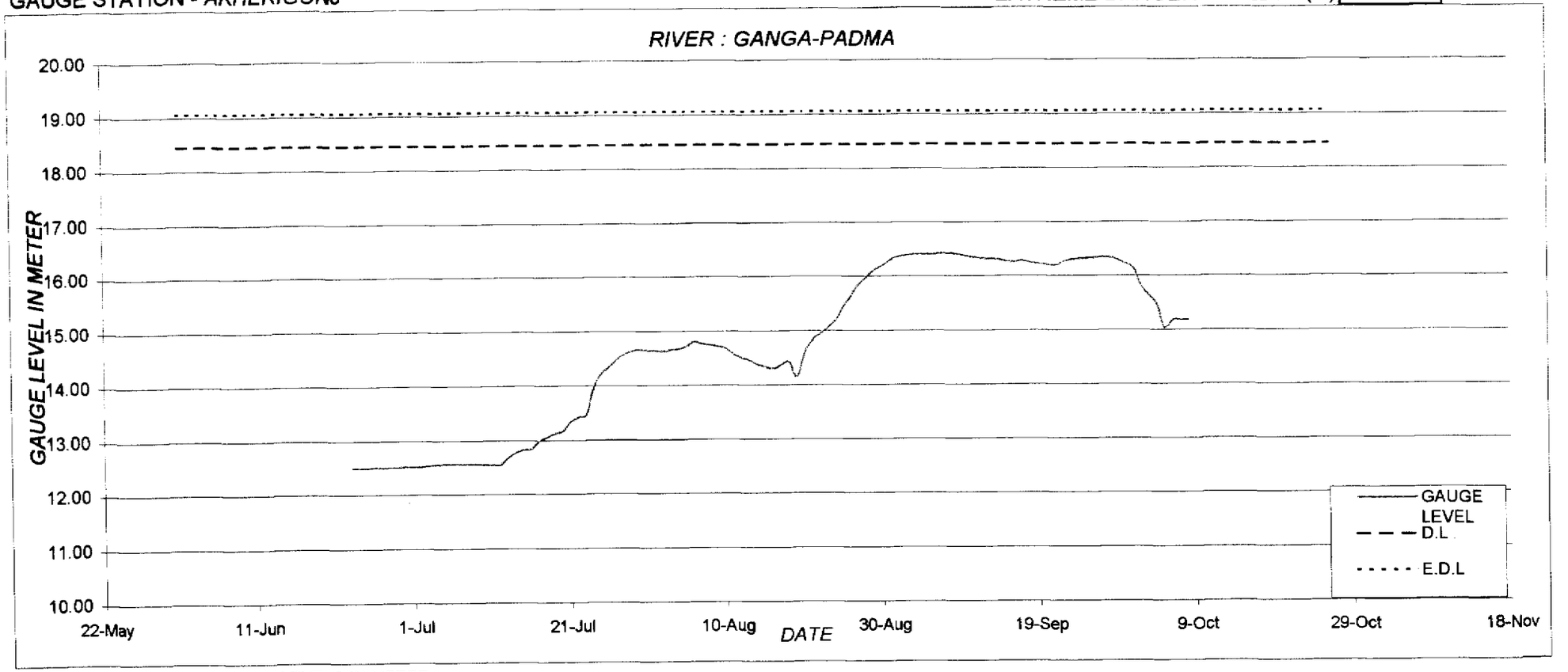
E-23 (a)

Ex-23 (6)

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

NORTH BENGAL RIVERS
RIVER - *GANGA-PADMA*
GAUGE STATION - *AKHERIGUNJ*

DANGER LEVEL IN (M)	18.440
EXTREME DANGER LEVEL IN (M)	19.050



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

21-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	1-Jul	2-Jul	3-Jul	4-Jul	11-Jul	12-Jul	26-Aug-10	27-Aug-10	28-Aug-10
12.49	12.50	12.51	12.51	12.52	12.52	12.53	12.53	12.55	12.55	12.55	12.55	15.66	15.85	15.98

29-Aug-10	30-Aug-10	31-Aug-10	3-Sep-10	4-Sep-10	5-Sep-10	6-Sep-10	7-Sep-10	8-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	6-Oct-10	7-Oct-10
16.12	16.20	16.30	16.41	16.41	16.41	16.42	16.43	16.42	16.16	15.82	15.65	15.48	15.18	15.18

ADVANCE PLANNING, PROJECT CO-ORDINATION & MONITORING CELL, S & W Dte.

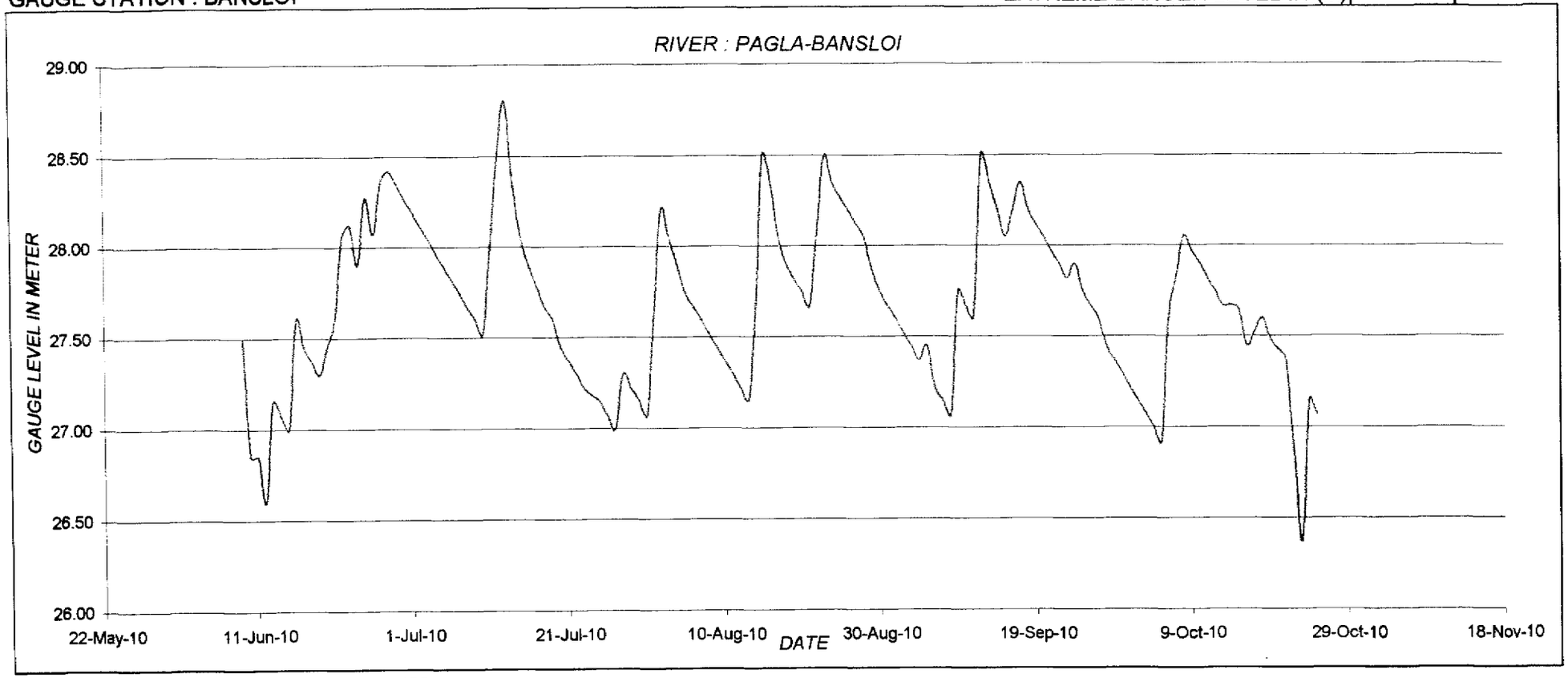
GAUGE LEVELS OF INPORTANT RIVERS DURING SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER :PAGLA-BANSLOI

GAUGE STATION : BANSLOI

DANGER LEVEL IN (M)	31.850
EXTREME DANGER LEVEL IN (M)	32.760



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

23-Jun-10	25-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10*	30-Jun-10	1-Jul-10	2-Jul-10	3-Jul-10	12-Jul-10	13-Jul-10	14-Jul-10	2-Aug-10	15-Aug-10	16-Aug-10
28.12	28.27	28.35	28.42	28.35	28.27	28.2	28.12	28.05	28.5	28.8	28.35	28.2	28.5	28.35

23-Aug-10	24-Aug-10	25-Aug-10	12-Sep-10	13-Sep-10	14-Sep-10	16-Sep-10	17-Sep-10	18-Sep-10	7-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10
28.5	28.35	28.27	28.5	28.35	28.2	28.2	28.35	28.2	27.825	28.05	27.97	27.9	27.82	27.75

ADVANCE PLANNING, PROSPECT EVALUATION & MANAGEMENT CELL, NEW DELHI.

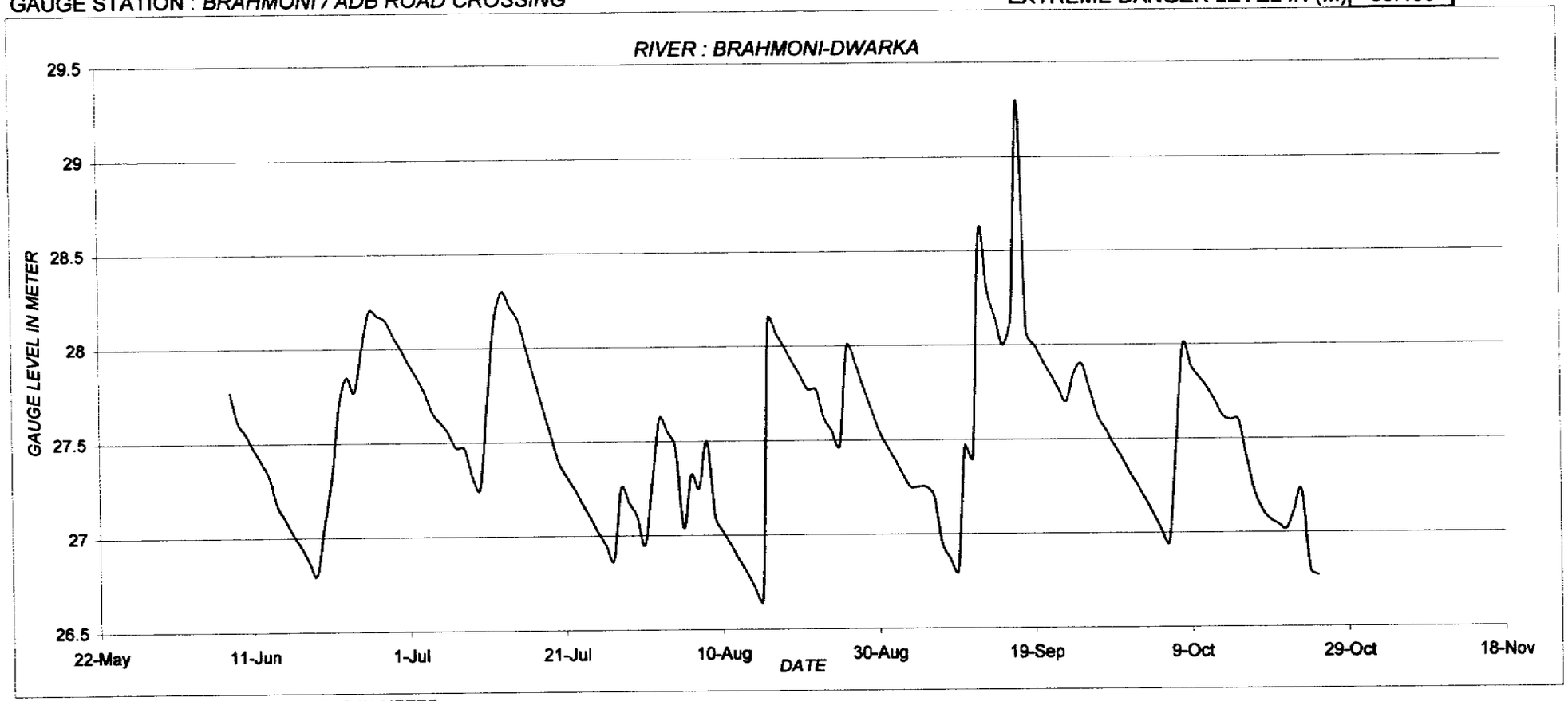
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVER

RIVER : *BRAHMONI-DWEARKA*

GAUGE STATION : *BRAHMONI / ADB ROAD CROSSING*

DANGER LEVEL IN (M)	33.000
EXTREME DANGER LEVEL IN (M)	33.400



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	*28-Jun-10*	29-Jun-10	*30-Jun-10*	1-Jul-10	12-Jul-10	13-Jul-10	14-Jul-10	15-Jul-10	16-Jul-10	16-Aug-10	17-Aug-10	18-Aug-10
28.00	28.20	28.18	*28.15*	28.07	*28.00*	27.92	28.15	28.30	*28.22*	28.15	28.00	28.15	28.07	28.00

19-Aug-10	26-Aug-10	27-Aug-10	12-Sep-10	13-Sep-10	14-Sep-10	15-Sep-10	16-Sep-10	17-Sep-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	13-Oct-10
27.92	28.00	27.92	28.60	28.30	28.15	28.00	28.15	29.30	28.00	27.89	27.83	27.77	27.70	27.62

SOURCE: FLOOD FORECASTING, PROJECT IMPLEMENTATION & MAINTENANCE UNIT, BWDB, Dhaka.

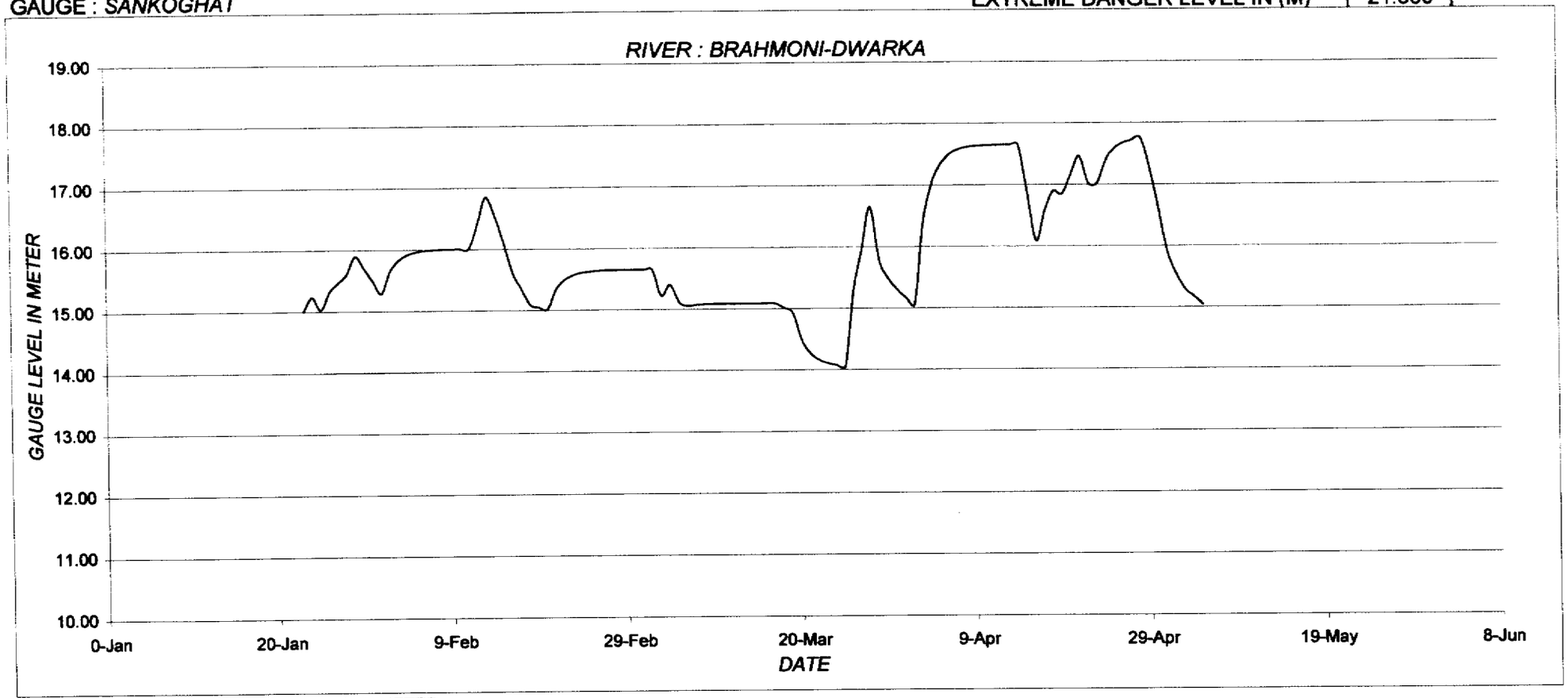
GAUGE LEVELS OF INPORTANT RIVERS DURING SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *BRAHMONI-DWARKA*

GAUGE : *SANKOGHAT*

DANGER LEVEL IN (M)	20.400
EXTREME DANGER LEVEL IN (M)	21.300



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

24-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	14-Jul-10	15-Jul-10	13-Jul-10	16-Jul-10	12-Jul-10	11-Jul-10	2-Aug-10	10-Aug-10	11-Aug-10
15.23	15.32	15.46	15.60	15.90	15.70	16.85	16.56	16.40	16.12	16.01	16.01	15.65	16.97	16.03

26-Aug-10	27-Aug-10	28-Aug-10	13-Sep-10	20-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
15.96	16.65	15.78	17.65	17.46	17.58	17.67	17.71	17.76	15.54	15.29	15.17	15.04	BG	BG

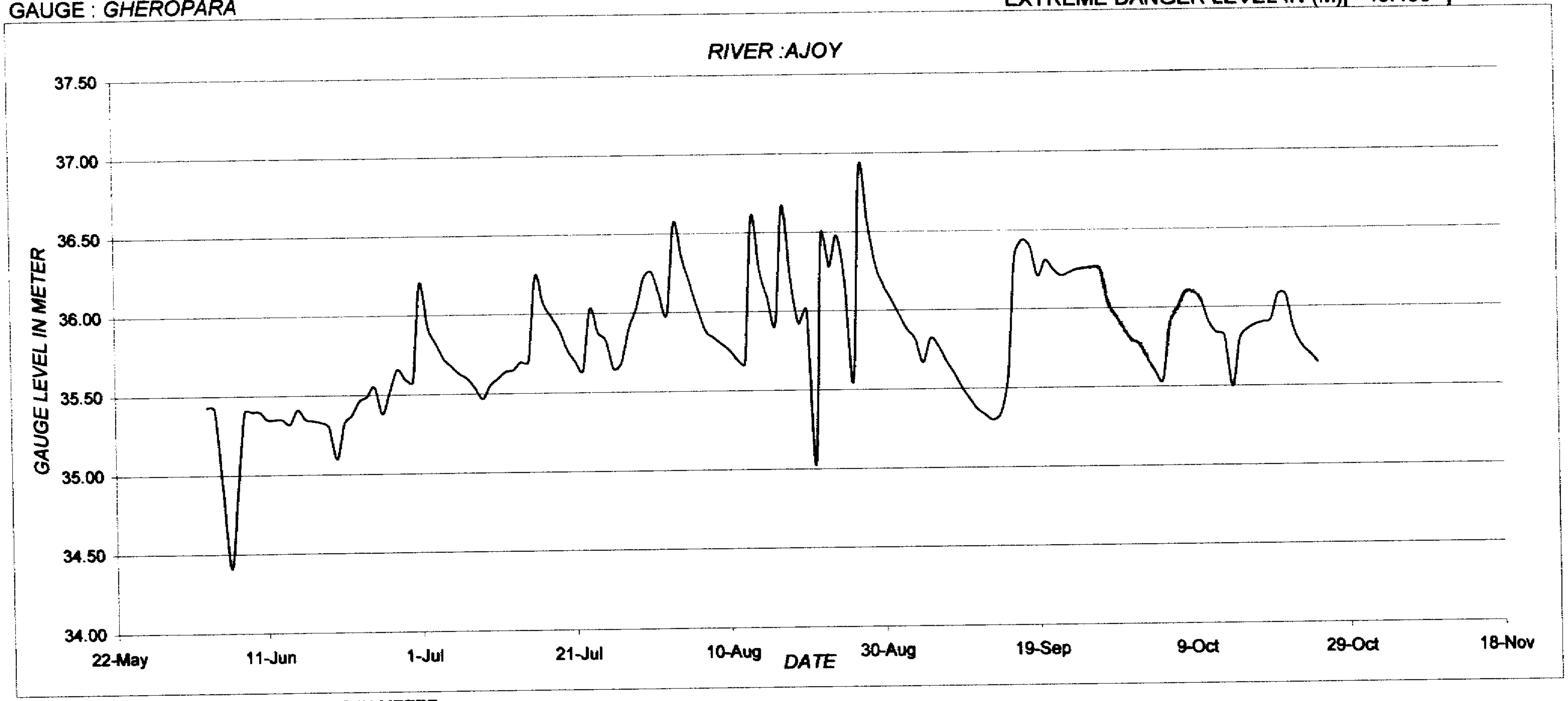
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *AJOY*

GAUGE : *GHEROPARA*

DANGER LEVEL IN (M)	39.410
EXTREME DANGER LEVEL IN (M)	40.400



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

24-Jun-10	25-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	1-Jul-10	16-Jul-10	17-Jul-10	23-Jul-10	30-Jul-10	31-Jul-10	3-Aug-10	13-Aug-10	17-Aug-10
35.49	35.55	35.52	35.66	35.6	35.58	36.2	36.24	36.07	36.03	36.22	36.26	36.57	36.6	36.67

22-Aug-10	27-Aug-10	28-Aug-10	16-Sep-10	17-Sep-10	18-Sep-10	20-Sep-10	25-Sep-10	26-Sep-10	7-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10	20-Oct-10	21-Oct-10
36.49	36.9	36.57	36.34	36.44	36.4	36.31	36.255	36.26	36	36.1	36.1	36.05	36.08	36.08

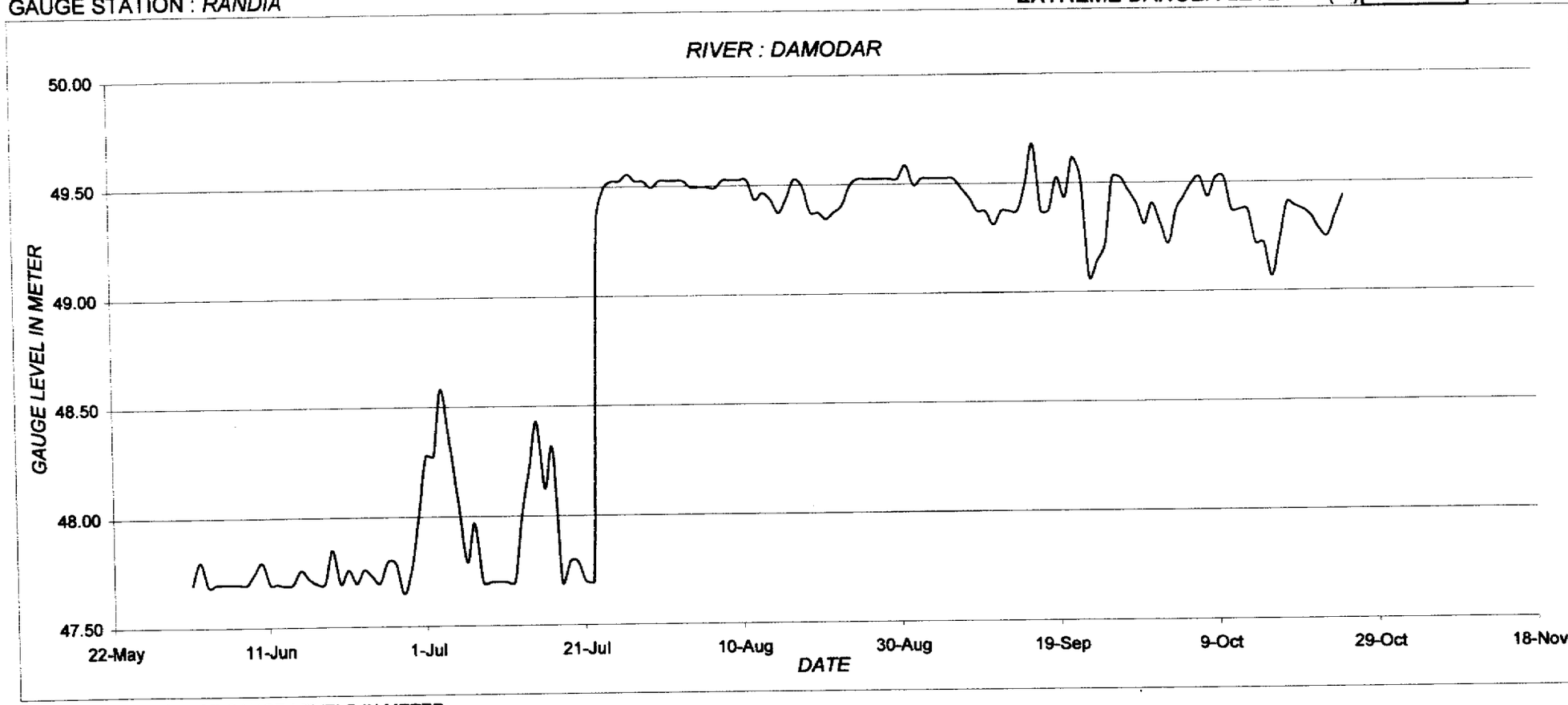
GAUGE LEVELS OF INPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *DAMODAR*

GAUGE STATION : *RANDIA*

DANGER LEVEL IN (M)	52.134
EXTREME DANGER LEVEL IN (M)	52.893



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

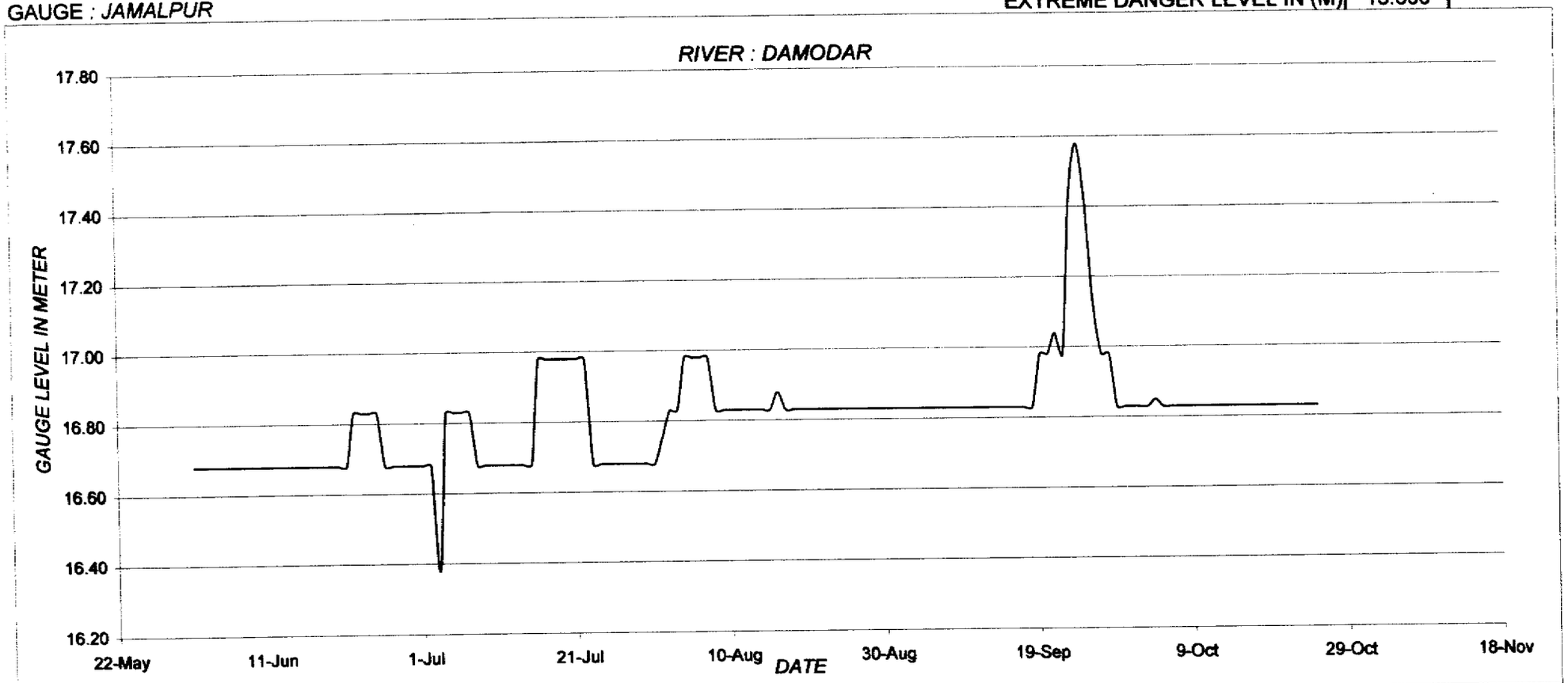
2-Jun-10	10-Jun-10	19-Jun-10	26-Jun-10	27-Jun-10	30-Jun-10	25-Jul-10	26-Jul-10	27-Jul-10	28-Jul-10	29-Jul-10	31-Jul-10	1-Aug-10	2-Aug-10	3-Aug-10
47.80	47.80	47.85	47.80	47.79	48.00	49.53	49.53	49.56	49.53	49.53	49.53	49.53	49.53	49.53

