भारत सरकार Government of India केन्द्रीय जल आयोग Central Water Commission बाढ़ पूर्वानुमान प्रबोधन निदेशालय

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विषय : दिनाक . २५ ०७ २० व्याचार की कतरन (News Clippings) प्रस्तुत करने के सम्बन्ध में ।

मानसून/ बाढ़ सम्बन्धी सनाचारों की कतरन (News Clippings) अवलोकन हेतु प्रस्तुत हैं :

सलंञ्न : उपरोक्तानुसार

24/21

(सहायक निदेशक)

<u>उपनिदेशक</u>

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निदेशक (बा.प.प.)

24/07/200

कृत्या केन्द्रीय जल आयोश की वेच शाईट पर अपलोड करने की व्यवस्था करें।

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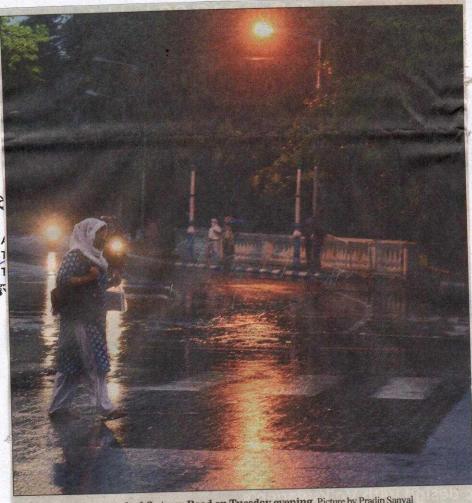
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Hindustan Times (Delhi) नवभारत टाईम्स (बिल्ली) The Tribune (Chandigarh) The Hindu (Chennai)

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A rain-soaked Outram Road on Tuesday evening. Picture by Pradip Sanyal

City sees rain deficit n rainiest month

DEBRAJ MITRA

Calcutta: July, usually the rainiest monsoon month, has so far registered a deficit in Calcutta.

Between July 1 and 20, the city received 192mm of rain compared to the usual quota of 240.8mm in the same period in previous years, a Met official said on Tuesday. The deficit is around 20 per cent.

The monsoon's first month, June, ended with a 30 per cent surplus in the city. As a result, the cumulative rain count till July 20 is still at a nine per cent surplus, the official said.

Compared to Calcutta and the rest of coastal Bengal, the northern districts of Bengal have been caught in heavy rain this monsoon.

Between June 1 and July received Jalpaiguri 1,994mm of rain, Cooch Behar 1,525mm and Darjeeling 1,236mm, according to figures provided by the India Meteorological Department, Calcutta. In comparison, Calcutta has received 573.9mm of rain in the same period, the Met of-

The reason for the wide

gap - the absence of rain-triggering systems over the Bay of

"The absence of a low-pressure area or a cyclonic circulation over the Bay of Bengal means the monsoon trough has seldom passed over south Bengal. The trough has remained stationed over the foothills of the Himalayas for most part of the monsoon so far. The trough is triggering widespread and heavy rain in the northern districts," G.K. Das, director, IMD, Calcutta, said.

The monsoon trough keeps oscillating. When it is over the foothills of the Himalayas, north Bengal and the Northeast get rain. When it descends to the northern Bay of Bengal because of a low-pressure system, coastal Bengal receives rain. If the trough descends further, peninsular India gets drenched.

"July usually sees the formation of multiple low-pressure areas over the Bay. But there have been none so far," Das said.

The monsoon last year had een a similar pattern, but on a different scale. Both June and July 2019 were among the dri-

est in recent years because of the absence of rain-bearing systems over the Bay. July 2019 saw just 160mm of rain compared to July's usual quota of around 400mm. June was drier, registering just 95mm of rain against the usual quota of around 300mm. The monsoon had made a weak arrival, delayed by almost a fortnight.

The monsoon's normal onset date in Calcutta is June 8 with an error margin of four days. This year, the monsoon set foot in Calcutta on June 12, riding on a strong low-pressure system over the Bay of Bengal.

The strong currents ensured sufficient rain in June. July has so far not been dry. "But the rain in Calcutta is because of the formation of local thunderclouds because of the moisture in the monsoon currents from the Bay. A strong system would have brought the trough down and led to heavier rain," Das said.

