

भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन नदी विकास एवं गंगा संरक्षण विभाग  
केंद्रीय जल आयोग  
जल प्रणाली अभियांत्रिकी निदेशालय



Government of India  
Ministry of Jal Shakti  
Dept. of Water Resources, RD&GR  
Central Water Commission  
Water System Engineering Directorate

दिनांक: 13-8-2019.

**विषय - समाचार पत्रों की कटिंग का प्रस्तुतीकरण।**

जल संसाधन विकास और संबद्ध विषयों से संबंधित समाचार पत्रों की कटिंग को केंद्रीय जल आयोग के अध्यक्ष और सदस्य (कार्य योजना एवं परियोजना / अभिकल्प एवं अनुसंधान / नदी प्रबंध ) के अवलोकन के लिए संलग्न किया गया है। इन समाचारों की कटिंग की सॉफ्ट कॉपी केन्द्रीय जल आयोग की वेबसाइट पर भी अपलोड की जाएगी।

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वरिष्ठ कलाकार 13-8-19

जल प्रणाली अभियांत्रिकी निदेशालय

संलग्नक: उपरोक्त

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13/08/2019

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सेवा में,

अध्यक्ष, के. ज. आ., नई दिल्ली

सदस्य (कार्य योजना एवं परियोजना/ अभिकल्प एवं अनुसंधान / नदी प्रबंध) और

**जानकारी हेतु** - सभी संबंधित केन्द्रीय जल आयोग की वेबसाइट [www.cwc.gov.in](http://www.cwc.gov.in) पर देखें।



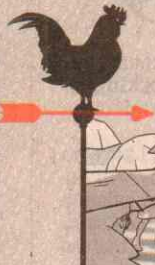


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and documented at WSE Die, CWC.

# Monsoon Watch




**Monsoon's intensity** has moderated after a very vigorous phase

**Total monsoon** rainfall since June 1 is **0.4%** more than average

**Delhi remains** relatively dry with a seasonal rainfall deficit of **39%** since June 1

**Heavy rainfall** continued to lash parts of Maharashtra and Kerala

Rainfall in **84%** of the country's area has been normal or more



## CURRENT WEATHER AND FORECAST



**Heavy rainfall is likely to continue over parts of Kerala and Maharashtra**

**Intensity of rainfall** is likely to reduce over Gujarat

**Most of Karnataka** will receive heavy rainfall

**Heavy rainfall is expected over parts of East India**

**Parts of the Northern and Northeastern states** are likely to see heavy rainfall



13/8



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# Rain subsides, not problems

T-13/8

Kerala death toll 76 | 50 missing | Over 2.8 lakh in relief camps

THIRUVANANTHAPURAM, AUG 12

With rains subsiding in many parts of Kerala, search operations are on in landslide-hit Kavalappara and Puthumala in Malappuram and Wayanad districts, as the toll in the monsoon fury climbed to 76 and 2.87 lakh people have sought refuge in relief camps. The toll is expected to go up as 50 persons are still missing in Malappuram.

There is no 'red alert' of torrential rains for any of the 14 districts on Tuesday, but "orange alert" has been issued for six districts.

An "orange" weather warning means people should "be prepared" and there is an increased likelihood of bad or extreme weather, which may disrupt road and air travel and threaten life and property. The state's northern districts of Malappuram, Wayanad and Kozhikode and Idukki in central Kerala were the worst hit in the torrential rains.

Malappuram was rocked by a series of landslips triggered by heavy rain since August 8 at Kavalappara and Kottakunnu in which 24 persons have died. With the recovery of more bodies, including 24 from Malappuram, 17 from Kozhikode and 12 from Wayanad since August 8, the toll has gone up to 76. In Malappuram, 59,351 persons have



The flooded coastline in the north of Kochi. Many parts of the coastal state remain inundated. PTI

## SHAH BIASED, SKIPPED STATE: CPM

- Stoking a controversy, the CPM politburo on Sunday alleged that Home Minister Amit Shah had "deliberately skipped" aerial survey of the flood-hit areas of Kerala
- "The Home Minister in his aerial survey of flood-hit areas chose to go only to BJP-ruled states of Maharashtra and Karnataka... he deliberately skipped Kerala," it alleged

been lodged in 240 camps.

In neighbouring Wayanad, which was also rocked by a massive landslide at Puthumala, 12 people have lost their lives and seven are still missing. In the 212 relief camps in the district over 35,000 persons have taken shelter, an official release said.

In Kozhikode district, 17 deaths have been reported and over 60,000 persons shifted to 209 camps.

Chief Minister Pinarayi Vijayan on Monday directed district collectors to ensure all necessary facilities for people living in relief camps and sanitation drive is being conduct-

## EID FESTIVITIES DAMPENED

- In the wake of loss to lives and property, the state had a subdued Eid celebration on Monday as a majority of people avoided festivities and focused on relief efforts
- At relief camps in districts like Kozhikode, a Muslim-dominated area, authorities and volunteers prepared biryani for inmates and ensured facilities for them to offer prayers

ed in a proper manner in flood-hit places. Steps should be taken to restore power supply and drinking water distribution in rain-hit areas, he said. According to an India Meteorological Department update, heavy rains are likely in the next two days in southern Kerala. — PTI



Hindustan Times

Statesman

The Times of India (New Delhi)

Indian Express

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# Flood situation grim in southern, western states; 97 dead

SNS & AGENCIES

THIRUVANANTHAPURAM, 10 AUG

Kerala and Karnataka are facing a grim situation on Saturday as floods and landslides triggered by torrential rains left 66 people dead, while over four lakh people have been evacuated in Maharashtra and 19 lost their lives in rain-related incidents in Gujarat.

Forty-two people died in rain-related incidents with 80 landslides in eight districts of Kerala since August 8, Chief Minister Pinarayi Vijayan said.

Many people are still feared trapped under debris following major landslides that hit Kavalappara in Malappuram and Puthumala in Meppadi in Wayanad even as a red alert has been issued in eight districts of Ernakulam,

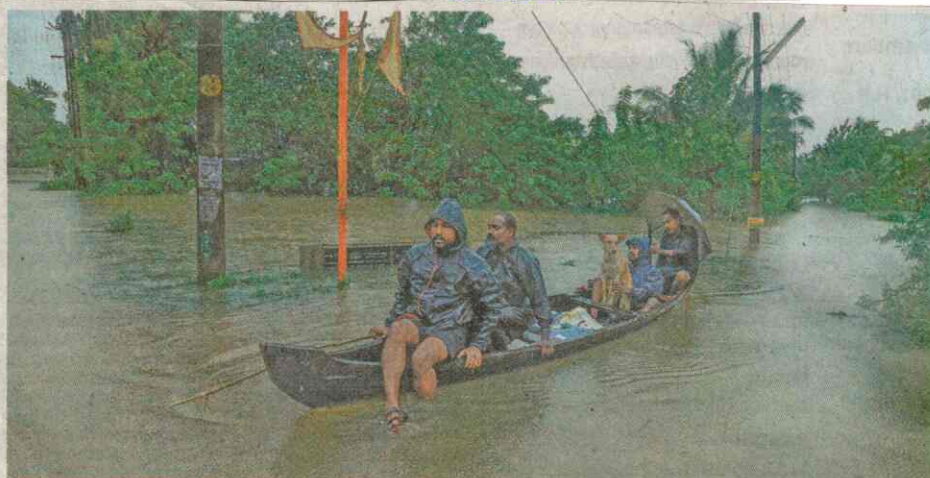
workers of the state," he told reporters in New Delhi.

One of the four shutters of the Banasuragar dam, located about 21 km from Kalpetta in Wayanad was opened at 3 pm to discharge excess water and people on the banks of the Kabini river have been asked to be cautious.

Banasuragar, one of the largest earth dams in India and the second largest of its kind in Asia, impounds the Karamanathodu tributary of the Kabini River.

Several trains have been cancelled and flight operations from the Kochi international airport, which had been suspended following inundation, will resume at noon on Sunday, an airport official said.

Across Kerala, 1,24,464 people have been shifted to 1,111 relief camps, including



Residents are being evacuated from their home to a safer place following floods warnings, on a wooden boat in Kochi in the state of Kerala on Saturday.

AFP

Idukki, Palakkad, Malappuram, Kozhikode, Wayanad, Kannur and Kasargod.

Congress leader Rahul Gandhi said he might visit his

25,0028 in Kozhikode and 24,990 in Wayanad, officials said.

The flood situation worsened in Karnataka too, where the death toll rose to 24 in rain-related incidents.

Chief Minister B S Yediyurappa has termed the natural calamity the "biggest" in 45 years.

The state government pegged the losses caused by rains and floods at Rs 6,000 crore and Yediyurappa revealed that his government has sought Rs 3,000 crore as relief from the Centre.

Landslides were reported near Maranahalli in Sakaleshpur, official sources said.

The entire Pane Mangaluru village in Dakshina Kannada district was inundated by the swollen Netravati river, they said.

Over four lakh people

flood-ravaged constituency of Wayanad on August 11.

"Probably going to Kerala tomorrow. I don't want to disturb the rescue missions

have been moved to safety from the flood-hit parts of Maharashtra so far, including 3.78 lakh from the worst-hit Kolhapur and Sangli districts where the situation showed signs of improvement on Saturday as the water level started receding.

Maharashtra chief minister Devendra Fadnavis reviewed the rescue and relief operations in Sangli on Saturday and interacted with the people. He assured all assistance to them.

Addressing a press conference there later, Fadnavis attributed the flooding to "unprecedented" rainfall during this monsoon, which he said was "more than double" of what was witnessed in 2005, when many parts of the state, including large areas of Mumbai, were submerged.

Three more bodies were recovered in the boat capsized

there. If I go there, I will be there for two days. I have spoken to the prime minister, (Kerala) chief minister, district collector and Congress

incident that took place on Thursday near Brahmanal village in Palus tehsil of Sangli district during the flood rescue operations.

Nine persons had drowned and as many others had gone missing in the incident.

With the recovery of three more bodies, the death toll in the incident has gone up to 12.

In Gujarat, 19 people have been killed in rain-related incidents.

As of Saturday morning, the state received 77.80 per cent of annual average rainfall, according to data by the MeT Department. "Seventeen dams are overflowing. Last year, by the end of monsoon, dams had only 56 per cent water. This year there is 60 per cent water stock in dams already," chief minister Vijay Rupani told reporters.

