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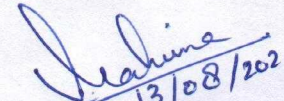
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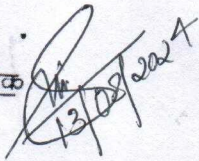
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निदेशक (बा.प.प्र.)

Day after waterlogging, Gurugram authority in damage control mode

SUMEDHA SHARMA
TRIBUNE NEWS SERVICE

GURUGRAM, AUGUST 12

As the year-long efforts of the Gurugram Metropolitan Development Authority (GMDA) failed to prevent flooding and waterlogging in the city, the body held an urgent inter-department meeting today to exercise damage control in Gurugram.

According to GMDA officials, the meeting was aimed at deliberating on a broad and long-term comprehensive development plan for enhanced flood preparedness during the monsoon season. While the entire city is up against the civic authorities for the mess, GMDA officials claim that they managed to bring down flood-prone points from 79 in 2020 to only 16 in 2024.

"The GMDA has analysed satellite data collated over a period of five years to identify and map the low-lying and potential waterlogging-prone areas in the Gurgaon-Manesar Urban Complex region. Out of the 79 vulnerable spots along GMDA master roads in 2020, remedial measures and work of laying adequate infrastructure have been taken up by the authority at 63 such locations to provide relief during heavy rainfall," said GMDA CEO A Sreenivas.

"We will also identify additional new hotspots, where waterlogging has been reported this year. These will be shared with the respective departments. A



Vehicles on the waterlogged Delhi-Gurugram Expressway after heavy rain in Gurugram on Monday. PTI

'GMDA ANALYSED DATA TO MAP LOW-LYING AREAS'

- GMDA CEO A Sreenivas said the GMDA had analysed satellite data collated over a period of five years to identify and map the low-lying and potential waterlogging-prone areas in the Gurgaon-Manesar Urban Complex region.
- Out of the 79 vulnerable spots along GMDA master roads in 2020, remedial measures and work of laying adequate infrastructure had been taken up by the authority at 63 such locations to provide relief during heavy rainfall, he added.

committee will be formed to chalk out a cohesive and long-term comprehensive plan to equip the city with adequate and efficient drainage and mitigate urban flooding," he said.

The GMDA authorities directed the Municipal Cor-

porations of Gurugram and Manesar to closely examine their existing drainage network and expedite the work in areas where the drainage infrastructure was being built. Additionally, they have been asked to ensure that the internal drains are connected

with the master drain of the GMDA so that the stormwater within the sectors is channelised into master drains.

Officials of the National Highways Authority of India (NHAI) were asked to submit the complete structure of their existing drain network and its connectivity with the GMDA master drainage. The GMDA team will carry out an inspection to the check the functionality of the NHAI drains and ensure that these are properly linked with the authority's existing master stormwater drains, Leg 1, L2 and L3.

According to GMDA officials, the check dams developed by the body across different creeks located in the Aravallis have been instrumental in holding rainwater and thereby preventing flooding of Golf Course Road, and they were asked to build more structures to arrest the flow.

The Urban Environment Division has been asked to ensure that all new green belts are built lower than the level of the main carriageway to support rainwater retention during the heavy monsoon season.

After June deficit, August logs 28% excess rain within 2 weeks

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NEW DELHI: Unusually active monsoon this month has pushed the total monsoon rainfall to a 6% excess since June 1, data from India Meteorological Department (IMD) showed. In the first 12 days of the month, August has recorded 28% excess rain, with the copious amounts of rain leaving parts of northwest India, including Delhi-NCR, flooded.

Heavy rainfall is likely to continue over Rajasthan, Uttar Pradesh, east and northeast India over the next seven days, IMD has warned, adding that isolated heavy to very heavy rainfall is also very likely over Kerala, Tamil Nadu, South Interior Karnataka and Rayalaseema during next five days.

In August, there is 55.7% excess rain over northwest India; 46.8% excess over east and northeast India; 13.1% excess over central India and 2.7% excess over the southern peninsula. July saw 9% excess rain while June recorded a 11% deficiency.

Experts attributed the excess rain to multiple weather systems running concurrently.