The city has received heavy rain (over 60mm) this month only on one day, on July 12, when a 150km-long cloud mass triggered heavy rain in the night, flooding several roads in north Calcutta.

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Minto Bridge underpass could be shut during heavy downpours

Driver's death triggers policy change to prevent a repeat

JATIN ANAND NEW DELHI

The death of a 56-year-old driver, who drowned under the waterlogged Minto Bridge last Sunday, has triggered a significant policy decision seeking to prevent similar incidents in future like temporary shutting of the underpass and its vicinity during heavy downpours.

Such a decision will ensure that the underpass of the 87-year-old bridge will have restricted entry when the level of water goes beyond 45 centimetres, or around 1.5 feet. Moreover, a criminal case can be lodged against anyone trying to access it, or its vicinity, in such a condition.

Deputy Chief Minister Manish Sisodia has ordered the Public Works Department (PWD) Executive Engineer concerned to monitor the situation around the Minto Bridge throughout the monsoon, a Delhi government official said.

"A joint team headed by the PWD will also be at the

A joint team
headed by the
Public Works
Department will
be at the core of
a new SOP
where the
underpass will
be barricaded
by the police
every time the
water level rises

DELHI GOVERNMENT OFFICIAL

above 45 cm

ore of a new Standard Operating Procedure where the underpass will be barricaded by the police every time the water level rises above 45 cm. Vehicular movement will be restricted and allowed to resume only after water is completely pumped out," said the official.

Prompt action

"As soon as such a situation arises, the matter will be escalated to higher authorities, including the PWD Minister. If any commuter attempts to access the underpass or the area

cordoned off while pumping the water, the engineer will file an FIR with Delhi Police," the official also said.

According to the official, the engineer had been directed to personally monitor the water-logging situation and its disposal through pumping on a 24x7 basis. The official was also directed to ensure that water doesn't get accumulated for a long time, besides coordinating with the civic body and Delhi Police.

In the past the temporary closure of the underpass, one of the gateways between Old and Lutyens' Delhi, occurred on its own due to waterlogging and not as a matter of policy, sources said.

According to an official, the policy of temporary closure of the underpass, instead of complete closure, which had been possible in the past, was no longer possible given the burgeoning vehicular population of the Capital and its critical location in the heart of the city.

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Wet spell: 3 districts have now received 'excess' rain

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Monsoon 'normal' in city after rainy week

Jasjeev.Gandhiok @timesgroup.com

New Delhi: Sustained showers since Sunday, including two days of "heavy" rainfall, have reduced Delhi's monsoon deficit from 55% last week to 16% now, bringing the capital in the "normal" category for the monsoon season, IMD data shows.

Delhi's base station, Safdarjung, has received "excess" monsoon rain with 306.7mm recorded so far against a normal of 215.3mm, which is 42% surplus.

In July, three of Delhi's weather stations — Safdarjung, Palam and Lodhi Road — are in the "excess" category now in terms of rainfall received this month, recording

WETTEST WEEK

Pai	ESI WEEK				
Rainfall In Delhi Past 7 Days					
50% above	62.4mm				
THE REPORT OF THE PARTY OF THE	41.6mm normal July 146.1mm				
below normal	actual, 146.9mm normal				
Since 16%	June 1 176.6mm				
below normal	actual, 209mm normal				

50%, 37% and 64% more rainfall than the normal. While the normal for Safdarjung for the month of July is 210.6mm, it has already received 225mm of rainfall till July 23.

▶ Continued on P 4

CITY'S MONSOON DEFICIT WASHED AWAY

☐ No Rain (-100%) ☐ Large Deficient (-99% to -60%) ☐ Deficient (-59% to -20%) ☐ Normal (-19% to 19%) ☐ Excess (20% to 59%) ☐ Large Excess (60% or more)

Station-wise rainfall

Station	Seasonal	Normal	Departure	Departure %
Safdarjung	306.7	215.3	91.4	
Palam	251.8	233.4	18.4	8
Lodhi Road	320.1	215.3	104.8	
	3.51	-10.0	104.0	49

Station	Monthly	Normal	Departure	Departure %
Safdarjung	225	149.8	75.2	
Palam	224	164.1	59,9	37
Lodhi Road	246.4	149.8	96.6	51