MORE REPORTS ON PAGE 6



Hindustan Times

Statesman

The Times of India (New Delhi)

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Dainik Jagran

Jansatta



# 'Odisha would get floods due to Polavaram dam'

H-13/8

Approach Supreme Court with detailed survey report, say anti-project leaders

STAFF REPORTER

BERHAMPUR

Recent waterlogging and slow drainage of floodwaters in Motu tehsil of Odisha's Malkangiri district hints at the vagaries this region would face after completion of the Polavaram project in adjoining Andhra Pradesh, alleged anti-Polavaram organisations and leaders of Odisha.

According to Malkangiri district residents, this year

the Saveri river overflowed and flooded large areas of Motu and Kalimela tehsils. The region was similarly flooded in 1986 and 2006. However, then the floodwaters had receded in a day or two after the rain stopped. But this year the water has not receded even after a week. The CPI(M)'s Odisha unit, peasants' organisation All India Kisan Mazdoor Sabha and the People's Forum Against Polavaram have

blamed the flood on the Polavaram project. CPI(M) Odisha secretary Ali Kishor Patnaik demanded that the State government take note of the recent flood situation and on the basis of a detailed survey approach the Supreme Court on the issue.

AIKMS national secretary Bhalachandra Shadangi said, "What was feared in Malkangiri district has happened, but the State government has not come up with any

detailed report on the possible losses in Odisha."

## Chhattisgarh too hit

According to AIKMS, the State Water Resources Department had in July 2018 conducted a survey in the areas to be affected, but the report has not been made public yet. PFAP added that Konta tehsil in Chhattisgarh has also suffered floods this year due to the Polavaram project.

## DATA POINT

H-13/8

## On the dot

India has received an average rainfall of 558 mm in the 2019 monsoon season till Monday. This is neither below nor above the Long Period Average (LPA); in other words, the deviation from normal rainfall is exactly 0%. Considering that the rainfall was 33% deficient at the end of June, the monsoon has intensified rapidly. But, inter-State variations exist. By Vignesh Radhakrishnan

## Inter-district variations

Table shows the % of districts in each State across rainfall categories. For instance, 10% districts in Punjab had "large excess" (LE) rainfall while 40% had "deficient" (D) rainfall

LD: Largely deficient (-60% to -99% of Long Period Average rainfall)

D: Deficient (-20% to -59% of LPA)

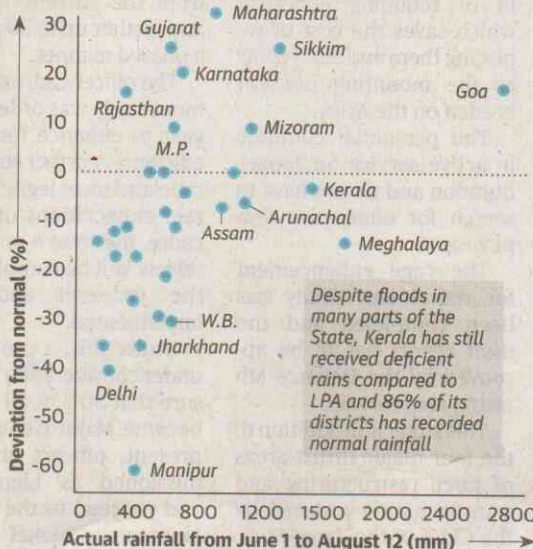
N: Normal rainfall (-19% to +19% of LPA)

E: Excess (+20% to +59% of LPA)

LE: Large excess (>59% of LPA)

## Inter-State variations

Scatterplot charts actual rainfall against % deviation from LPA across States as of Monday. States above the horizontal zero line received more rainfall than usual - the higher they are the more the deviation from normal (LPA). The States below the line received lesser rainfall than usual



Source: IMD

State	LE	E	N	D	LD
Maharashtra	22	22	33	22	0
Karnataka	17	27	37	20	0
Meghalaya	14	29	0	57	0
M.P.	14	25	45	16	0
Mizoram	13	0	50	25	0
Punjab	10	5	45	40	0
Tamil Nadu	9	6	19	44	22
Gujarat	9	45	42	3	0
Rajasthan	9	39	30	21	0
Chhattisgarh	7	15	22	56	0
Arunachal	6	6	50	38	0
J&K	5	18	41	23	5
Assam	4	19	44	30	4
U.P.	1	7	37	51	4
Sikkim	0	25	50	25	0
Telangana	0	13	65	23	0
Bihar	0	11	39	50	0
Nagaland	0	9	18	64	9
A.P.	0	8	62	31	0
Uttarakhand	0	8	15	77	0
Kerala	0	7	86	7	0
Odisha	0	3	53	43	0
Tripura	0	0	100	0	0
Goa	0	0	100	0	0
Himachal	0	0	42	42	17
Jharkhand	0	0	21	75	4
Haryana	0	0	19	71	10
West Bengal	0	0	16	79	5
Manipur	0	0	11	33	56
Delhi	0	0	0	56	11



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# How a project to link rivers has divided BJP-ruled Maharashtra, Gujarat

**SANDEEP ASHAR**  
MUMBAI, AUGUST 12

ON JULY 31, Maharashtra walked out of two river interlinking projects with Gujarat, citing an impasse over the water-sharing arrangement. The central government had earlier identified these projects as priority links. What led to the disagreement between the two BJP-ruled states?

## The river-linking projects

Among the priority river interlinking projects were the Damanganga-Pinjal (DP) and Par-Tapi-Narmada (PTN) links, involving Maharashtra and Gujarat. The other priority links were Ken-Betwa (UP and MP) and Godavari-Cauvery (Andhra and Tamil Nadu).

Maharashtra has now announced that it would develop the DP link on its own, along with four intrastate links. The DP link was planned to augment water supply to Mumbai; the other projects are expected to benefit North Maharashtra and Marathwada.

The interstate interlink project was designed to transfer water from surplus west-flowing river basins to water-stressed distributaries of Godavari in Maharashtra, and Tapi and Narmada in Gujarat. It was conceived in 1980, but took until May 3, 2010 for an MoU to be executed between the Centre and the states to examine techno-economic viability, and prepare a detailed project plan. A separate MoU was to be signed for the execution of the project.

In September 2017, Maharashtra circulated a draft MoU, which the Centre okayed.



The area in Maharashtra, crisscrossed by many small rivers, where the river-linking projects have been planned

However, Gujarat is yet to consent to it.

## The basins of the links

The DP link proposes to tunnel unutilised water from the Bhugad (in Gujarat's Valsad district) and Khargihill (in Maharashtra's Palghar district) reservoirs in the Damanganga basin to Mumbai via the Pinjal river in the Vaitarna basin. Estimated to cost Rs 2,800 crore, it involves the construction of two dams — in Valsad's Kaprada and Palghar's Jawahar — and three gravity-based tunnel links.

The PTN link, estimated to cost Rs 10,211 crore, envisages transfer of surplus flows from the west-flowing Par, Auranga, Ambika, and Purna rivers between the Par and Tapi basins to water-scarce regions in Saurashtra and Kutch, and the Narmada, Chhota Udepur and Panchmahal districts in South Gujarat.

The PTN link involves the construction of six dams: one on the Jheri reservoir across the Par in Nashik, two in Valsad's Dharampur, and three in Dang's Ahwa.

Subsequently, on Maharashtra's request, the Centre included four intrastate links — Nar-Par-Girna, Par-Godavari, Damanganga-Godavari, and Damanganga-Vaitarna — to transfer surplus flows from these rivers into the Godavari and Girna basins to benefit drought-prone Maharashtra regions.

The Centre agreed to fund 90% of the total project cost of the two interstate links.

## The questions of politics

The issue was the compensation for the water contributed from the Maharashtra catchments for the PTN link. About 15.32 thousand million cubic (TMC) feet water

from the Jheri reservoir was proposed to be diverted to Gujarat. But wary of the political opposition to the diversion of the water, the Devendra Fadnavis government demanded that Gujarat should release the same amount of water from the Ukai dam.

Gujarat was initially open to the idea, but resistance from the local tribal population led to a controversy. In the Gujarat Assembly election in 2017, the BJP's tally in water-scarce Saurashtra came down from 35 to 23 seats, which the party's leadership in the state attributed to discontent over water shortages. In 2018, Gujarat conveyed its unwillingness to meet Maharashtra's condition.

With Opposition leaders accusing him of "selling the state's interest to Gujarat", the impasse resulting in time and cost overruns, Fadnavis decided to opt out.



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## Karnataka Oppn leaders write to PM asking for Rs 5,000 cr relief

I. 5. 13/8

**EXPRESS NEWS SERVICE**  
BENGALURU, AUGUST 12

FORMER PRIME Minister HD Deve Gowda and former Karnataka Chief Minister Siddaramaiah on Monday wrote to Prime Minister Narendra Modi demanding the immediate release of Rs 5,000 crore for flood relief and rehabilitation work in the state.

"I request you to release Rs 5,000 crore as interim relief pending final submission by the state government followed by an assessment by a high-level Central team and recommendation of the inter-ministerial committee on disaster management on assessment and quantification of the damage suffered by the state due to flood havoc," Deve Gowda stated in his letter.

"The state government, at present headed by B S Yediyurappa, is preoccupied in flood relief and rescue work and may take a few days to carry out an assessment of the damage. For the present, the total damage can be assessed at Rs 10,000 crore," he added.

The flood situation in the state is aggravated due to the heavy discharge of water from dams of upper riparian states - Maharashtra and Kerala - which resulted in flooding, he said.

Siddaramaiah also made a similar plea in his letter and added that politics over the issue must be avoided. "There should not be any politics in this distress situation. It will be very difficult for BJP CM Yediyurappa to act alone and quite impossible to ensure justice in all the departments. I urge him to immediately form the cabinet and make ministers in-charge for each district," Siddaramaiah said.

As many as 42 people have died across 10 districts in the state since heavy rain began last week. The rains have abated since Sunday leading to a need for an assessment.



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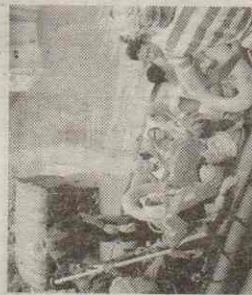
## Govt slammed over pics of CM, MLA on food

**PRESS TRUST OF INDIA**  
MUMBAI, 10 AUGUST

Opposition parties on Saturday accused the BJP-led Maharashtra government of 'shamelessly advertising' itself eyeing upcoming assembly polls, after it emerged that grain bags for flood victims in parts of Sangli district carried stickers with images of Chief Minister Devendra Fadnis and a BJP MLA. These bags containing rice and wheat bear stickers on which photographs of Fadnis and Ichalkaranji MLA Suresh Halvankar are printed with a caption: "free rice and wheat distribution to flood-affected families (August 2019)".

Termining the allegations "false", the MLA said the opposition was levelling them because it is left with no issues in the wake of the government providing "speedy assistance" to the flood-affected people.