8-Aug-10	9-Aug-10	31-Aug-10	2-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	16-Sep-10	21-Sep-10	5-Oct-10	6-Oct-10	7-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10
49.53	49.53	49.59	49.53	49.53	49.53	49.53	49.68	49.62	49.44	49.50	49.53	49.44	49.52	49.53

GAUGE LEVELS OF INPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *DAMODAR*
GAUGE : *JAMALPUR*

DANGER LEVEL IN (M)	12.890
EXTREME DANGER LEVEL IN (M)	13.500



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

1-Jun-10	2-Jun-10	22-Jun-10	23-Jun-10	24-Jun-10	25-Jun-10	16-Jul-10	17-Jul-10	18-Jul-10	19-Jul-10	20-Jul-10	21-Jul-10	2-Aug-10	4-Aug-10	5-Aug-10
16.68	16.68	16.83	16.83	16.83	16.83	16.98	16.98	16.98	16.98	16.98	16.98	16.83	16.98	16.98

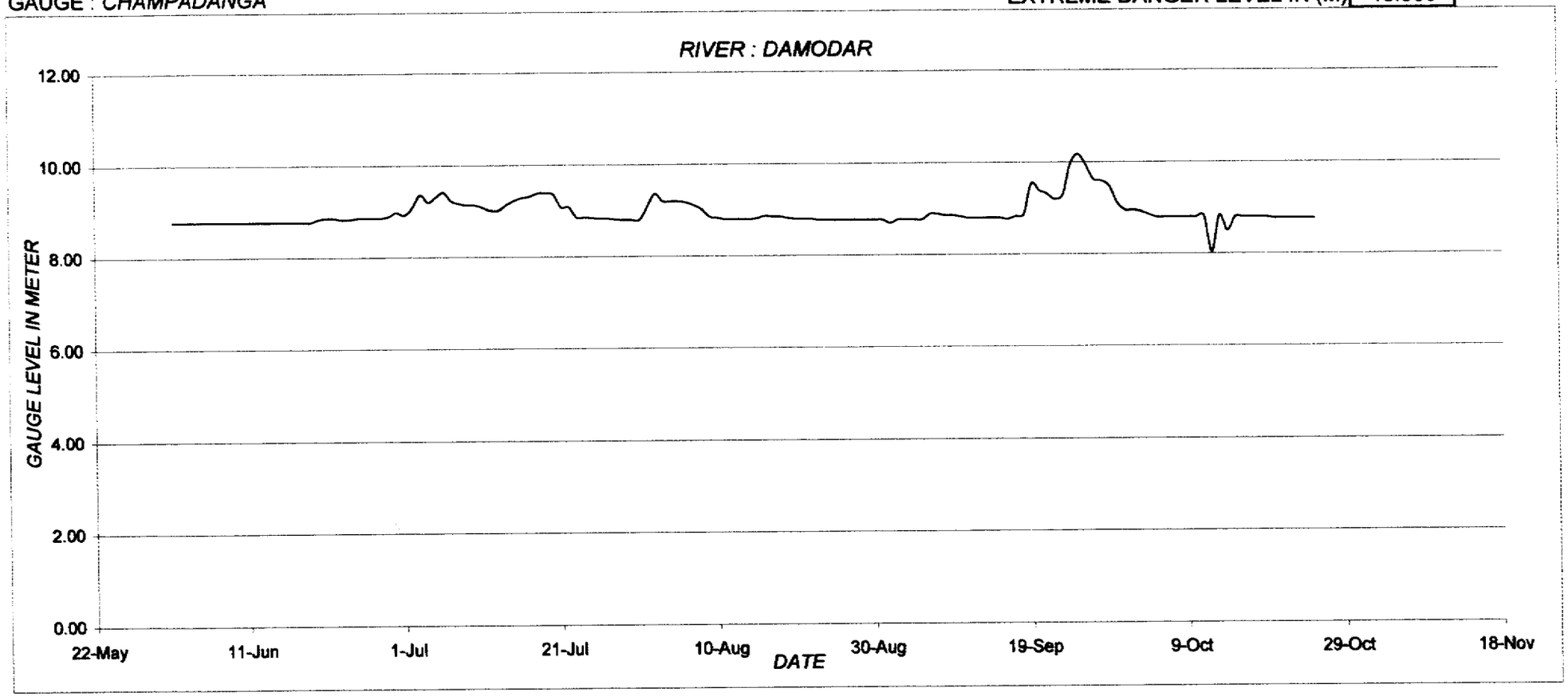
6-Aug-10	7-Aug-10	16-Aug-10	19-Sep-10	21-Sep-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
16.98	16.98	16.88	16.98	17.04	17.43	17.58	17.43	17.13	16.83	16.83	16.83	16.85	16.83	16.83

FLOOD FORECASTING, RESERVOIR SIMULATION & MANAGEMENT CELL, BWDB.

GAUGE LEVELS OF INPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *DAMODAR*
GAUGE : *CHAMPADANGA*

DANGER LEVEL IN (M)	12.890
EXTREME DANGER LEVEL IN (M)	13.500



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

21-Jun-10	22-Jun-10	25-Jun-10	26-Jun-10	29-Jun-10	30-Jun-10	3-Jul-10	6-Jul-10	17-Jul-10	18-Jul-10	19-Jul-10	20-Jul-10	2-Aug-10	3-Aug-10	4-Aug-10
8.87	8.87	8.87	8.87	8.9	8.99	9.36	9.42	9.32	9.39	9.39	9.36	9.36	9.2	9.2

5-Aug-10	6-Aug-10	7-Aug-10	19-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	11-Oct-10	13-Oct-10
9.2	9.17	9.11	9.54	9.96	10.18	9.95	9.63	9.6	8.96	8.96	8.93	8.87	8.84	8.84

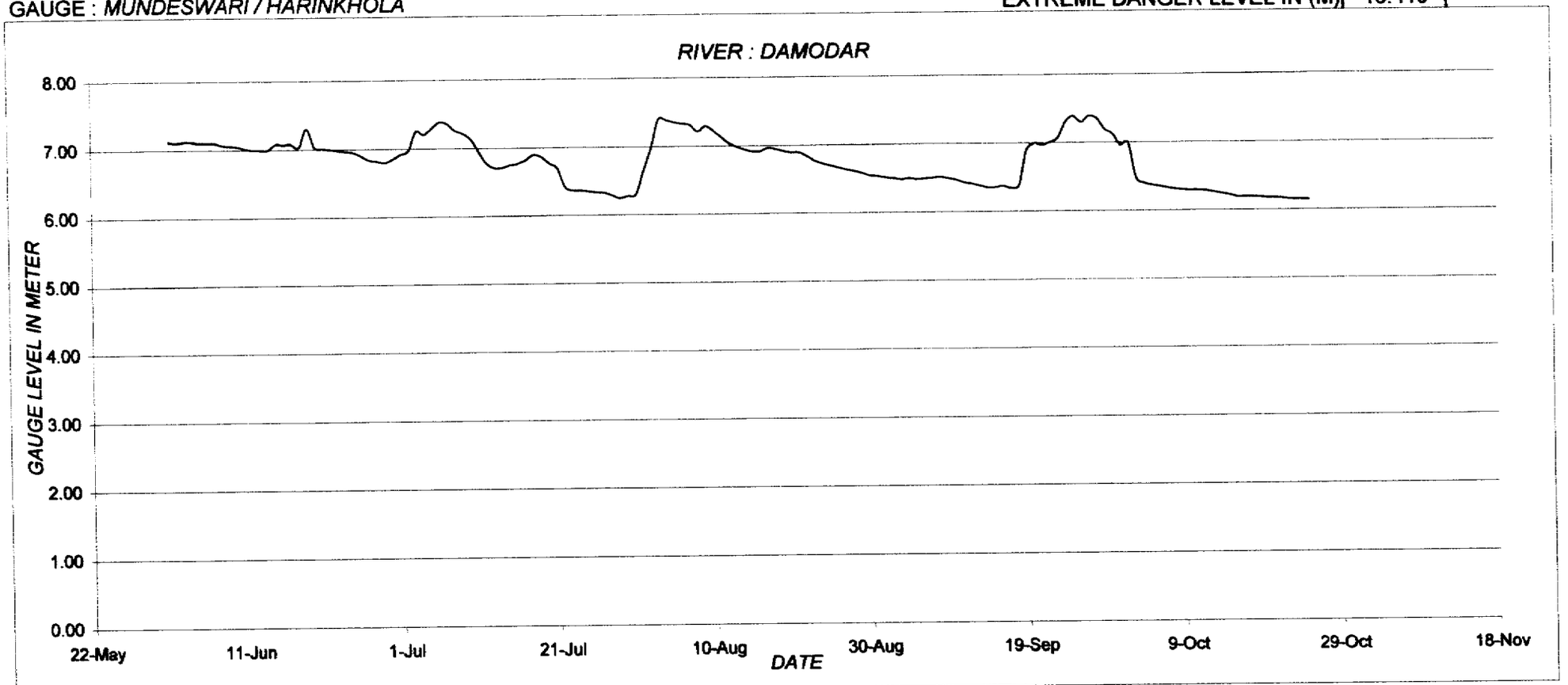
GAUGE LEVELS OF INPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *DAMODAR*

GAUGE : *MUNDESWARI / HARINKHOLA*

DANGER LEVEL IN (M)	12.600
EXTREME DANGER LEVEL IN (M)	13.410



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

1-Jun-10	2-Jun-10	3-Jun-10	4-Jun-10	5-Jun-10	19-Jun-10	3-Jul-10	5-Jul-10	6-Jul-10	7-Jul-10	8-Jul-10	9-Jul-10	3-Aug-10	4-Aug-10	5-Aug-10
7.12	7.10	7.12	7.12	7.10	7.30	7.25	7.29	7.38	7.36	7.26	7.21	7.40	7.38	7.35

6-Aug-10	7-Aug-10	9-Aug-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	29-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
7.33	7.31	7.29	7.30	7.39	7.30	7.39	7.36	7.20	6.97	7.00	6.48	6.41	6.38	6.36

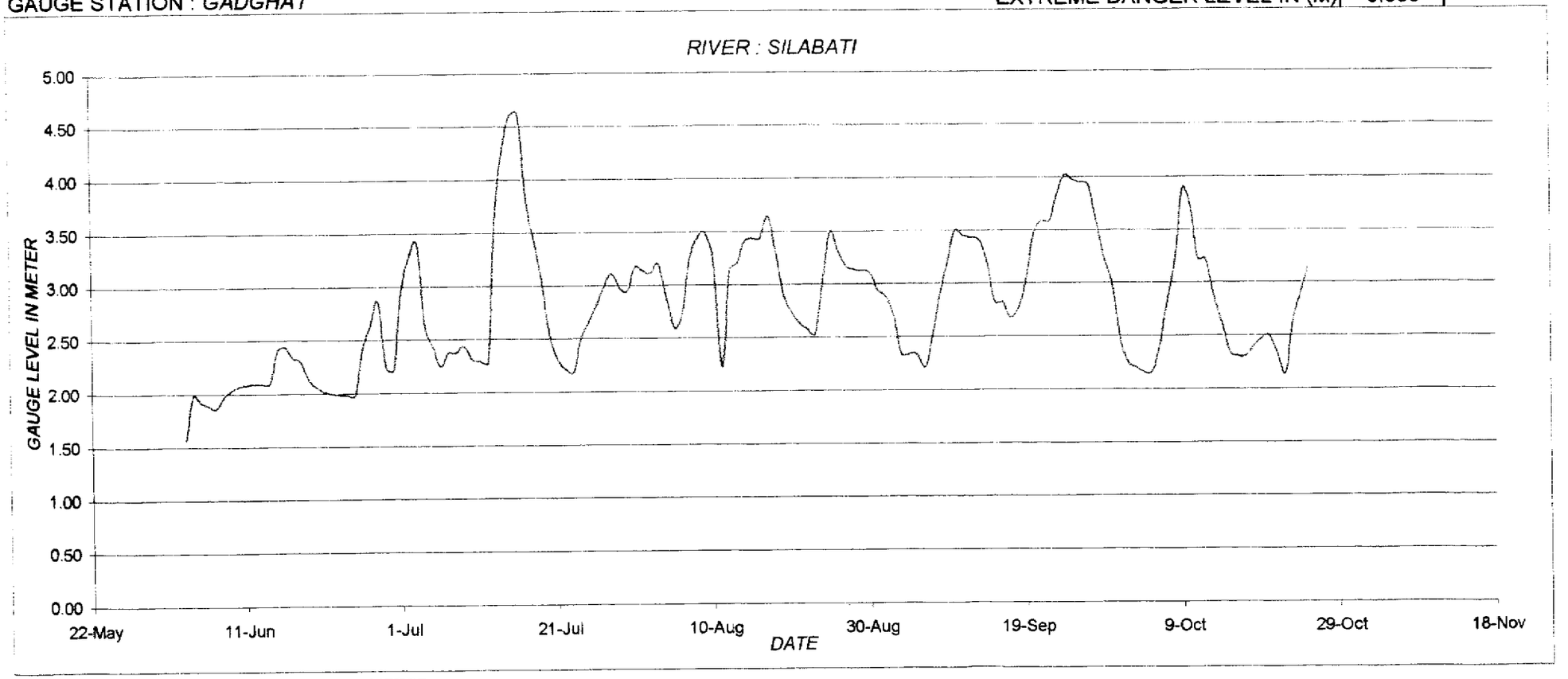
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *SILABATI*

GAUGE STATION : *GADGHAT*

DANGER LEVEL IN (M)	8.990
EXTREME DANGER LEVEL IN (M)	9.600



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

15-Jun-10	16-Jun-10	17-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	13-Jul-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	18-Jul-10	8-Aug-10	9-Aug-10	15-Aug-10
2.40	2.44	2.34	2.42	2.64	2.86	3.65	4.26	4.60	4.63	3.84	3.45	3.44	3.50	3.44

16-Aug-10	17-Aug-10	25-Aug-10	21-Sep-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	25-Oct-10
3.44	3.65	3.50	3.59	3.84	4.02	3.98	3.95	3.93	3.23	3.89	3.72	3.23	3.23	3.14

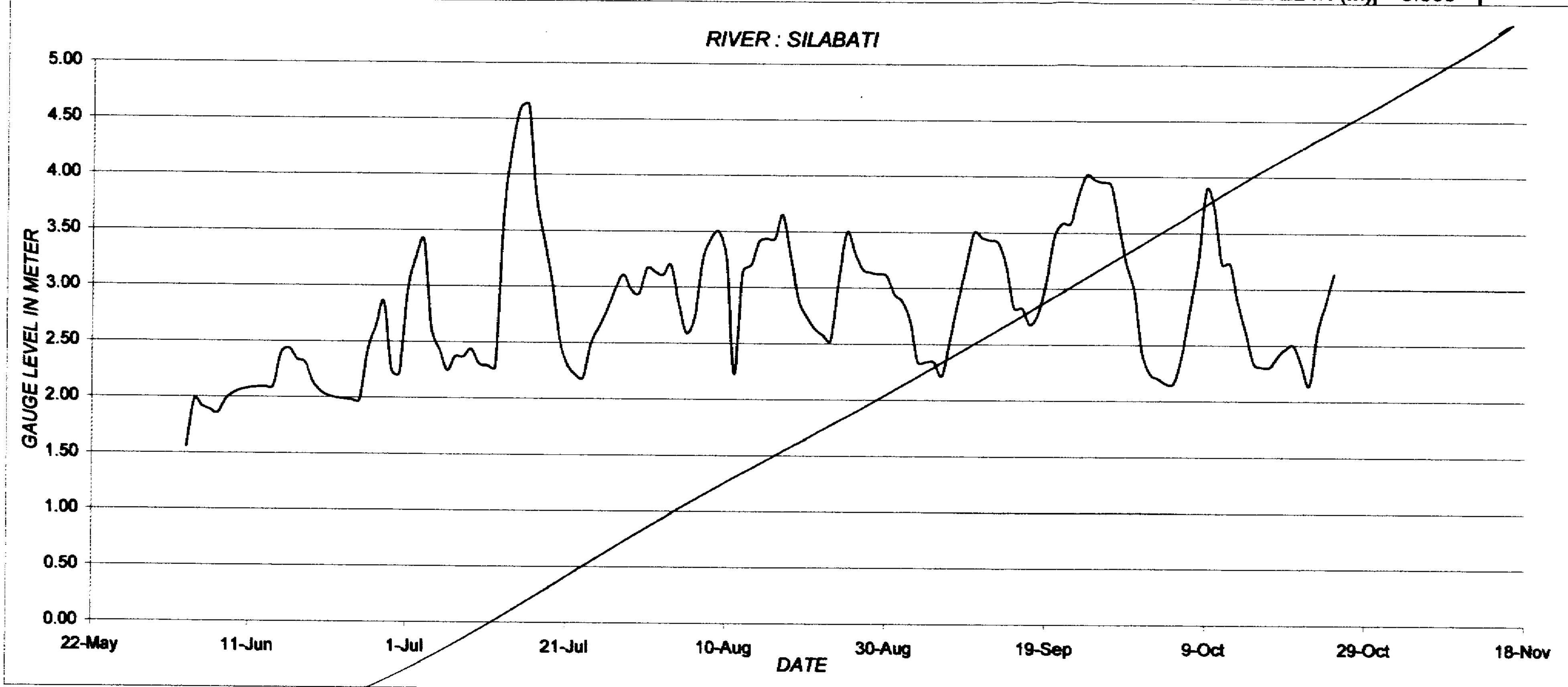
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *SILABATI*

GAUGE STATION : *GADGHAT*

DANGER LEVEL IN (M)	8.990
EXTREME DANGER LEVEL IN (M)	9.600



MONTHLY HIGHEST GAUGE LEVELS IN METER

15-Jun-10	16-Jun-10	17-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	13-Jul-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	18-Jul-10	8-Aug-10	9-Aug-10	15-Aug-10
2.40	2.44	2.34	2.42	2.64	2.86	3.65	4.26	4.60	4.63	3.84	3.45	3.44	3.50	3.44

16-Aug-10	17-Aug-10	25-Aug-10	21-Sep-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	25-Oct-10
3.44	3.65	3.50	3.59	3.84	4.02	3.98	3.95	3.93	3.23	3.89	3.72	3.23	3.23	3.14

Ex-33

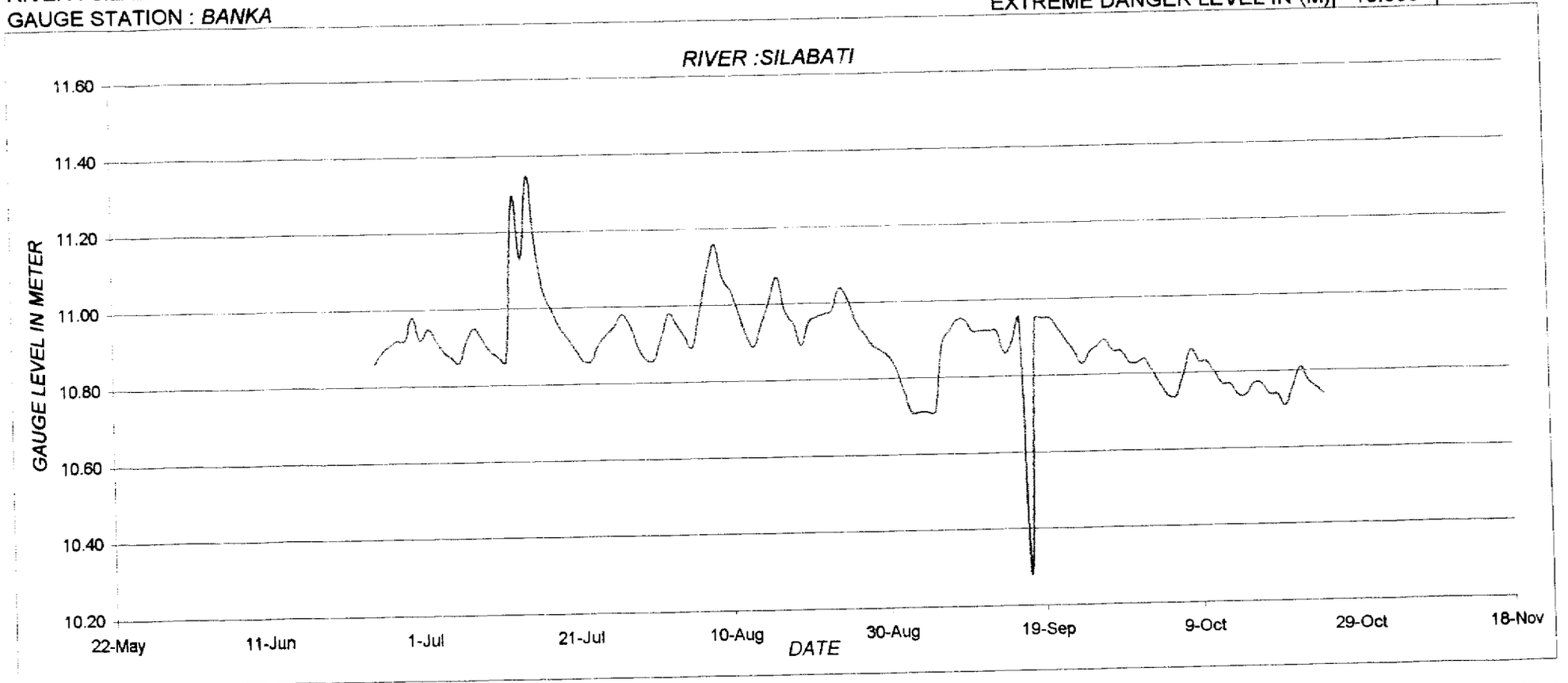
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *SILABATI*

GAUGE STATION : *BANKA*

DANGER LEVEL IN (M)	15.080
EXTREME DANGER LEVEL IN (M)	15.680



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	13-Jul-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	18-Jul-10	5-Aug-10	13-Aug-10	19-Aug-10
10.86	10.89	10.91	10.92	10.92	10.98	11.29	11.13	11.35	11.16	11.04	11.00	10.89	10.89	10.89
29-Aug-10	30-Aug-10	31-Aug-10	1-Sep-10	2-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	6-Sep-10	1-Oct-10	2-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10	22-Oct-10
10.88	10.86	10.83	10.77	10.71	10.71	10.71	10.71	10.89	10.83	10.84	10.86	10.83	10.83	10.81

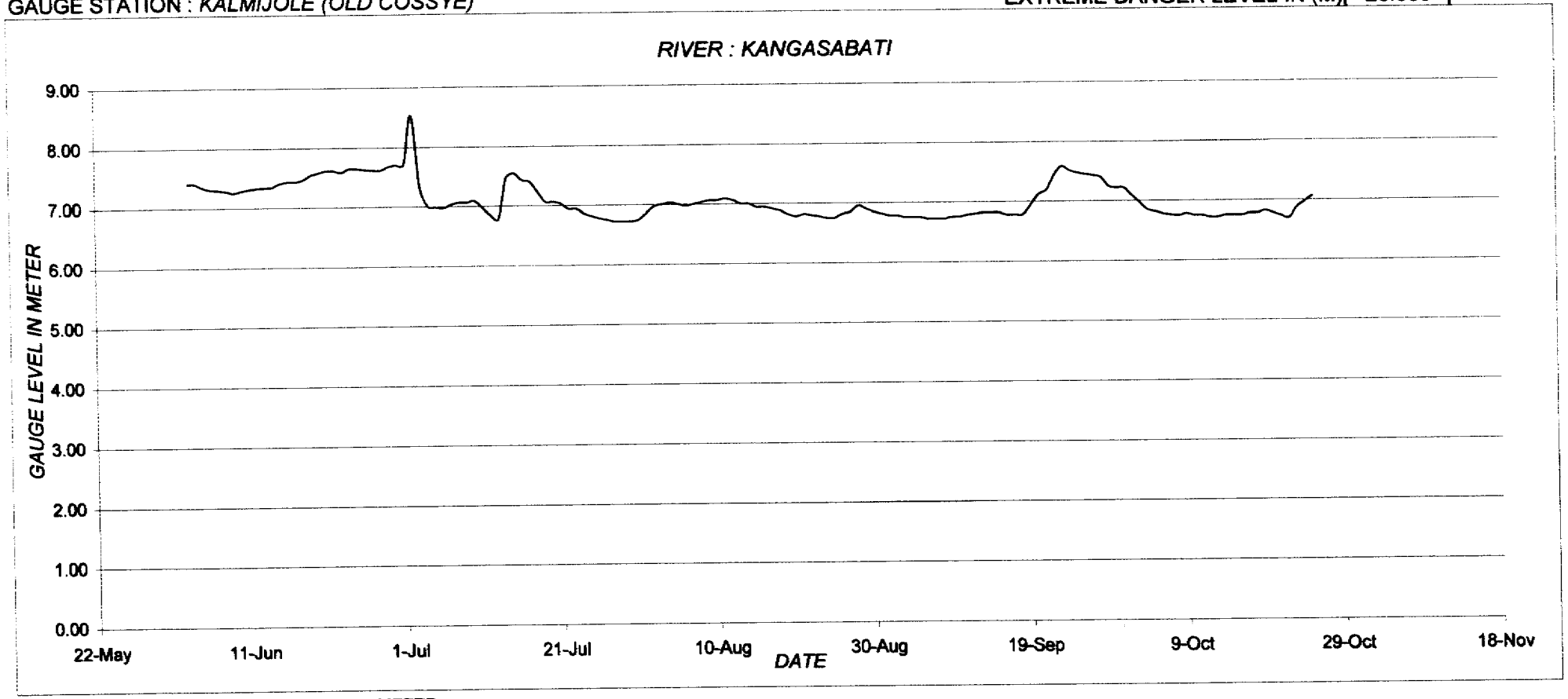
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *KANGSABATI*

GAUGE STATION : *KALMIJOLE (OLD COSSYE)*

DANGER LEVEL IN (M)	25.750
EXTREME DANGER LEVEL IN (M)	26.360



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

24-Jun-10	25-Jun-10	26-Jun-10	27-Jun-10	29-Jun-10	30-Jun-10	1-Jul-10	2-Jul-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	4-Aug-10	8-Aug-10	9-Aug-10
7.65	7.65	7.635	7.6275	7.68	7.71	7.71	8.53	7.47	7.56	7.44	7.41	7.04	7.04	7.07

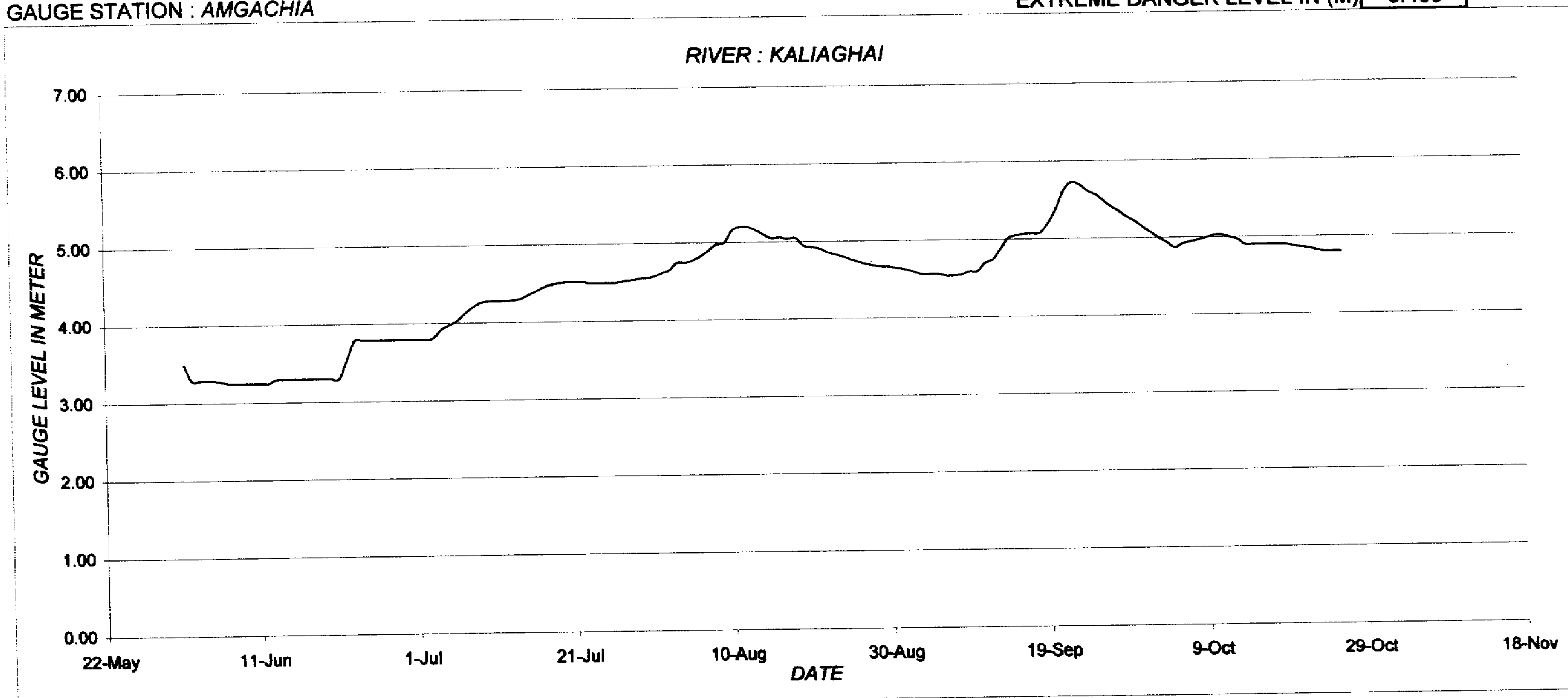
10-Aug-10	11-Aug-10	12-Aug-10	22-Sep-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	23-Oct-10	24-Oct-10	25-Oct-10
7.07	7.1	7.07	7.44	7.59	7.53	7.485	7.4625	7.44	7.23	7.1	6.98	6.89	6.98	7.07

GAUGE LEVELS OF IMPORTANT RIVERS DURING SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *KALIAGHAI*
GAUGE STATION : *AMGACHIA*

DANGER LEVEL IN (M)	5.800
EXTREME DANGER LEVEL IN (M)	6.400

G-35



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

23-Jun-10	24-Jun-10	25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	20-Jul-10	21-Jul-10	28-Jul-10	29-Jul-10	30-Jul-10	31-Jul-10	10-Aug-10	11-Aug-10	12-Aug-10
3.79	3.79	3.79	3.79	3.79	3.79	4.51	4.51	4.52	4.54	4.55	4.57	5.16	5.20	5.20

13-Aug-10	14-Aug-10	16-Aug-10	21-Sep-10	22-Sep-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10
5.16	5.10	5.06	5.62	5.72	5.70	5.62	5.57	5.49	5.14	5.07	5.00	5.00	5.03	5.03

SOURCE: PLANNING, PROJECT EVALUATION & MONITORING CELL, I&W Dte.