Rainfall this month in Delhi



Actual rain	Normal rain	Dep	
119.8		-47	
122	MATERIAL PROPERTY OF	-46	
246.4		-40	
229.9			
141.6		-3	
60.9		-66	
208.1		00	
277.9	221.6		
191.2	229.7		
	119.8 122 246.4 229.9 141.6 60.9 208.1 277.9	119.8 225.3 122 225.3 246.4 175.1 229.9 191.2 141.6 225.3 60.9 181.2 208.1 225.3 277.9 221.6	

225.3 -46 175.1 -41 191.2 -20 225.3 -37 181.2 -66 225.3 -8 221.6 -29.7 -17

arture %

Monsoon deficit wiped out; rain deficit was 55% last week

The capital has seen two 'heavy' rain days since Sunday, pushing Safdarjung, Palam and Lodhi Road stations into 'excess' category

Among districts, New Delhi, North and South West Delhi are all in 'excess' category now

▶Continued from P1

uldeep Srivastava, scientistat IMD and head of the Regional Weather Forecasting Centre (RWFC) says Delhi generally tends to record good spells of rain towards the end of July, with a good possibility of heavy rain.

"A shift in the monsoon trough had brought intense rain to the region and so far, two days of heavy rainfall has already been recorded. There is a possibility of Delhi recording heavy rain on Saturday as well," said Srivastava. He says Delhi is likely to witness light rain this week, with spells of moderate rain occurring in between.

In terms of district data, at least three of Delhi's districts – New Delhi, North Delhi and Southwest Delhi are now in the "excess" category. Northwest Delhi however continues to suffer the most, recording only

PWD: No traffic on roads leading to Minto Bridge if water level above 45cm

ays after a 56-year-old man drowned in rainwater accumulated at the Minto Bridge underpass in central Delhi, the Public Works Department (PWD) has decided to barricade roads leading to the spot if the water level rises above 45 centimetres during rain, an official said on Thursday. The department also warned of filing an FIR against those not following traffic restrictions to be imposed during heavy rain.

The official said the department has issued an office memorandum directing officials concerned to monitor the water situation under the colonial-era bridge round the clock during the rainy season and ensure proper pumping arrangements so that there is no waterlogging. PTI

60.9mm of rainfall this season, a "large deficit" of 66%. Central, East and Northeast districts are also in deficit, IMD data showed.

The IMD ranges categorizes rainfall between -19% and 19% as "normal", between -59% and -20% as "deficient" and between -99% and -60% as "large deficient" on its index.

The capital had received 67.6mm of rainfall at Safdar-

jung on Wednesday, while Palam had recorded 81.2mm in a 24-hour duration. Lodhi road also recorded 71.9mm of rainfall on Thursday. Rain is classified as 'heavy' when it is above 64.4mm in a 24-hour period.

Forecast for Friday shows lightrain is likely to occur in the capital, with a maximum and minimum of 34° and 24° C, respectively, met officials said.

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Floods claim 91 lives in Assam; 3 deaths reported from Bihar

HT Correspondents

- letters@hindustantimes.com

GUWAHATI/BETTIAH/NEWDELHI: Four more people died in rain-related incidents in Assam on Thursday taking the total number of those killed in rain-related incidents this season to 91, even as Bihar reported three deaths due to drowning

According to an Assam State Disaster Management Authority (ASDMA) bulletin, one death each was reported from Bongaigaon, Kokrajhar, Morigaon and Golaghat districts. Over 28 lakh people in 26 of the state's 33 districts continue to be affected. Over 47,000 displaced people are taking shelter at 456 relief camps. Rescue personnel evacuated 1,102 persons stranded by floods on Thursday.

In Bihar's Bettiah, three bodies were recovered from different parts of East Champaran as villages in Raxaul, Sikarahana, Bettiah, Bagaha and Pakaridayal sub-divisions continued to be flooded.

In Chakiya sub-division, body of a 35-year-old man was recovered from Dhanauti river. Parsuram Paswan was visiting his field when he drowned, said police. In Gokhala village, the



 Residents move to a safer place from a flood-affected area in Muzaffarpur, Bihar, on Thursday.

body of an 11-year-old boy was recovered from a pond. In Chirraiya, a four-year-old girl drowned in a roadside ditch at Balapur village, said police.