"There are multiple weather systems at play. There are two cyclonic circulations currently — one over northeast Rajasthan and another over southeast Uttar Pradesh. The monsoon trough is over the Indo-Gangetic Plains region. It is very active. The trough is likely to remain over the same area for next 4-5 days. So, there will be more rain this week. We are not expecting break monsoon in the next week. Rainfall has picked up in August also because ENSO neutral conditions have set in which is supporting monsoon," said Mahesh Palawat, vice president, climate and meteorology at Symet Weather.

Meanwhile, latest model outputs indicate that transition to La Nina may be delayed. IMD's Monsoon Mission Climate Forecast System (MMCFS) indicated that La Nina conditions are likely to develop during second half of the monsoon season. US's National Oceanic and Atmospheric Administration issued a La Nina watch in May, indicating that La Nina conditions are

SO FAR, AUGUST HAS SEEN 55.7% EXCESS RAIN OVER NORTHWEST INDIA, 46.8% OVER EAST AND NORTHEAST INDIA, 13.1% OVER CENTRAL INDIA AND 2.7% EXCESS OVER SOUTHERN PENINSULA

expected to be established soon. The La Nina watch issued last week said La Niña could form as early as June-August.

Indian National Centre for Ocean Information Services (INCOIS) said on August 5 that the sea surface temperature anomaly signature in the eastern and Central Pacific shows the near-neutral ENSO condition continued in July as well.

"The probability for the Pacific Ocean to remain in ENSO neutral condition is high until October. From November to January, the probabilities for the neutral conditions to continue or La Nina events to develop are almost equal (45-60%). The probability for the Pacific to remain in ENSO neutral conditions is high from February to April 2025," INCOIS said.

"La Nina has not really developed in full swing.... It is getting delayed but may develop towards the end of monsoon. Because of this monsoon will be active in September also," said M Rajeevan, former secretary, ministry of earth sciences and climate scientist.

The term El Nino refers to the large-scale ocean-atmosphere climate phenomenon linked to a periodic warming in sea-surface temperatures across the central and east-central equatorial Pacific. El Nino represents the warm phase of the El Nino/Southern Oscillation (ENSO) cycle while La Nina is just the opposite. La Nina refers to the periodic cooling of ocean surface temperatures in the central and east-central equatorial Pacific that occurs every 3 to 5 years or so. These phenomena are a part of natural climate variability but have an impact on rainfall and temperatures globally.



Vehicles pass through a waterlogged Sikar Road following heavy rain in Jaipur on Monday.

23 killed as relentless rainfall wreaks havoc in three states

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JAIPUR/DEHRADUN/LUCKNOW:

At least 23 people were killed in rain-related incidents in the last 24 hours across Rajasthan, Uttar Pradesh and Uttarakhand as relentless heavy monsoon showers wreaked havoc in different parts of the country, especially northern and north-western India, on Monday.

Heavy rains, according to officials in the three states, led to severe flooding, swelling of rivers and other water bodies, and landslides, bringing normal life to a screeching halt. Of the 23 casualties in rain-related incidents, 12 people were killed in Uttar Pradesh, eight in Rajasthan and three in Uttarakhand in the last 24 hours, officials said.

According to the UP relief commissioner's office, four people died due to drowning in overflowing water bodies, four killed due to snakebites, three died after being struck by lightning, and one person was killed due to heavy rainfall in Banda district.

Isolated moderate to heavy rain

12 PEOPLE WERE KILLED IN U.P., 8 IN RAJASTHAN AND THREE PEOPLE IN UTTARAKHAND IN RAIN-RELATED INCIDENTS IN THE LAST 24 HOURS

was reported in several areas, exacerbating flood situation, especially in Basti and Farrukhabad districts. According to the IMD, Sultanpur district logged the maximum 51.6 mm of rainfall in the 24 hours ending at 8.30 am on Monday. "Most areas are under control and relief measures have been deployed. However, there are a few areas where roads in and out of villages have become inaccessible due to floods," relief commissioner GS Naveen Kumar said.

In Rajasthan, disaster management authorities confirmed at least eight deaths, including five men drowning in the Kanota dam and two others in Galta lake in Jaipur, in the last 24 hours following incessant rains. A 30-year-old man

in Dausa was also killed on Monday after being washed away by the Moroli dam, officials said.

The weather office, meanwhile, has predicted heavy rainfall for next 4-5 days, especially in eastern Rajasthan. Schools remained shut in Jaipur, Savai Madhopur, Bharatpur, Dausa and Karauli districts following predictions of heavy rainfall.