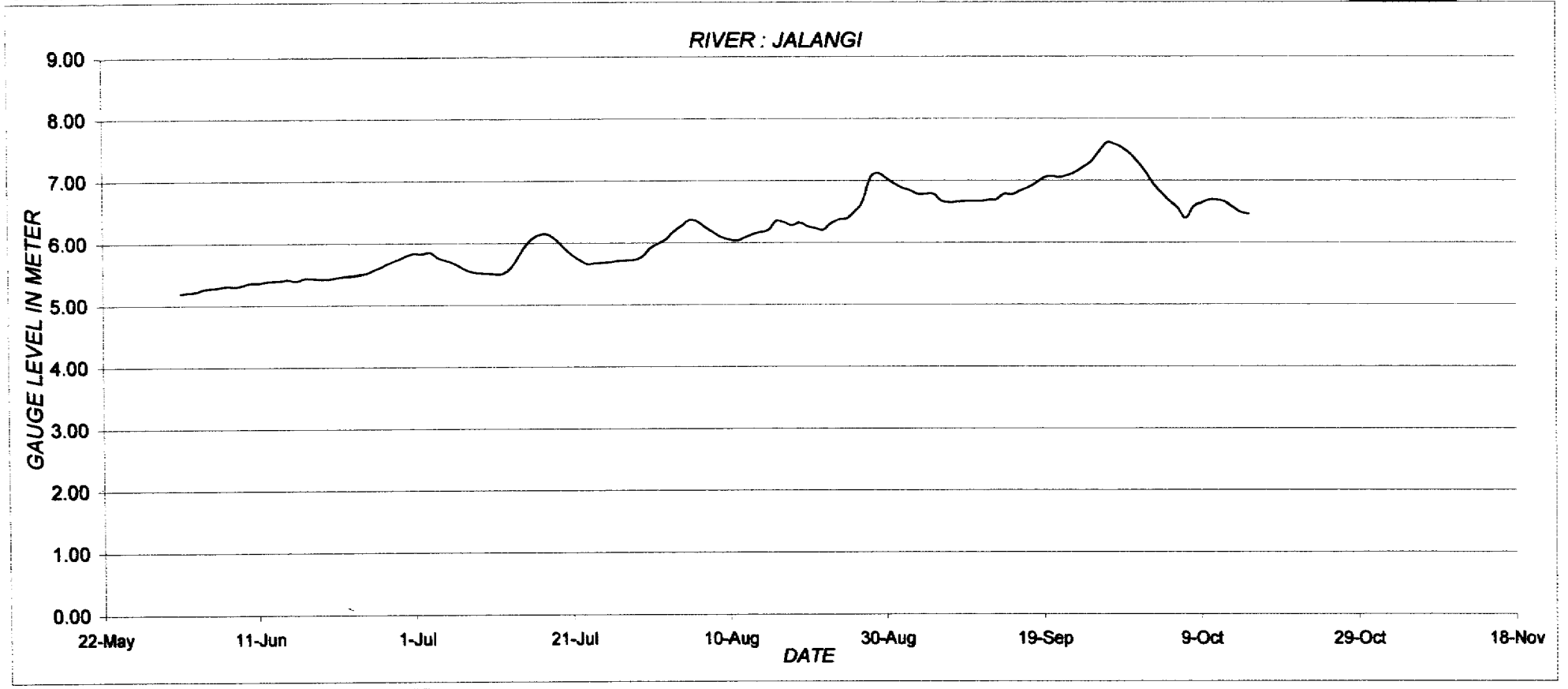
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *JALANGI*

GAUGE STATION : *SWARUPGANJ*

DANGER LEVEL IN (M)	8.440
EXTREME DANGER LEVEL IN (M)	9.050



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

25-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	15-Jul-10	16-Jul-10	17-Jul-10	18-Jul-10	19-Jul-10	20-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
5.52	5.58	5.63	5.69	5.74	5.80	5.94	6.08	6.14	6.14	6.05	5.93	6.52	6.67	7.06
29-Aug-10	30-Aug-10	31-Aug-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	29-Sep-10	30-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	10-Oct-10	11-Oct-10
7.13	7.05	6.96	7.31	7.47	7.62	7.60	7.54	7.44	7.30	7.14	6.94	6.80	6.69	6.69

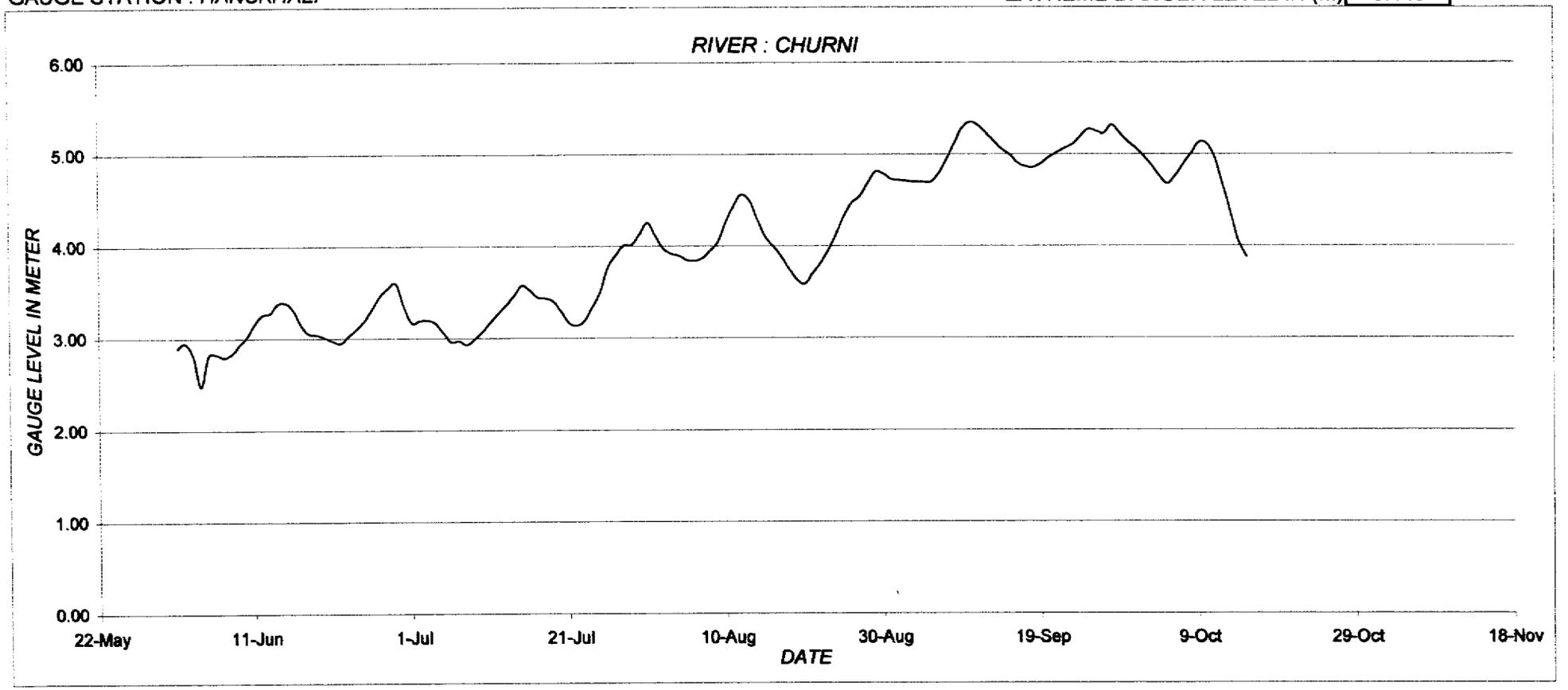
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *CHURNI*

GAUGE STATION : *HANSKHALI*

DANGER LEVEL IN (M)	7.530
EXTREME DANGER LEVEL IN (M)	8.140



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

14-Jun-10	15-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	26-Jul-10	27-Jul-10	28-Jul-10	29-Jul-10	30-Jul-10	31-Jul-10	12-Aug-10	27-Aug-10	28-Aug-10
3.38	3.39	3.46	3.55	3.6	3.35	3.77	3.9	4.01	4.02	4.13	4.26	4.56	4.54	4.68

29-Aug-10	30-Aug-10	31-Aug-10	9-Sep-10	10-Sep-10	11-Sep-10	25-Sep-10	26-Sep-10	28-Sep-10	1-Oct-10	2-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10
4.81	4.79	4.73	5.28	5.35	5.32	5.27	5.25	5.32	5.07	4.98	5.01	5.13	5.12	4.97

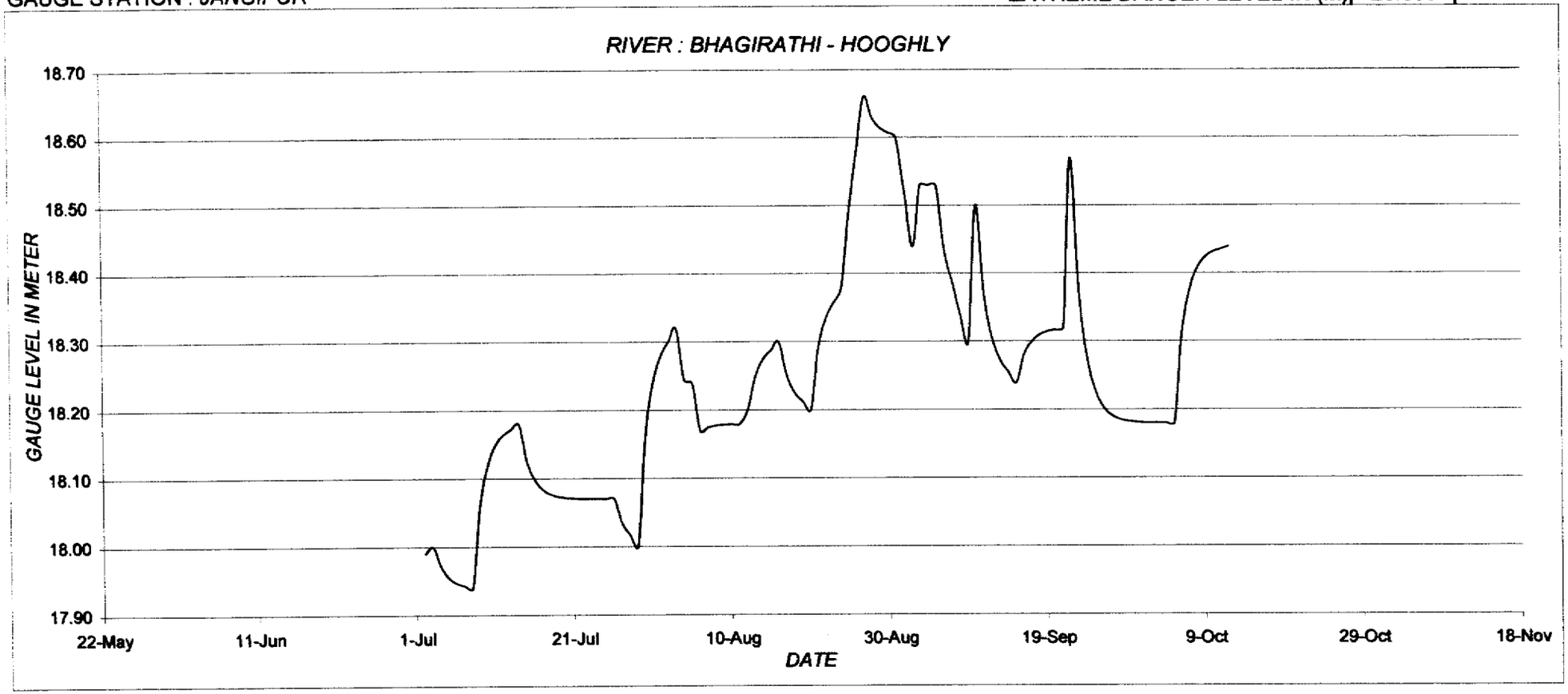
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *BHAGIRATHI - HOOGHLY*

GAUGE STATION : *JANGIPUR*

DANGER LEVEL IN (M)	20.270
EXTREME DANGER LEVEL IN (M)	20.880



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

1-Jun-10	2-Jun-10	3-Jun-10	4-Jun-10	5-Jun-10	6-Jun-10	11-Jul-10	12-Jul-10	13-Jul-10	14-Jul-10	30-Jul-10	31-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
N.A	N.A	N.A	N.A	N.A	N.A	18.15	18.165	18.1725	18.18	18.16	18.24	18.58	18.66	18.63

29-Aug-10	30-Aug-10	31-Aug-10	1-Sep-10	3-Sep-10	4-Sep-10	5-Sep-10	10-Sep-10	22-Sep-10	7-Oct-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10
18.615	18.6075	18.6	18.52	18.53	18.53	18.53	18.5	18.57	18.375	18.4075	18.42375	18.431875	18.4359375	18.44

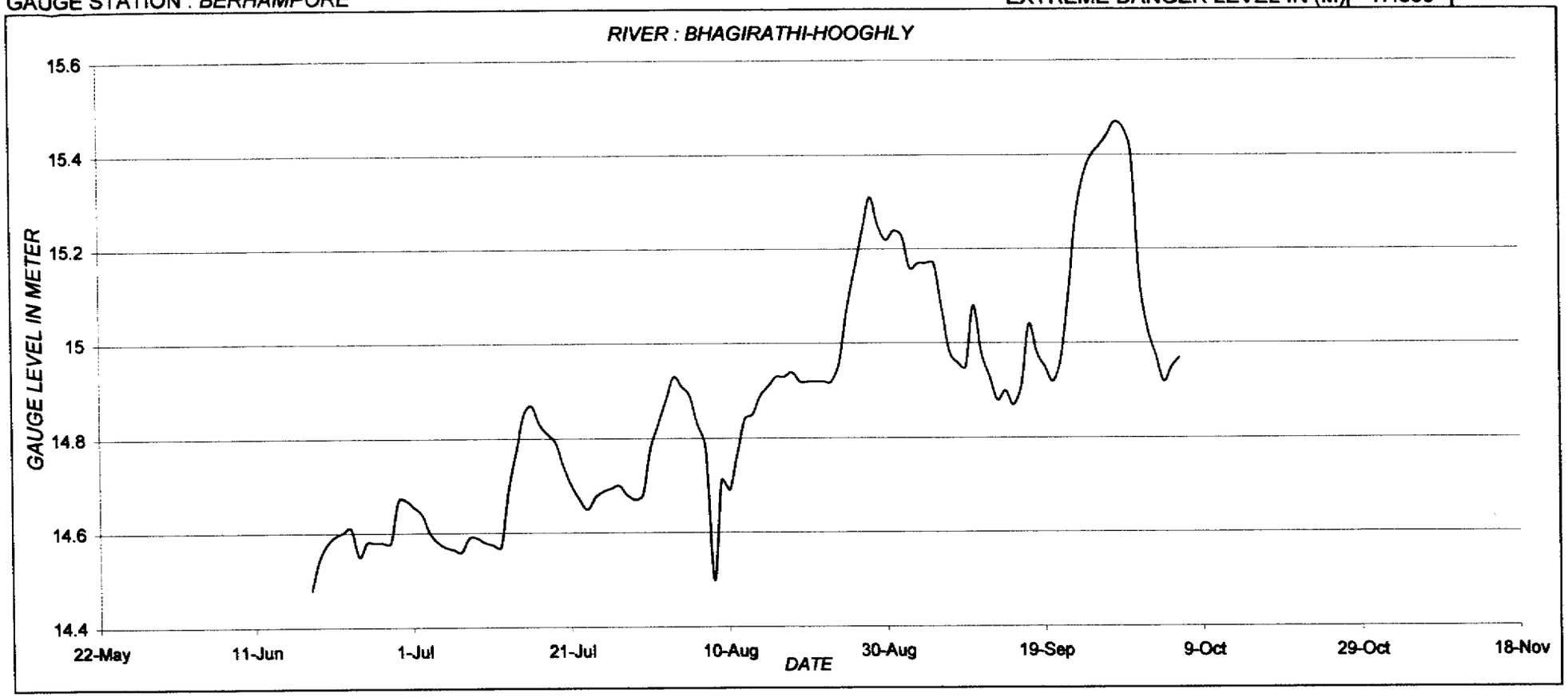
GAUGE LEVELS OF IMPORTANT RIVERS DURING SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *BHAGIRATHI-HOOGHLY*

GAUGE STATION : *BERHAMPORE*

DANGER LEVEL IN (M)	17.220
EXTREME DANGER LEVEL IN (M)	17.830



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

21-Jun-10	22-Jun-10	23-Jun-10	25-Jun-10	29-Jun-10	30-Jun-10	15-Jul-10	16-Jul-10	17-Jul-10	18-Jul-10	19-Jul-10	31-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
14.59	14.60	14.61	14.58	14.67	14.67	14.85	14.87	14.83	14.81	14.79	14.78	15.16	15.24	15.31

29-Aug-10	30-Aug-10	31-Aug-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	29-Sep-10	30-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
15.25	15.22	15.24	15.3975	15.41875	15.44	15.47	15.46	15.41	15.14	15.03	14.975	14.92	14.95	14.97

[illegible]

Ex-39

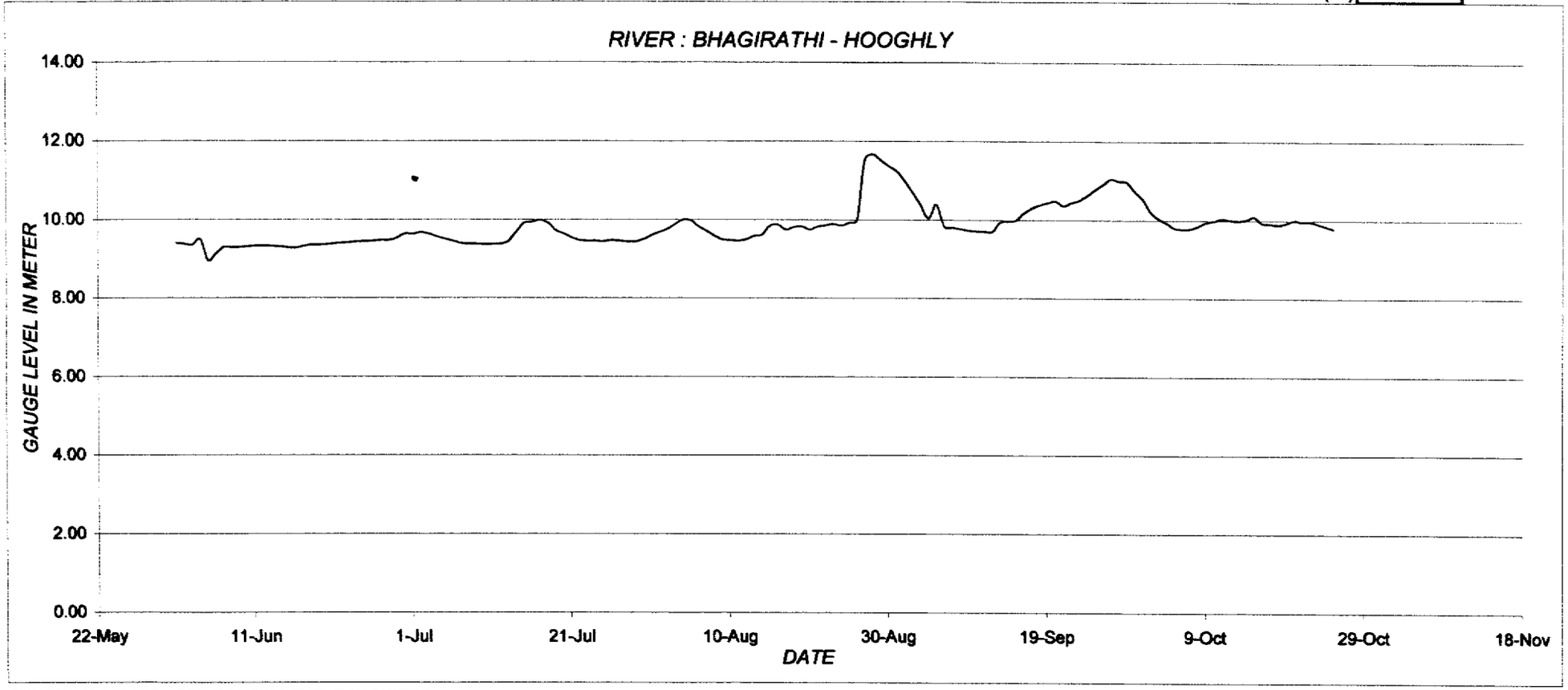
GAUGE LEVELS OF IMPORTANT RIVERS DURING SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *BHAGIRATHI - HOOGHLY*

GAUGE STATION : *KATWA*

DANGER LEVEL IN (M)	13.710
EXTREME DANGER LEVEL IN (M)	14.320



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

4-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	18-Jul-10	19-Jul-10	4-Aug-10	27-Aug-10	28-Aug-10
9.5	9.46	9.48	9.48	9.54	9.65	9.685	9.92	9.95	10	9.93	9.74	10	11.54	11.68

29-Aug-10	30-Aug-10	31-Aug-10	1-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	29-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	11-Oct-10	14-Oct-10	15-Oct-10
11.53	11.38	11.25	11	10.78	10.915	11.05	11	10.97	10.54	10.22	10.05	10.05	10.03	10.1

Cx-40

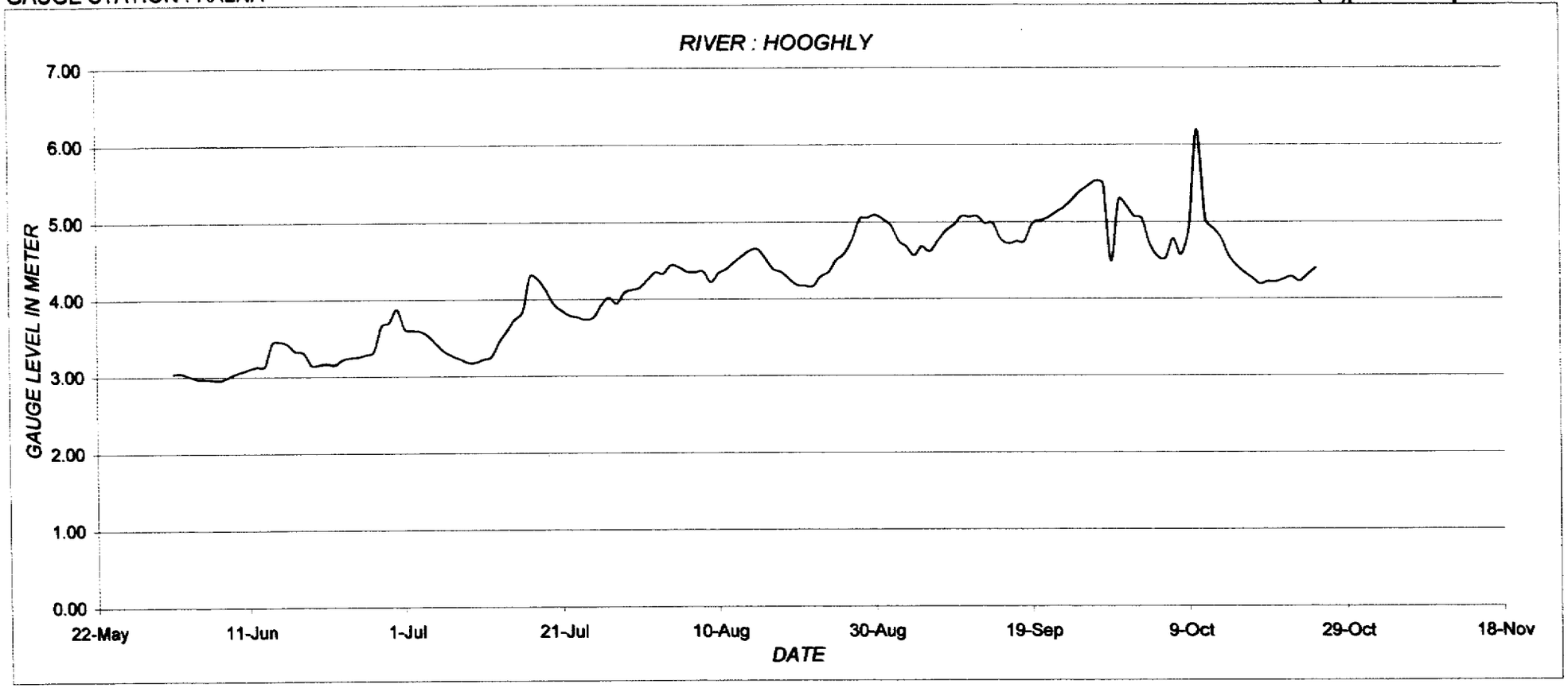
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *BHAGIRATHI - HOOGHLY*