Defending the use the stickers, the MLA said the move will help the affected people know that the food grain is being provided to them free of cost on behalf of the government. Senior Congress leader Ashok Chavan said one has to have "some sense" about when and where to "advertise".



with the people. He assured all assistance to them.

Addressing a press conference there later, Fadnis attributed the flooding to "unprecedented" rainfall during this monsoon, which he said was "more than double" of what was witnessed in 2005, when many parts of the state, including large areas of Mumbai, were submerged.

**PRESS TRUST OF INDIA**  
PUNE/MUMBAI, 10 AUGUST

Over four-lakh people have been moved to safety from the flood-hit parts of Maharashtra so far, including 3.78 lakh from the worst-hit Kolhapur and Sangli districts where the situation showed signs of improvement on Saturday as the water level started receding.

According to a statement from the state government, 4,24,333 people have been evacuated and shifted to safer places across the state. A total of 761 villages in 69 talukas in the state were affected by flood.

Chief Minister Devendra Fadnis reviewed the rescue and relief operations in Sangli on Saturday and interacted

Sangli, Kolhapur in Maharashtra limp back, over 4 lakh moved to safety

of area and 484 km of roads have been affected due to floods," Fadnis said, adding that once the water level reduces, priority would be given to restoring and repairing water supply and electricity connections.

While the overall situation, especially in Kolhapur and Sangli, improved slightly on Saturday, the operation to evacuate people from flooded areas and providing relief to them continued.

"There is an improvement in the overall situation. Water is receding, albeit slowly," Abhinav Deshmukh, Kolhapur superintendent of police, said. "Currently the water level in Kolhapur is at 52 feet although the danger level is 47 feet", he added.

ister, a total of 3,78,000 people were evacuated in Kolhapur and Sangli districts.

"As per the preliminary information, crops on 27,468 hectares



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Indian Express	<input type="checkbox"/>	Business Standard	<input type="checkbox"/>	Rajasthan Patrika (Hindi)	<input checked="" type="checkbox"/>
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Pioneer Delhi	<input type="checkbox"/>	Financial Express	<input type="checkbox"/>	Jansatta	<input type="checkbox"/>
Rashtriya Sahara	<input type="checkbox"/>	Dainik Bhaskar			

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# चमोली में फटा बादल, 6 मरे

PK-13/8

देहरादून, (पंजाब केसरी): चमोली जिले के घाट ब्लॉक में सोमवार सुबह आसमान से कहर बरसी। यहां बादल फटने से तीन गांव में हुए भूस्खलन में मलबे में दबने से छह लोगों की मौत हो गई। पहली घटना घाट ब्लॉक के बांजबगड़ गांव में हुई। यहां सोमवार तड़के पांच बजे बादल फट गया। इससे गांव के अब्बल सिंह का मकान मलबे में दब गया। हादसे में घर के अंदर सो रही अब्बल सिंह की पत्नी रूपा देवी (35 वर्ष) व बेटी चंदा (नौ माह) की दबकर मौत हो गई।

वहीं, दूसरी घटना घाट ब्लॉक के आली गांव में हुई। यहां बादल फटने से हुए भूस्खलन से नेनू राम का मकान मलबे में दब गया। इसमें नेनू राम की बेटी नौरती (21 वर्षीय) की दबकर मौत हो गई। तीसरी घटना घाट ब्लॉक के लांखी गांव में हुई। यहां सुबह 8.45 बजे बादल फटने से गांव के शंकर लाल का मकान भूस्खलन की चपेट में आ गया। मलबे में दबकर अजय (23 वर्ष) पुत्र सुरेंद्र लाल, अंजली (8 वर्ष) पुत्री शंकर लाल और आरती (7 वर्ष) पुत्री शंकर लाल की मौत हो गई। सभी मृतकों के शव मलबे से निकाल लिए गए हैं। चमोली जिले में बदरीनाथ हाईवे इन दिनों आल वेदर रोड के निर्माण के दौरान खतरनाक हो गया है। पहाड़ से भूस्खलन का सिलसिला थम नहीं रहा है।

रविवार शाम चमोली के पास कोड़िया में 12 सेकेंड में पहाड़ी का एक हिस्सा कर गिर गया। शुक्र रहा कि इस दौरान हाईवे से गुजर रहे लोगों ने खतरे के आभास के चलते वाहन रोक दिए। इसी दौरान एक राहगीर ने भूस्खलन का वीडियो भी बनाया।

अगले तीन दिनों तक मौसम के मिजाज से लोगों की दुश्चरियां बढ़ सकती हैं। इस अवधि में सात जिलों में भारी बारिश का अलर्ट



चमोली में बादल फटने के बाद पहाड़ों से तेजी से बहकर आता बाढ़ का पानी अपने साथ सबकुछ बहा कर ले गया। ( छाया: प्रेंट)

## बदरीनाथ हाईवे पर आया पहाड़ी से मलबा

बदरीनाथ हाईवे पर सुबह लामबगड़ समेत तीन स्थानों पर बाधित था, दोपहर तक लामबगड़ को छोड़ अन्य दो स्थानों पर इसे सुचारु कर दिया गया। लामबगड़ में हाईवे से मलबा हटाने का काम जारी है। केदारनाथ हाईवे बांसवाड़ा में तीसरे दिन भी बाधित रहा। यहां पहाड़ी से रुक-रुक कर मलबा गिरने का क्रम जारी है। गंगोत्री हाईवे चुंगी बड़ेथी में फिर से बाधित हो गया। तीन रोज बाद बीती शाम यहां यातायात सुचारु हुआ था, सुबह मलबा आने से बंद हो गया। हालांकि केदारनाथ और गंगोत्री हाईवे पर वाहनों को वैकल्पिक रास्तों से गुजारा जा रहा है। बदरीनाथ मार्ग पर लोग लामबगड़ से तकरीबन एक किलोमीटर का पैच पैदल पार कर दूसरी तरफ पहुंच रहे हैं।

जारी किया गया है। राज्य मौसम केंद्र ने जिला प्रशासन को जरूरी कदम उठाने की सलाह दी है। उधर, केदारनाथ हाईवे और बदरीनाथ

हाईवे तीसरे दिन भी सुचारु नहीं हो पाया, जबकि गंगोत्री हाईवे चुंगी बड़ेथी में रविवार को फिर से बाधित हो गया। यमुनोत्री हाईवे

पर यातायात सुचारु है। प्रदेश में लगभग 100 संपर्क मार्ग अवरुद्ध हैं। अधिकांश नदियां खतरे के निशान से कुछ नीचे बह रही हैं।



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Rashtriya Sahara	<input type="checkbox"/>	Dainik Bhaskar	<input type="checkbox"/>		

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# मुख्यमंत्री आज मेटूर जलाशय से छोड़ेंगे पानी

कर्नाटक में बाढ़  
की वजह से तेजी  
से बढ़ रहा  
जलस्तर

पत्रिका न्यूज नेटवर्क  
rajasthanpatrika.com

चेन्नई. राज्य के मुख्यमंत्री एडपाडी के. पलनीस्वामी ने सोमवार को कहा कि कर्नाटक द्वारा लगातार छोड़े जा रहे कावेरी जल की वजह से मेटूर जलाशय का स्तर तेजी से बढ़ रहा है। इसलिए कृषि के लिए मंगलवार को बांध से पानी छोड़ा जाएगा। यहां जारी एक विज्ञप्ति में उन्होंने कहा कावेरी बेसिन में दक्षिण पश्चिमी मानसून की वजह से मेटूर बांध का स्तर तेजी से बढ़ा है। इसके परिणाम स्वरूप जल प्रवाह 2.4 लाख

क्यूसेक रिकार्ड किया गया है और जलस्तर 90 फीट पहुंच चुका है। जलाशय काफी तेजी से भर रहा है। उन्होंने कहा कर्नाटक के जलाशयों से छोड़े जा रहे पानी और किसानों के आग्रह के मद्देनजर धान की फसल के लिए मेटूर बांध से पानी छोड़ने का आदेश दिया गया है।

मेटूर बांध से पानी छोड़ने के बाद डेल्टाई क्षेत्रों के 700 टैंक और तालाब भर जाएंगे। इससे भूजल स्तर भी रिचार्ज होगा और अधिक पेयजल की आपूर्ति सुनिश्चित होगी। उन्होंने किसानों से नहरों और चैकडैमों के पानी का उपयोग करने का आग्रह किया।

उल्लेखनीय है कि हर वर्ष 12 जून को फसल के लिए मेटूर बांध से पानी छोड़ा जाता है लेकिन जलस्तर काफी कम होने की वजह से पिछले कई सालों से समय पर पानी नहीं छोड़ा जा रहा है।

धर्मपुरी समेत अन्य जिलों में लोगों को सुरक्षित स्थान पर जाने की चेतावनी

चेन्नई. कर्नाटक के बेलगावी समेत कुछ जिलों में आई बाढ़ के चलते कबिनी और केआरएस जलाशयों में तेजी से बढ़ रहे पानी को कर्नाटक सरकार कावेरी में छोड़ रही है, जिसके परिणाम स्वरूप पानी होगेनेक्कल होते हुए मेटूर बांध में जलस्तर तेजी से बढ़ रहा है। इसके मद्देनजर राज्य के विभिन्न क्षेत्रों में बाढ़ की चेतावनी जारी की गई है। मामले को गंभीरता से लेते हुए केंद्रीय जल आयोग के अधिशासी अभियंता आर. सरवणन ने सेलम, कृष्णागिरि, धर्मपुरी और इरोड जिला कलक्टरों को पत्र लिख सावधानी बरतने का सुझाव दिया है। पत्र में कहा गया है कि कर्नाटक और केरल में हो रही बारिश की

वजह से पानी छोड़े जाने से मेटूर बांध का जलस्तर तेजी से बढ़ता जा रहा है। हालात को देखते हुए सावधानी बरतने की जरूरत है। रिपोर्ट के अनुसार कावेरी नदी में तेजी से बढ़ रहे जल प्रवाह को देखते हुए होगेनेक्कल, चत्तिरम, ओट्टमालै, इंदिरा नगर और नन्नमकोट्टे के आसपास रहने वाले लोगों को सुरक्षित जगह पर जाने को कहा गया है। धर्मपुरी जिला प्रशासन ने होगेनेक्कल में नदी किनारे पुलिसकर्मियों को तैनात किया है, ताकि कोई भी नदी में प्रवेश न कर सके। इसके अलावा पर्यटकों के प्रवेश को रोकते हुए नदी में नहाने पर भी प्रतिबंध लगा दिया है।