In Uttarakhand, three people were killed in rain-related incidents while as many were feared missing after they were swept away in water bodies following heavy rainfall in various parts of the hill state.

In Uttarkashi district, a vehicle was crushed under a boulder near Radi Top leading to the death of a 54-year-old man. In Bageshwar, a woman was swept away in the local rain-fed Pahadi Pani drainage near Garud on Sunday and her body was found two km downstream, police said. A 10-year-old boy, Amarjeet, was swept away by the swollen Gaula river in Haridwar on Sunday evening and his body was recovered 5 km downstream in Goda Padav area, Nainital district officials said.

Why Mayur Vihar Is Getting More Rain

'Variance Depends On Local Factors, Including Green Cover, Urbanisation'

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Anindya Chattopadhyay

New Delhi: On Monday, until 8.30 am, SPS Mayur Vihar in east Delhi recorded 58 mm of rainfall, while Safdarjung, the city's base weather station, received 29.8 mm. This isn't the first time Mayur Vihar has recorded more rainfall than other stations this monsoon season. Met officials attributed the variation in rainfall intensity to local factors and weather systems.

From 2.30 pm to 8.30 pm on Saturday, SPS Mayur Vihar reported heavy rainfall of 66 mm, making it the only station to receive significant rain that day. In contrast, Safdarjung recorded just 16.8 mm during the same period. On Aug 1, Mayur Vihar logged a maximum rainfall of 147.5 mm, with 142 mm falling in six hours, including 89.5 mm within a single hour. India Meteorological Department (IMD) categorised this as 'extremely intense' showers. Meanwhile, Safdarjung recorded 107.6 mm of rainfall over nine hours on the



MONSOON METER: Many areas in the city received sporadic rain on Monday

same day.

Met officials noted that Mayur Vihar has been receiving more rainfall than other stations due to local factors, including the position of the monsoon trough and cyclonic circulation.

RK Jenamani, a senior

scientist at IMD, said, "The distribution of rainfall varies depending on factors like the location of the monsoon trough and the direction of cyclonic circulation. Areas closest to the monsoon trough receive more rainfall. Local topography also plays an

important role."

Another Met official highlighted that rainfall distribution varies depending on atmospheric and geographical conditions. "Local factors, including urbanisation and green cover, influence rainfall patterns. Open spaces

with green cover are likely to receive more rain than highly concretised areas. Mayur Vihar is relatively greener and closer to the Yamuna," the official said.

On July 26, the Ridge observatory in north Delhi and Delhi University saw heavy precipitation of 99 mm and 93.5 mm, respectively, while Safdarjung recorded moderate rainfall of 39.4 mm.

A similar variation in rainfall was observed on July 28 when Pusa received 58 mm of rainfall, while Safdarjung recorded none. The intense rainfall in Pusa led to flooding in nearby areas, and three students died after being trapped in the flooded basement of a coaching centre in Old Rajender Nagar.

IMD director general M Mohapatra told **TOI** on July 29 that this wasn't a localised weather event. "Convective cloud cells were moving across the city, causing different intensities of rain at different times in various areas. We cannot call the rain at Pusa a local activity. It was monsoon rain," Mohapatra said.

Rain disrupts HP life: 197 roads closed; water, power supply hit

Vehicle With 12 Washed Away, 1 Rescued

TIMES NEWS NETWORK

Kullu: Around 197 roads were closed, many areas plunged into darkness, and water supply schemes hit in Himachal Pradesh on Monday, as rains continue to lash the state through the day.

According to state emergency operation centre (SE-OC), heavy rains and landslides forced 66 roads to stay closed in Shimla district, 58 roads in Sirmaur district, 33 in Mandi, 26 in Kullu, five in Lahaul-Spiti, apart from some more in Kinnaur.

Many areas plunged into darkness, as 211 distribution transformers regions (DTRs) were disrupted on Monday, with highest 118 DTRs reported in Una, which saw heavy rainfall and flash floods on Sunday. In all, 143 water supply schemes were affected throughout the state.

Chandigarh-Manali highway was reopened at 9 Mile in



Rescue teams are working on evacuating people from flooded areas in Rajasthan and provide them with food, water and medical aid

Mandi, but only one-way traffic was allowed, as landslide debris made it difficult to run traffic on both lanes.