GAUGE STATION : *KALNA*

DANGER LEVEL IN (M)	7.630
EXTREME DANGER LEVEL IN (M)	8.240



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

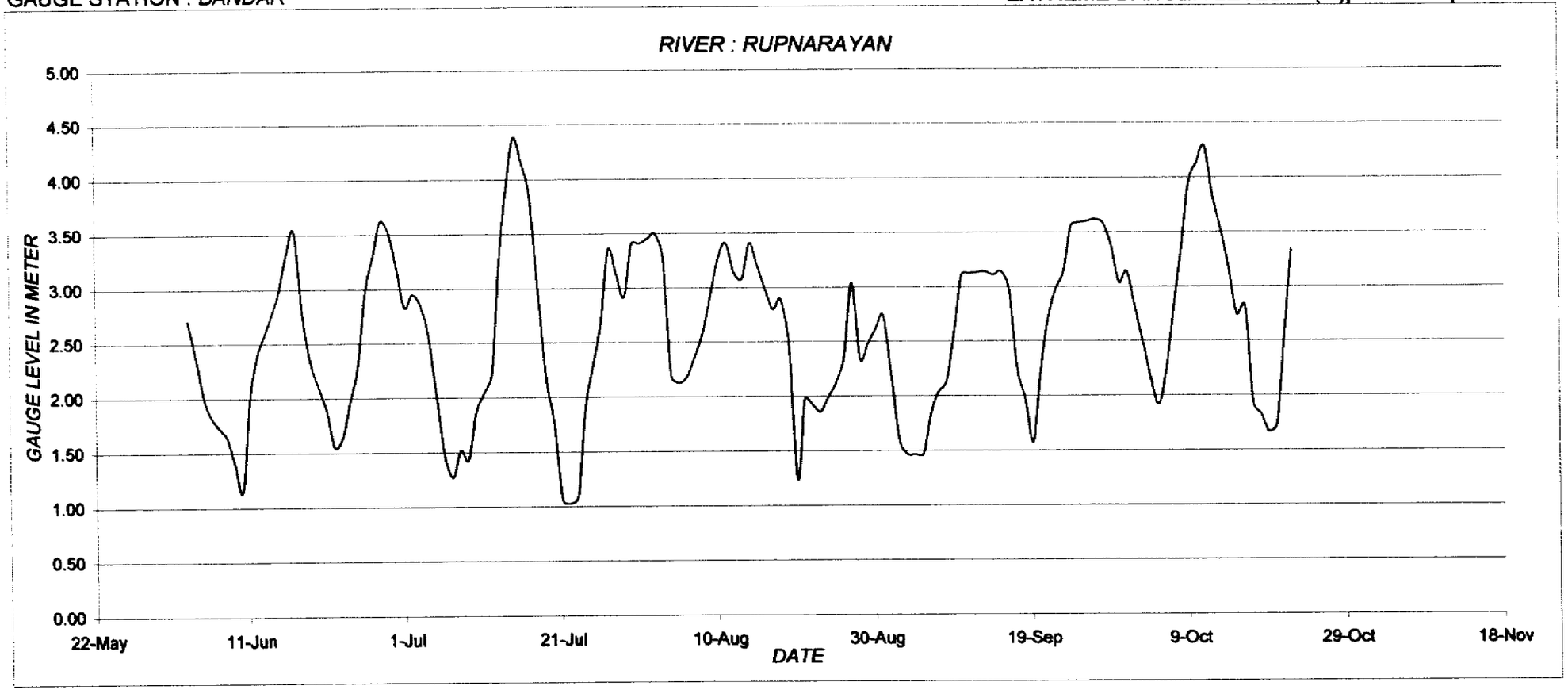
14-Jun-10	15-Jun-10	16-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	17-Jul-10	18-Jul-10	19-Jul-10	29-Jul-10	30-Jul-10	31-Jul-10	15-Aug-10	27-Aug-10	28-Aug-10
3.435	3.455	3.425	3.655	3.705	3.875	4.3	4.26	4.12	4.085	4.12	4.15	4.65	4.765	5.035

29-Aug-10	30-Aug-10	31-Aug-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	30-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10
5.05	5.09	5.04	5.285	5.395	5.465	5.535	5.5	5.29	5.21	5.07	5.04	4.935	6.195	5.035

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *RUPNARAYAN*
GAUGE STATION : *BANDAR*

DANGER LEVEL IN (M)	6.850
EXTREME DANGER LEVEL IN (M)	7.460



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

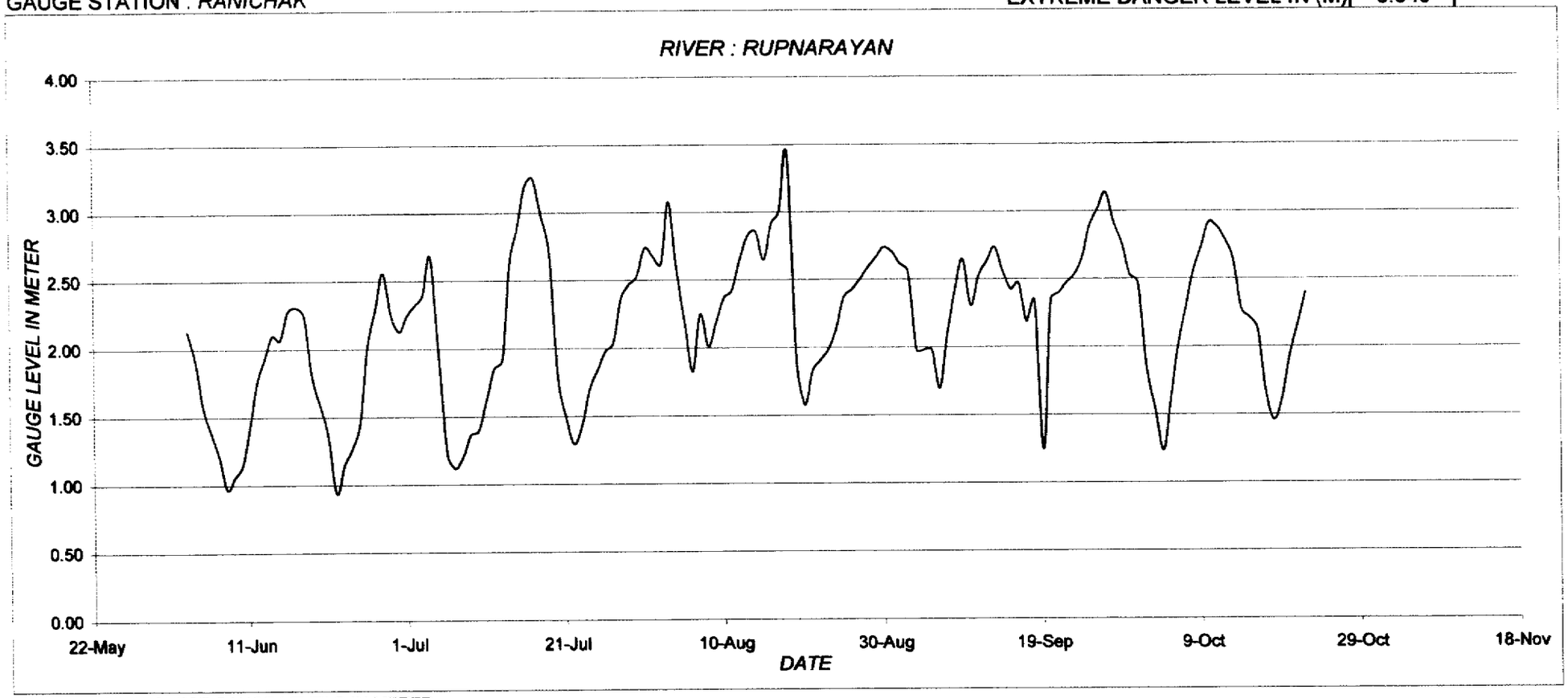
16-Jun-10	17-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	30-Jul-10	31-Jul-10	1-Aug-10	2-Aug-10	3-Aug-10
3.32	3.53	3.29	3.62	3.53	3.20	3.90	4.38	4.17	3.87	3.41	3.41	3.46	3.50	3.29

10-Aug-10	11-Aug-10	14-Aug-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	29-Sep-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	13-Oct-10
3.26	3.41	3.41	3.56	3.59	3.61	3.62	3.59	3.38	3.35	3.96	4.14	4.29	3.84	3.53

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *RUPNARAYAN*
GAUGE STATION : *RANICHAK*

DANGER LEVEL IN (M)	5.330
EXTREME DANGER LEVEL IN (M)	5.940



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

16-Jun-10	17-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	30-Jul-10	31-Jul-10	1-Aug-10	2-Aug-10	3-Aug-10
3.32	3.53	3.29	3.62	3.53	3.20	3.90	4.38	4.17	3.87	3.41	3.41	3.46	3.50	3.29

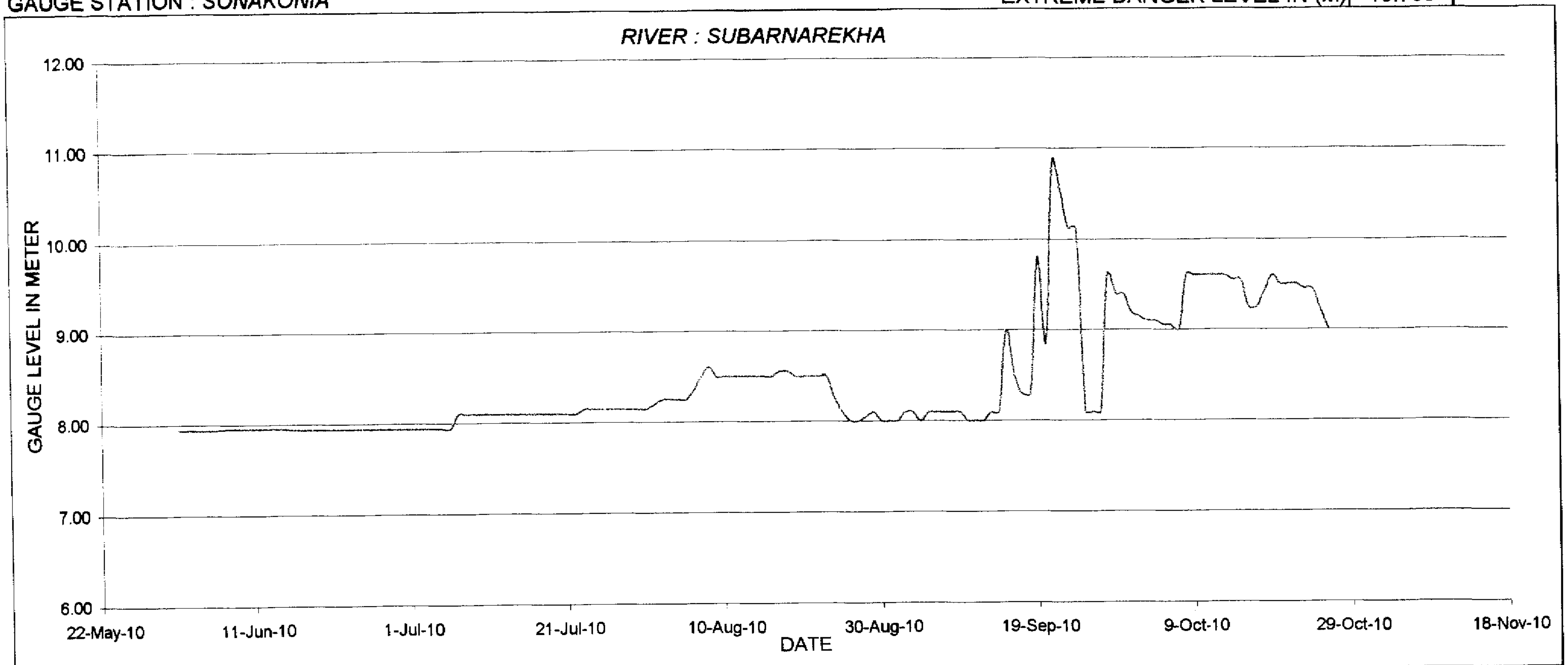
10-Aug-10	11-Aug-10	14-Aug-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	29-Sep-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	13-Oct-10
3.26	3.41	3.41	3.56	3.59	3.61	3.62	3.59	3.38	3.35	3.96	4.14	4.29	3.84	3.53

Gx-43

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *SUBARNAREKHA*
GAUGE STATION : *SONAKONIA*

DANGER LEVEL IN (M)	16.150
EXTREME DANGER LEVEL IN (M)	16.750



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

7-Jun-10	8-Jun-10	9-Jun-10	10-Jun-10	11-Jun-10	12-Jun-10	23-Jul-10	24-Jul-10	25-Jul-10	26-Jul-10	27-Jul-10	28-Jul-10	7-Aug-10	8-Aug-10	9-Aug-10
7.95	7.95	7.95	7.95	7.95	7.95	8.15	8.15	8.15	8.15	8.15	8.15	8.50	8.60	8.50

10-Aug-10	17-Aug-10	18-Aug-10	19-Sep-10	21-Sep-10	22-Sep-10	23-Sep-10	24-Sep-10	28-Sep-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	13-Oct-10
8.50	8.55	8.55	9.80	10.86	10.55	10.12	10.12	9.61	9.61	9.60	9.60	9.60	9.60	9.60

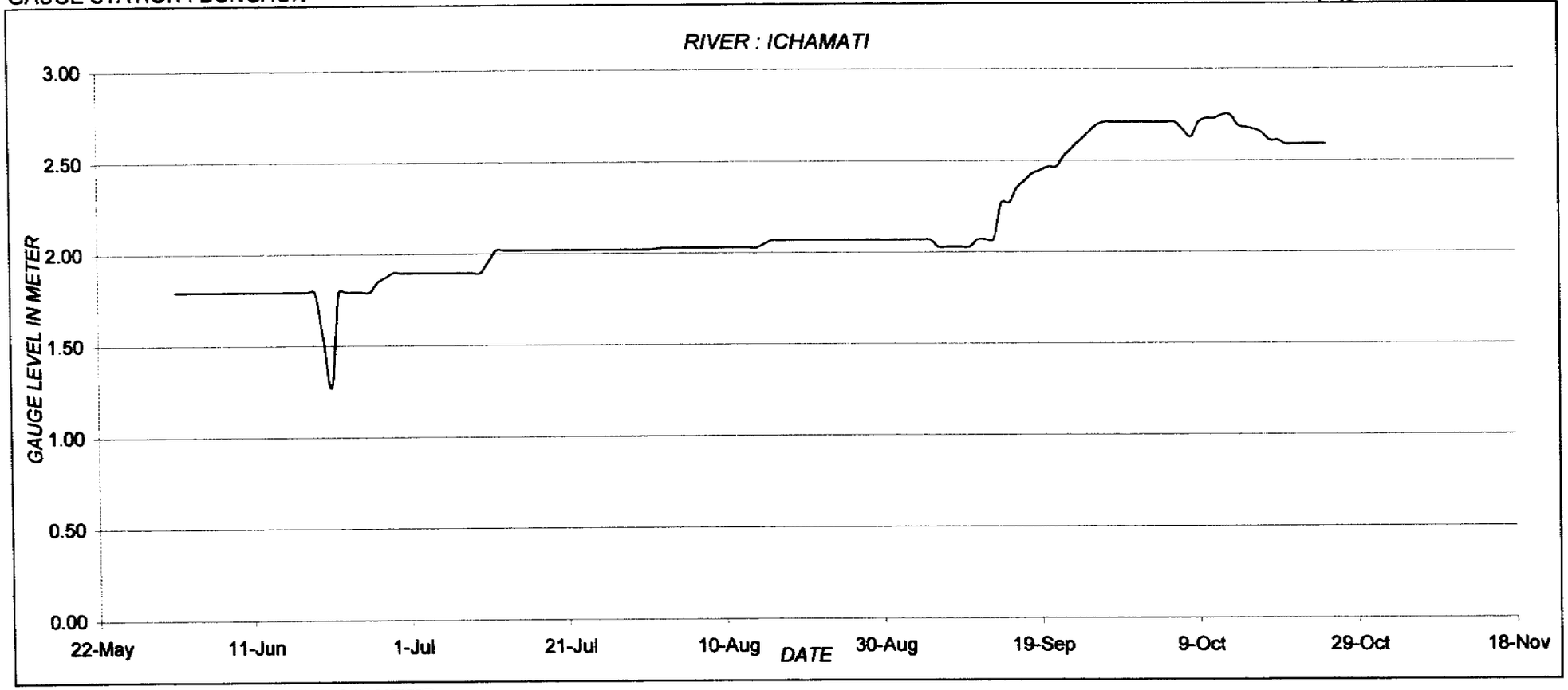
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *ICHAMATI*

GAUGE STATION : *BONGAON*

DANGER LEVEL IN (M)	5.075
EXTREME DANGER LEVEL IN (M)	5.675



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

1-Jun-10	2-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	12-Jul-10	13-Jul-10	14-Jul-10	15-Jul-10	16-Jul-10	17-Jul-10	16-Aug-10	17-Aug-10	18-Aug-10
1.80	1.80	1.85	1.87	1.90	1.90	2.02	2.02	2.02	2.02	2.02	2.02	2.07	2.07	2.07

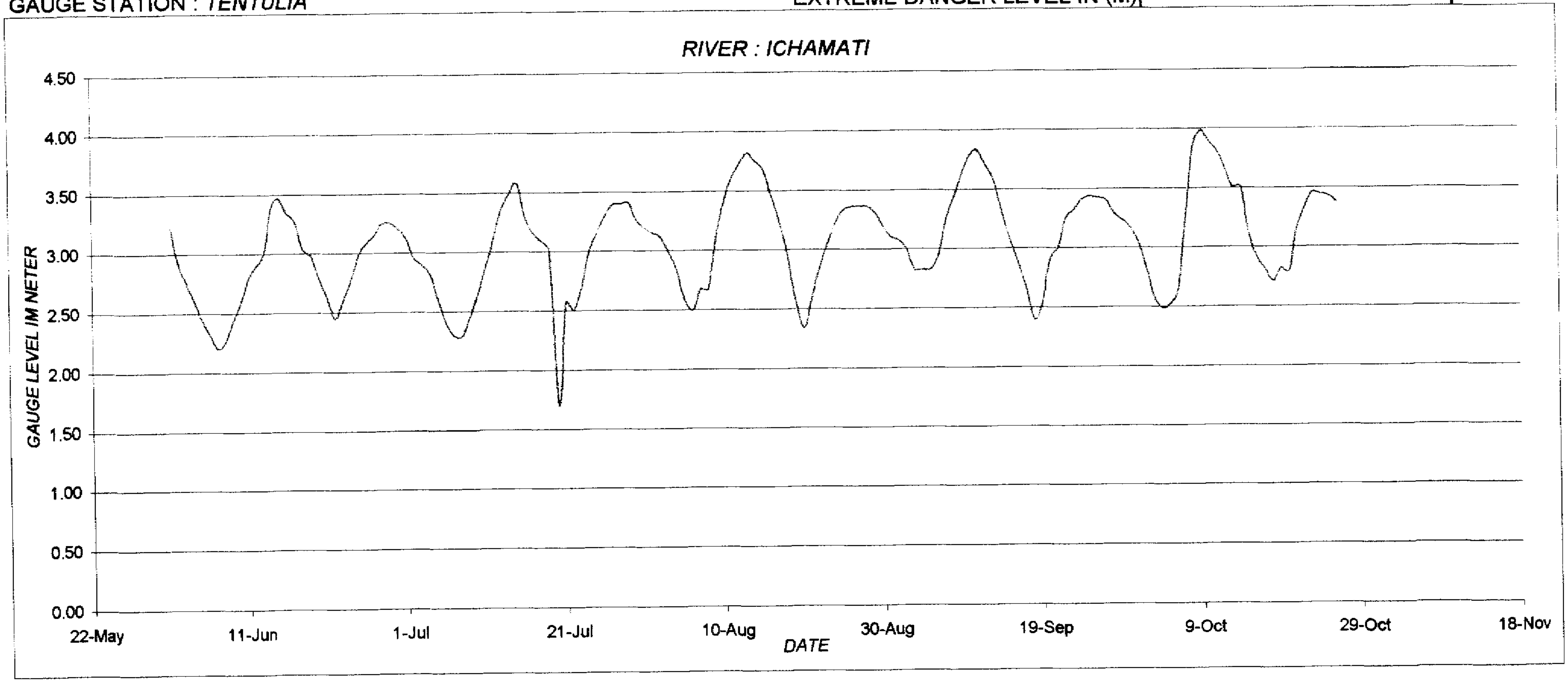
19-Aug-10	20-Aug-10	21-Aug-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	29-Sep-10	30-Sep-10	1-Oct-10	2-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	13-Oct-10
2.07	2.07	2.07	2.65	2.69	2.71	2.71	2.71	2.71	2.71	2.71	2.73	2.73	2.75	2.75

G-46

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *ICHAMATI*
GAUGE STATION : *TENTULIA*

DANGER LEVEL IN (M)	Max 5.10M in the year 2000
EXTREME DANGER LEVEL IN (M)	HTL .at. 5:15 P.M.ON 30.06.10



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

14-Jun-10	15-Jun-10	16-Jun-10	17-Jun-10	28-Jun-10	29-Jun-10	13-Jul-10	14-Jul-10	15-Jul-10	27-Jul-10	28-Jul-10	29-Jul-10	11-Aug-10	12-Aug-10	13-Aug-10
3.38	3.47	3.35	3.28	3.25	3.26	3.36	3.5	3.58	3.39	3.4	3.41	3.6	3.73	3.82

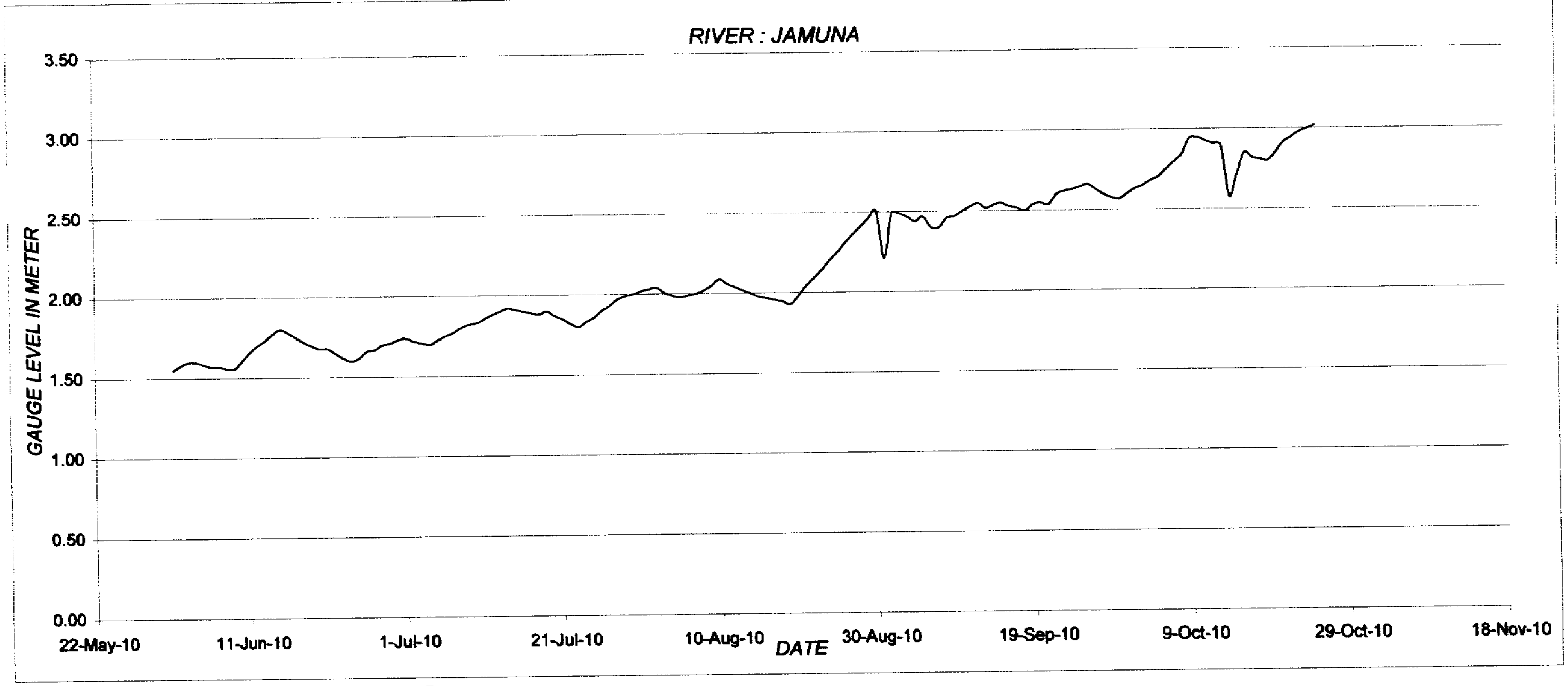
14-Aug-10	15-Aug-10	16-Aug-10	8-Sep-10	9-Sep-10	10-Sep-10	11-Sep-10	12-Sep-10	13-Sep-10	8-Oct-10	9-Oct-10	10-Oct-10	11-Oct-10	12-Oct-10	13-Oct-10
3.75	3.68	3.46	3.44	3.64	3.79	3.83	3.705	3.58	3.86	3.98	3.9	3.82	3.68	3.51

ADVANCE PLANNING, PROJECT EVALUATION & MONITORING CELL, I&W Dte.

