

भारत सरकार
Government of India
केन्द्रीय जल आयोग
Central Water Commission
बाढ़ पूर्वानुमान प्रबोधन निदेशालय
Flood Forecast Monitoring Directorate
Tele/ Fax: 011-26106523, 26105274 e-mail : fnote@c.inffnwc@mail.com

दूसरा तल, दूसरा विंग (दक्षिण), पश्चिमी खण्ड-2,
रामाकृष्ण पुरम, नई दिल्ली-110066

30.6.19, 1.7.19 & 2.7.19

विषय : दिनांक की समाचार की कतरन (News Clippings) प्रस्तुत करने के सम्बन्ध में ।

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

संलग्न : उपरोक्तानुसार

Shiv
21/7/19
(सहायक निदेशक)

उपनिदेशक

निदेशक (बा.प.प्र.)

कृपया केन्द्रीय जल आयोग की वेब साईट पर अपलोड करने की व्यवस्था करें ।

निदेशक (तकनीकी प्रलेखन)

दिनांक 30.6.19 को निम्नलिखित समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धी समाचार

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नवभारत टाइम्स (दिल्ली)
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The Assam Tribune (Guwahati)
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The Deccan Herald (Bengaluru)
The Deccan Chronicle (Hyderabad)
Central Chronicle (Bhopal)

Monsoon covers ground: City gets 97% of June rain in 2 days

Time of India 30-6-19

Pic: Reuters

FORECAST: SHOWERS LESS INTENSE TODAY

IMD'S RAINFALL RECORD

(From 8.30am Friday to 8.30am Saturday)

Colaba | 81.2mm

Santa Cruz | 234.8mm

Thane | 237.49mm

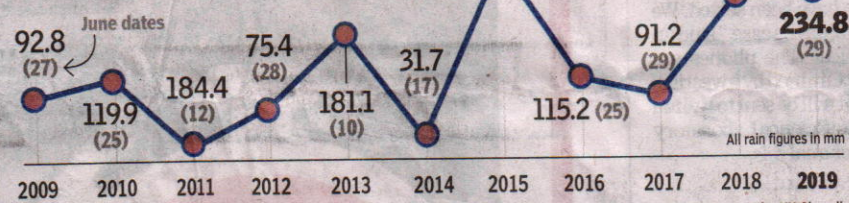
Navi Mumbai | 245.2mm

(From 8.30am to 8.30pm on Saturday)

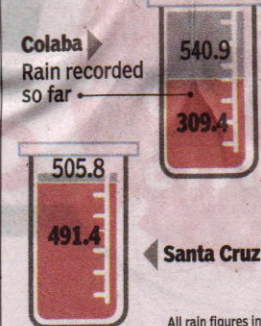
Colaba | 46.8mm
Santa Cruz | 69.2mm

SECOND HIGHEST 24-HR JUNE RAIN IN A DECADE

ALL TIME JUNE RAIN RECORD:
399mm (June 10, 1991)



AVG RAIN REQUIRED IN JUNE



SION-KOLIWADA



BELAPUR

IT POURED 200MM+ IN THESE AREAS IN 24 HOURS

Rainfall that is greater than or equal to 204.5mm is categorized as extremely heavy

Vikhroli	278.6
Andheri	243.9
Bhandup	242.6
Marol	236.2
Kandivli	230.3
Kurla	211.6
Wadala	209.26
Chincholi	208.5
Mulund	204
Dindoshi	200.12
Chembur	200.9

(Data from BMC's weather stns; figures in mm)

Richa.Pinto@timesgroup.com

Mumbai: The much-delayed monsoon arrived with a bang, toppling some records and covering 97% of the average required June rainfall in two days.

In 24 hours ending Saturday 8.30am, the Santacruz observatory of the India Meteorological Department (IMD) recorded 234.8mm—highest 24-hour June rain since 2015. On June 19, 2015, Mumbai received 283.4mm rainfall. Also, it is the second highest rainfall recorded in Mumbai in a 24-hour period in the last decade. According to IMD, rain greater or equal to 204.5mm is extremely heavy.

Heavy showers lashed the neighbouring areas of Thane

and Navi Mumbai too in the same period with Thane recording 237.5mm rain while Navi Mumbai witnessing 245.2mm.

The 234.8mm rainfall received in a single day (24 hours) was almost 46% of the required June rainfall of 505mm. Since monsoon onset on Tuesday, it has already rained 97% (491.4mm) of the required June rainfall (see graphic). On Saturday, the rain recorded till evening at Santa Cruz was 69.2mm, which is in heavy rain category, while Colaba recorded 51.9mm.