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The Times of India (New Delhi)	<input type="checkbox"/>	The Economic Times	<input type="checkbox"/>	Punjab Kesari (Hindi)	<input type="checkbox"/>
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NBT/13/8



## सूखे बुंदेलखंड में पानी जमा करता यह जिला



**■ संदीप बुन्देला, बांदा (बुंदेलखंड)**

रेकॉर्ड तोड़ गर्मी, सूखते कुएं-तालाब, गिरता भूजलस्तर और पानी की कमी... इन समस्याओं के खिलाफ बुंदेलखंड के बांदा जिला प्रशासन ने जंग छेड़ी, तो समर्थन में गांव-गांव तक जनांदोलन खड़ा हो गया। देखते ही देखते गांवों में तालाब खुदने लगे। गांववाले ही अपने इलाकों के पोखरों-जोहड़ों, तालाबों को नई जिंदगी देने में जुट गए हैं। प्रधानमंत्री नरेंद्र मोदी ने अप्रैल में वहां पहुंचकर इस विराट समस्या से लड़ने का जोश भरा।

**मेरा खेत-मेरा तालाब :** 1,255 तालाब खेतों में खुदवाए जा चुके हैं। कामयाब अभियान के बाद इस लक्ष्य को बढ़ाकर 2500 किया गया। ज्यादा जमीन वाले किसानों को खेत के एक हिस्से में तालाब खोदने के लिए प्रोत्साहित किया गया। बारिश का पानी संजोने के लिए मई में कई तालाब खोदे गए। 469 गांवों में कुओं-

**अज्ञानता और लापवाही से जल स्रोत सूखते गए। अब गांववालों को इनके संरक्षण के बारे में बताया जा रहा है। - हीरालाल, जिलाधिकारी बांदा**

हैंडपंपों के किनारे बारिश का पानी इकट्ठा करने के लिए 2,605 गड्ढे बनाए गए। एक जिले में इतने गड्ढे खुदवाने का यह रेकॉर्ड भी है। महुई गांव में घरों की छतों से बारिश का पानी कुओं और तालाबों तक पहुंचाने के लिए पाइप लगवाए हैं। 2500 सूखे कुओं की तलहटी में जमी सिल्ट गंदगी के साथ बाहर आई तो कुओं ने खुशी में पानी देना शुरू किया।

**जल चौपाल से बनी बात :** प्रशासन ने हर गांव जल चौपाल करवाई। इस कार्यक्रम ने लोगों को सूखे के खिलाफ लड़ना और पानी संजोने वाले अभियान में काम करना सिखाया। गांव-गांव में जल सहेली हैं जो इसके लिए प्रेरित करती हैं।



News item/letter/article/editorial published on 12-8-2019.....in the following newspaper

Hindustan Times	<input type="checkbox"/>	Deccan Herald	<input type="checkbox"/>	Hindustan (Hindi)	<input type="checkbox"/>
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Pioneer Delhi	<input type="checkbox"/>	Financial Express	<input type="checkbox"/>	Jansatta	<input type="checkbox"/>
Rashtriya Sahara	<input type="checkbox"/>	Dainik Bhaskar			

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# Monsoon Watch



**The vigorous phase of the monsoon continues in many parts of the country**

**Total rainfall since June 1 is now above normal for the first time this season**

**Monsoon rainfall across India has been normal or much higher for the last two weeks**


**August rainfall has been 45% higher than average**

**So far 86% of the country's area has received normal or higher monsoon rainfall**




**ET-148**

## CURRENT WEATHER AND FORECAST




**Heavy rainfall has lashed Gujarat in recent days**




**Saurashtra and Kutch region were drenched with 20 times the normal rain on Saturday**


**Rainfall in Kerala was five times the normal for this time of the year**



**The weather office expects rainfall to be moderate in the days ahead**



**Maharashtra has had normal or excess rain this season after an exceptionally dry June**





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and documented at WSE Die, CWC.

# Heavy inflow from Karnataka raises level in T.N's Mettur dam

CWC puts officials on high alert; people prevented from venturing into Cauvery

VIGNESH VIJAYAKUMAR  
SALEM

With the inflow into the Mettur dam expected to rise to 2.4 lakh cusecs on Monday evening due to increased discharge of water from the Krishna Raja Sagar (KRS) and Kabini dams, the Central Water Commission (CWC) on Sunday advised the District Collectors and respective departments in the region to take precautionary measures to ensure the safety of people in the downstream areas.

The inflow at the Mettur dam on Sunday crossed 1 lakh cusecs. In a press release, the CWC said the combined discharge of approximately 1.5 lakh cusecs of water from the KRS and Kabini dams would reach Mettur by Sunday night and expected to touch 2.4 lakh cusecs on Monday evening.

According to officials here, 1.7 lakhs cusecs of water from KRS dam and 50,000 cusecs from the Kabini dam was released on Sunday evening, taking the combined release to 2.2 lakh cusecs of water.

At 8 p.m. the inflow at Ho-



Agricultural fields in the water-spread areas of the Mettur dam are getting submerged in water as the inflow to the Stanley Reservoir increased. • E. LAKSHMI NARAYANAN

genakkal was 1.80 lakh cusecs and 1,25,000 cusecs at the Mettur dam. The level in the Mettur dam was 73.6 ft, against its full capacity of 120 ft. The stored capacity of water in the dam was 35,873 mcft.

## Warnings issued

The outflow from the dam was maintained at 1000 cusecs. Since Sunday morning, the level at the dam increased by about 6ft. Revenue officials said that they

are monitoring the situation and taking necessary precautionary measures.

Officials said that police personnel have been deployed at coracle points in Mettur and people were prevented from fishing or venturing into the waters.

Police issued warnings to villages in the area regarding the rising water level. Three teams of 38 personnel who have undergone disaster management training are in a ready state in case of an

emergency.

In Hogenakkal, tourists have been banned from entering the falls area. Officials said residents are being evacuated from low-lying areas and warnings being issued asking the public to move to safer places.

In Dharmapuri, Minister for Higher Education K.P. Anabazhagan and District Collector S. Malarvizhi reviewed the precautionary measures taken at Hogenakkal and nearby areas.

11-12/8



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Rashtriya Sahara	<input type="checkbox"/>	Dainik Bhaskar			

and documented at WSE Die, CWC.

# BSY: Flood-related damage in Karnataka worth Rs 10,000 cr

Committed to helping people in distress, says Shah after aerial survey *J. Ex 12/8*

**EXPRESS NEWS SERVICE**  
BENGALURU, AUGUST 11

UNION HOME Minister and BJP president Amit Shah conducted an aerial survey of flood-hit parts of the Belagavi region in Karnataka on Sunday along with Chief Minister B S Yediyurappa, even as rain provided a respite to the region after nearly a week.

Following the aerial survey, Yediyurappa said that the flood damage in Karnataka has been assessed to be in the range of Rs 10,000 crore and an immediate release of Rs 3,000 crore had been sought from the Centre.

Yediyurappa said the Home Minister had assured full co-operation to the state in the rehabilitation efforts.

"Did an aerial survey of the flood-affected areas of Belagavi (Karnataka) and Kolhapur and Sangli (Maharashtra). Also held a meeting with senior officials to review the relief operations. Central and both state governments are totally committed to helping our people in distress," Shah said after the aerial survey.

"Met and surveyed flood-affected areas with the Home Minister of India Amit Shah. Orders were discharged to senior officials concerned. Full support has been assured by the Home Minister to Karnataka in this hour of need," Yediyurappa said after the survey.

On Saturday, Finance



Union Home Minister Amit Shah and Karnataka CM B S Yediyurappa take an aerial survey of flood-hit areas. ANI

Minister Nirmala Sitharaman conducted an aerial survey of the Belagavi region.

The Union ministers arrived to take a look at the flood-affected region on the Karnataka-Maharashtra border even as the BJP government in Karnataka faced criticism for being a one-man government with Yediyurappa functioning as the sole member of Cabinet since the government was formed on July 26.

"Even though there is no Cabinet, all MLAs and MPs are working for flood relief along with all state officials," Yediyurappa said.

With rainfall abating in north Karnataka and Maharashtra over the past two days, emergency flood relief work has been neces-

sitated in coastal Karnataka and Malnad region of the state where heavy rainfall continued till Sunday, causing widespread damage to property and lives.

Yediyurappa has termed the flood, which has affected 17 of the 20 districts in the state, the worst in more than 45 years. Kodagu region, which witnessed heavy rain damage last August, is among the regions severely hit by the flood this year with as many eight deaths reported in landslides in the hilly region till Sunday.

Yediyurappa is scheduled to conduct an aerial survey of the coastal and Malnad regions on Monday and a few other parts of north Karnataka on Tuesday.

"Rainfall intensity over upper Krishna Basin in Maharashtra re-

duced considerably yesterday (August 10). As per IMD, the rainfall is likely to reduce from tomorrow (August 12) in the Upper Krishna catchment area," the state government said.

The state disaster monitoring cell said light to moderate rain is likely in the flood-affected parts of north Karnataka over the next five days. The coastal and Malnad regions is expected to receive heavy rain in some parts over the next five days.

As many as 5.81 lakh people have been evacuated over the last week from marooned regions by fire and emergency services, SDRF, NDRF and Army teams. Four IAF helicopters were deployed to north Karnataka and one Indian Navy chopper to coastal Karnataka.

According to official government data provided on Sunday, 40 people have died across the state and 3.27 lakh people are in relief camps across 80 taluks. Crop loss (as per preliminary assessment) is across 4.20 lakh hectares of land.

## Water enters Hampi

Unesco Heritage site Hampi, along the banks of Tungabhadra River in Ballari district, has been inundated after the release of water from a reservoir Sunday. Water has entered the heritage site and an Anjaneya temple in front of Kampli Fort has been partially submerged. Tourists have been shifted to safer places, officials said.



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and documented at WSE Die, CWC.

# Flood fury continues, toll hits 174 as 33 more die

Toll In Kerala Rises to 72; Rahul Takes Stock

TIMES NEWS NETWORK

Even as rain gods restrained their fury in several states across the country and flood waters receded on Sunday, reports of deaths kept trickling in, taking the total toll to 174 in a span of five days. As many as 33 deaths were reported on Sunday with Kerala accounting for 15, Gujarat 11 and Karnataka seven. Fortunately, Maharashtra reported no death in last 24 hours and its toll since August 7 stood at 30.

All the 11 deaths in Gujarat were reported from the Saurashtra region, taking the state death count to 33 in just two days. Bodies of all the 11 – six labourers who were swept away in the strong currents of Falku river on Saturday evening and five fishermen who had drowned after their boats capsized in the rough Arabian Sea off Porbandar coast on Sunday – have been recovered. Twenty other fishermen, who had ventured into the sea along with those now dead, are missing.