"As the water has entered several houses, we are running community kitchens at three places in Nautan, Bairiya and Chanpatiya blocks," said Bettiah sub-divisional magistrate Vidhyanath Paswan.

At least twelve villages in Banjariya blocks were inundated after an embankment on Tilawe river breached on Wednesday, said an official. FLOODSHIT 2.4 MN KIDS IN INDIA, SAYS UNICEF

An estimated 2.4 million children have been affected by the floods in India, the UNICEF said on Thursday, calling for immediate support to address the challenges. In a statement, UNICEF said, "In India, over 6 million people across Bihar, Assam, Odisha, Gujarat, Maharashtra, Madhya Pradesh, Kerala, Uttarakhand, Uttar Pradesh and West Bengal have been affected by the floods, including an estimated 2.4 million children," it said.

(With Agency Inputs)

दिनाकं . 24 07 20 को निम्निखियत समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धी समाचार

central and south Delhi slumped in two vital stretches in

Ashoka Road and Mahipalpur

Hindustan Times (Delhi) नवभारत टाईम्स (दिल्ली) The Tribune (Chandigarh) - Windu (Chennai)

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CRACKING UNDER PRESSURE Traffic, already moving at snail's pace due to the rain, slowed further

Soumya Pillai and Ashish Mishra etters@hindustantimes.com

Experts say that damaged sewage and drain lines

AVED-IN ROADS

of at least seven major roads in snail's pace due to the showers hat was already moving at he city, further slowing traffic nave caused cave-ins on sections neavy rain in the national capital **NEW DELHI:** Just three days of Just a day after parts of roads

3

on Thursday was severely hit on the day, as a result. of the carriageway, was diverted towards the airport, on both sides that coming from Vasant Kunj Works Department (CPWD), and (NHAI) and the Central Public Highways Authority of India under the jurisdiction of National Mahipalpur bypass, which is Traffic from NH-48 towards Mahipalpur route affected, traffic said that with two portions on the Delhi traffic police officials

did not respond to requests for On Tuesday, traffic on and PWD minister Satyendar Jain

have also been reported from ITO since then, Delhi has seen 122mm West Delhi. In the three days in Central Delhi and Nawada in Since Tuesday, such incidents

traffic police to divert traffic and east Delhi caved in, forcing mary connection between central around Bhairon Marg came to a

standstill after a section of the pri-

Section on Mahipalpur bypass turning towards the skywalk Below Nawada Metro station

Metro station)

towards Mahipalpur

of rain. But why do such cave-ins road-owning agencies—the Pub take place? lic Works Department (PWD) Senior officials of the city's

beneath roads were a primary factor for cave-ins On Wednesday **Bhairon Marg** Ashoka Road ITO intersection (on the Rajouri Garden market (nea Portion of NH-48 leading APPSAINU footpath leading towards

aved in on Thursday morning. a portion of the service lane near NH-48 leading to Mahipalpur and bypass—another section of

he Rajouri Garden main market

son RN Singh had said Thursday on priority," NDMC spokesper repair the sewer line and the roac engineering team is working to underground sewer line. Our caved in because of a leak in the the incident. "A small portion ing beneath the road, which led to was a leakage in a sewer line pass diction Ashoka Road is, said there cil (NDMC), under whose jurisof the New Delhi Municipal Coun-Wednesday afternoon. Officials ar problem at Ashoka Road on NHAI and CPWD did not Officials said there was a simi

to the side. But at many places in

should be shifted to a multi-utility

Delhi, roads are built on these duct or underneath a footpath or

cave-in on Mahipalpur bypass respond on the details of the Estimates from the traffic

police show that over the last five

road cave-in increase," Ram said

Delhi Development Authority soon, and attributed cave-ins to recurrent incidents every moncorporations and the New Delhi north and south Delhi municipal Authority of India (NHAI), and (DDA), National Highways pounded the problem. during construction added that shoddy quality control lines beneath roads. Experts damaged water or sewer pipe-Municipal Council) said these are the four municipalities (east, com-

> systems in the area were laid durwas because most underground central Delhi, which experts said roads caving in have come from years, the most complaints of

ing British rule, and have not

been replaced since.