While the rainfall refused to subside the entire of Saturday, keeping Mumbaikars mostly indoors, its intensity may reduce on Sunday, according to IMD forecast. The IMD has lowered

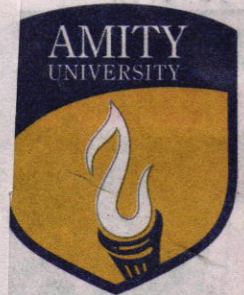
its heavy rain warnings. From "heavy rains" on Saturday, the IMD said on Sunday "heavy rain is likely at isolated places in city and suburbs". "While the intensity of rainfall is expected to reduce, the cloudy weather with intermittent showers as well as strong winds are likely. We warned fishermen about the gusty winds," said KSHosalkar, deputy director general (meteorology), Regional India Meteorological Department.

"Over the west coast, monsoon has been vigorous. We are not referring to it as active as that is one step below vigorous. There were two reasons for the sustained rainfall: One is strengthening of westerly winds, whose depth was very

high. If you see the radar images, the westerly winds were at a lower level but now, they are almost 3km high. Secondly, there is a cyclonic circulation near south of Gujarat," he added.

Next week, the IMD is expecting enhanced rain in the interior of the state from July 2 to July 6 as a low pressure system will form over Bay of Bengal.

Private forecasting agency Skymet has forecast another heavy spell around July 4, when low pressure forms over the Bay of Bengal. "On July 2 and 3, Vidarbha and Marathwada may get heavy rain and on July 4, the intensity will increase over Mumbai," said Mahesh Palawat, vice-president, meteorology & climate change, Skymet.



BLUE-CHIP INC

ZYCUS

upgemin

दिनांक 2.7.19 को निम्नलिखित समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धी समाचार

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Central Chronical (Bhopal)

Rain brings Mumbai to its knees

HAVOC A search was launched for a man who fell into a drain as walls collapsed and traffic crawled on waterlogged roads

HT Correspondent
letters@hindustantimes.com

MUMBAI: Heavy rain lashed Mumbai since Monday morning after a brief break on Sunday, leaving 18 spots waterlogged and causing traffic snarls for hours at highways, civic body officials said.

The Brihanmumbai Municipal Corporation (BMC) said the city received about 85% of the entire month's rainfall in just four days.

Most waterlogged spots were reported in western suburbs' Akurdi Mall, Jogeshwari, Natraj Market-Malad and Andheri market, officials said.

Due to heavy rains, a man reportedly fell into a drain near Vikroli Park site. Search for the unidentified man went on till late evening.

Rain also affected movement of pedestrians. Citizens took to twitter to complain about inaccessible skywalk at Bandra, which forced pedestrians to use the pothole-riddled road under the skywalk.

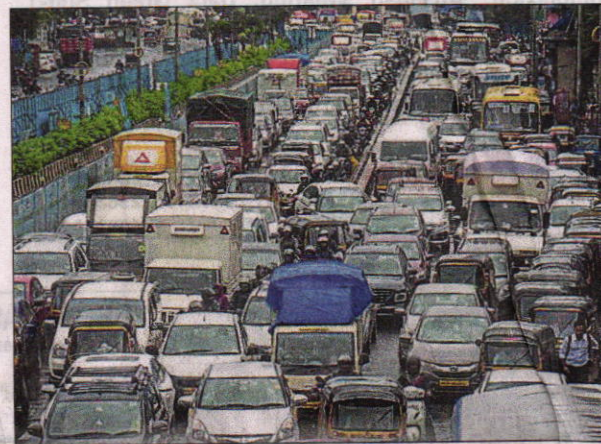
Prashant Gaikwad, K West ward officer, said, "Two pumps of 250 cubic metre per hour were in operation. However the water gushed in with force and so we

had to shut the subway."

Vidyadhar Khandkar, chief engineer of the stormwater drains (SWD) department, said, "The Mogra nullah which needs a cross section of 15 square metres is only 5 square metres now which is why the water enters Andheri area. We have now revived this project and hopefully in the next few monsoons the situation will get better." Deputy municipal commissioner Chandrashekar Chore said, "The city received 85% of June rains in four days. Also at Sion when we tried to de-water the pumps, trash and plastic choked the pumps which is why the water could not be pumped out at the expected speed. The BMC is working to control the situation and our entire manpower is on toes." Chore said nine teams from the Navy and six flood rescue teams from the fire brigade have been kept on standby.

Civic chief Praveen Pardeshi said, "Despite heavy downpour, BMC was able to manage to run all the locals and BEST buses without any calamity."

A wall of around 20 feet of Lodha Aria residential society collapsed around 10.30 am, but there were no injuries.