Apoorv Devgan, deputy commissioner of Mandi, said keeping highway open at 9 Mile has become a challenge. "Heavy rains are causing frequent landslides there. We deployed workforce, through the day and night, to ensure the highway remains open. The district has suffered a loss of around Rs 160 crore during this monsoon," Devgan said.

According to officials, a stretch of the highway near

Pandoh started caving in and NHAI officials inspected it on Monday.

In Kinnaur, another landslide at Nigulsari blocked NH-5 on Monday, apart from five other roads in district.

Shimla Met office said the state received a total rainfall of 14.3mm on Monday, against the normal of 9.3mm. In the past 24 hours, Una recorded the highest rainfall at 94.5mm and Kullu the lowest rainfall at 5mm.

An SUV with 12 passengers was washed away on Una-Punjab border in Una's

Rain-related Raj incidents kill 20

Necessant showers, especially in Jaipur and Bharatpur, have caused 20 deaths in rain-related incidents in Rajasthan since Sunday. On Monday, two cousins from Sawai Madhopur drowned in Galta Kund in Jaipur. Rainfall ranging from 100mm to 258mm was recorded in Dausa, Karauli and Sawai Madhopur districts. Heavy rains have disrupted normal life, with waterlogging at many places and low-lying areas inundated. Rescue teams are working round the clock to evacuate people from flooded areas and provide them with food, water and medical aid. Met department has issued a red alert for Jaipur, Karauli and Sawai Madhopur districts, where heavy to extremely heavy rainfall is expected in the next 24 hours. TNN

flash flood on Sunday. While nine bodies were recovered, one person was rescued and two are still missing.

Deputy CM Mukesh Agnihotri visited flood-affected areas of Una on Monday.

आज बादल छाए रहेंगे, हल्की बारिश की संभावना, गर्मी से रहेगी राहत स्वतंत्रता दिवस के जश्न में खलल डाल सकता है मौसम, बारिश का येलो अलर्ट

Anindya Chattopadhyay

■ विशेष संवाददाता, नई दिल्ली

बीते कुछ दिनों से बारिश का दौर बना हुआ है। कभी बौछारे कभी रिमझिम के रूप में बारिश आ रही है। बादल भी छाए हुए हैं। उमस वाली गर्मी से राहत है। पूर्वानुमान के अनुसार अब मंगलवार को बारिश हल्की रहेगी। इसके बाद 14 से 16 अगस्त तक मध्यम बारिश को लेकर येलो अलर्ट है। बारिश स्वतंत्रता दिवस के भव्य समारोह में कुछ खलल डाल सकती है।

■ 14 से 16 अगस्त तक येलो अलर्ट जारी किया गया है, 17 और 18 अगस्त को बारिश फिर हल्की पड़ जाएगी

■ सोमवार को अधिकतम तापमान महज 31.6 डिग्री रहा। न्यूनतम तापमान 24.8 डिग्री रहा। पूर्वानुमान के अनुसार मंगलवार को बादल छाए रहेंगे। हल्की बारिश की संभावना है। अधिकतम तापमान 33 और न्यूनतम तापमान 26 डिग्री तक रह सकता है। इसके बाद 14 से 16 अगस्त तक येलो अलर्ट जारी किया गया है। बादल छाए रहेंगे। हल्की से मध्यम बारिश के साथ बिजली चमक सकती है। अधिकतम तापमान 31 से 32 डिग्री के आसपास रहेगा। वहीं न्यूनतम तापमान 26 से 27 डिग्री तक रह सकता है। इसके बाद 17 और 18 अगस्त को बारिश फिर हल्की पड़ जाएगी।

■ स्काईमेट के अनुसार 78वां स्वतंत्रता दिवस नजदीक है, आसार पूरे बने हुए हैं कि इस बार बारिश स्वतंत्रता दिवस के भव्य समारोह में कुछ खलल डाल सकती है। बारिश छह से सात दिन जारी रहेगी। इस हफ्ते के बीच में बारिश की तीव्रता बढ़ने की संभावना है।