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *JAMUNA*
GAUGE STATION : *GAIGHATA*

DANGER LEVEL IN (M)	3.900
EXTREME DANGER LEVEL IN (M)	4.500



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

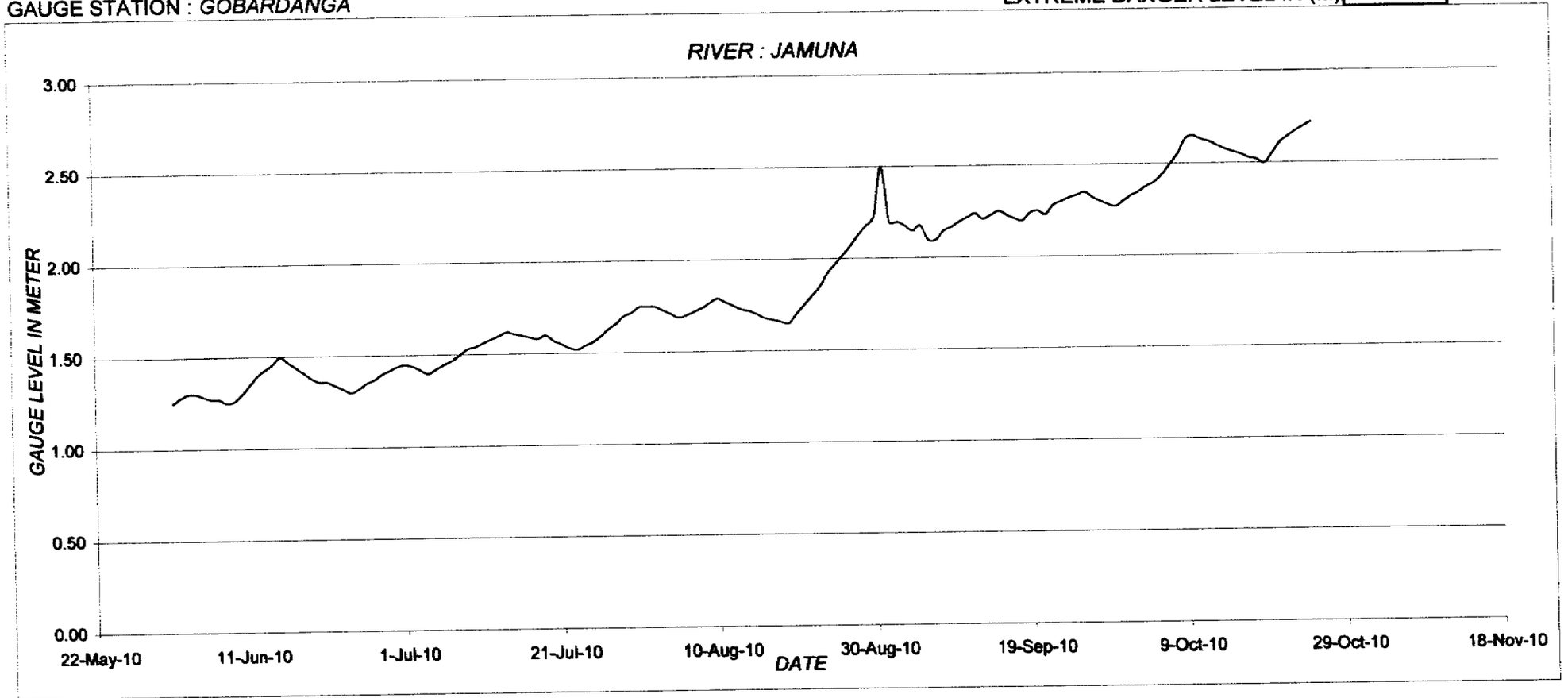
13-Jun-10	14-Jun-10	15-Jun-10	16-Jun-10	17-Jun-10	30-Jun-10	14-Jul-10	27-Jul-10	28-Jul-10	29-Jul-10	30-Jul-10	31-Jul-10	25-Aug-10	26-Aug-10	27-Aug-10
1.73	1.77	1.80	1.78	1.75	1.73	1.92	1.93	1.97	1.99	2.00	2.02	2.25	2.31	2.36

28-Aug-10	29-Aug-10	30-Aug-10	22-Sep-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	9-Oct-10	10-Oct-10	22-Oct-10	23-Oct-10	24-Oct-10	25-Oct-10
2.41	2.46	2.51	2.60	2.62	2.63	2.65	2.66	2.63	2.94	2.95	2.95	2.98	3.00	3.02

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER : *JAMUNA*
GAUGE STATION : *GOBARDANGA*

DANGER LEVEL IN (M)	3.770
EXTREME DANGER LEVEL IN (M)	4.370



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

13-Jun-10	14-Jun-10	15-Jun-10	16-Jun-10	17-Jun-10	30-Jun-10	14-Jul-10	27-Jul-10	28-Jul-10	29-Jul-10	30-Jul-10	31-Jul-10	26-Aug-10	27-Aug-10	28-Aug-10
1.43	1.46	1.50	1.47	1.44	1.44	1.62	1.63	1.66	1.70	1.72	1.75	2.02	2.07	2.13

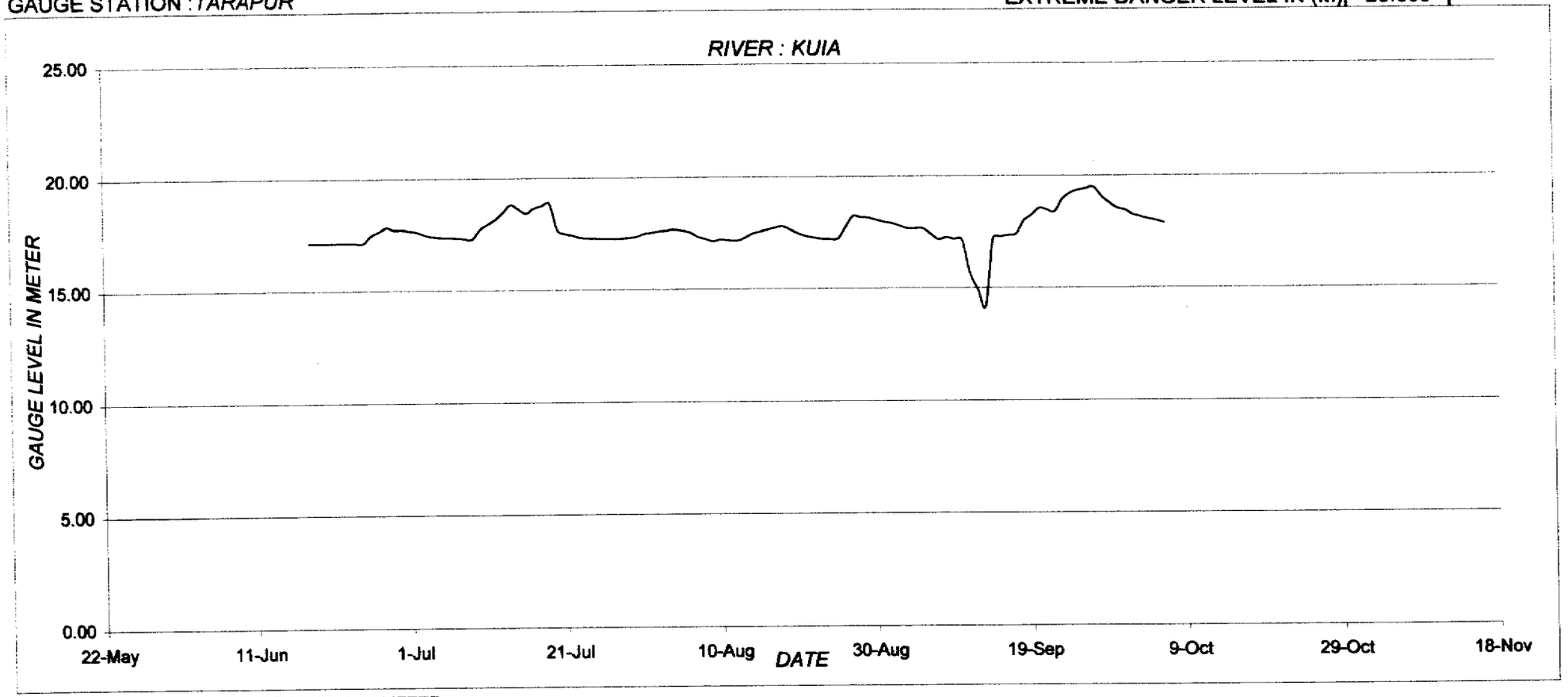
29-Aug-10	30-Aug-10	31-Aug-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	9-Oct-10	10-Oct-10	22-Oct-10	23-Oct-10	24-Oct-10	25-Oct-10
2.18	2.23	2.50	2.30	2.32	2.34	2.35	2.32	2.30	2.63	2.65	2.64	2.67	2.70	2.72

ADVANCE PLANNING, PROJECT FORMULATION & MONITORING CELL, BWDB.

GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS
RIVER :*KUIA*
GAUGE STATION :*TARAPUR*

DANGER LEVEL IN (M)	22.710
EXTREME DANGER LEVEL IN (M)	23.350



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

18-Jun-10	26-Jun-10	27-Jun-10	28-Jun-10	29-Jun-10	30-Jun-10	13-Jul-10	14-Jul-10	15-Jul-10	17-Jul-10	18-Jul-10	19-Jul-10	18-Aug-10	27-Aug-10	28-Aug-10
17.15	17.50	17.67	17.84	17.72	17.73	18.49	18.82	18.63	18.66	18.77	18.88	17.79	18.23	18.18

29-Aug-10	30-Aug-10	31-Aug-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	5-Oct-10	6-Oct-10
18.16	18.07	17.97	18.95	19.23	19.36	19.43	19.50	19.09	18.47	18.27	18.16	18.06	17.99	17.89

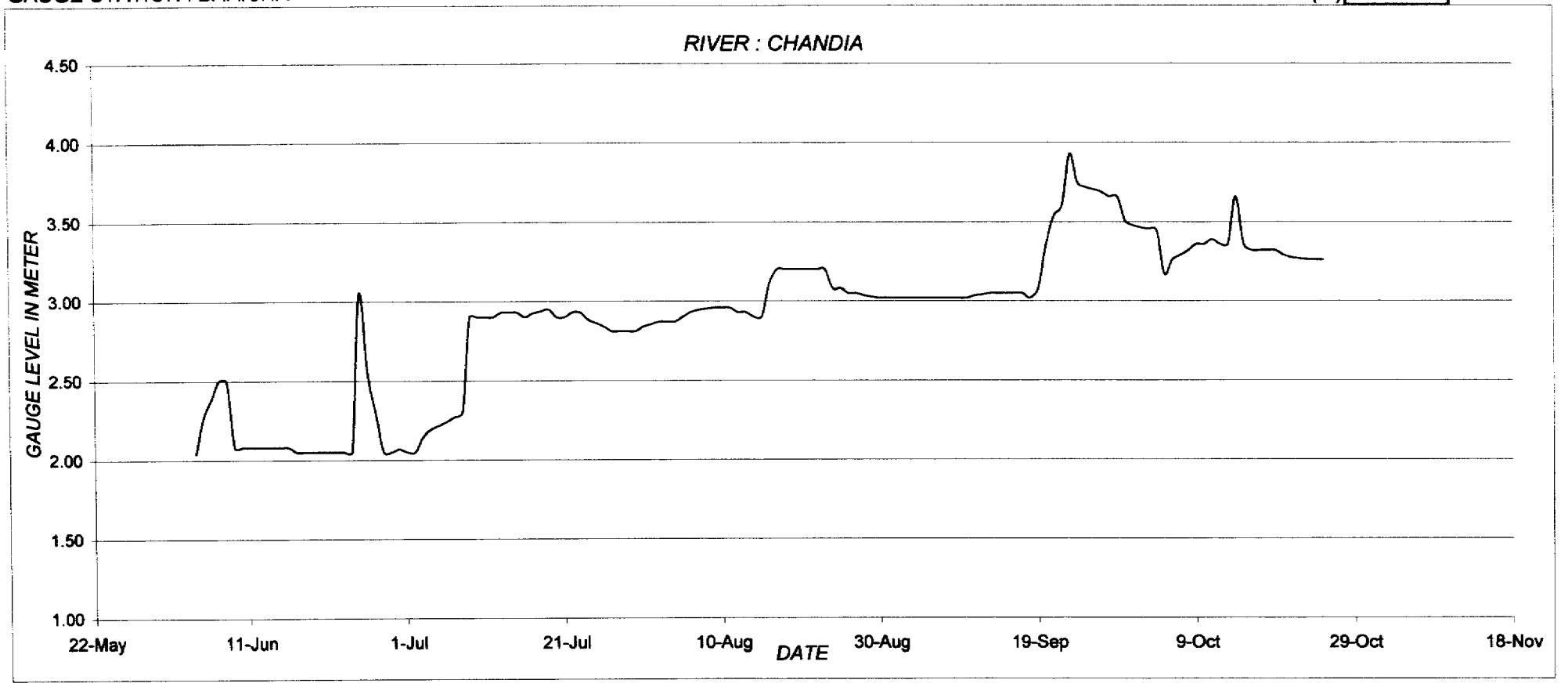
GAUGE LEVELS OF IMPORTANT RIVERS DURING FLOOD SEASON OF 2010

SOUTH BENGAL RIVERS

RIVER : *CHANDIA*

GAUGE STATION : *BARISHA*

DANGER LEVEL IN (M)	4.550
EXTREME DANGER LEVEL IN (M)	5.000



MONTHLY SIX HIGHEST GAUGE LEVELS IN METER

6-Jun-10	7-Jun-10	8-Jun-10	25-Jun-10	26-Jun-10	27-Jun-10	13-Jul-10	14-Jul-10	15-Jul-10	18-Jul-10	19-Jul-10	22-Jul-10	17-Aug-10	18-Aug-10	19-Aug-10
2.39	2.50	2.50	3.05	2.55	2.30	2.93	2.93	2.93	2.94	2.95	2.93	3.20	3.20	3.20

20-Aug-10	21-Aug-10	22-Aug-10	23-Sep-10	24-Sep-10	25-Sep-10	26-Sep-10	27-Sep-10	28-Sep-10	1-Oct-10	2-Oct-10	3-Oct-10	4-Oct-10	11-Oct-10	14-Oct-10
3.20	3.20	3.20	3.93	3.75	3.72	3.71	3.69	3.66	3.48	3.47	3.46	3.45	3.39	3.66

TENUGHAT DAM			
6:00 A.M			
DATE	CONSERVATION/ BOND LEVEL LEVEL IN M /FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
2	3	4.00	6.000
1-Jun-10	263.66 / 865.00	N.A.	N.A.
2-Jun-10	263.66 / 865.00	N.A.	N.A.
3-Jun-10	263.66 / 865.00	255.94	45.670
4-Jun-10	263.66 / 865.00	255.91	N.A.
5-Jun-10	263.66 / 865.00	255.86	25.580
6-Jun-10	263.66 / 865.00	N.A.	N.A.
7-Jun-10	263.66 / 865.00	255.82	5.280
8-Jun-10	263.66 / 865.00	255.79	N.A.
9-Jun-10	263.66 / 865.00	255.76	N.A.
10-Jun-10	263.66 / 865.00	255.73	NIL
11-Jun-10	263.66 / 865.00	255.70	N.A.
12-Jun-10	263.66 / 865.00	N.A.	N.A.
13-Jun-10	263.66 / 865.00	N.A.	N.A.
14-Jun-10	263.66 / 865.00	255.61	N.A.
15-Jun-10	263.66 / 865.00	255.57	N.A.
16-Jun-10	263.66 / 865.00	255.54	N.A.
17-Jun-10	263.66 / 865.00	N.A.	N.A.
18-Jun-10	263.66 / 865.00	255.51	5.215
19-Jun-10	263.66 / 865.00	255.51	1.880
20-Jun-10	263.66 / 865.00	255.62	5.230
21-Jun-10	263.66 / 865.00	255.73	5.255
22-Jun-10	263.66 / 865.00	255.85	N.A.
23-Jun-10	263.66 / 865.00	255.88	N.A.
24-Jun-10	263.66 / 865.00	255.89	2.920
25-Jun-10	263.66 / 865.00	255.89	4.444
26-Jun-10	263.66 / 865.00	255.91	4.730
27-Jun-10	263.66 / 865.00	255.91	4.730
28-Jun-10	263.66 / 865.00	255.94	4.812
29-Jun-10	263.66 / 865.00	256.85	4.879
30-Jun-10	263.66 / 865.00	257.01	4.951
1-Jul-10	263.66 / 865.00	257.07	4.951
2-Jul-10	263.66 / 865.00	257.10	4.974
3-Jul-10	263.66 / 865.00	257.10	4.972
4-Jul-10	263.66 / 865.00	257.14	1.790
5-Jul-10	263.66 / 865.01	N.A.	N.A.
6-Jul-10	263.66 / 865.00	257.18	4.979
7-Jul-10	263.66 / 865.00	257.16	4.979
8-Jul-10	263.66 / 865.00	257.14	4.979
9-Jul-10	263.66 / 865.00	257.13	4.979
10-Jul-10	263.66 / 865.01	257.11	1.790
11-Jul-10	263.66 / 865.02	N.A.	N.A.
12-Jul-10	263.66 / 865.00	257.37	5.250
13-Jul-10	263.66 / 865.00	257.45	5.479
14-Jul-10	263.66 / 865.0	257.57	5.505
15-Jul-10	263.66 / 865.00	257.74	5.518
16-Jul-10	263.66 / 865.00	257.83	5.280
17-Jul-10	263.66 / 865.00	257.89	1.900
18-Jul-10	263.66 / 865.00	257.91	1.900
19-Jul-10	263.66 / 865.00	257.92	5.540
20-Jul-10	263.66 / 865.00	257.92	5.563
21-Jul-10	263.66 / 865.00	257.92	5.563
22-Jul-10	263.66 / 865.00	257.92	5.563
23-Jul-10	263.66 / 865.00	257.92	5.563
24-Jul-10	263.66 / 865.00	258.10	2.010
25-Jul-10	263.66 / 865.00	N.A.	N.A.
26-Jul-10	263.66 / 865.00	N.A.	N.A.
27-Jul-10	263.66 / 865.00	258.39	5.604

TENUGHAT DAM			
6.00 A.M			
DATE	CONSERVATION/ POND LEVEL LEVEL IN M /FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	3	4.00	6.000
28-Jul-10	263.66 / 865.00	258.49	5.619
29-Jul-10	263.66 / 865.00	258.55	5.635
30-Jul-10	263.66 / 865.00	258.61	5.647
31-Jul-10	263.66 / 865.0	NA	NA
1-Aug-10	263.66 / 865.0	NA	NA
2-Aug-10	263.66 / 865.00	258.64	5.647
3-Aug-10	263.66 / 865.00	258.68	5.650
4-Aug-10	263.66 / 865.00	258.73	NA
5-Aug-10	263.66 / 865.00	258.76	NA
6-Aug-10	263.66 / 865.00	258.78	5.674
7-Aug-10	263.66 / 865.00	258.78	2.040
8-Aug-10	263.66 / 865.00	258.79	2.040
9-Aug-10	263.66 / 865.00	258.79	5.674
10-Aug-10	263.66 / 865.00	258.79	5.674
11-Aug-10	263.66 / 865.00	258.78	5.674
12-Aug-10	263.66 / 865.00	N.A.	N.A.
13-Aug-10	263.66 / 865.00	258.74	5.674
14-Aug-10	263.66 / 865.00	258.76	2.040
15/08/2010	263.66 / 865.00	258.84	2.040
16-Aug-10	263.66 / 865.00	258.96	5.679
17-Aug-10	263.66 / 865.00	259.20	5.709
18-Aug-10	263.66 / 865.00	259.31	5.730
19-Aug-10	263.66 / 865.00	259.35	5.730
20-Aug-10	263.66 / 865.00	259.51	5.752
21-Aug-10	263.66 / 865.00	259.69	2.080
22-Aug-10	263.66 / 865.00	259.78	5.670
23-Aug-10	263.66 / 865.00	259.86	5.809
24-Aug-10	263.66 / 865.00	259.99	5.814
25-Aug-10	263.66 / 865.00	259.95	76.112
26-Aug-10	263.66 / 865.00	259.89	93.607
27-Aug-10	263.66 / 865.00	259.80	92.069
28-Aug-10	263.66 / 865.00	259.81	19.988
29-Aug-10	263.66 / 865.00	259.84	5.808
30-Aug-10	263.66 / 865.00	259.86	5.814
31-Aug-10	263.66 / 865.00	259.95	5.814
1-Sep-10	263.66 / 865.00	259.95	2.090
2-Sep-10	263.66 / 865.01	260.02	5.814
3-Sep-10	263.66 / 865.00	259.96	76.385
4-Sep-10	263.66 / 865.00	260.04	177.520
5-Sep-10	263.66 / 865.00	NA	NA
6-Sep-10	263.66 / 865.00	NA	NA
7-Sep-10	263.66 / 865.00	260.09	5.841
8-Sep-10	263.66 / 865.00	260.10	5.841
9-Sep-10	263.66 / 865.00	259.99	80.833
10-Sep-10	263.66 / 865.00	259.89	94.111
11-Sep-10	263.66 / 865.00	259.87	2.090
12-Sep-10	263.66 / 865.00	259.92	2.090
13-Sep-10	263.66 / 865.00	259.93	1.420
14-Sep-10	263.66 / 865.00	259.99	94.244
15-Sep-10	263.66 / 865.00	259.81	134.096
16-Sep-10	263.66 / 865.00	259.81	91.462
17-Sep-10	263.66 / 865.00	259.80	91.386
18-Sep-10	263.66 / 865.00	259.80	91.386
19-Sep-10	263.66 / 865.00	259.78	32.740
20-Sep-10	263.66 / 865.00	260.04	92.358
21-Sep-10	263.66 / 865.00	259.92	281.331
22-Sep-10	263.66 / 865.00	259.92	130.480

TENUGHAT DAM			
6:00 A.M			
DATE	CONSERVATION/ POND LEVEL LEVEL IN M. FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	3	4.00	6.000
23-Sep-10	263.66 / 865.00	259.83	92.475
24-Sep-10	263.66 / 865.00	259.78	87.780
25-Sep-10	263.66 / 865.00	NA	NA
26-Sep-10	263.66 / 865.00	259.84	2.000
27-Sep-10	263.66 / 865.00	259.87	5.814
28-Sep-10	263.66 / 865.00	259.89	5.814
29-Sep-10	263.66 / 865.00	259.90	5.814
30-Sep-10	263.66 / 865.00	259.89	5.814
1-Oct-10	263.66 / 865.00	259.87	5.814
2-Oct-10	263.66 / 865.00	259.87	2.090
3-Oct-10	263.66 / 865.00	269.87	50.16 HM
4-Oct-10	263.66 / 865.00	259.87	5.814
5-Oct-10	263.66 / 865.00	259.87	5.814
6-Oct-10	263.66 / 865.00	259.89	5.814
7-Oct-10	263.66 / 865.00	259.96	6.250
8-Oct-10	263.66 / 865.00	259.93	79.812
9-Oct-10	263.66 / 865.00	259.81	32.950
10-Oct-10	263.66 / 865.00	259.81	2.090
11-Oct-10	263.66 / 865.00	259.81	5.814
12-Oct-10	263.66 / 865.00	259.81	6.000
13-Oct-10	263.66 / 865.00	259.81	5.814
14-Oct-10	263.66 / 865.00	259.81	2.090
15-Oct-10	263.66 / 865.00	259.80	2.080
16-Oct-10	263.66 / 865.00	259.80	NA
17-Oct-10	263.66 / 865.00	NA	NA
18-Oct-10	263.66 / 865.00	259.84	NA
19-Oct-10	263.66 / 865.00	259.86	5.805
20-Oct-10	263.66 / 865.00	259.87	5.808
21-Oct-10	263.66 / 865.00	259.89	5.855
22-Oct-10	263.66 / 865.00	259.92	NA
23-Oct-10	263.66 / 865.00	260.10	NA
24-Oct-10	263.66 / 865.00	NA	NA
25-Oct-10	263.66 / 865.00	260.25	5.855
26-Oct-10	263.66 / 865.00	260.27	5.860

TILPARA BARRAGE			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M./FT	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
1-Jun-10	62.79 / 206.00	N.A.	NIL
2-Jun-10	62.79 / 206.00	N.A.	N.A.
3-Jun-10	62.79 / 206.00	61.966	N.A.
4-Jun-10	62.79 / 206.00	61.991	N.A.
5-Jun-10	62.79 / 206.00	61.966	N.A.
6-Jun-10	62.79 / 206.00	61.996	NIL
7-Jun-10	62.79 / 206.00	61.966	NIL
8-Jun-10	62.79 / 206.00	61.905	NIL
9-Jun-10	62.79 / 206.00	61.874	N.A.
10-Jun-10	62.79 / 206.00	61.935	N.A.
11-Jun-10	62.79 / 206.00	61.966	N.A.
12-Jun-10	62.79 / 206.00	N.A.	N.A.
13-Jun-10	62.79 / 206.00	N.A.	N.A.
14-Jun-10	62.79 / 206.00	61.965	NIL
15-Jun-10	62.79 / 206.00	61.966	N.A.
16-Jun-10	62.79 / 206.00	61.935	N.A.
17-Jun-10	62.79 / 206.00	61.905	N.A.
18-Jun-10	62.79 / 206.00	61.905	N.A.
19-Jun-10	62.79 / 206.00	61.905	NIL
20-Jun-10	62.79 / 206.00	61.874	NIL
21-Jun-10	62.79 / 206.00	61.874	N.A.
22-Jun-10	62.79 / 206.00	61.996	NIL
23-Jun-10	62.79 / 206.00	62.027	NIL
24-Jun-10	62.79 / 206.00	62.088	N.A.
25-Jun-10	62.79 / 206.00	61.631	NIL
26-Jun-10	62.79 / 206.00	59.985	N.A.
27-Jun-10	62.79 / 206.00	59.436	NIL
28-Jun-10	62.79 / 206.00	59.009	N.A.
29-Jun-10	62.79 / 206.00	58.522	N.A.
30-Jun-10	62.79 / 206.00	58.064	N.A.
1-Jul-10	62.79 / 206.00	58.064	N.A.
2-Jul-10	62.79 / 206.00	58.064	N.A.
3-Jul-10	62.79 / 206.00	58.064	N.A.
4-Jul-10	62.79 / 206.00	58.064	N.A.
5-Jul-10	62.79 / 206.00		
6-Jul-10	62.79 / 206.00	58.064	NIL.
7-Jul-10	62.79 / 206.00	58.064	NIL.
8-Jul-10	62.79 / 206.00	58.064	NIL.
9-Jul-10	62.79 / 206.00	58.064	N.A.
10-Jul-10	62.79 / 206.0	58.064	NIL.
11-Jul-10	62.79 / 206.00	N.A	N.A.
12-Jul-10	62.79 / 206.00	58.064	N.A.
13-Jul-10	62.79 / 206.00	58.064	N.A.
14-Jul-10	62.79 / 206.0	60.96	NIL.
15-Jul-10	62.79 / 206.00		
16-Jul-10	62.79 / 206.00	58.064	N.A.
17-Jul-10	62.79 / 206.00	58.064	N.A.
18-Jul-10	62.79 / 206.00	59.741	N.A.
19-Jul-10	62.79 / 206.00	60.107	NIL
20-Jul-10	62.79 / 206.00	60.32	NIL.
21-Jul-10	62.79 / 206.00	50.594	NIL.
22-Jul-10	62.79 / 206.00	60.96	NIL.
23-Jul-10	62.79 / 206.00	61.112	NIL.
24-Jul-10	62.79 / 206.00	61.265	NIL
25-Jul-10	62.79 / 206.00	61.356	N.A.
26-Jul-10	62.79 / 206.00	61.417	NIL.
27-Jul-10	62.79 / 206.00	61.570	NIL.