■ (From Top) People walk on the railway tracks as heavy monsoon showers hit local train services near Sion in Mumbai on Monday; traffic jam on the Jogeshwari-Vikhroli Link Road due to the rain.

PHOTOS: KUNAL PATIL AND PRATIK CHARGE/HT

Flood-like situation in Gujarat's Valsad after incessant rain

HT Correspondent
letters@hindustantimes.com

AHMEDABAD: A couple of areas in southern Gujarat faced flood like situation following heavy rainfall since Sunday evening.

District administration has been keeping rescue teams on stand-by, especially in Valsad district that recorded 357 mm by Monday afternoon, said the state emergency response cell.

The industrial town of Vapi received 336 mm rains, resulting in flood like situation. Orsang and Par rivers are in spate.

"The rivers have not hit the danger mark yet," said Valsad collector CR Kharsan.

The national highway connecting Mumbai to Surat was under water on some stretches, causing traffic snarls. Several trains between Mumbai and Surat were also running late Monday.

The India Meteorological Department (IMD), Gujarat office has forecast heavy rain for next 48 hours in Gujarat.

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Rains pummel north K'taka districts; rivers regain glory

Overnight rain in Gadag, Hubballi & Dharwad; farmers relieved

BENGALURU: Monsoon continued to pummel several parts of North Karnataka for the third day on Sunday.

Malaprabha and Mahadayi rivers in Belagavi district have regained their glory. River Malaprabha is in full flow near Anjaneya temple in Jamoti forests of Khanapur taluk. The temple is marooned by the river. An under-construction bridge near Sangollirayanna tank in Nandagad was washed away by high water current.

Water gushed into out-patient department in the district hospital. Rainwater entered into several houses in Maruthi Nagar and Kangrali putting residents into trouble.

There has been widespread rain in Gadag district for the past two days. The intermittent rain brought the mercury to 26 degrees Celsius in Gadag-Betageri towns. Roads wore a deserted look as people



A house partially collapsed near Bankapura Square in Hubballi as heavy rain lashed the city since Saturday night.

did not venture out in the rain. Business too had come down. Most of the roads in the town have been dug for various projects thus turning the roads into a slushy field. Motorists and pedestrians had a tough time in navigating the slush-filled roads.

However, the rain has come as a silver lining for the fam-

ing community. After the last week's rain, farmers had sown onion, groundnut, Bt cotton and jowar. Sunday's rain has increased humidity in the soil, which is conducive for sprouting of the crops.

Damabal, Mulgund, Nargund, Shirahatti, Ron, Holealur, Mundaragi and Gajendragad received rain since

Saturday morning till Sunday night.

Monsoon is in full glory in Dharwad with the district receiving rains for the last three days. There was no respite from the downpour on Sunday also.

Several roads in Dharwad were waterlogged due to incessant rain. Water had accumulated on the road near Tollnaka on the busy Hubballi-Dharwad road. The personnel of Hubballi Dharwad Mahanagara Palike used pumps to drain the water. Compound walls of two houses collapsed in Bammapura square of Hubballi. An auto was damaged after a tree fell on it.

Davangere district received good rain late on Saturday night and Sunday. Most parts of Channagiri taluk in the district have been receiving rain for the past two days accelerating agricultural activities. However, there was only drizzle in

parts of Chitradurga district.

Most parts of Ballari district received rain for the whole day on Sunday. Since there is no rain in the catchment areas, there has been no inflow into Tungabhadra reservoir. Karwar in Uttara Kannada district received heavy rain since Saturday night till Sunday morning. The India Meteorological Department has asked fishermen to be careful as wind at a speed of 40 to 50 kmph is likely to blow in the coastal areas on Monday.

The inflow into River Tunga in Shivamogga district has increased since Saturday night. The district received copious rain on Sunday also.

Thirthahalli recorded a rainfall of 62.44 mm, Hosanagar 41.60 mm, Sorab 22 mm and Shivamogga 18.60 mm. There was moderate rain in Kodagu and Chikkamagaluru districts.

DH News Service

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3 days helped make up for entire June, but no. of wet days declining: experts

Richa.Pinto@timesgroup.com

Mumbai: With heavy rains for the third consecutive day on Sunday, Mumbai surpassed its required June rainfall by recording 515.1mm of rain—10.1mm above normal. According to India Meteorological Department (IMD) data, nearly 64.9% (327.7mm) of rain required in the month of June (505mm) was received in the last three days. But, experts warned, averaging monthly rainfall by using data of only two-three downpour days could be misleading.