Marg, Just a few metres away

A large portion of Bhairon

will be repaired soon," the officia The portion is cordoned off and attended to promptly and fixed eakage. "The leakage portion of Rajouri Garden marset road caved in due to sewerage A PWD official said a small was

> engineer-in-chief of PWD, said water and sewer lines are laid many old utilities in Delhi such as slumped in 2016. Sections of from the present cave-in, had beneath roads, and that when official records confirmed. least thrice in the last two years. Ashoka Road have caved in at Sarvagya Srivastava, former

ever there is damage to these utilthe water or sewerage pipelines lower soil layer becomes soft ities, water seeps in, and the "Before constructing a road

space. So, when these utilities utilities due to a shortage of pacted properly, the chances of a neering" while laying roads. "If for such incidents is "bad engi-School of Planning and Architecuous load portions of the road coland after some time, with continthe lower layers are not comture (SPA), said that apart from leak, the water makes the soil soft eakage in utilities, another cause apse," Srivastava said Sewa Ram, a professor

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Showers over past 4 days lower Delhi's rain deficit to 16%

HT Correspondent

letters@hindustantimes.com

NEWDELH: Safdarjung, Palam and Lodhi Road stations in Delhi have already recorded 50%, 37% and 64% rain in excess for July. The monsoon deficiency (since June 1) which was 29% on July 21 reduced to 16% on Thursday, according to data with India Meteorological Department (IMD).

An excess of 19% to a deficiency of 19% is considered the normal range by IMD, so Delhi is not categorised as rain-deficient anymore.

Most of the rainfall which helped cover a massive monsoon deficiency of 52% (as on July 16) was recorded in the past four days between the evening of July 18 and July 22.

"The heavy and moderate spells of rain received within four days helped cover the deficiency. Since July 1 though, Delhi has received rain in 20 or 21 days but it has been extremely light or trace rainfall at most," said Kuldeep Shrivastava, head, regional weather forecasting centre.

But now rainfall over northwest India, including Delhi, will reduce significantly with the western end of the monsoon trough moving northwards. "The monsoon trough is moving to the Himalayan foothills and the wind direction has changed to northwesterly over north-west India. Even in the hills there is no wind convergence as such. So, there will be very light rain in the hills and northern plains, if at all. Around July 26, the monsoon trough will start shifting, bringing a lot of rain to north-west India," added Shrivastava.

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▲ face oface

AK GOSAIN, Professor, Civil Engg, IIT Delhi

'Rainwater can't flow out as drains choked'

NEW DELHI: Delhi is losing its capacity to handle monsoons, even when it is raindeficient. This is mainly because Delhi has a drainage master plan from 1976 that does not factor in the construction boom in recent years. AK Gosain, professor of civil engineering at IIT Delhi, who submitted a drainage master plan to Delhi government in 2017, tells Jayashree Nandi that Delhi can see a calamity anytime. Edited excerpts:

Why does it flood in Delhi even after a few short spells of rain? First, paved area in Delhi is on the increase. The run-off from paved area is far higher than natural areas. For example, for one unit of rain, a paved area will generate 95% of run-off compared to 50% for a natural area. With a rise in paved area, we are seeing a rise in the volume of water that needs to drain. Second, in Delhi we get rain for four months; the drains are supposed to be dry for the rest of the year.

But no drain is ever dry.
They carry sewage instead.
Third, stormwater drains need to be cleaned at least biannually or rainwater cannot flow freely.

Ten houses collapsed near ITO after heavy rain on Saturday. Was the rain that bad?

The drain was choked. It should have been de-silted. Water level kept going up, eventually washing away houses. We need to check if they were authorised. And why were they constructed on a drain?

There are also some locations like Minto Bridge which get flooded every time.

Yes there are many locations like that, which are in a depression. These cannot drain naturally. The water has to be pumped out immediately.

What happened to the Drainage Master Plan your team submitted to the Delhi government?

We have completed our job and its up to the government. The plan captures all the issues with flooding and drainage I have mentioned.

There are constructions on the Yamuna flood zone or 'O' zone. Does that affect the city's capacity to handle rain? If the floodplains are constricted, then the level at which water will pass through will be higher. So when there is a big flood, embankments will breach and there will be calamity. Also, if the water level in the river is high, all the drains flowing into it will be surcharged and there will be backflow.