TILPARA BARRAGE			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M./ FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
28-Jul-10	62.79 / 206.00	61.783	NIL
29-Jul-10	62.79 / 206.00	62.088	NIL
30-Jul-10	62.79 / 206.00	62.179	8.862
31-Jul-10	62.79 / 206.01	61.691	28.309
1-Aug-10	62.79 / 206.02	61.631	NIL
2-Aug-10	62.79 / 206.00	62.301	5.668
3-Aug-10	62.79 / 206.00	62.667	38.640
4-Aug-10	62.79 / 206.00	61.935	N.A.
5-Aug-10	62.79 / 206.00	61.204	N.A.
6-Aug-10	62.79 / 206.00	61.509	2.836
7-Aug-10	62.79 / 206.00	62.057	56.625
8-Aug-10	62.79 / 206.00	62.728	N.A.
9-Aug-10	62.79 / 206.00	62.636	120.149
10-Aug-10	62.79 / 206.00	62.545	124.718
11-Aug-10	62.79 / 206.00	62.393	96.538
12-Aug-10	62.79 / 206.00	62.423	65.229
13-Aug-10	62.79 / 206.00	62.149	54.199
14-Aug-10	62.79 / 206.00	61.905	NIL
15/08/2010	62.79 / 206.00	61.570	N.A
16-Aug-10	62.79 / 206.00	68.144	1.182
17-Aug-10	62.79 / 206.00	62.027	NIL
18-Aug-10	62.79 / 206.00	62.179	NIL
19-Aug-10	62.79 / 206.00	62.301	NIL
20-Aug-10	62.79 / 206.00	62.393	NIL
21-Aug-10	62.79 / 206.00	62.636	NIL
22-Aug-10	62.79 / 206.00	62.789	24.450
23-Aug-10	62.79 / 206.00	62.545	27.414
24-Aug-10	62.79 / 206.00	61.844	43.254
25-Aug-10	62.79 / 206.00	62.118	11.322
26-Aug-10	62.79 / 206.00	62.423	151.941
27-Aug-10	62.79 / 206.00	61.844	68.886
28-Aug-10	62.79 / 206.00	61.722	28.358
29-Aug-10	62.79 / 206.00	61.570	23.4
30-Aug-10	62.79 / 206.00	61.570	12.755
31-Aug-10	62.79 / 206.00	61.843	0.945
1-Sep-10	62.79 / 206.00	61.843	NIL
2-Sep-10	62.79 / 206.00	62.179	NIL
3-Sep-10	62.79 / 206.00	62.301	0.000
4-Sep-10	62.79 / 206.00	NA	NA
5-Sep-10	62.79 / 206.00	62.423	NIL
6-Sep-10	62.79 / 206.00	N.A.	N.A
7-Sep-10	62.79 / 206.00	62.514	NIL
8-Sep-10	62.79 / 206.00	62.575	NIL
9-Sep-10	62.79 / 206.00	62.974	NIL
10-Sep-10	62.79 / 206.00	62.393	20.088
11-Sep-10	62.79 / 206.00	61.874	NIL
12-Sep-10	62.79 / 206.00	62.027	NA
13-Sep-10	62.79 / 206.00	62.301	NIL
14-Sep-10	62.79 / 206.00	62.789	1.182
15-Sep-10	62.79 / 206.00	62.484	50.809
16-Sep-10	62.79 / 206.00	62.149	56.718
17-Sep-10	62.79 / 206.00	61.935	45.855
18-Sep-10	62.79 / 206.00	61.935	45.855
19-Sep-10	62.79 / 206.00	62.636	NIL
20-Sep-10	62.79 / 206.00	62.606	54.355
21-Sep-10	62.79 / 206.00	62.271	56.718
22-Sep-10	62.79 / 206.00	61.966	51.636

TILPARA BARRAGE			
6:00 A.M			
Date	CONSERVAT ON/ POND LEVEL LEVE_ IN M./F	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
23-Sep-10	62.79 / 206.00	62.788	70.449
24-Sep-10	62.79 / 206.00	62.301	91.439
25-Sep-10	62.79 / 206.00	61.844	62.63
26-Sep-10	62.79 / 206.00	61.752	25.68
27-Sep-10	62.79 / 206.00	62.088	17.014
28-Sep-10	62.79 / 206.00	62.514	NIL
29-Sep-10	62.79 / 206.00	62.728	NIL
30-Sep-10	62.79 / 206.00	62.545	9.526
1-Oct-10	62.79 / 206.00	62.210	28.313
2-Oct-10	62.79 / 206.00	61.844	N.A.
3-Oct-10	62.79 / 206.00	61.692	112.15 HM
4-Oct-10	62.79 / 206.00	61.184	NIL
5-Oct-10	62.79 / 206.00	61.935	NIL
6-Oct-10	62.79 / 206.00	62.057	NIL
7-Oct-10	62.79 / 206.00	62.789	4.200
8-Oct-10	62.79 / 206.00	62.453	56.718
9-Oct-10	62.79 / 206.00	61.57	NIL
10-Oct-10	62.79 / 206.00	62.21	NA
11-Oct-10	62.79 / 206.00	62.514	NIL
12-Oct-10	62.79 / 206.00	62.758	NIL
13-Oct-10	62.79 / 206.00	62.362	58.49
14-Oct-10	62.79 / 206.00	61.631	22.6
15-Oct-10	62.79 / 206.00	62.149	NA
16-Oct-10	62.79 / 206.00	62.484	NA
17-Oct-10	62.79 / 206.00	NA	NA
18-Oct-10	62.79 / 206.00	62.728	NA
19-Oct-10	62.79 / 206.00	62.301	NA
20-Oct-10	62.79 / 206.00	61.509	NA
21-Oct-10	62.79 / 206.00	61.509	NA
22-Oct-10	62.79 / 206.00	61.996	NA
23-Oct-10	62.79 / 206.00	62.393	NA
24-Oct-10	62.79 / 206.00	NA	NA
25-Oct-10	62.79 / 206.00	62.789	NA
26-Oct-10	62.79 / 206.00	62.789	NA

MASSANJORE DAM			
6.00 A.M			
DATE	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
	3	4	6
1-Jun-10	121.34 / 398.00	110.581	NIL
2-Jun-10	121.34 / 398.00	110.597	NIL
3-Jun-10	121.34 / 398.00	110.597	N.A
4-Jun-10	121.34 / 398.00	110.581	N.A.
5-Jun-10	121.34 / 398.00	110.581	N.A.
6-Jun-10	121.34 / 398.00	110.58	NIL
7-Jun-10	121.34 / 398.00	110.581	NIL
8-Jun-10	121.34 / 398.00	110.581	NIL
9-Jun-10	121.34 / 398.00	110.627	NIL
10-Jun-10	121.34 / 398.00	110.688	NIL
11-Jun-10	121.34 / 398.00	110.673	NIL
12-Jun-10	121.34 / 398.00	110.672	NIL
13-Jun-10	121.34 / 398.00	110.658	NIL
14-Jun-10	121.34 / 398.00	110.658	NIL
15-Jun-10	121.34 / 398.00	110.658	NIL
16-Jun-10	121.34 / 398.00	110.658	N.A.
17-Jun-10	121.34 / 398.00	110.673	NIL
18-Jun-10	121.34 398.00	110.688	N.A.
19-Jun-10	121.34 398.00	110.688	NIL
20-Jun-10	121.34 398.00	110.688	NIL
21-Jun-10	121.34 398.00	110.688	NIL
22-Jun-10	121.34 398.00	110.688	NIL
23-Jun-10	121.34 398.00	110.719	NIL
24-Jun-10	121.34 398.00	110.734	N.A.
25-Jun-10	121.34 398.00	110.749	NIL
26-Jun-10	121.34 398.00	110.779	N.A.
27-Jun-10	121.34 398.00	110.795	N.A.
28-Jun-10	121.34 398.00	110.871	NIL
29-Jun-10	121.34 398.00	111.023	N.A.
30-Jun-10	121.34 398.00	111.13	NIL
1-Jul-10	121.34 / 398.00	111.176	N.A.
2-Jul-10	121.34 / 398.00	111.206	NIL.
3-Jul-10	121.34 / 398.00	111.237	NIL.
4-Jul-10	121.34 / 398.00	111.252	N.A.
5-Jul-10	121.34 / 398.00	N.A.	N.A.
6-Jul-10	121.34 / 398.00	111.282	N.A.
7-Jul-10	121.34 / 398.00	111.282	NIL.
8-Jul-10	121.34 / 398.00	111.282	N.A.
9-Jul-10	121.34 / 398.00	111.282	NIL
10-Jul-10	121.34 / 398.0	111.282	NA
11-Jul-10	121.34 / 398.00	NA	NA
12-Jul-10	121.34 / 398.00	111.298	N.A.
13-Jul-10	121.34 / 398.00	111.709	NIL.
14-Jul-10	121.34 / 398.0	112.105	N.A.
15-Jul-10	121.34 / 398.00		
16-Jul-10	121.34 / 398.00	112.288	NIL.
17-Jul-10	121.34 / 398.00	112.304	N.A.
18-Jul-10	121.34 / 398.00	112.319	N.A.
19-Jul-10	121.34 / 398.00	112.319	NIL.
20-Jul-10	121.34 / 398.00	N.A.	N.A
21-Jul-10	121.34 / 398.00	112.448	NIL.
22-Jul-10	121.34 / 398.00	112.471	NIL.
23-Jul-10	121.34 / 398.00	112.486	NIL.
24-Jul-10	121.34 / 398.0	112.501	NIL
25-Jul-10	121.34 / 398.00	112.502	N.A.
26-Jul-10	121.34 / 398.00	112.501	NIL.
27-Jul-10	121.34 / 398.00	112.501	NIL.

MASSANJORE DAM			
6:00 A.M			
DATE	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	3	4	5
28-Jul-10	121.34 / 398.00	112.516	NIL.
29-Jul-10	121.34 / 398.00	112.547	NIL.
30-Jul-10	121.34 / 398.00	112.563	NIL.
31-Jul-10	121.34 / 398.0	112.608	NIL.
1-Aug-10	121.34 / 398.0	112.715	NIL.
2-Aug-10	121.34 / 398.00	113.020	NIL.
3-Aug-10	121.34 / 398.00	113.233	NIL.
4-Aug-10	121.34 / 398.00	113.325	32.607
5-Aug-10	121.34 / 398.00	113.371	18.432
6-Aug-10	121.34 / 398.00	113.386	NIL.
7-Aug-10	121.34 / 398.00	113.264	84.655
8-Aug-10	121.34 / 398.00	112.804	N.A.
9-Aug-10	121.34 / 398.00	112.38	N.A.
10-Aug-10	121.34 / 398.00	111.923	N.A.
11-Aug-10	121.34 / 398.00	111.556	N.A.
12-Aug-10	121.34 / 398.00	111.374	72.516
13-Aug-10	121.34 / 398.00	111.252	49.715
14-Aug-10	121.34 / 398.00	111.252	N.A.
15-Aug-10	121.34 / 398.00	N.A.	N.A.
16-Aug-10	121.34 / 398.00	111.282	NIL.
17-Aug-10	121.34 / 398.00	111.282	NIL.
18-Aug-10	121.34 / 398.00	111.282	NIL.
19-Aug-10	121.34 / 398.00	111.282	NIL.
20-Aug-10	121.34 / 398.00	111.328	NIL
21-Aug-10	121.34 / 398.00	111.374	4.25
22-Aug-10	121.34 / 398.00	111.42	NIL
23-Aug-10	121.34 / 398.00	111.496	NIL.
24-Aug-10	121.34 / 398.00	111.603	N.A.
25-Aug-10	121.34 / 398.00	111.877	NIL.
26-Aug-10	121.34 / 398.00	112.258	NIL.
27-Aug-10	121.34 / 398.00	112.395	NIL.
28-Aug-10	121.34 / 398.00	112.471	NIL.
29-Aug-10	121.34 / 398.00	112.501	NIL.
30-Aug-10	121.34 / 398.00	112.532	NIL.
31-Aug-10	121.34 / 398.00	112.532	NIL.
1-Sep-10	121.34 / 398.00	112.532	NIL.
2-Sep-10	121.34 / 398.00	112.563	NIL
3-Sep-10	121.34 / 398.00	112.563	0.000
4-Sep-10	121.34 / 398.00	112.547	NIL
5-Sep-10	121.34 / 398.00	112.532	NIL
6-Sep-10	121.34 / 398.00	112.547	NIL
7-Sep-10	121.34 / 398.00	112.547	NIL
8-Sep-10	121.34 / 398.00	112.532	NIL
9-Sep-10	121.34 / 398.00	112.578	NIL
10-Sep-10	121.34 / 398.00	112.593	NIL
11-Sep-10	121.34 / 398.00	N.A.	N.A.
12-Sep-10	121.34 / 398.00	112.746	NA
13-Sep-10	121.34 / 398.00	112.882	NIL
14-Sep-10	121.34 / 398.00	112.974	NIL
15-Sep-10	121.34 / 398.00	113.081	NIL
16-Sep-10	121.34 / 398.00	113.203	NIL
17-Sep-10	121.34 / 398.00	113.103	NIL
18-Sep-10	121.34 / 398.00	113.103	NIL
19-Sep-10	121.34 / 398.00	113.797	N.A.
20-Sep-10	121.34 / 398.00	113.965	NIL
21-Sep-10	121.34 / 398.00	114.117	NIL
22-Sep-10	121.34 / 398.00	114.254	NIL

MASSANJORE DAM			
6:00 A.M			
DATE	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	3	4	6
23-Sep-10	121.34 / 398.00	114.422	NIL
24-Sep-10	121.34 / 398.00	114.559	NIL
25-Sep-10	121.34 / 398.00	114.651	NIL
26-Sep-10	121.34 / 398.00	114.772	4.281
27-Sep-10	121.34 / 398.00	114.894	NIL
28-Sep-10	121.34 / 398.00	114.940	NIL
29-Sep-10	121.34 / 398.00	114.971	NIL
30-Sep-10	121.34 / 398.00	114.986	NIL
1-Oct-10	121.34 / 398.00	115.001	NIL
2-Oct-10	121.34 / 398.00	115.001	N.A.
3-Oct-10	121.34 / 398.00	115.016	N.A.
4-Oct-10	121.34 / 398.00	115.032	NIL
5-Oct-10	121.34 / 398.00	115.470	NIL
6-Oct-10	121.34 / 398.00	115.199	NIL
7-Oct-10	121.34 / 398.00	115.291	NIL
8-Oct-10	121.34 / 398.00	115.367	NIL
9-Oct-10	121.34 / 398.00	115.397	4.96
10-Oct-10	121.34 / 398.00	115.397	NA
11-Oct-10	121.34 / 398.00	115.413	NIL
12-Oct-10	121.34 / 398.00	115.428	NIL
13-Oct-10	121.34 / 398.00	115.443	NIL
14-Oct-10	121.34 / 398.00	115.458	NA
15-Oct-10	121.34 / 398.00	NA	NA
16-Oct-10	121.34 / 398.00	115.473	NA
17-Oct-10	121.34 / 398.00	NA	NA
18-Oct-10	121.34 / 398.00	115.504	NA
19-Oct-10	121.34 / 398.00	115.519	NA
20-Oct-10	121.34 / 398.00	115.534	NA
21-Oct-10	121.34 / 398.00	115.534	NIL
22-Oct-10	121.34 / 398.00	115.534	NA
23-Oct-10	121.34 / 398.00	115.428	NA
24-Oct-10	121.34 / 398.00	NA	NA
25 Oct-10	121.34 / 398.00	114.803	NA
26 Oct-10	121.34 / 398.00	114.498	NA

MAITHON DAM			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
1-Jun-10	146.31 / 480.0(	N.A.	N.A.
2-Jun-10	146.31 / 480.0(	N.A.	N.A.
3-Jun-10	146.31 / 480.0(	136.71	111.6
4-Jun-10	146.31 / 480.0(	136.74	N.A.
5-Jun-10	146.31 / 480.0(	136.76	111.3
6-Jun-10	146.31 / 480.0(	N.A.	N.A.
7-Jun-10	146.31 / 480.0(	136.42	13.11
8-Jun-10	146.31 / 480.0(	N.A.	N.A.
9-Jun-10	146.31 / 480.0(	136.42	N.A.
10-Jun-10	146.31 / 480.0(	136.2	N.A.
11-Jun-10	146.31 / 480.0(	136.23	N.A.
12-Jun-10	146.31 / 480.0(	N.A.	N.A.
13-Jun-10	146.31 / 480.0(	N.A.	N.A.
14-Jun-10	146.31 / 480.0(	N.A.	N.A.
15-Jun-10	146.31 / 480.0(	N.A.	N.A.
16-Jun-10	146.31 / 480.0(	N.A.	N.A.
17-Jun-10	146.31 / 480.0(	N.A.	N.A.
18-Jun-10	146.31 / 480.0(	N.A.	N.A.
19-Jun-10	146.31 / 480.0(	N.A.	N.A.
20-Jun-10	146.31 / 480.0(	N.A.	N.A.
21-Jun-10	146.31 / 480.0(	N.A.	N.A.
22-Jun-10	146.31 / 480.0(	N.A.	N.A.
23-Jun-10	146.31 / 480.0(	N.A.	N.A.
24-Jun-10	146.31 / 480.0(	N.A.	N.A.
25-Jun-10	146.31 / 480.0(	N.A.	N.A.
26-Jun-10	146.31 / 480.0(	N.A.	N.A.
27-Jun-10	146.31 / 480.0(	N.A.	N.A.
28-Jun-10	146.31 / 480.0(	N.A.	N.A.
29-Jun-10	146.31 / 480.0(	N.A.	N.A.
30-Jun-10	146.31 / 480.0(	N.A.	N.A.
1-Jul-10	146.31 / 480.0(	136.69	N.A.
2-Jul-10	146.31 / 480.0(	N.A.	N.A.
3-Jul-10	146.31 / 480.0(	136.46	58.221
4-Jul-10	146.31 / 480.0(	136.45	NIL.
5-Jul-10	146.31 / 480.0(	N.A.	N.A.
6-Jul-10	146.31 / 480.0(	N.A.	N.A.
7-Jul-10	146.31 / 480.0(	N.A.	N.A.
8-Jul-10	146.31 / 480.0(	N.A.	N.A.
9-Jul-10	146.31 / 480.0(	N.A.	N.A.
10-Jul-10	146.31 / 480.0(	N.A.	N.A.
11-Jul-10	146.31 / 480.0(	N.A.	N.A.
12-Jul-10	146.31 / 480.0(	N.A.	N.A.
13-Jul-10	146.31 / 480.0(	136.02	47.519
14-Jul-10	146.31 / 480.0(	NA	NA
15-Jul-10	146.31 / 480.0(	NA	NA
16-Jul-10	146.31 / 480.0(	137.00	33.611
17-Jul-10	146.31 / 480.0(	137.22	NIL.
18-Jul-10	146.31 / 480.0(	N.A.	N.A.
19-Jul-10	146.31 / 480.0(	N.A.	N.A.
20-Jul-10	146.31 / 480.0(	N.A.	N.A.
21-Jul-10	146.31 / 480.00	137.52	14.256
22-Jul-10	146.31 / 480.00	137.67	14.719
23-Jul-10	146.31 / 480.00	N.A.	N.A.
24-Jul-10	146.31 / 480.00	NA	NA
25-Jul-10	146.31 / 480.00	137.69	43.230
26-Jul-10	146.31 / 480.00	137.87	N.A.
27-Jul-10	146.31 / 480.00	137.970	51.576

MAITHON DAM			
6.00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
28-Jul-10	146.31 / 480.00	138.180	37.088
29-Jul-10	146.31 / 480.00	138.620	14.372
30-Jul-10	146.31 / 480.00	138.990	14.372
31-Jul-10	146.31 / 480.01	N.A.	N.A.
1-Aug-10	146.31 / 480.02	139.2	24.34
2-Aug-10	146.31 / 480.00	139.700	10.431
3-Aug-10	146.31 / 480.00	140.100	7.070
4-Aug-10	146.31 / 480.00	140.230	7.186
5-Aug-10	146.31 / 480.00	140.400	7.534
6-Aug-10	146.31 / 480.00	N.A.	N.A.
7-Aug-10	146.31 / 480.00	140.440	42.999
8-Aug-10	146.31 / 480.00	N.A.	N.A.
9-Aug-10	146.31 / 480.00	N.A.	N.A.
10-Aug-10	146.31 / 480.00	N.A.	N.A.
11-Aug-10	146.31 / 480.00	140.110	75.335
12-Aug-10	146.31 / 480.00	140.280	18.776
13-Aug-10	146.31 / 480.00	140.500	18.544
14-Aug-10	146.31 / 480.00	141.070	217.544
15/08/2010	146.31 / 480.00	N.A	N.A.
16-Aug-10	146.31 / 480.00	N.A.	N.A.
17-Aug-10	146.31 / 480.00	141.090	88.316
18-Aug-10	146.31 / 480.00	141.060	91.445
19-Aug-10	146.31 / 480.00	140.970	77.305
20-Aug-10	146.31 / 480.00	140.890	51.920
21-Aug-10	146.31 / 480.00	140.990	14.256
22-Aug-10	146.31 / 480.00	141.250	NIL
23-Aug-10	146.31 / 480.00	141.360	7.300
24-Aug-10	146.31 / 480.00	141.700	8.739
25-Aug-10	146.31 / 480.00	142.040	7.186
26-Aug-10	146.31 / 480.00	142.270	8.345
27-Aug-10	146.31 / 480.00	142.670	19.239
28-Aug-10	146.31 / 480.00	142.970	7.534
29-Aug-10	146.31 / 480.00	143.050	62.470
30-Aug-10	146.31 / 480.00	142.860	64.788
31-Aug-10	146.31 / 480.00	142.660	68.265
1-Sep-10	146.31 / 480.00	143.420	0.000
2-Sep-10	146.31 / 480.00	N.A.	N.A.
3-Sep-10	146.31 / 480.00	142.400	80.319
4-Sep-10	146.31 / 480.00	142.430	60.616
5-Sep-10	146.31 / 480.00	142.430	0.000
6-Sep-10	146.31 / 480.00	143.130	0.000
7-Sep-10	146.31 / 480.00	143.150	N.A.
8-Sep-10	146.31 / 480.00	N.A.	N.A.
9-Sep-10	146.31 / 480.00	143.130	7.135
10-Sep-10	146.31 / 480.00	143.040	7.823
11-Sep-10	146.31 / 480.00	143.020	10.199
12-Sep-10	146.31 / 480.00	NA	NA
13-Sep-10	146.31 / 480.00	NA	NA
14-Sep-10	146.31 / 480.00	143.400	7.200
15-Sep-10	146.31 / 480.00	143.580	7.069
16-Sep-10	146.31 / 480.00	143.640	54.357
17-Sep-10	146.31 / 480.00	143.190	45.780
18-Sep-10	146.31 / 480.00	144.430	7.186
19-Sep-10	146.31 / 480.00	144.430	7.186
20-Sep-10	146.31 / 480.00	144.550	NIL
21-Sep-10	146.31 / 480.00	144.720	NIL

MAITHON DAM			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
22-Sep-10	146.31 / 480.00	145.230	NIL
23-Sep-10	146.31 / 480.00	145.430	NIL
24-Sep-10	146.31 / 480.00	NA	NA
25-Sep-10	146.31 / 480.00	NA	NA
26-Sep-10	146.31 / 480.00	NA	NA
27-Sep-10	146.31 / 480.00	145.760	NIL
28-Sep-10	146.31 / 480.00	146.650	41.839
29-Sep-10	146.31 / 480.00	146.660	8.113
30-Sep-10	146.31 / 480.00	146.630	8.113
1-Oct-10	146.31 / 480.00	146.490	69.424
2-Oct-10	146.31 / 480.00	146.460	66.874
3-Oct-10	146.31 / 480.00	146.500	N.A.
4-Oct-10	146.31 / 480.00	NA	NA
5-Oct-10	146.31 / 480.00	145.310	62.238
6-Oct-10	146.31 / 480.00	144.790	62.818
7-Oct-10	146.31 / 480.00	146.300	60.616
8-Oct-10	146.31 / 480.00	146.240	NA
9-Oct-10	146.31 / 480.00	146.200	101.528
10-Oct-10	146.31 / 480.00	46.08	NIL
11-Oct-10	146.31 / 480.00	146.1	NA
12-Oct-10	146.31 / 480.00	146.120	14.719
13-Oct-10	146.31 / 480.00	146.120	14.000
14-Oct-10	146.31 / 480.00	145.51	14.372
15-Oct-10	146.31 / 480.00	NA	NA
16-Oct-10	146.31 / 480.00	NA	NA
17-Oct-10	146.31 / 480.00	NA	NA
18-Oct-10	146.31 / 480.00	NA	NA
19-Oct-10	146.31 / 480.00	NA	NA
20-Oct-10	146.31 / 480.00	NA	NA
21-Oct-10	146.31 / 480.00	146.22	91.677
22-Oct-10	146.31 / 480.00	146.12	91.213
23-Oct-10	146.31 / 480.00	146.16	91.909
24-Oct-10	146.31 / 480.00	NA	NA
25-Oct-10	146.31 / 480.00	NA	NA
26-Oct-10	146.31 / 480.00	146.09	81.478

DURGAPUR BARRAGE			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M /FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	
1-Jun-10	64.46 / 211 .50	N.A.	30.444
2-Jun-10	64.46 / 211 .50	N.A.	N.A.
3-Jun-10	64.46 / 211 .50	64.465	336.441
4-Jun-10	64.46 / 211 .50	64.465	30.444
5-Jun-10	64.46 / 211 .50	N.A.	30.44
6-Jun-10	64.46 / 211 .50	N.A.	30.444
7-Jun-10	64.46 / 211 .50	64.465	44.67
8-Jun-10	64.46 / 211 .50	N.A.	30.444
9-Jun-10	64.46 / 211 .50	64.465	NIL
10-Jun-10	64.46 / 211 .50	64.465	42.48
11-Jun-10	64.46 / 211 .50	64.465	32.302
12-Jun-10	64.46 / 211 .50	N.A.	N.A.
13-Jun-10	64.46 / 211 .50	N.A.	N.A.
14-Jun-10	64.46 / 211 .50	64.465	30.444
15-Jun-10	64.46 / 211 .50	64.465	1.416
16-Jun-10	64.46 / 211 .50	64.465	30.444
17-Jun-10	64.46 / 211 .50	64.465	30.444
18-Jun-10	64.46 / 211 .50	64.465	30.444
19-Jun-10	64.46 / 211 .50	64.465	42.48
20-Jun-10	64.46 / 211 .50	64.465	37.58
21-Jun-10	64.46 / 211 .50	64.465	30.444
22-Jun-10	64.46 / 211 .50	64.465	30.444
23-Jun-10	64.46 / 211 .50	64.465	42.48
24-Jun-10	64.46 / 211 .50	64.465	60.888
25-Jun-10	64.46 / 211 .50	64.465	30.444
26-Jun-10	64.46 / 211 .50	64.465	44.604
27-Jun-10	64.46 / 211 .50	64.465	44.604
28-Jun-10	64.46 / 211 .50	64.465	42.48
29-Jun-10	64.46 / 211 .50	64.465	42.48
30-Jun-10	64.46 / 211 .50	64.465	91.332
1-Jul-10	64.46 / 211 .50	64.465	60.888
2-Jul-10	64.46 / 211 .50	64.465	60.888
3-Jul-10	64.46 / 211 .50	64.465	91.332
04-Jul-10	64.46 / 211 .50	64.465	75.048
05-Jul-10	64.46 / 211 .50	64.465	N.A
06-Jul-10	64.46 / 211 .50	64.465	60.888
07-Jul-10	64.46 / 211 .50	64.465	60.888
08-Jul-10	64.46 / 211 .50	64.465	56.64
09-Jul-10	64.46 / 211 .50	64.465	60.888
10-Jul-10	64.46 / 211 .5	64.465	44.604
11-Jul-10	64.46 / 211 .5	64.465	N.A
12-Jul-10	64.46 / 211 .50	64.465	60.888
13-Jul-10	64.46 / 211 .50	64.465	42.48
14-Jul-10	64.46 / 211 .5	64.465	12.776
15-Jul-10	64.46 / 211 .50		
16-Jul-10	64.46 / 211 .50	64.465	60.888
17-Jul-10	64.46 / 211 .50	64.465	75.048
18-Jul-10	64.46 / 211 .50	64.465	44.604
19-Jul-10	64.46 / 211 .50	64.465	30.444
20-Jul-10	64.46 / 211 .50	64.465	30.444
21-Jul-10	64.46 / 211 .50	64.465	30.444
22-Jul-10	64.46 / 211 .50	64.465	1.416
23-Jul-10	64.46 / 211 .50	64.465	1.416
24-Jul-10	64.46 / 211 .50	64.465	66.552
25-Jul-10	64.46 / 211 .50	64.465	66.552

DURGAPUR BARRAGE			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN MT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	
26-Jul-10	64.46 / 211.50	64.465	1.416
27-Jul-10	64.46 / 211.50	64.465	1.416
28-Jul-10	64.46 / 211.50	64.465	1.416
29-Jul-10	64.46 / 211.50	64.465	1.416
30-Jul-10	64.46 / 211.50	64.465	1.416
31-Jul-10	64.46 / 211.51	64.465	1.416
1-Aug-10	64.46 / 211.52	64.465	1.416
2-Aug-10	64.46 / 211.50	64.465	1.416
3-Aug-10	64.46 / 211.50	64.465	1.416
4-Aug-10	64.46 / 211.50	64.465	1.416
5-Aug-10	64.46 / 211.50	64.465	1.416
6-Aug-10	64.46 / 211.50	64.465	1.416
7-Aug-10	64.46 / 211.50	64.465	114.696
8-Aug-10	64.46 / 211.50	64.465	128.856
9-Aug-10	64.46 / 211.50	64.465	1.416
10-Aug-10	64.46 / 211.50	64.465	1.416
11-Aug-10	64.46 / 211.50	64.465	1.416
12-Aug-10	64.46 / 211.50	64.465	1.416
13-Aug-10	64.46 / 211.50	64.465	1.416
14-Aug-10	64.46 / 211.50	64.465	1.416
15/08/2010	64.46 / 211.50	64.465	1.416
16-Aug-10	64.46 / 211.50	64.465	1.416
17-Aug-10	64.46 / 211.50	64.465	1.416
18-Aug-10	64.46 / 211.50	64.465	1.416
19-Aug-10	64.46 / 211.50	64.465	1.416
20-Aug-10	64.46 / 211.50	64.465	1.416
21-Aug-10	64.46 / 211.50	64.465	65.136
22-Aug-10	64.46 / 211.50	64.465	50.976
23-Aug-10	64.46 / 211.50	64.465	1.416
24-Aug-10	64.46 / 211.50	64.465	1.416
25-Aug-10	64.46 / 211.50	64.465	1.416
26-Aug-10	64.46 / 211.50	64.465	1.416
27-Aug-10	64.46 / 211.50	64.465	1.416
28-Aug-10	64.46 / 211.50	64.465	1.416
29-Aug-10	64.46 / 211.50	64.465	1.416
30-Aug-10	64.46 / 211.50	64.465	1.416
31-Aug-10	64.46 / 211.50	64.465	1.416
1-Sep-10	64.46 / 211.50	64.465	1.416
2-Sep-10	64.46 / 211.50	64.465	1.416
3-Sep-10	64.46 / 211.50	64.465	1.416
4-Sep-10	64.46 / 211.50	64.465	N.A
5-Sep-10	64.46 / 211.50	64.465	1.416
6-Sep-10	64.46 / 211.50	64.465	N.A
8-Sep-10	64.46 / 211.50	64.465	1.416
9-Sep-10	64.46 / 211.50	64.465	1.416
10-Sep-10	64.46 / 211.50	64.465	1.416
11-Sep-10	64.46 / 211.50	64.465	26.196
12-Sep-10	64.46 / 211.50	64.465	31.860
7-Sep-10	64.46 / 211.50	64.465	1.416
2-Sep-10	64.46 / 211.50	64.465	1.416
13-Sep-10	64.46 / 211.50	64.465	1.416
14-Sep-10	64.46 / 211.50	64.465	60.888
15-Sep-10	64.46 / 211.50	64.465	1.416
16-Sep-10	64.46 / 211.50	64.465	243.553
17-Sep-10	64.46 / 211.50	64.465	91.332
19-Sep-10	64.46 / 211.50	64.465	76.464