In Kerala, death toll mounted to 72 with the recovery of 15 more bodies on Sunday. With rain losing intensity, search and rescue operations gathered pace but rescuers expressed fear about the 63 people, who were still missing in Wayanad and Malappuram districts, where two massive landslides had flattened hillslopes.

As many as 2.47 lakh people have been shifted to 1,639 relief camps across



**TRAIL OF DESTRUCTION:** NDRF team along with locals search for survivors at Puthumala in Wayanad on Sunday

## 19-year-old boxer swims 2.5km to reach Bengaluru venue, wins silver

Boxer Nishan Manohar Kadam's village in Belagavi, Mannur, was among the worst-hit in the floods. On August 7, the day the 19-year-old had to catch a train to Bengaluru for the state-level championship, the water surrounding his house and village was right up to his head. Nishan and his father Manohar knew what had to be done. Lugging the boxing kit tightly wrapped in plastic, the father-son duo swam for 45 minutes, covering 2.5km, and reached the main road to join the Belagavi district team. And three days after that journey, Nishan won silver in his category in Bengaluru on Sunday.

Hari Govind | TNN

the state.

Wayanad MP Rahul Gandhi visited the relief camps at Kavalappara and interacted with people. He would be visiting the camps in Kozhikode and Wayanad on Monday.

As many as 35 villages in Maharashtra's Sangli and Kolhapur still remained cut off on Sunday. The opening up of NH4 at the Panchaganga bridge in Kolhapur for vehicles carrying essential supplies

was put off to Monday.

Union home minister Amit Shah, accompanied by CM BS Yediyurappa, conducted an aerial survey of flood-affected areas in Belagavi, the Almatti dam in Vijayapura and Koyna dam in Maharashtra. Yediyurappa said a loss of around Rs10,000 crore has been estimated and he has urged the Centre to release Rs 3,000 crore to carry out immediate relief work.

## To check floods, govt plans law to manage 13 river basins

Vishwa.Mohan@timesgroup.com

**New Delhi:** With recurring problem of floods and drought in one or the other part of the country as the backdrop, the Centre has planned to manage rivers by adopting basin approach under a law which may help all inter-state and central agencies work in a coordinated manner.

The water resources (Jal Shakti) ministry has prepared a draft legislation which seeks to manage all 13 river basins in India by setting up exclusive umbrella authorities for each of them.

The inter-state river basins for which authorities are to be constituted include Ganga, Indus, Godavari, Mahanadi, Mahi, Narmada, Pennar, Cauvery, Krishna, Tapi, Subarnrekha, Brahmani-Baitarani and Brahmaputra-Barak-inter-state rivers of north-east.

Intent of bringing this bill was spelt out by Jal Shakti minister Gajendra Singh Shekhawat while responding to a debate on the Inter-State River Water Disputes (Amendment) Bill, 2019 in Lok Sabha on July 31.

Each of the 13 river basin authorities will have a two-tier system, consisting of a governing council and an executive board. The council will comprise CMs of all states within particular basin. The chairperson of the council will be from amongst the CMs of the basin states, by rotation.



News item/letter/article/editorial published on 12-8-2019 in the following newspaper

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and documented at WSE Die, CWC.



**DELUGE** A traffic police officer helps a motorcyclist stuck in a ditch amid floodwater after heavy rain in Karachi on Sunday. REUTERS

## 28 killed as monsoon wrecks havoc in Pak

**KARACHI/PESHAWAR, AUGUST 11** Heavy monsoon rains have wreaked havoc in Pakistan, killing at least 28 persons, including women and children, and triggering flash floods and landslides in several parts of the country, officials said on Sunday.

At least 12 persons were killed and over 22 others injured in different parts of Khyber Pakhtunkhwa due to flash floods, landslides and rain-related accidents, said a spokesman for the Provin-

cial Disaster Management Authority (PDMA).

Three people were killed each in Bajaur and Swat district. One person was killed each in Dir Lower, Buner, Malakand, Shangla, Aurakzai and Torgar districts, the spokesman said, adding that the deceased included two women and two children.

In Chitral district, the colony setup for Chinese engineers working on Lawari tunnel was also inundated by flash floods, the official said. — PTI



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## A FLOOD OF DOUBTS

Maharashtra floods revive questions of coordination and efficiency in water resource management I & 12/8

**A**FTER BEING BATTERED by unprecedented rains for over a week, nearly 4 lakh people have been rescued from flood-hit villages in the Pune, Sangli and Satara districts of Maharashtra and relocated to 300-odd camps. The state government, the armed forces and the NDRF completed commendable rescue missions, but around 30 lives were lost, including 10 who died tragically when a rescue boat capsized in Sangli. The Met department has predicted a slowing down of rains in the state over the next few days, and while lakhs of homes will need rebuilding, about 1.5 lakh hectares including some of Western India's most productive farmland, including sugar-producing regions, is now destroyed for this year's critical kharif season.

Running through the centre of this crisis is the river Krishna, which blesses agricultural land in south-western Maharashtra with bountiful harvests. The very heavy rains in the upstream areas of the Krishna began at the start of the month. By Monday, August 5, parts of Pune district experienced floods even as Kolhapur city faced a partial blackout as transformers and feeders went under. By Tuesday, very large parts of the region were flooded as the dangerously swollen Krishna breached its banks. On Tuesday, Chief Minister Devendra Fadnavis spoke to his Karnataka counterpart BS Yediyurappa, requesting that more water be discharged from the Almatti, the first dam across the Krishna in the neighbouring district, in order to provide some relief in the upstream regions in Maharashtra. But only on Friday did the discharge from Almatti cross five lakh cusecs, likely on account of the neighbouring state's bureaucracy, concerned about its own water stocks. By Saturday, parts of Sangli and Kolhapur had been flooded for six days and dozens of villages marooned as roads and major highways were inundated. Without a doubt, the rains were unprecedented — Pune has now received 140 per cent in excess of its average rain for this time of the year, while Satara and Sangli have recorded 81 per cent and 59 per cent in excess. But the upstream dams on the Krishna were discharging water from their reservoirs early last week, and the delay in coaxing more water to be released from Almatti was perhaps critical. Fadnavis has said the need of the hour is more accurate rain forecasts, more detailed warnings in place of the current categorisation as "heavy" or "very heavy". But in reality, while weather forecasting models will continue to develop, there was fair warning of last week's deluge. So the state must now look into whether there was adequate coordination between various arms of the bureaucracy in managing dam waters in the Krishna river basin, whether a pre-planned and controlled release of waters over a few days could have prevented some of the widespread destruction caused by sudden discharges.

Similar questions over whether reservoir waters should have been released in a controlled manner over several days were raised after previous Maharashtra floods too. Flood management can no longer be seen as minimising economic and physical losses. As plans get afoot to build more big dams and river linking projects, the state will need intelligent and nimble — and transparent — water resource management.



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# Sutlej in spate, damages crops on 1,000 acres in Moga

Affected families being shifted to safer places; panic in area after locals claim they spotted crocodiles

T-1318

## TRIBUNE NEWS SERVICE

MOGA, AUGUST 11

The water level has once again risen in the Sutlej, inundating the standing paddy crop and fodder in many villages and settlements located in Dharamkot subdivision of Moga district during the past 24 hours.

This is for the third time during the current year that the water level has increased to an alarming situation, threatening human settlements at Sanghera, Mandar, Melak Kanga, Kamoh Kalan, Kamoh Khurd, Daulewala, Sherewala Bagge, Sherpur Taiba, Rehwan and other villages. The reason is moderate and heavy rainfall in the



An inundated house near Sanghera village in Moga district; and (right) villagers inspect their crop as paddy fields remain flooded. TRIBUNE PHOTOS

catchment areas during the past couple of days. Sanghera sarpanch Balkar Singh claimed that the river water had once again flooded

the village. "Paddy, fodder and vegetables have been damaged on more than 1,000 acres in at least six villages," he said. Meanwhile, panic gripped the

families were also shifting. The locals claimed there was shortage of potable water. "Water-borne diseases have also started inflicting the affect-

ed people," they added. The village has been completely disconnected from other areas due to waterlogging. Several houses have been submerged.



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# Rethinking water governance strategies

Individual States need to assume the responsibility for managing water resources in their territories



SRINIVAS CHOKKAKULA  
& ASHWIN PANDYA

India's 'water crisis' took over social media recently. That India's cities are running out of water, coupled with Chennai's drinking water woes, made the 'crisis' viral, raising questions about the quality of the discourse and choice of water governance strategies in India. If there is a water crisis, what is the nature of the crisis? Where is the crisis prevalent? And how do we deal with it?

Usually, a delayed monsoon or a drought, combined with compelling images of parched lands and queues for water in urban areas raise an alarm in the minds of the public. Similarly, episodes of inter-State river water disputes catch public attention. However, this time, it was somewhat different. Videos and news reports claiming that Indian cities are running out of groundwater went viral. These news items could not have gained the traction but for the fact that they relied on a 2018 report of India's own Niti Aayog, which was titled 'Composite Water Management Index: A tool for water management.'

## Zombie statistics

Later, thanks to yet another series of tweets by Joanna Slater of *The Washington Post*, the 'crisis bogey' lost some of its sheen. Ms. Slater investigated the "zombie statistics" in the Niti Aayog report, especially the piece of information that said: "21 major cities are expected to run out of groundwater as soon as 2020, affecting [nearly] 100 million people." Her perseverance led to an eventual conclusion that there was no credible evidence for this assessment.

To be fair to Niti Aayog, its projection was only a means to an end goal: leveraging some action from the Indian States. The report's central goal was to propose a tool, an index, to monitor the States' water resource management strategies and provide the necessary course-shift, beyond supply augmentation approaches. The report may have had a lofty goal of promoting 'cooperative and competitive federalism' but was, in reali-



Delhi residents filling water in cans from a distribution tanker. • GETTY IMAGES

ty, a desperate move to engage with the States, in the absence of any substantive leverage to influence their approaches to water resources management. This also underscored that the fulcrum of any course correction lies with States.

Yet, what baffles us is the question: Just how did such 'zombie statistics' gain traction? This is disturbing on two counts: one, there is an absence of critical engagement or institutional accountability; two, a deeper hypocrisy surrounds the discourse on water governance in India. If there is a crisis, where is the crisis and what is the nature of the crisis?

For instance, what does the report mean when it says that "cities [are] running out of groundwater"? Does it mean that cities will not have groundwater reserves to meet their drinking water demand? If yes, this is not news.