■ रिहर्सल से सेंट्रल दिल्ली में सुबह ट्रैफिक रहेगा डिस्टर्ब

स्वतंत्रता दिवस समारोह की आज रिहर्सल होगी। इसके लिए ठीक वैसे ही सुरक्षा इंतजाम किए जाएंगे, जैसे 15 अगस्त के दिन होंगे। नई दिल्ली, सेंट्रल और नॉर्थ दिल्ली के कुछ इलाकों में ट्रैफिक को डायवर्ट किया जाएगा। सुरक्षा और ट्रैफिक के बंदोबस्त आज तड़के 4 बजे से लेकर सुबह 10 बजे तक लागू रहेंगे। आईटीओ, दरियागंज, राजघाट, छाता रेल, एच.सी. सेन मार्ग, एसपी मुखर्जी मार्ग, एस्प्लेनेड रोड, नेताजी सुभाष मार्ग, लोठियान रोड, चांदनी चौक, रिग रोड बायपास और रिग रोड पर राजघाट से आईएसबीटी कश्मीरी गेट के बीच ट्रैफिक डायवर्जन रहेगा।



बारिश से सड़कें लबालब: सोमवार सुबह से शाम तक रुक-रुक कर हुई बरसात के कारण कई जगहों पर जलभराव हो गया। लोगों को आने-जाने में परेशानी हुई। वहीं, कई जगह पेड़ टूटने की भी घटनाएं हुईं

ढाई महीने में हुई पूरे मौसून की बारिश

■ विस, नई दिल्ली: पूरे मौसून के दौरान होने वाली बारिश राजधानी में महज ढाई महीने में हो गई है। इसमें भी 70 प्रतिशत से अधिक बारिश पांच दिनों के दौरान हुई है। एक्सपर्ट्स के अनुसार, बारिश का यह ट्रेंड राजधानी के लिए अच्छा नहीं है। एक जून से 30 सितंबर तक होने वाली बारिश को मौसून की बारिश कहा जाता है। इन चार महीनों में राजधानी में पूरे साल की करीब 70 प्रतिशत बारिश होती है। इस दौरान सामान्य तौर पर राजधानी में 640 एमएम बारिश होती है। इस बार 1 जून से अब तक 648.8 एमएम बारिश हो चुकी है। जून में 243.4 एमएम, जुलाई में 203.7 एमएम और अगस्त में 200.7 एमएम बारिश हो चुकी है।

■ 70% से अधिक बारिश पांच दिनों के दौरान

स्काईमेट के महेश पलावत ने बताया कि पिछले कुछ मौसून से बारिश तो सामान्य हो रही है, लेकिन बारिश के दिनों में कमी आ रही है। इससे बारिश का आंकड़ा तो सामान्य रहता है, लेकिन बारिश का फायदा नहीं मिल पाता।



यमुना का जलस्तर तेजी से बढ़ा

यमुना के जलस्तर में अब तेजी से बढ़ोतरी हो रही है। सोमवार शाम 4 बजे जलस्तर 203.5 मीटर रेकॉर्ड किया गया, जो चेतावनी स्तर से एक मीटर कम है। हथिनी कुंड बैराज से हर घंटे 21 हजार क्यूसेक पानी छोड़ा जा रहा है। सिंचाई व बाढ़ नियंत्रण विभाग के अफसरों के अनुसार हथिनी कुंड बैराज से पिछले तीन दिनों से लगातार अधिक पानी छोड़ा जा रहा है, जिससे यमुना का जलस्तर तेजी से बढ़ा रहा है। सोमवार शाम 4 बजे तक जलस्तर बढ़कर 203.5 मीटर हो गया था। जो चेतावनी लेवल से महज एक मीटर ही कम है।

बारिश से कई जगह जलभराव

सोमवार सुबह से शाम तक रुक-रुक कर हुई बरसात के कारण कई जगहों पर जलभराव हो गया। वहीं, कई जगह पेड़ टूटने की भी घटना हुई। एमसीडी का दावा है कि कॉल मिलने के तुरंत बाद पानी निकासी के साथ-साथ पेड़ों को हटाने का काम भी शुरू कर दिया गया। कमला मार्केट अजमेरी गेट, गुप्ता कॉलोनी विजय विहार, दीप विहार, सेक्टर-24 रोहिणी, किराड़ी सुलेमान नगर, नांगलोई गांव, प्रेम नगर पार्ट-2 किराड़ी, रामा पार्क रोड, मोहन गार्डन उत्तम नगर, दीप विहार रोहिणी सेक्टर-24, मायापुरी इंडस्ट्रियल एरिया समेत कई जगह जलभराव हुआ।