DURGAPUR BARRAGE			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	
20-Sep-10	64.46 / 211 .50	64.465	1.416
21-Sep-10	64.46 / 211 .50	64.465	152.220
22-Sep-10	64.46 / 211 .50	64.465	182.664
23-Sep-10	64.46 / 211 .50	64.465	243.552
24-Sep-10	64.46 / 211 .50	64.465	91.332
27-Sep-10	64.46 / 211 .50	64.465	1.416
28-Sep-10	64.46 / 211 .50	64.465	1.416
29-Sep-10	64.46 / 211 .50	64.465	1.416
30-Sep-10	64.46 / 211 .50	64.465	1.416
1-Oct-10	64.46 / 211 .50	64.465	1.416
2-Oct-10	64.46 / 211 .50	64.465	199.656
3-Oct-10	64.46 / 211 .50	64.465	183.726
4-Oct-10	64.46 / 211 .50	64.465	1.416
5-Oct-10	64.46 / 211 .50	64.465	1.416
6-Oct-10	64.46 / 211 .50	64.465	1.416
7-Oct-10	64.46 / 211 .50	64.465	1.416
8-Oct-10	64.46 / 211 .50	64.465	1.416
9-Oct-10	64.46 / 211 .50	64.465	171.336
10-Oct-10	64.46 / 211 .50	64.465	114.696
11-Oct-10	64.46 / 211 .50	64.465	1.416
12-Oct-10	64.46 / 211 .50	64.465	1.116
13-Oct-10	64.46 / 211 .50	64.465	1.416
14-Oct-10	64.46 / 211 .50	64.465	36.816
15-Oct-10	64.46 / 211 .50	64.465	36.816
16-Oct-10	64.46 / 211 .50	64.465	36.816
17-Oct-10	64.46 / 211 .50	N.A	N.A
18-Oct-10	64.46 / 211 .50	64.465	36.816
19-Oct-10	64.46 / 211 .50	64.465	1.416
20-Oct-10	64.46 / 211 .50	64.465	1.416
21-Oct-10	64.46 / 211 .50	64.465	1.416
22-Oct-10	64.46 / 211 .50	64.465	164.256
23-Oct-10	64.46 / 211 .50	64.465	143.016
24-Oct-10	64.46 / 211 .50	NA	NA
25-Oct-10	64.46 / 211 .50	64.465	1.416
26-Oct-10	64.46 / 211 .50	64.465	199.930

KANGSABATI DAM			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M /FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	3	4	6
1-Jun-10	134.11 / 440.00	N.A.	N.A.
2-Jun-10	134.11 / 440.00	N.A.	N.A.
3-Jun-10	134.11 / 440.00	121.8	N.A.
4-Jun-10	134.11 / 440.00	121.8	N.A.
5-Jun-10	134.11 / 440.00	121.8	N.A.
6-Jun-10	134.11 / 440.00	N.A.	N.A.
7-Jun-10	134.11 / 440.00	121.8	NIL
8-Jun-10	134.11 / 440.00	121.8	N.A.
9-Jun-10	134.11 / 440.00	121.8	N.A.
10-Jun-10	134.11 / 440.00	121.8	N.A.
11-Jun-10	134.11 / 440.00	121.8	N.A.
12-Jun-10	134.11 / 440.00	N.A.	N.A.
13-Jun-10	134.11 / 440.00	N.A.	N.A.
14-Jun-10	134.11 / 440.00	121.8	N.A.
15-Jun-10	134.11 / 440.00	121.8	N.A.
16-Jun-10	134.11 / 440.00	121.8	N.A.
17-Jun-10	134.11 / 440.00	121.8	N.A.
18-Jun-10	134.11 / 440.00	121.8	N.A.
19-Jun-10	134.11 / 440.00	121.83	N.A.
20-Jun-10	134.11 / 440.00	121.83	NIL
21-Jun-10	134.11 / 440.00	121.86	N.A.
22-Jun-10	134.11 / 440.00	121.86	N.A.
23-Jun-10	134.11 / 440.00	121.89	NIL
24-Jun-10	134.11 / 440.00	121.89	NIL
25-Jun-10	134.11 / 440.00	121.89	NIL
26-Jun-10	134.11 / 440.00	121.89	NIL
27-Jun-10	134.11 / 440.00	121.9	N.A.
28-Jun-10	134.11 / 440.00	121.9	NIL
29-Jun-10	134.11 / 440.00	121.9	NIL
30-Jun-10	134.11 / 440.00	121.92	NIL
1-Jul-10	134.11 / 440.00	121.92	N.A.
2-Jul-10	134.11 / 440.00	121.92	NIL.
3-Jul-10	134.11 / 440.00	121.92	NIL.
4-Jul-10	134.11 / 440.00	121.92	NIL.
		N.A.	N.A.
6-Jul-10	134.11 / 440.00	121.92	NIL.
7-Jul-10	134.11 / 440.00	121.92	NIL.
8-Jul-10	134.11 / 440.00	121.92	NIL.
9-Jul-10	134.11 / 440.00	121.92	NIL.
			NIL.
		N.A.	N.A.
12-Jul-10	134.11 / 440.00	121.930	NIL
13-Jul-10	134.11 / 440.00	121.95	NIL.
			NIL.
15-Jul-10	134.11 / 440.00		
16-Jul-10	134.11 / 440.00	121.95	NIL.
17-Jul-10	134.11 / 440.00	121.95	NIL.
18-Jul-10	134.11 / 440.00	121.95	NIL.
19-Jul-10	134.11 / 440.00	121.95	NIL.
20-Jul-10	134.11 / 440.00	121.95	NIL.
21-Jul-10	134.11 / 440.00	121.95	NIL.
22-Jul-10	134.11 / 440.00	121.95	NIL.
23-Jul-10	134.11 / 440.00	121.95	NIL.
25-Jul-10	134.11 / 440.00	121.95	NIL.
26-Jul-10	134.11 / 440.00	121.95	NIL.
27-Jul-10	134.11 / 440.00	122.04	NIL.

KANGSABATI DAM			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M /FT	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	3	4	6
28-Jul-10	134.11 / 440.00	122.10	NIL.
29-Jul-10	134.11 / 440.00	122.120	NIL.
30-Jul-10	134.11 / 440.00	122.120	NIL.
			NIL
			NIL
2-Aug-10	134.11 / 440.00	122.210	NIL.
3-Aug-10	134.11 / 440.00	122.290	NIL.
4-Aug-10	134.11 / 440.00	122.330	NIL.
5-Aug-10	134.11 / 440.00	122.380	NIL.
6-Aug-10	134.11 / 440.00	122.440	NIL.
7-Aug-10	134.11 / 440.00	122.510	N.A.
8-Aug-10	134.11 / 440.00	122.570	NIL.
9-Aug-10	134.11 / 440.00	122.620	NIL.
10-Aug-10	134.11 / 440.00	122.650	NIL.
11-Aug-10	134.11 / 440.00	122.680	NIL.
12-Aug-10	134.11 / 440.00	122.680	NIL.
13-Aug-10	134.11 / 440.00	122.700	NIL.
14-Aug-10	134.11 / 440.00	122.800	NIL.
15-Aug-10	134.11 / 440.00	122.850	NIL.
16-Aug-10	134.11 / 440.00	122.850	NIL.
17-Aug-10	134.11 / 440.00	122.900	NIL.
18-Aug-10	134.11 / 440.00	122.960	NIL.
19-Aug-10	134.11 / 440.00	122.960	NIL.
20-Aug-10	134.11 / 440.00	122.970	NIL.
21-Aug-10	134.11 / 440.00	123.000	NIL.
22-Aug-10	134.11 / 440.00	123.170	NIL.
23-Aug-10	134.11 / 440.00	123.230	NIL.
24-Aug-10	134.11 / 440.00	123.260	NIL.
25-Aug-10	134.11 / 440.00	123.430	NIL.
26-Aug-10	134.11 / 440.00	123.570	NIL.
27-Aug-10	134.11 / 440.00	123.640	NIL.
28-Aug-10	134.11 / 440.00	123.690	NIL.
29-Aug-10	134.11 / 440.00	123.730	NIL.
30-Aug-10	134.11 / 440.00	123.780	NIL.
31-Aug-10	134.11 / 440.00	123.820	NIL.
1-Sep-10	134.11 / 440.00	123.850	NIL.
2-Sep-10	134.11 / 440.00	123.900	NIL
3-Sep-10	134.11 / 440.00	123.930	NIL
4-Sep-10	134.11 / 440.00	123.930	NIL
5-Sep-10	134.11 / 440.00	123.930	NIL
6-Sep-10	134.11 / 440.00	123.930	NIL
7-Sep-10	134.11 / 440.00	124.010	NIL
8-Sep-10	134.11 / 440.00	124.050	NIL
9-Sep-10	134.11 / 440.00	124.110	NIL
10-Sep-10	134.11 / 440.00		
13-Sep-10	134.11 / 440.00	124.220	NIL
14-Sep-10	134.11 / 440.00	124.240	NIL
15-Sep-10	134.11 / 440.00	124.250	NIL
16-Sep-10	134.11 / 440.00	124.340	NIL
17-Sep-10	134.11 / 440.00	124.400	NIL
18-Sep-10	134.11 / 440.00	124.400	NIL
19-Sep-10	134.11 / 440.00	124.570	NIL
20-Sep-10	134.11 / 440.00	124.660	NIL
21-Sep-10	134.11 / 440.00	124.770	NIL

KANGSABATI DAM			
6:00 A.M			
Date	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	3	4	6
22-Sep-10	134.11 / 440.00	124.940	NIL
23-Sep-10	134.11 / 440.00	125.030	NIL
24-Sep-10	134.11 / 440.00	125.100	NIL
25-Sep-10	134.11 / 440.00	125.200	N.A.
26-Sep-10	134.11 / 440.00	125.270	N.A.
27-Sep-10	134.11 / 440.00	125.330	NIL
28-Sep-10	134.11 / 440.00	125.360	NIL
29-Sep-10	134.11 / 440.00	125.380	NIL
30-Sep-10	134.11 / 440.00	125.380	NIL
1-Oct-10	134.11 / 440.00	125.380	NIL
2-Oct-10	134.11 / 440.00	125.380	NIL
3-Oct-10	134.11 / 440.00	125.38	NIL
4-Oct-10	134.11 / 440.00	125.390	NIL
5-Oct-10	134.11 / 440.00	125.390	NIL
6-Oct-10	134.11 / 440.00	125.450	NIL
8-Oct-10	134.11 / 440.00	125.560	NIL
9-Oct-10	134.11 / 440.00	125.58	9.5
10-Oct-10	134.11 / 440.00	125.59	NIL
11-Oct-10	134.11 / 440.00	125.610	NIL
12-Oct-10	134.11 / 440.00	125.330	136.528
13-Oct-10	134.11 / 440.00	125.07	332.725
14-Oct-10	134.11 / 440.00	124083	198.16
15-Oct-10	134.11 / 440.00	124.43	NA
16-Oct-10	134.11 / 440.00	124.02	NA
17-Oct-10	134.11 / 440.00	NA	NA
18-Oct-10	134.11 / 440.00	123.87	NIL
19-Oct-10	134.11 / 440.00	123.9	NIL
20-Oct-10	134.11 / 440.00	123.92	NIL
21-Oct-10	134.11 / 440.00	123.93	NIL
22-Oct-10	134.11 / 440.00	123.98	NIL
23-Oct-10	134.11 / 440.00	124.64	NIL
24-Oct-10	134.11 / 440.00	123.87	NIL
25-Oct-10	134.11 / 440.00	124.1	NIL
26-Oct-10	134.11 / 440.00	124.13	NIL

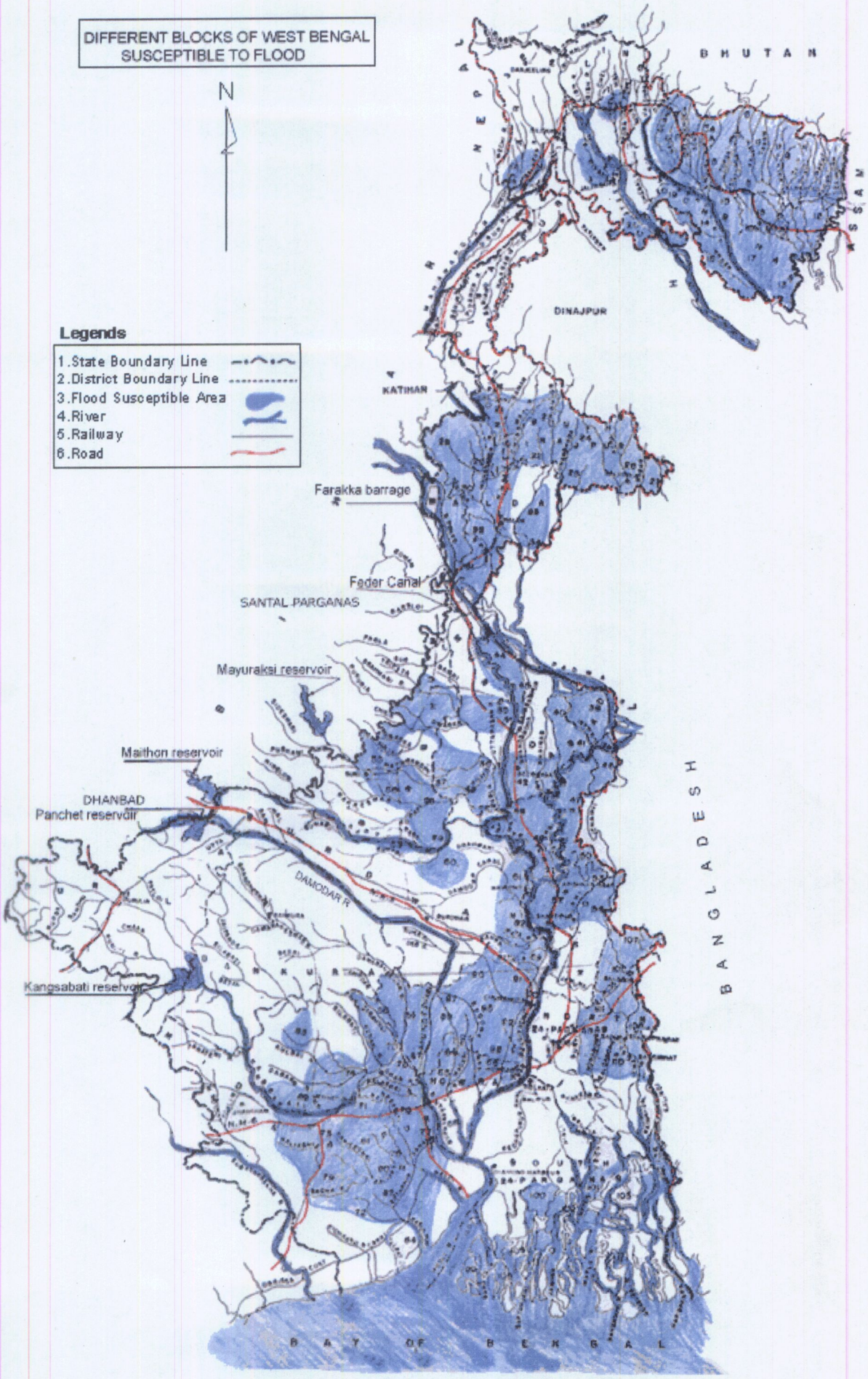
PANCHET DAM			
6:00 A.M			
DATE	CONSERVATION/ POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
1-Jun-10	124.97 // 410.00	N.A.	N.A.
2-Jun-10	124.97 // 410.00	N.A.	N.A.
3-Jun-10	124.97 // 410.00	119.97	63.00
4-Jun-10	124.97 // 410.00	119.97	N.A.
5-Jun-10	124.97 // 410.00	119.98	60
6-Jun-10	124.97 // 410.00	N.A.	N.A.
7-Jun-10	124.97 // 410.00	119.98	7.3
8-Jun-10	124.97 // 410.00	119.98	N.A.
9-Jun-10	124.97 // 410.00	119.98	N.A.
10-Jun-10	124.97 // 410.00	120	NIL
11-Jun-10	124.97 // 410.00	119.98	N.A.
12-Jun-10	124.97 // 410.00	N.A.	N.A.
13-Jun-10	124.97 // 410.00	N.A.	N.A.
14-Jun-10	124.97 // 410.00	119.9	N.A.
15-Jun-10	124.97 // 410.00	119.89	N.A.
16-Jun-10	124.97 // 410.00	119.87	N.A.
17-Jun-10	124.97 // 410.00	119.85	N.A.
18-Jun-10	124.97 // 410.00	119.85	8.577
19-Jun-10	124.97 // 410.00	119.84	8.577
20-Jun-10	124.97 // 410.00	119.91	8.53
21-Jun-10	124.97 // 410.00	120.35	8.693
22-Jun-10	124.97 // 410.00	120.34	N.A.
23-Jun-10	124.97 // 410.00	120.37	N.A.
24-Jun-10	124.97 // 410.00	120.38	8.808
25-Jun-10	124.97 // 410.00	120.38	4.492
26-Jun-10	124.97 // 410.00	120.38	NIL
27-Jun-10	124.97 // 410.00	120.44	NIL
28-Jun-10	124.97 // 410.00	120.51	8.46
29-Jun-10	124.97 // 410.00	120.63	NIL
30-Jun-10	124.97 // 410.00	120.8	8.639
1-Jul-10	124.97 // 410.00	120.860	18.776
2-Jul-10	124.97 // 410.00	120.950	NIL.
3-Jul-10	124.97 // 410.00	121.030	NIL.
4-Jul-10	124.97 // 410.00	121.090	NIL.
5-Jul-10	124.97 // 410.00	N.A.	N.A.
6-Jul-10	124.97 // 410.00	121.150	7.186
7-Jul-10	124.97 // 410.00	121.150	7.302
8-Jul-10	124.97 // 410.00	121.130	14.024
9-Jul-10	124.97 // 410.00	121.130	7.186
10-Jul-10	124.97 // 410.0	121.130	NIL
11-Jul-10	124.97 // 410.0	N.A.	N.A.
12-Jul-10	124.97 // 410.00	121.100	9.156
13-Jul-10	124.97 // 410.00	121.320	2.086
14-Jul-10	124.97 // 410.0	121.51	2.086
15-Jul-10	124.97 // 410.00	[illegible]	[illegible]
16-Jul-10	124.97 // 410.00	121.900	1.739
17-Jul-10	124.97 // 410.00	122.04	NIL.
18-Jul-10	124.97 // 410.00	122.090	NIL.
19-Jul-10	124.97 // 410.00	122.100	8.46
20-Jul-10	124.97 // 410.00	122.110	8.46
21-Jul-10	124.97 // 410.00	122.140	7.302
22-Jul-10	124.97 // 410.00	122.190	7.302
23-Jul-10	124.97 // 410.00	122.190	18.776
24-Jul-10	124.97 // 410.00	122.130	NIL
25-Jul-10	124.97 // 410.00	122.230	18.776
26-Jul-10	124.97 // 410.00	122.360	18.659
27-Jul-10	124.97 // 410.00	122.410	25.846

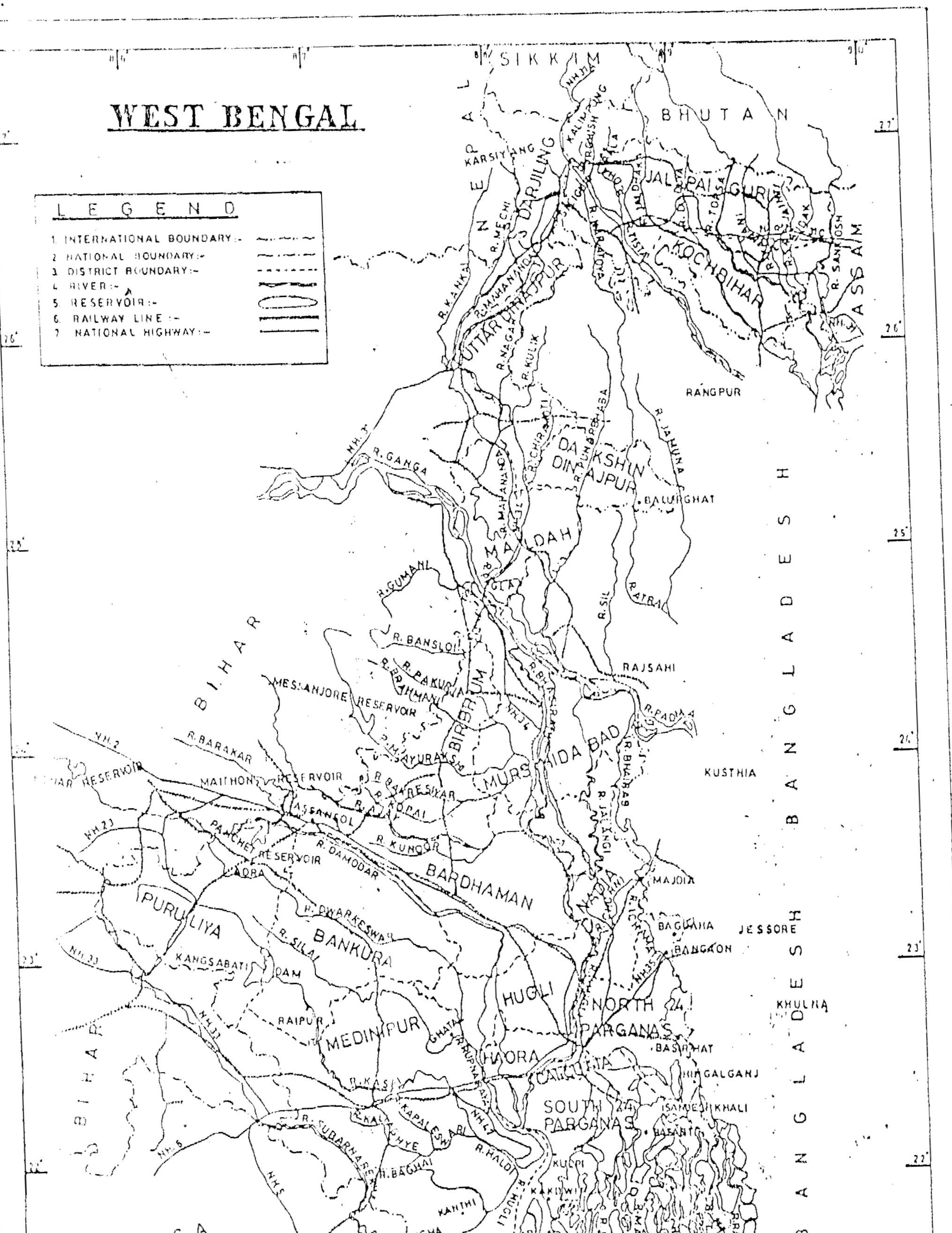
PANCHET DAM			
6:00 A.M			
DATE	CONSERVATION' POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
28-Jul-10	124.97 // 410.00	122.480	25.962
29-Jul-10	124.97 // 410.00	122.670	7.302
30-Jul-10	124.97 // 410.00	122.760	7.186
31-Jul-10	124.97 // 410.01	122.81	13.074
1-Aug-10	124.97 // 410.02	122.95	17.26
2-Aug-10	124.97 // 410.00	123.180	24.570
3-Aug-10	124.97 // 410.00	123.440	14.370
4-Aug-10	124.97 // 410.00	123.530	14.372
5-Aug-10	124.97 // 410.00	123.590	14.372
6-Aug-10	124.97 // 410.00	123.520	53.546
7-Aug-10	124.97 // 410.00	123.270	103.000
8-Aug-10	124.97 // 410.00	122.980	NIL.
9-Aug-10	124.97 // 410.00	122.680	147.420
10-Aug-10	124.97 // 410.00	122.310	155.886
11-Aug-10	124.97 // 410.00	121.980	131.315
12-Aug-10	124.97 // 410.00	121.640	123.549
13-Aug-10	124.97 // 410.00	121.170	149.975
14-Aug-10	124.97 // 410.00	120.810	NIL.
15-Aug-10	124.97 // 410.00	120.740	NIL.
16-Aug-10	124.97 // 410.00	120.910	85.998
17-Aug-10	124.97 // 410.00	121.030	85.882
18-Aug-10	124.97 // 410.00	120.900	85.882
19-Aug-10	124.97 // 410.00	120.720	85.998
20-Aug-10	124.97 // 410.00	120.800	7.302
21-Aug-10	124.97 // 410.00	121.010	NIL.
22-Aug-10	124.97 // 410.00	121.310	14.890
23-Aug-10	124.97 // 410.00	121.460	14.488
24-Aug-10	124.97 // 410.00	121.600	14.372
25-Aug-10	124.97 // 410.00	122.000	14.372
26-Aug-10	124.97 // 410.00	122.720	30.482
27-Aug-10	124.97 // 410.00	123.150	14.372
28-Aug-10	124.97 // 410.00	123.170	128.765
29-Aug-10	124.97 // 410.00	123.070	114.162
30-Aug-10	124.97 // 410.00	122.670	203.520
31-Aug-10	124.97 // 410.00	122.620	52.503
1-Sep-10	124.97 // 410.00	122.310	13.000
2-Sep-10	124.97 // 410 0	121.96	150.786
3-Sep-10	124.97 // 410.00	121.580	14.703
4-Sep-10	124.97 // 410.00	121.160	1426.000
5-Sep-10	124.97 // 410.00	120.550	227.740
6-Sep-10	124.97 // 410.00	120.130	N.A.
7-Sep-10	124.97 // 410.00	120.160	14.603
8-Sep-10	124.97 // 410.00	120.170	14.488
9-Sep-10	124.97 // 410.00	120.210	14.603
10-Sep-10	124.97 // 410.00	120.310	16.342
11-Sep-10	124.97 // 410 00	120.600	NIL
12-Sep-10	124.97 // 410.00	120.820	NIL
13-Sep-10	124.97 // 410.00	121.170	117.050
14-Sep-10	124.97 // 410.00	122.220	14.372
15-Sep-10	124.97 // 410.00	122.470	97.588
16-Sep-10	124.97 // 410.00	123.290	80.782
17-Sep-10	124.97 // 410.00	124.010	14.719
18-Sep-10	124.97 // 410.00	124.010	14.719
19-Sep-10	124.97 // 410.00	124.910	NIL
20-Sep-10	124.97 // 410.00	125.070	216.154
21-Sep-10	124.97 // 410.00	125.160	299.369
22-Sep-10	124.97 // 410 00	125.320	287.432