Second, if the report means that the crisis lies in the depletion of groundwater levels in cities below safe rechargeable levels, then this is also not unknown. For almost two decades, the Central Ground Water Board (CGWB) has been reporting on the increasing number of over-exploited blocks across India, the 'dark' category blocks. The recent annual book of CGWB has reported 1,034 units, out of the 6,584 units it monitors, as over-exploited. If this is the 'crisis', then we have had it for long. What has this not received enough attention? Is it because these zones are not in cities?

Just to be sure how critical the 'crisis' is, CGWB's 2013 estimates say that the groundwater development in India is just about 62% of the utilisable groundwater reserves. Similarly, a recent report by the Central Water Commission, prepared in collaboration with the Indian Space Research Organisation (ISRO), asserted that India is not yet in "water scarcity condition". But it is certainly in a "water-stressed condition", with reducing per capita water availability.

Here, we certainly don't mean to say that India can continue with the present ways of water management. We also cannot remain in a state of denial that a crisis is not in the making. However, certain steps need to be taken to ensure a more useful and productive discourse about water governance challenges.

First, India needs to reconsider the institutional processes for dissemination of knowledge about water resource management. There is a certain amount of danger inherent in the casual manner in which knowledge about water resources is legitimised and consumed, particularly in these days of 'viral' information.

Second, we need to recognise the crisis is not as much of scarcity as of delivery. The challenge is to ensure an adequate access to quality water, more so in urban areas where inequities over space and time are acute. We need to also realise that with the country's rapid urbanisation, demand cannot be met by groundwater reserves alone. For in-

stance, according to the Delhi Jal Board estimates, groundwater meets just 10% of Delhi's drinking water needs. The rest is met by surface water sources, most of it transported from outside Delhi. The urban needs, which underpin much reporting on 'water crises', need to be met by robust long-term planning and preparation for droughts and other contingencies.

## Responsibility lies with States

Finally, we need to reconsider our approaches to water governance. We must recognise that the fulcrum of change and action is with the States. For long, water resource departments in States have continued to follow the conventional approaches of supply augmentation. The challenge is that of reorienting themselves towards deploying strategies of demand management, conservation and regulation.

The Centre has to work with States towards an institutional change for the necessary course-shift. The Finance Minister, in her budget, repeatedly stated that the government will work with States to address India's national water security challenges. Let us hope that the government intends to strengthen federal governance of water resources towards long-term water security.

Srinivas Chokkakula is at the Centre for Policy Research; Ashwin Pandya is with International Commission on Irrigation and Drainage. Views are personal



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## मुसीबत : बाढ़ की विभीषिका झेल रहे चार राज्य



महाराष्ट्र के सांगली जिले में रविवार को बाढ़ प्रभावित इलाके में लोगों को राहत सामग्री बांटते एनडीआरएफ के जवान। • प्रेस

11-148

देश के चार राज्यों कर्नाटक, महाराष्ट्र, केरल और गुजरात में बाढ़ की विभीषिका से गंभीर स्थिति है। विश्व विरासत स्थल हंपी डूब गया है तो केरल में कई गांव जमींदोज हो गए हैं। एनडीआरएफ ने बाढ़ प्रभावित जिलों से 10822 को बचाया, जबकि 50 हजार को सुरक्षित स्थानों पर पहुंचाया है। > संबंधित खबरें पेज 13

**157** लोगों की मौत, दक्षिण पश्चिम राज्यों में

**2.27** लाख लोग केरल के राहत शिविरों में



Hindustan Times	<input type="checkbox"/>	Deccan Herald	<input type="checkbox"/>	Hindustan (Hindi)	<input type="checkbox"/>
Statesman	<input type="checkbox"/>	Deccan Chronicle	<input type="checkbox"/>	Nav Bharat Times (Hindi)	<input type="checkbox"/>
The Times of India (New Delhi)	<input type="checkbox"/>	The Economic Times	<input type="checkbox"/>	Punjab Kesari (Hindi)	<input type="checkbox"/>
Indian Express	<input type="checkbox"/>	Business Standard	<input type="checkbox"/>	Rajasthan Patrika (Hindi)	<input checked="" type="checkbox"/>
The Hindu (New Delhi)	<input type="checkbox"/>	Tribune	<input type="checkbox"/>	Dainik Jagran	<input type="checkbox"/>
Pioneer Delhi	<input type="checkbox"/>	Financial Express	<input type="checkbox"/>	Jansatta	<input type="checkbox"/>
Rashtriya Sahara	<input type="checkbox"/>	Dainik Bhaskar			

and documented at WSE Die, CWC.

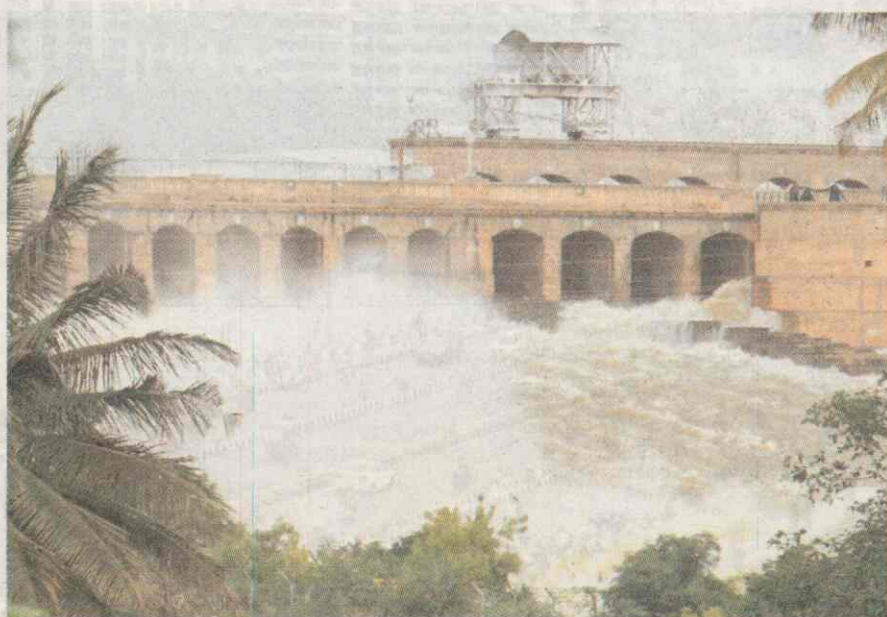
**बाढ़ व भारी बारिश जनित हादसों में 34 मरे, 14 लोग लापता**

# कृष्णा-कावेरी के जलतांडव का कहर

**उफनती नदियों व भारी बारिश ने बिगाड़े बाढ़ के हालात**

बेंगलूरु. राज्य के 17 जिले प्रभावित हैं और प्रदेश की लगभग सभी नदियों के उफान पर बहने से करीब 180 गांव बाढ़ से घिरकर टापुओं में तब्दील हो चुके हैं। बाढ़ से अब तक 10 लाख से अधिक लोग प्रत्यक्ष या परोक्ष तौर पर प्रभावित हुए हैं। बाढ़ व बारिश जनित हादसों में अब तक 34 लोग मारे जा चुके हैं जबकि अलग अलग क्षेत्रों में 14 से अधिक लोग लापता हैं।

महाराष्ट्र में हो रही भारी बारिश की वजह से कृष्णा व उसकी सहायक नदियों में भारी मात्रा में पानी छोड़ा जा रहा है। इससे बेलगावी, बागलकोट, विजयपुरा, कोण्ल, कलबुर्गी, रायचूर सहित 17 जिलों में सामान्य जन जीवन बुरी तरह प्रभावित हुआ है। अलमती व नारायणपुरा बसवसागर जलाशयों से 5.5 लाख क्यूसेक पानी कृष्णा नदी में छोड़े जाने से विजयपुरा और रायचूर जिलों में बाढ़ के हालात और



ज्यादा गंभीर हो गए हैं। वहीं महाराष्ट्र के उजिनी तथा वीरा जलाशयों से करीब 3 लाख क्यूसेक पानी छोड़ने से कलबुर्गी जिले में बाढ़ के हालात गंभीर हो गए हैं और सोन्ना बैराज से भी इतनी ही मात्रा में पानी छोड़ना पड़ रहा है।

RP-1818

**सुरक्षित निकाले गए 14 गांवों के लोग**

भीमा नदी में भारी मात्रा में पानी छोड़े जाने की वजह से गाणगापुर संगम का दत्तात्रेय मंदिर पानी में पूरी तरह डूब गया है। मंदिर के चारों ओर पानी फैल जाने से वहां मौजूद श्रद्धालुओं को सुरक्षित स्थानों पर थानांतरित किया गया। इसके अतिरिक्त आसपास के 14 गांवों के 120 परिवारों को गाणगापुर ग्राम के पास सुरक्षित स्थानों पर थानांतरित किया गया है। सराङ्गी, अवारड़ा तथा हगरगुंडी जैसे गांव भी पानी से घिरे हुए हैं।

**रायचूर के कई गांव जलमग्न**

खतरे के निशान से ऊपर बह रही तुंगभद्रा नदी के कारण रायचूर के अनेक गांवों में पानी घुस गया है। कृष्णा भाग्या जल निगम सूत्रों के अनुसार नारायणपुरा बसवसागर जलाशय में रविवार को 6.18 लाख क्यूसेक पानी की आवक हो रही है और जलाशय से समान मात्रा में पानी बाहर छोड़ा जा रहा है। जलाशय की कुल भराव क्षमता 492.25 मीटर की तुलना में रविवार को जल स्तर 489.3 मीटर रहा।



Hindustan Times  
Statesman  
The Times of India (New Delhi)  
Indian Express  
The Hindu (New Delhi)  
Pioneer Delhi  
Rashtriya Sahara

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Deccan Herald  
Deccan Chronicle  
The Economic Times  
Business Standard  
Tribune  
Financial Express  
Dainik Bhaskar

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Hindustan (Hindi)  
Nav Bharat Times (Hindi)  
Punjab Kesari (Hindi)  
Rajasthan Patrika (Hindi)  
Dainik Jagran  
Jansatta

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# सिंधु जल समझौता जारी है लेकिन कब तक?