"Any crop pattern used by farmers in our country is not dependent on one or two days of rain, but rainfall received over a period of time. So, such averaging done sometimes could be very misleading," said Dr Rakesh Kumar, scientist and director, National Environment Engineering Research Institute (NEERI). "A few years ago, we had done data analysis for climate change related impact

Every city has its tolerance limit and even the ground has a certain capacity it can hold. This kind of rainfall is also very dangerous for agriculture as everything gets washed off. Instead we need proper rain distribution

Akshay Deoras | METEOROLOGIST

and taken 20-25 years of rain data and looked at the number of rainy days. We found that the number of rain days are actually declining."

Akshay Deoras, meteorologist and PhD researcher at department of Meteorology, University of Reading, UK, concurred that the total rainfall received figures only look good statistically. "Prior to Friday's showers, the rain deficit for Mumbai was too high (over 200mm)," he said. "But then owing to the kind of rain the city received, the rainfall accumulation was high and this is not good in terms of impact these events create. Every city has its tolerance limit and even the ground has a certain capacity it can hold. This kind of rainfall is also very dangerous for agriculture as everything gets washed off. Instead we need proper rain distribution."

Since monsoon onset on Tu-

WATER STOCK IN LAKES ON JUNE 30

In million litres



Pic: Sanjay Ha

LAKE LEVELS RISE, EXPECT HEAVY RAIN TODAY

RAIN OVER RESERVOIRS (in mm)

Lake	June 27-28	June 28-29	June 29-30
Upper Vaitarna	110	34	20
Modak Sagar	39	119	63
Tansa	41	127	89
Middle Vaitarna	55	102	32
Bhatsa	125	170	74
Vihar	43	376	83
Tulsi	90	293	85

14.47 lakh

million litres is total water stock required in 7 lakes by Sept-end

3,420 million litres of water supplied daily by BMC against actual daily need of 4,200 million litres



MONSOON FORECAST

IMD Heavy rainfall at isolated places in Mumbai, Thane and Palghar on Monday

Private forecaster Skymet Mumbai is at serious risk of flooding between July 3 and 5. Nearly 200mm or more rain per day is going to batter city during this period

JUNE SHOWERS & MUMBAI

Avg rainfall required **505mm**

Sunday rainfall (8.30am-8.30pm)

Colaba 15.8mm
Santacruz 9.2mm

Rain recorded as on June 29-30 (8.30am-8.30am - In mm)

Colaba	78.6
Worli	44.8
Mazagon	72.6
Dadar	38.2
Bandra (W)	42.6
BKC	113
Santacruz	52.8
Andheri (E)	89.2
Goregaon	99.6
Malad	125.6
Kandivli	62
Charkop	43

esday, Mumbai received its first heavy showers on Friday. In the 24 hours ending Saturday 8.30am, ND Santacruz observatory recorded 234.8mm rainfall—the highest 24-hour June rain since 1945 and the second highest in a decade. In the 24 hours ending Sunday 6am, Santacruz recorded 2.9mm rainfall, which falls in the 'heavy rain' category. On Sunday, till 8.30pm, Colaba and Santacruz recorded 15.8mm and 9.2mm rainfall, respectively. Navi Mumbai 163mm and Thane 40mm. While 39 tree/branch collapse complaints were received by BMC's

disaster management cell, there were 10 tree-fall incidents in Navi Mumbai and 14 in Thane.

The IMD has forecast heavy rain showers on Monday. K S Hosalkar, deputy director general (meteorology), Regional IMD, said: "We expect cloudy sky, intermittent heavy showers." Private forecaster Skymet has also given a 'heavy rain' forecast for next week. "Mumbai is at serious risk of flooding between July 3 and 5. Close to 200mm or more rain/day is going to batter the city during this period, which could hamper normal life. July also looks ex-

tremely promising for Mumbai after good rains were observed in the month of June," said Jatin Singh, founder and managing director, Skymet.

On Sunday, the total water stock in the seven lakes rose to 87,648 million litres (6.06%) from 76,833 million litres (5.31%) a day earlier. However, the total water quantum continued to be lower compared to June 30, 2018, when total water stock was 2.94 lakh million litres. Also, Sunday's rainfall was not as much as the previous day, when over 300mm of rainfall was recorded in some lakes.

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A man with a child in a flooded area in Baksa district on Saturday. – UB Photos

Floods hit 6 dists of State

STAFF REPORTER

GUWAHATI, June 29: Over 10,000 people in 36 villages under eight revenue circles of six districts of the State are affected by the first wave of flood during the past 24 hours, said the Assam State Disaster Management Authority (AS-DMA) here this evening.

The affected districts are Dhemaji, Nalbari, Baksa, Barpeta, Jorhat and Dibrugarh where a total crop area of 1,827 hectares has been affected. In two relief camps, one each in Baksa and Jorhat districts, set up by the authorities, 372 flood-hit people are taking shelter.