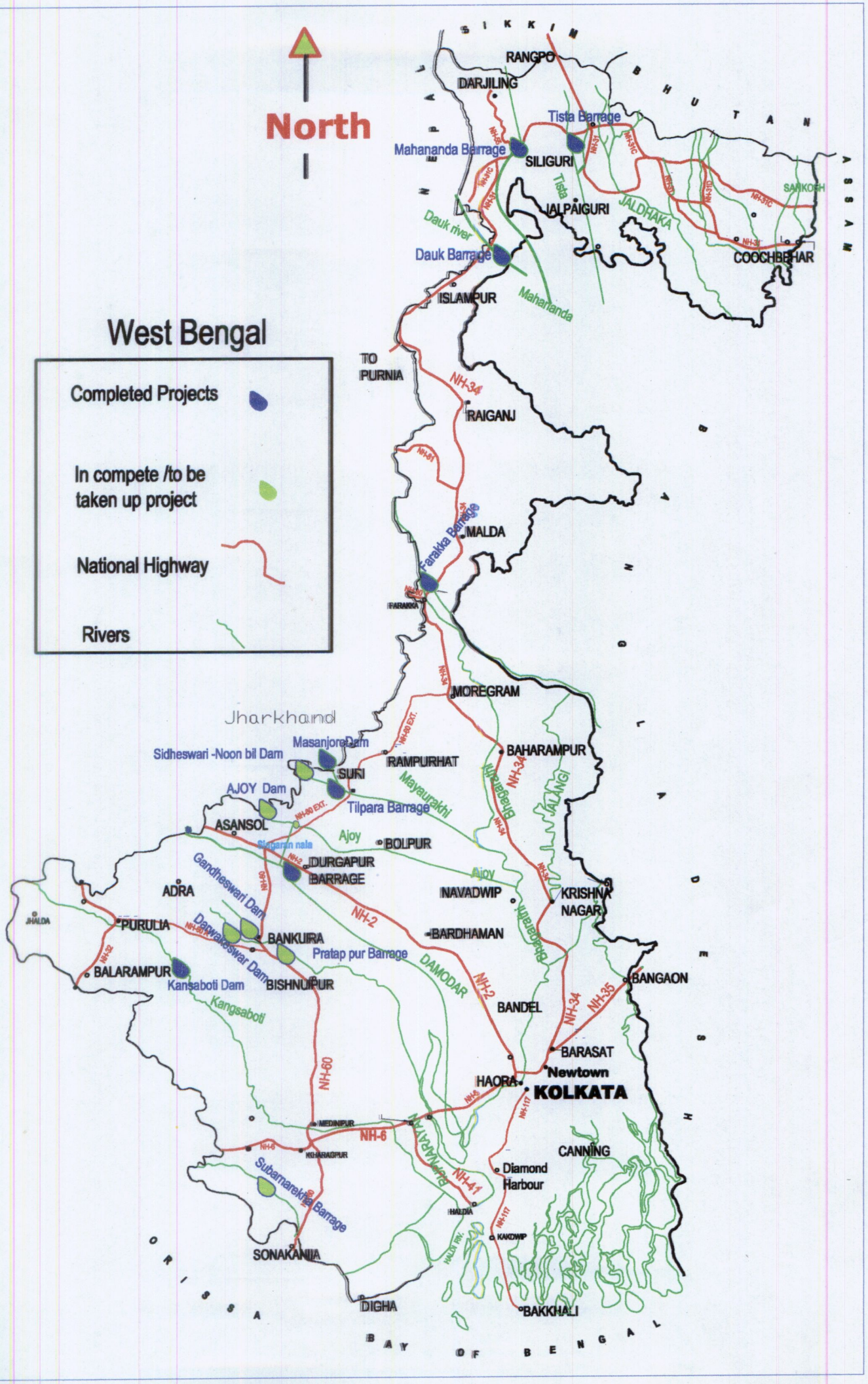
PANCHET DAM			
6:00 A.M			
DATE	CONSERVATION POND LEVEL LEVEL IN M./FT.	RESERVOIR LEVEL IN M.	OUTFLOW IN CUMEC
1	2	3	4
23-Sep-10	124.97 // 410.00	125.390	180.804
24-Sep-10	124.97 // 410.00	125.890	152.872
25-Sep-10	124.97 // 410.00	N.A.	N.A.
26-Sep-10	124.97 // 410.00	N.A.	N.A.
27-Sep-10	124.97 // 410.00	125.960	NIL.
28-Sep-10	124.97 // 410.00	126.000	11.590
29-Sep-10	124.97 // 410.00	126.030	27.121
30-Sep-10	124.97 // 410.00	125.830	169.446
1-Oct-10	124.97 // 410.00	123.610	174.429
2-Oct-10	124.97 // 410.00	125.450	93.000
3-Oct-10	124.97 // 410.00	125.23	1357 HM
4-Oct-10	124.97 // 410.00	125.050	136.414
5-Oct-10	124.97 // 410.00	125.830	156.465
6-Oct-10	124.97 // 410.00	124.630	157.160
7-Oct-10	124.97 // 410.00	N.A.	N.A.
8-Oct-10	124.97 // 410.00	124.430	104.889
9-Oct-10	124.97 // 410.00	124.39	NIL
10-Oct-10	124.97 // 410.00	124.55	NIL
11-Oct-10	124.97 // 410.00	124.610	7.302
12-Oct-10	124.97 // 410.00	124.640	7.500
13-Oct-10	124.97 // 410.00	124.67	7.302
14-Oct-10	124.97 // 410.00	124.69	NIL
15-Oct-10	124.97 // 410.00	124.7	NIL
16-Oct-10	124.97 // 410.00	124.7	NIL
17-Oct-10	124.97 // 410.00	NA	NA
18-Oct-10	124.97 // 410.00	124.76	NA
19-Oct-10	124.97 // 410.00	124.79	7.302
20-Oct-10	124.97 // 410.00	124.6	132.242
21-Oct-10	124.97 // 410.00	124.42	129.229
22-Oct-10	124.97 // 410.00	124.25	NA
23-Oct-10	124.97 // 410.00	124.15	NA
24-Oct-10	124.97 // 410.00	NA	NA
25-Oct-10	124.97 // 410.00	123.86	129.113
26-Oct-10	124.97 // 410.00	123.65	134.79

Statement of Districtwise Inundation area in the year 2010

District	Geographical Area (2001 Census)	Area Inundated in (Sq. km)	Percentage of inunundation	Remark
1	2	3	4	5
Darjeeling	3149	NA	NA	
Jalpaiguri	6227	0	0	Detailed as per enclosed report
Coochbehar	3387	NA	NA	
Uttar Dinajpur	3140	NA	NA	
Dakshin Dinajpur	2219	NA	NA	
Malda	3733	2.5	0.07	Detailed as per enclosed report
Murshidabad	5324	0	0	Detailed as per enclosed report
Birbhum	4545	NA	NA	
Burdwan	7024	NA	NA	
Bankura	6882	NA	NA	
Purulia	6259	NA	NA	
Nadia	3927	0	0	
Hooghly	3149	NA	NA	
Howrah	1467	NA	NA	
North 24-Parganas	4094	56	1.37	Detailed as per enclosed report
South 24- Parganas	9960	NA	NA	
Purba Medinipur	4295	NA	NA	
Paschim Medinipur	9786	NA	NA	
Kolkata	185	NA	NA	
Total ::	**88752**	**61.5**	**0.07**	


DIFFERENT BLOCKS OF WEST BENGAL SUSCEPTIBLE TO FLOOD
N
Legends
1.State Boundary Line
2.District Boundary Line
3.Flood Susceptible Area
4.River
5.Railway
6.Road
BHUTAN
ASSAM
DINAJPUR
KATIHAR
Farakka barrage
Feder Canal
SANTAL PARGANAS
Mayuraksi reservoir
Maithon reservoir
DHANBAD
Panchet reservoir
DAMODAR R.
Kangsabati reselvoir
BANGLADESH
BAY OF BENGAL


WEST BENGAL
LEGEND
1. INTERNATIONAL BOUNDARY :-
2. NATIONAL BOUNDARY :-
3. DISTRICT BOUNDARY :-
4. RIVER :-
5. RESERVOIR :-
6. RAILWAY LINE :-
7. NATIONAL HIGHWAY :-
SIKKIM
BHUTAN
NEPAL
ASSAM
DARJILING
JALPAIGURI
KOCHBIHAR
UTTAR DINAJPUR
DAKSHIN DINAJPUR
MALDAH
BIRBHUM
MURSHIDABAD
BARDHAMAN
NADIA
PURULIYA
BANKURA
HUGLI
MEDINIPUR
HAORA
CALCUTTA
NORTH 24 PARGANAS
SOUTH 24 PARGANAS
BIHAR
ORISSA
BANGLADESH
BAY OF BENGAL
RANGPUR
BALURGHAT
RAJSAHI
KUSTHIA
JESSORE
KHULNA
BANGAON
BASIRHAT
HINGALGANJ
ASANSOL
KANTHI
DIGHA
GANGA SAGAR
R. GANGA
R. PADMA
R. DAMODAR
R. BARAKAR
R. MAYURAKSHI
R. KASAI
R. SUBARNAREKHA
R. HALDI
R. HUGLI
R. RUPNARAYAN
R. MECHI
R. TORSA
R. SANKOSH
R. MAHANANDA
R. ATRAI
R. SIL
MESSANJORE RESERVOIR
MAITHON RESERVOIR
PANCHET RESERVOIR
KANGSABATI DAM
NH.2
NH.6
NH.31
NH.34
RAIPUR
REFERENCE :- THIS DRAWING TRACED FROM SURVEY OF INDIA MAP (AFTER REDUCING), DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA, COPYRIGHT, 1992.
DRG NO - C.E./I/1/2001
PREPARED BY :-
T. K. MANDAL
DRAUGHTSMAN
C.E.'S DRAWING OFFICE
I. & W. DIRECTORATE
A. BHATTACHARJEE
EXECUTIVE ENGINEER
C.E.'S DRAWING OFFICE
I. & W. DIRECTORATE


North
West Bengal
Completed Projects
In compete /to be taken up project
National Highway
Rivers
SIKKIM
BHUTAN
ASSAM
BANGLADESH
Jharkhand
ORISSA
BAY OF BENGAL
RANGPO
DARJILING
Tista Barrage
Mahananda Barrage
SILIGURI
Tista
JALPAIGURI
JALDHAKA
SANKOSH
COOCHBEHAR
Dauk river
Dauk Barrage
ISLAMPUR
Mahananda
TO PURNIA
NH-34
RAIGANJ
MALDA
Farakka Barrage
FARAKKA
MOREGRAM
Masanjore Dam
Sidheswari -Noon bil Dam
SURI
RAMPURHAT
BAHARAMPUR
AJOY Dam
Tilpara Barrage
Mayaurakhi
Bhagirathi
JALANGI
ASANSOL
Siduram nala
Ajoy
BOLPUR
DURGAPUR BARRAGE
Gandheswari Dam
ADRA
JHALDA
PURULIA
Damodar
BANKURA
Pratap pur Barrage
NAVADWIP
KRISHNA NAGAR
BARDHAMAN
Bhagirathi
BALARAMPUR
Kansaboti Dam
BISHNUPUR
Kangsaboti
DAMODAR
NH-2
BANGAON
BANDEL
NH-35
BARASAT
Newtown
HAORA
KOLKATA
NH-60
MEDINIPUR
KHARAGPUR
NH-6
Subarnarekha
Subarnarekha Barrage
SONAKANIA
CANNING
Diamond Harbour
HALDIA
KAKDWIP
DIGHA
BAKKHALI

ec 25 10 12:34a

Attention to : Director Advance Planning

Govt. of West Bengal

Irrigation & Waterways Directorate

OFFICE OF THE SUPERINTENDING ENGINEER

South Central Irrigation Circle

Berhampore, Murshidabad

Memo No. 1353 **Dated** 31-12-2010

To
The Director,
Advance Planning Project Evaluation &
Monitoring Cell,
Irrigation & Waterways Directorate,
Jalasampad Bhawan, Salt Lake City,
Kolkata-700 091

Sub : Submission of district wise flood damage report and statement of damages to Embankments and structures in different districts of West Bengal during Flood 2010.

Ref : Your memo no. 8-38/509(16) (Part-II) dated 09.11.2010

Sir,

With reference to above, I am to submit herewith the district wise flood damage report and statement of damages to Embankments and structures in different districts of West Bengal during Flood 2010 as follows :

Statement-1 : Damages to Embankments and structures in different districts 2010.

Sl. No.	District	River	Damaged site/ Police Station/ Block/ G.P./ Village	Nature and extent of damages					Inundated area
				Breach	Severely/ partially damaged	Damages to protective works	Slip/ bank erosion	Sluice	
1	Nadia	Bhagirathi, Churni, Jalangi, Padma	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2	Murshi-dabad	Bhagirathi, Bhairab, Jalangi, Mayurakshi, Dwarka, Brahmani, Kuiya	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Padma	Ramchandra-pur under Rajapur G.P in P.S. Raninagar Block-II	NIL	Severely damaged (2 Km.)	NIL	Bank erosion	NIL	NIL
			Sekhalipur & Chintamoni in P.S. Lalgola, G.P. Bilbora, Copra	NIL	Severely damaged	350M.	Bank erosion	NIL	NIL

Contd.....Next Page]

Statement-2 : District wise Inundated area-2010

Sl. No.	Name of the District	Geographical area	Area inundated	Percentage	Remarks
1.	Nadia	3927 Sq.Km.	NIL	NIL	NIL
2.	Murshidabad	5324 Sq.Km.	NIL	NIL	NIL

Yours faithfully,
31.12.10

(Anish Ghosh)
Superintending Engineer
South Central Irrigation Circle

Memo No. 1353(4) **Dated** 31-12-2010

Copy forwarded to :-

1. The Executive Engineer, Berhampore Irrigation Division for information with reference to his memo no. 1317 dated 30.12.2010
2. The Executive Engineer, Nadia Irrigation Division for information with reference to his memo no. 1278/6F-1/60 dated 08.12.2010
3. The Executive Engineer, Ganga Anti Erosion Division No. I for information with reference to his memo no. 1137 dated 30.12.2010
4. The Executive Engineer, Ganga Anti Erosion Division No. II for information with reference to his memo no. 607/1F-4 dated 24.11.2010

V.V. Urgent
for T. R. Brown, AD.
(8/38 Part-II)
03/1/11

sd/-
(Anish Ghosh)
Superintending Engineer
South Central Irrigation Circle

Advance Planning Project
Evaluation and Monitoring Cell
Received 2187
Date 3/1/2011
File No. 8-38 Part II
(I&W Dte.)

R. Nath, AE./R.C.
To incorporate in Flood Report 2010
03/01/11

Statement-1- Dristrict wise flood damages report and statement of damages to Embankment and structures in different Districts, during flood 2010.

Mahananda Embankment Division under North Central Irrigation Circle

Sl. No.	Dristrict	River	Damaged Site/ Police Station/ Block/ G.P. Village	Nature and extent of damages					
				Breach	Severely/ Partially samages	Damages to Protective works	Slip / Bank erosion	Sluice	Inundated Area
1	Malda	Fulhar	Debipur, P. S.-Ratua-I G.P.-Debipur & Kahala.	From ch 29.80 Km. to ch 30.780 Km.		980 m	Bank Erosion		2.5 Sq km.
2	Malda	Fulhar	Miahat P. S.-Harishchandra Pur Block-Harishchandrapur-II G.P.-Doulatnagar.				From ch 10.75 Km. to ch 11.80 Km.		
3	Malda	Fulhar	Bhaluka Bazar P. S.-Ratua & HarishchandraPur Block-Ratua-I& Harishchandrapur G.P.-Debipur & Bhaluka.			From ch 21.80 Km. to ch 22.420 Km.			
4	Malda	Fulhar	Teljana Sluice P. S.-Harishchandra Pur Block-Harishchandrapur-II G.P.-Doulatnagar.					Ch 10.00 Km. 1 Vent Flap Shutter fully damaged & washed away 2 Full-Drop Shutter-Non Operating 3 Severe/Counter wait 4-vent flap shutter 50% out of order.	
5	Malda	Fulhar	Khidirpur Spur-3 & 4 P. S.-HarishchandraPur Block-Harishchandrapur-II G.P.-Doulatnagar.		From ch 9.0 Km. to ch 15.10 Km. Severely				
6	Malda	Fulhar	Kahala Anchal, Kamalpur, Surjapur, Nandanpur, Gopalpur. P. S.-Ratua,Block-Ratua-I G.P.-Kahala.				3500 m		
7	Malda	Mahananda	Galimpur P. S.-Chanchal Block-Chanchal-I G.P.-Motiharpur.				1600 m		

Contd- P-2/3

Sl. No.	Dristrict	River	Damaged Site/ Police Station/ Block/ G.P. Village	Nature and extent of damages					
				Breach	Severely/ Partially samages	Damages to Protective works	Slip / Bank erosion	Sluice	Inundated Area
8	Malda	Mahananda	Ashapur P. S.-Chanchal Block-Chanchal-I G.P.-Kharba.				From ch 21.00 Km. to ch 22.695 Km.		
9	Malda	Mahananda	Balarampur P. S.-Chanchal Block-Chanchal-II G.P.-Chandrapara.				1695 m		
10	Malda	Mahananda	Khanpur P. S.-Chanchal Block-Chanchal-II G.P.-Chandrapara.				2000 m		
11	Malda	Mahananda	Bhabanipur P. S.-Chanchal Block-Chanchal-II G.P.-Chandrapara.				1695 m		
12	Malda	Mahananda	Islampur & Khidirpur P. S.-Chanchal Block-Chanchal-II G.P.-Kharba				1800 m		

Executive Engineer
Mahananda Embankment Divn.
Grenn Park, Malda

Superintending Engineer
North Central Irrigation Circle,
Greenpark. Malda.

Statement-2 Dristrict wise inundated area- 2010.

Mahananda Embankment Division under North Central Irrigation Circle Malda

Sl. No.	Name of Dristrict	Geographical Area	Area inundated	Percentage	REMARKS
1	Malda	Thickly populated Block Ratua-I, Mango garden, Cultivated Land	2.50 aqm K.m.	10%	Due to breaching of left Fulhar embankment from 29.80 K.m. to 30.80 K.m. in P.S.-Ratua, Block Ratua-I, Kahala G.P.

04.8.2011

Executive Engineer
Mahananda Embankment Divn.
Grenn Park, Malda

Superintending Engineer
North Central Irrigation Circle,
Greenpark, Malda.

STATEMENT-I

DAMAGES TO EMBANKMENTS AND STRUCTURES IN DIFFERENT DISTRICT -2010

SL. NO.	District	RIVER	Damaged site / Ploice Station / Block / G.P., Village	Nature & Extent of Damages					Inundated Area
				Breach	Severely / Partially Damaged	Damages to Protective work	Slip / Bank Erosion	Sluice	
1	Malda	Ganga	Vill.-Keswarpur, Block & P.S.-Manikchak	-	-	-	Land of unprotected area was damaged by erosion. Area of land =11.25 Bigha	-	-
2	Malda	Ganga	Vill-Dharampur, Block & P.S.-Manikchak	-	-	-	Land of unprotected area was damaged by erosion. Area of land =15.00 Bigha	-	-
3	Malda	Ganga	Vill-Khaskhol to Bhagirathi closer Block & P.S.-Manikchak & English Bazar	-	Rain cuts & depression of existing old latterite-moorum road of 7th retd. embankment.-700.00 m	-	-	-	-
4	Malda	Ganga	Dwarf embankment P.S-Kaliachak, Block- Kaliachak-II	-	Rain cut, Sleeps & Depression-2.00KM	-	-	-	-
5	Malda	Ganga	Spill checking embkt. P.S-Baishanab nagar Block-Kaliachak-II	-	Rain cut & Depression 1.50Km.	-	-	-	-
6	Malda	Ganga	Marginal embkt. from Adarshabazar to spur no.7 P.S Kaliachak Block-Kaliachak-II	-	Rain cut & Depression of old laterite road 1.50Km.	-	-	-	-
7	Malda	Ganga	Marginal embkt. from Kurantola ramp to Old Ajgubi more P.S Kaliachak Block-	-	Rain cut & Depression of old laterite road 0.500Km.	-	-	-	-

SL. NO.	District	RIVER	Damaged site / Ploice Station / Block / G.P., Village	Nature & Extent of Damages					Inundated Area
				Breach	Severely / Partially Damaged	Damages to Protective work	Slip / Bank Erosion	Sluice	
8	Malda	Ganga	Farward embkt. from Lashkaritola to sur no.10 P.S Kaliachak Block-Kaliachak-II	-	Rain cut & Depression of old laterite road 0.575Km.	-	-	-	-
9	Malda	Ganga	From Barabandha to tagging embkt. forward & marginal embkt P.S Kaliachak Block-Kaliachak-II	-	Rain cut & Depression of Embkt. road 0.425Km.	-	-	-	-
10	Malda	Ganga	from Lashkaritola to Barabandha, marginal embkt. P.S Kaliachak Block-Kaliachak-II	-	Rain cut & Depression of old exist. Embkt.0.800Km.	-	-	-	-
11	Malda	Ganga	from Suttantola pry. School to Lashkaritola marginal embkt. P.S Kaliachak Block-Kaliachak-II	-	Rain cut & Depression of old existing laterite road 2.00Km.	-	-	-	-
12	Malda	Fulahar	Left Fulahar Embankment Block & P.S.-Manikchak	-	-	Damage of existing protection work.1.00Km.	-	-	-
13	Malda	Fulahar	Left Fulahar Embankment Block & P.S.-Manikchak	-	-	- -	Area of land of innundated area=1000 mtr x20 mtr.=20,000 sqm.=14.90 bigha	458.31 Lakh	Scheme for protection work has been already submitted.
14	Malda	Mahananda	Sathgharia Ferry in P.S & Block- English Bazar	-	-	Boulder toe sausage & adjacent boulder pitching engulfed by river 60.00m.	-	-	-

SL. NO.	District	RIVER	Damaged site / Ploice Station / Block / G.P., Village	Nature & Extent of Damages					Inundated Area
				Breach	Severely / Partially Damaged	Damages to Protective work	Slip / Bank Erosion	Sluice	
15	Malda	Mahananda	10 vented Gohula Danra sluice in P.S Malda, Block-Old Malda.	-	-	-	-	2(two) nos flap shutter has broken down	-
16	Malda	Mahananda	Up stream side of Baraghat near Bhudia High Madrasa in P.S& Block-English Bazar	-	-	-	Bank erosion 25.00m.	-	-
17	Malda	Mahananda	Itakhola Aandipur Embankment near paly ground in P.S & Block-English Bazar	-	Rain cut 25.00m.	-	-	-	-
18	Malda	Mahananda	Down stream side of Uttar Alinagore High School in P.S & Block Gazole	-	-	-	Bank erosion 30.00m.	-	-
19	Malda	Mahananda	Pabnapara D/S of Burning Ghat in P.S & Block Gazole	-	-	-	Bank erosion 150.00m.	-	-
20	Malda	Mahananda	Bundh road of schedule "D" embankment P.S & Block-English Bazar	-	Pot hole 2.75 Km.	-	-	-	-
21	Malda	Mahananda	Village Aiho, Block & P.S-Habibpur	-	-	-	Bank erosion with Public building H.S Girls School 300.00m.	-	-
22	Malda	Srimati	Mahakalbona near confluence point of river Srimati with Mahananda P.S. & Block-Gazole	-	-	-	Bank erosion 151.00m.	-	-

SL. NO.	District	RIVER	Damaged site / Ploice Station / Block / G.P., Village	Nature & Extent of Damages					Inundated Area
				Breach	Severely / Partially Damaged	Damages to Protective work	Slip / Bank Erosion	Sluice	
23	Malda	Punarbhaba	Barstipara, P.S. & Block-Bamongola	-	-	-	Bank erosion 500.00m	-	-
24	Malda	Tangon	Bulbulchandi, P.S. & Block-Habibpur	-	-	-	Bank erosion with Public building 500.00m	-	-
25	Malda	Tangon	Parhabinagar, P.S. & Block-Bamongola	-	-	-	Bank erosion with Public building 1300.00m	-	-
26	Malda	Tangon	Chatiangachi,P.S. & Block-Bamongola	-	-	-	Bank erosion with F.P. School 30.00m	-	-
27	Malda	Brahamani	Nalagola, P.S. & Block-Bamongola	-	-	-	Bank erosion with Pucca private building Road 3.00Km	-	-

Executive Engineer
Malda Irrigation Division,
Green Park, Malda.

STATEMENT -2
DISTRICT WISE INUNDATED AREA-2010

Sl. No.	Name of District	Geographical Area	Area Inundated	Percentage	Remarks
1	Malda	359048 Sq.Km.	Nil	Nil	

Executive Engineer
Malda Irrigation Division
Green Park, Malda

Statement of damages to Embankment/Structures in different districts of West Bengal during the Flood 2010

Sl. No.	Districts	River	Damaged site/Police Station/Block	Nature and Extent of damages					Inundated Area
				Breach	Severely/ Partially damaged	Damages to Protective works	Slip/ Bank Erosion	Sluice (No)	
1	NORTH 24 PARGANAS Geographical Area- 4094 Sq.km	Kalindi, Sahebkhali, Raimongal, Goureswar, Dansa, Baro Kalagachi	**P.S. & Block- Hingalganj** **Damaged sites- Ramapur,Kedarchak,** Madhabkati, Hemnagar, Perghumti, Hingalganj, Singerkati, Khosbus, Saheb khali, Chanralkhali, Sridharkati, Malekhan, ghumti, Kalitala, Haridaskati, Samser-nagar, Bankra, Putia mathbari, Lebukhali, Sandelerbill, Jogeshganj, Banstala,Bispur, Choto Sahebkhali, Bainara, Bainara, Bailani,Durgapur, Swarupkati, Bhanderkhali, Rupmari, Khejurberia, Raptanpara, Ghoshpara	0.200 km.	Severely- 16.500km Partially- 8.000km	0.500km	2.5km	12 nos	15Sq.km
2		Katakhali Dansa, Ichamoti, Goureswar,	**P.S. & Block- Hasnabad** **Damaged sites- Saidpur, Taki** Chakpatli,Tangramari,Barunhat, Kalutala,Laskarnagar, Tangra,Sulkuni Abad.		Severely- 8.500km Partially- 5.000km	0.100km	2km	5nos	
3		Ichamoti,	**P.S. & Block- Basirhat-I** **Damaged site- Sangrampur,Chowrah,** Akherpur,Panitor,Bagundi, Tapa Mirzapur,Amarkati	0.050km	Severely- 2.500km Partially- 1.000km		2.5km		1.50Sq.km
4		Ichamoti,	**P.S. & Block- Basirhat-II** **Damaged site- Harishpur,**		Severely- 1.500km Partially- 2.000km		4km		
5		Ichamoti,	**P.S. & Block- Swarupnagar** **Damaged site-Nalbora, Baglani, Tipi**		Severely- 1.500km Partially- 2.000km		2km		
6		Benti, Ghatihara, Bidyadhari, Dansa	**P.S. & Block- Sandeshkhali-I** **Damaged site- Kharihat, Nazat,Ghatihara** Mathbari,Bhoiakhali.Kalinagar,Ghoshpur, Gajalia,Putimari,Akhratola,Netyaberia.		Severely- 9.000km Partially- 6.000km	1.000km	2km	13nos	

Sl. No.	Districts	River	Damaged site/Police Station/Block	Nature and Extent of damages					Inundated Area
				Breach	Severely/ Partially damaged	Damages to Protective works	Slip/ Bank Erosion	Sluice (No)	
7	N O R T H 24 P A R G A N A S Area- 4094 Sq.km	Raimongal, Dansa, Baro-Kalagachi, Bali,Bidya, Rampur, Choto-Kalagachi, Tushkhali,	**P.S. & Block- Sandeshkhali-II** **Damaged sites- Dhamakhali,Rampur,** Bermajur,Monipur,Atapur, Darirjangal,Bouthakurani, Jotishpur,Gabberia, Hatgacha,Sitalia,Tushkhali		Severely- 6.500km Partially- 9.000km	2.000km	0.500km	10nos	
8		Buri, Bidyadhari, Jagannath Khal,	**P.S. & Block- Minakhan** **Damaged sites- Mohanpur,** Mullickgheri,Bachra,Atpukur Chaital,	0.070km	Severely- 3.000km Partially- 4.000km			3nos	2.50 Sq.km
9		Metia,Buri, Bidyadhari, Jagannath Khal, Haroagang-Kultigan	**P.S. & Block- Haroa** **Damaged sites- Dakshin Ranigachi,** Samla,Raikhan,Bakjhuri,Ranigachi, Kamarganti,Bantala,	0.050mts	Severely- 2.500km Partially- 3.000km			3nos	2.00 Sq.km
10		Ichamoti,	**P.S. & Block- Baduria** **Damaged sites-** Raghunathpur,Harishpur Bajitpur,Dwip Media. Gobindapur,Srirampur	0.080km	Severely- 0.500km Partially- 1.500km		0.500km		35 Sq.km
			TOTAL-	0.450km		3.600km	16km	46nos	56sq.km

03/1/2019

Executive Engineer
Basirhat Irrigation Division
Basirhat,North24Parganas

Superintending Engineer
Eastern Circle

STATEMENT -1 : Damages to Embankments and Structures in different districts - 2010.

Sl No.	District	River	Damaged/Site Police station Block G.P., Village	Nature and extent of damages					Inundated area.
				Breach	Severely/ partially damaged	Damages to protective works	Slip/Bank erosion	Sluice	
1.	Jalpaiguri	Karatowa River.	R/B of River Karotowa Embankment PS+Block Rajganj G.P.Ambari Falakata.	NIL	Severely damaged.	Length of 400.00 mtrs.	Bank Erosion.	NIL	NIL
2.	Jalpaiguri	Andhijhora River bridge at 0.64km of Barrage service Road.	2(Two)Nos. wingwall fully damaged.	NIL	Severely damaged.	Consturction 2(Two)Nos. Wingwall & Boulder deflector at U/S &D/S of structure.	Bank Erosion.	NIL	NIL.

24/1/11

(G. K. CHATTOPADHYAY)
SUPERINTENDING ENGINEER
TEESTA BARRAGE CIRCLE
SILIGURI