PR-12/18

**डा. चन्द्र त्रिखा**

chandertrikha@gmail.com

हवाएं भले ही न बंट पाए, मगर पानी को बांटना हमेशा एक अहम मुद्दा रहा है। भारत-पाक के मध्य रिश्ते कभी पूरी तरह सुखद नहीं रहे। कई समझौते हुए, कई टूटे। चार बार घोषित युद्ध हुए और अघोषित युद्ध की तादाद गिनना मुश्किल है। अब फिर तनाव चरम पर है। रिश्ते अब पटरी पर कैसे लौटेंगे और कब लौटेंगे, कुछ कहा नहीं जा सकता।

पिछले 72 वर्षों में सिर्फ एक समझौता ऐसा बचा है जिस पर चार युद्धों के बावजूद खरोंचें नहीं आईं। यह सिंधु विश्व बैंक की मध्यस्थता से हुई थी। इस पर 19 सितम्बर, 1960 को भारत के तत्कालीन प्रधानमंत्री श्री जवाहर लाल नेहरू और पाक राष्ट्रपति अयूब खान ने हस्ताक्षर किए थे। तब तक भारत-पाक के मध्य 1948 के कश्मीर-तनाव के इलावा कोई बड़ा युद्ध भी नहीं लड़ा गया था।

इस समझौते के अनुसार तीन पूर्वी नदियों- 'ब्यास, रावी और सतलुज' का नियंत्रण भारत को तथा तीन पश्चिमी नदियों 'सिंधु, चिनाब और झेलम' का नियंत्रण पाकिस्तान को दिया गया। हालांकि अधिक विवादोत्पन्न वे प्रावधान थे जिनके अनुसार जल का वितरण किस प्रकार किया जाएगा, यह निश्चित होना था। क्योंकि पाकिस्तान के नियंत्रण वाली नदियों का प्रवाह पहले भारत से होकर आता है, सिंधु के अनुसार भारत को उनका उपयोग सिंचाई, परिवहन और बिजली उत्पादन हेतु करने की अनुमति है। इस दौरान इन नदियों पर भारत द्वारा परियोजनाओं के निर्माण के लिए सटीक नियम निश्चित किए गए। यह सिंधु पाकिस्तान के डर का परिणाम थी कि नदियों का आधार (बेसिन) भारत में होने के कारण कहीं युद्ध आदि की स्थिति में उसे सूखे और अकाल आदि का सामना न करना पड़े।

1960 में हुए सिंधु जल समझौते के बाद से भारत और पाकिस्तान में कश्मीर मुद्दे को लेकर तनाव बना हुआ है। हर प्रकार के असहमति और

विवादों का निपटारा सिंधु के बांचे के भीतर प्रदत्त कानूनी प्रक्रियाओं के माध्यम से किया गया है। इस सिंधु के प्रावधानों के अनुसार सिंधु नदी के कुल पानी का केवल 20: का उपयोग भारत द्वारा किया जा सकता है। जिस समय यह सिंधु हुई थी उस समय पाकिस्तान के साथ भारत का कोई भी युद्ध नहीं हुआ था। उस समय परिस्थिति बिल्कुल सामान्य थी, पर 1965 से पाकिस्तान लगातार भारत के साथ हिंसा के विकल्प तलाशने लगा जिस में 1965 में दोनों देशों में युद्ध भी हुआ और पाकिस्तान को इस लड़ाई में हार का सामना करना पड़ा। फिर 1971 में पाकिस्तान ने भारत के साथ युद्ध लड़ा जिस में उस को अपना एक हिस्सा खोना पड़ा जो बंगला देश के नाम से जाना जाता है। तब से अब तक पाकिस्तान आतंकवाद और सेना दोनों का इस्तेमाल कर रहा है भारत के विरुद्ध, जिस की वजह से किसी भी समय यह सिंधु जल समझौता खत्म हो सकता है और जिस प्रकार यह नदियां भारत का हिस्सा हैं तो स्वभाविक रूप से भारत इस समझौते को तोड़ कर पूरे पानी का इस्तेमाल सिंचाई बिजली बनाने में व जल संचय करने में कर सकता है। वर्तमान परिस्थिति इतनी तनाव पूर्ण है कि यह समझौता रद्द हो सकता है क्योंकि जो परिस्थिति 1960 में थी वो अब नहीं रही है

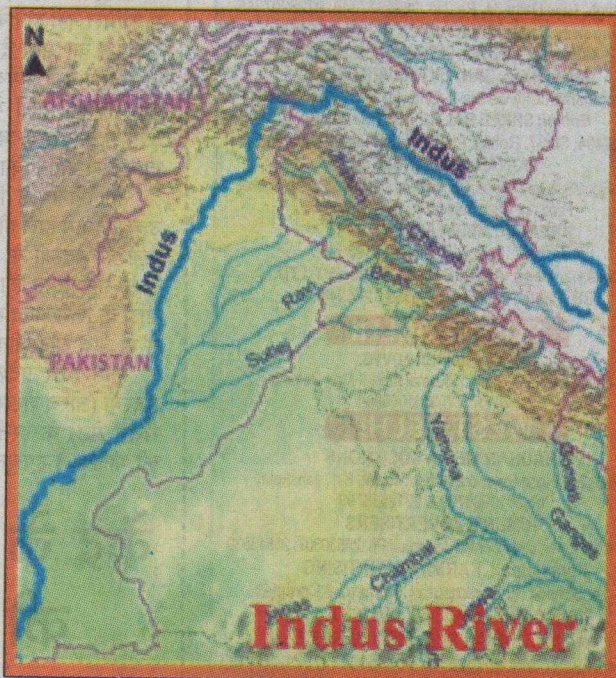
**प्रावधान क्या हैं?**

सिंधु नदी सिस्टम में तीन पश्चिमी नदियां- सिंधु, झेलम और चिनाब और तीन पूर्वी नदियां- सतलुज, ब्यास और रावी शामिल हैं। इस सिंधु के अनुसार रावी, ब्यास और सतलुज (पूर्वी नदियां) पाकिस्तान में प्रवेश करने से पूर्व इन नदियों के पानी को अन्य उपयोग के लिए भारत को आबंटित की गई। हालांकि, 10 साल की एक संक्रमण अवधि की अनुमति दी गई थी, जिसमें पानी की आपूर्ति के लिए भारत को बाध्य किया गया था ताकि तब तक पाकिस्तान अपनी आबंटित नदियों- झेलम, चिनाब और सिंधु के पानी के उपयोग के लिए नहर प्रणाली विकसित कर सके।

इसी तरह, पाकिस्तान पश्चिमी नदियों - झेलम, चिनाब और सिंधु के अनन्य उपयोग के लिए अधिकृत है। पूर्वी नदियों के पानी के नुकसान के लिए पाकिस्तान को मुआवजा भी दिया

गया। 10 साल की रोक अवधि की समाप्ति के बाद, 31 मार्च 1970 से भारत को अपनी आबंटित तीन नदियों के पानी के पूर्ण उपयोग का पूरा अधिकार मिल गया। इस सिंधु का परिणाम यह हुआ कि साझा करने के बजाय नदियों का विभाजन हो गया। दोनों देश सिंधु से संबंधित मामलों के

प्रदेश के हिमालय के पहाड़ों में शुरू होता है। वे गुजरात के कराची और कोरी क्रीक के अरब सागर में खाली होने से पहले पंजाब, बालोचिस्तान, काबुल, कंधार, कुनार, हिमाचल प्रदेश, हरियाणा, राजस्थान, गुजरात, जम्मू और कश्मीर, सिंध आदि राज्यों से होकर बहते हैं। जहां एक बार इन



लिए डेटा का आदान-प्रदान और सहयोग करने के लिए राजी हुए। इस प्रयोजन के लिए सिंधु में स्थायी सिंधु आयोग का प्रावधान किया गया जिसमें प्रत्येक देश द्वारा एक आयुक्त नियुक्त किया जाएगा।

**इतिहास और पृष्ठभूमि**

नदियों के सिंधु प्रणाली का पानी मुख्य रूप से तिब्बत, अफगानिस्तान और जम्मू और कश्मीर और हिमाचल

नदियों के साथ सिंचित भूमि की केवल एक संकीर्ण पट्टी थी, पिछली सदी के घटनाक्रमों ने नहरों और भंडारण सुविधाओं का एक बड़ा नेटवर्क तैयार किया है जो 2009 तक अकेले पाकिस्तान में 47 मिलियन एकड़ (190,000 किमी 2) से अधिक पानी प्रदान करते हैं, एक किसी एक नदी प्रणाली का सबसे बड़ा सिंचित क्षेत्र है। ब्रिटिश भारत के विभाजन ने सिंधु

बेसिन के पानी को लेकर संघर्ष पैदा कर दिया। नवगठित राज्य इस बात पर अड़े थे कि सिंचाई के अनिवार्य और एकात्मक नेटवर्क को साझा करने और प्रबंधित करने के तरीके पर। इसके अलावा, विभाजन का भूगोल ऐसा था कि सिंधु बेसिन की स्रोत नदियां भारत में थीं। पाकिस्तान ने बेसिन के पाकिस्तानी हिस्से में पानी भरने वाली सहायक नदियों पर भारतीय नियंत्रण की संभावना से अपनी आजीविका को खतरा महसूस किया।

जहां भारत निश्चित रूप से बेसिन के लाभदायक विकास के लिए अपनी महत्वाकांक्षाएं रखता था, पाकिस्तान ने अपनी खेती योग्य भूमि के लिए पानी के मुख्य स्रोत पर संघर्ष से तीव्र खतरा महसूस किया। विभाजन के पहले वर्षों के दौरान, 4 मई, 1948 को इंटर-डोमिनियन समझौते के द्वारा सिंधु के पानी का मसला किया गया था। इस समझौते से भारत को सरकार के वार्षिक भुगतान के बदले में बेसिन के पाकिस्तानी क्षेत्रों में पर्याप्त पानी छोड़ने की आवश्यकता थी। इस समझौते का तात्पर्य तात्कालिक आवश्यकताओं को पूरा करना था और इसके बाद एक अधिक स्थायी समाधान के लिए वार्ता की गई। हालांकि, दोनों पक्ष अपने-अपने पदों से समझौता करने को तैयार नहीं थे और वार्ता गतिरोध पर पहुंच गई। भारतीय दृष्टिकोण से, ऐसा कुछ भी नहीं था जो पाकिस्तान भारत को नदियों में पानी के प्रवाह को मोड़ने के लिए किसी भी योजना को रोकने के लिए कर सकता था। पाकिस्तान उस समय इस मामले को न्यायिक न्यायालय में ले जाना चाहता था लेकिन भारत ने यह कहते हुए इनकार कर दिया कि संघर्ष के लिए द्विपक्षीय प्रस्ताव की आवश्यकता है।

**सिंधु पर पुनर्विचार**

सिंधु पर पुनर्विचार के लिए विधानसभा में 2003 में एक प्रस्ताव भी पारित किया गया था। दिल्ली में एक सोच ये भी है पाकिस्तान इस सिंधु के प्रस्तावों का इस्तेमाल कश्मीर में गुस्सा भड़काने के लिए कर रहा है। 2016 में उड़ी हमले के बाद भारत के शीर्ष नेतृत्व ने सिंधु की समीक्षा शुरू कर दी। यदि तनाव यूं ही बना रहा तो इस लगभग 60 बरस पुरानी सिंधु पर भी आंच तो आ ही सकती है।



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<input type="checkbox"/> Statesman	<input type="checkbox"/> Deccan Chronicle	<input type="checkbox"/> Nav Bharat Times (Hindi)	<input type="checkbox"/>
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<input type="checkbox"/> Rashtreeya Samiksha			

# Irrigation, agriculture shift rainfall to northwestern India, IIT-B finds

H-11/8

Any change in irrigation policy has the potential to shift monsoon rainfall

R. PRASAD

For the first time, researchers from the Indian Institute of Technology (IIT) Bombay have found that even a change in irrigation policy has the potential to shift monsoon rainfall and intensify extreme rainfall in India through its feedback to atmosphere. They have further found the reason behind the shift in the summer monsoon rainfall towards northwestern India and intensification of extreme rainfall over central India during the month of September.



**The shortcoming:** Till now, the models used widely for land-surface modelling have not been designed for Indian conditions. ■ FILE PHOTO

## Land-surface model

It became possible to understand what causes the monsoon to shift and the role of irrigation as the researchers developed a module of land-surface model that takes into account the actual soil irrigation and agriculture pattern seen in India.

During the month of September, agriculture lands are highly irrigated and the crops are matured. As a result, there is maximum evapotranspiration taking place leading to highest contribution of moisture from the land to the atmosphere. "Till now, the models that have been used widely for land-surface modelling were not designed for Indian conditions," says Subimal Ghosh from the Department of Civil Engineering at IIT Bombay and corresponding author of a paper published in *Geophysical Research Letters*.

"The models used so far considered that irrigation starts only when soil moisture is very low (permanent wilting point) and stops when it reaches slightly be-

low saturated soil moisture state (field capacity)"

But the reality is otherwise – there is uncontrolled irrigation in India. And nearly 50% of crop area is covered by paddy where the fields are kept in submerged conditions. As a result, the contribution of moisture from the land to the atmosphere is very different from what is followed in the West, which is what the models used so far took into account.

"So we collaborated with Pacific Northwest National Laboratory to develop a land-surface model that takes into account the Indian conditions," says Prof. Ghosh.

## Irrigation management

Several studies have already shown that irrigation contributes moisture to the Indian summer monsoon. But the IIT Bombay team along with researchers from Pacific Northwest National Laboratory and Oak Ridge National Laboratory have shown that whenever there is a change

in the irrigation management, there is a change in the moisture feedback to the atmosphere.

The researchers considered three scenarios – no irrigation, irrigation that is based on soil moisture deficit  $h$ , and finally uncontrolled irrigation as seen in India.

## Monsoon shift

The researchers found that as a result of excess irrigation over northern India, the summer monsoon rainfall in September shifts towards the northwestern part of the country. There is also intensification of extreme rainfall over central India during September.

Land-surface processes including irrigation affect the heat fluxes – temperature related and evapotranspiration. Modified heat fluxes along with changes in atmosphere moisture content and distribution result in a shift in rainfall towards northwestern part of the country and increased extreme rainfall over central

India during September.

The study has not looked at how irrigation and agriculture influence monsoon in southern India.

"Rainfall increasing the moisture content in soil is well known and can be visualised. But soil moisture contributing to the atmosphere cannot be visualised easily and is therefore neglected," points out Prof. Ghosh.

"Our analysis underlines why the soil to atmosphere feedback cannot be neglected. Each of the component – atmosphere and hydrology – have to be coupled together to understand the system in full."

"Any land-surface model used for India should take into account Indian irrigation and agriculture system. Otherwise, we will not add value and will come up with incorrect results," he says.

"We need more detailed irrigation data for southern India to perform much better analysis of land-surface feedback of human-natural systems," he says.



News item/letter/article/editorial published on 11-8-2019 in the following newspaper

Hindustan Times	<input type="checkbox"/>	Deccan Herald	<input type="checkbox"/>	Hindustan (Hindi)	<input type="checkbox"/>
Statesman	<input type="checkbox"/>	Deccan Chronicle	<input type="checkbox"/>	Nav Bharat Times (Hindi)	<input type="checkbox"/>
The Times of India (New Delhi)	<input type="checkbox"/>	The Economic Times	<input type="checkbox"/>	Punjab Kesari (Hindi)	<input type="checkbox"/>
Indian Express	<input type="checkbox"/>	Business Standard	<input type="checkbox"/>	Rajasthan Patrika (Hindi)	<input type="checkbox"/>
The Hindu (New Delhi)	<input checked="" type="checkbox"/>	Tribune	<input type="checkbox"/>	Dainik Jagran	<input type="checkbox"/>
Pioneer Delhi	<input type="checkbox"/>	Financial Express	<input type="checkbox"/>	Jansatta	<input type="checkbox"/>
Rashtriya Sahara	<input type="checkbox"/>	Dainik Bhaskar			

and documented at WSE Die, CWC.

# Navy, Army step up rescue in flood-hit areas of Maharashtra

H-11/8

15 teams from Visakhapatnam join relief work in Kolhapur and Sangli

SHARAD VYAS  
MUMBAI

Intensifying relief operations in the flood-hit parts of Maharashtra, the Navy on Saturday airlifted 15 teams from Visakhapatnam deploying them in the severely-affected areas of Shirol in Kolhapur and Sangli, while the Army is operating nine relief and 12 engineer teams.

Chief Minister Devendra Fadnavis said a team of 100 doctors had been despatched to the region even as thousands of stranded people were rescued from the submerged areas, including 1,016 persons from the Maharashtra-Karnataka border. Rescue work by the Goa Naval Area is under way in Kolhapur and Uttar Kannada (Karnataka) district and so far 602 women and 193 children had been rescued. In another operation by the



**All-time high:** Sangli has already received 758% rainfall over the long period average. In 2005, the area recorded only 217% over the course of 31 days. • JIGNESH MISTRY

special teams of the Bombay Sappers of the Army, 4,800 persons were evacuated from Kolhapur and Sangli.

"We have asked for more rescue teams from Punjab, Odisha, Gujarat and Goa. Another 15 teams of the Navy

are reaching today. As many as 95 boats have been deployed for rescue operations," Mr. Fadnavis said after a tour of the regions. The toll from across the State this week stood at 30, officials said.

Several National Disaster Response Force (NDRF) teams carried out a rescue mission in Hasur and Nrusinhwadi, in Kolhapur district to evacuate four pregnant women, who were later sent to the hospital.

## Eight dead as heavy rain batters Gujarat

SPECIAL CORRESPONDENT  
AHMEDABAD

At least four people died and several others were feared trapped after a three-storey building collapsed in Gujarat's Nadiad as heavy rain battered the State, disrupting normal life.

The incident took place after extremely heavy rain lashed central Gujarat in the last 48 hours. Rescue operations were immediately launched at the site.

According to State officials, four people died and five were seriously injured in the building collapse. National Disaster Response Force and fire brigade teams from Ahmedabad were rushed to help.

In a separate incident, four people died in Ahmedabad when a wall collapsed in the city's Bopal area on the outskirts.

The wall collapsed owing to heavy rainfall overnight.



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and documented at WSE Die, CWC.

## Rains shore up fortunes of reservoirs in 10 days

H-11/8

Idukki, K.R.Sagar and Srisaillam receive steady inflows

SPECIAL CORRESPONDENT  
BENGALURU

The monsoon forecast is for lower intensity rainfall from Sunday, but the very heavy to heavy rain in parts of Gujarat, south Karnataka, Kerala and Tamil Nadu in recent days has brought healthy storage to many reservoirs in the southern States.

Idukki in Kerala, Karnataka's K.R.Sagar and Srisaillam in Andhra Pradesh received steady inflows on Saturday.

Four days of heavy rainfall in Wayanad – which sends water to the Kabini dam – and in the Karnataka ghats eased fears of a deficit in the Cauvery. On August 6, storage in four reservoirs along the river was just 37% of capacity, but by Saturday morning, storage had doubled to 75%. The inflow into K.R.S. dam exceeded one lakh cusecs, enough to fill it in less than three days.

### 4% increase overnight

Idukki, Kerala's biggest reservoir, improved storage by 4% overnight, touching 34%, which is 503 million cubic metres (MCM) of water against the maximum of 1,460 MCM. Intense rain along the Western Ghats sent big flows into reservoirs



**More flow:** Water gushing from the Krishnaraja Sagar reservoir in Karnataka on Saturday. •SPECIAL ARRANGEMENT

## 40 feared buried in Kerala village

Two days after a massive landslide struck the hillside village of Kavalappara in Malappuram district of Kerala and the recovery of nine bodies, the villagers' hope of finding 40 persons alive faded by Saturday. The

rescue was suspended following two fresh landslips in the nearby hills in the afternoon. Muddy debris, tough terrain, continuing rain and lack of sophisticated equipment hindered the search. ▶PAGE 8

on the Krishna.

Almatti and Basava Sagar dams on the Krishna had inflow and outflow exceeding five lakh cusecs, or, 45 thousand million cubic feet (tmc ft) of water daily. This surpassed the previous high of 4.5 lakh cusecs in 2005 when large parts of north Karnataka were flooded, said G.S. Srinivas Reddy, Di-

rector, Karnataka State Natural Disaster Monitoring Centre. "Any rain will lead to increased inflow. We expect it to touch six lakh cusecs in the coming days," he said.

CONTINUED ON ▶PAGE 10

RAIN TOLL RISES TO 57

IN KERALA ▶PAGE 8

NAVY, ARMY STEP UP RESCUE

IN MAHARASHTRA ▶PAGE 9



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☐ Deccan Chronicle  
☐ The Economic Times

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☐ Nav Bharat Times (Hindi)  
☐ Punjab Kesari (Hindi)

# Death toll rises to 83 in Kerala, Karnataka

**DISASTER** 165,000 people displaced in Kerala; Karnataka CM terms calamity 'biggest' in 45 years

HT Correspondents

letters@hindustantimes.com

THIRUVANANTHAPURAM/BENGALURU:

Three days of incessant rain and 80 landslides reported in several districts have claimed 52 lives in Kerala, even as the meteorological department has predicted that conditions will improve by Sunday. While the rains weakened in central Kerala, there was no let up in northern districts, where nearly 125,000 people have been displaced.

The death toll in Karnataka rose to 31 on Saturday, even as finance minister Nirmala Sitharaman toured Belagavi, the worst affected district, on Saturday. Home minister Amit Shah is expected to conduct an aerial survey on Sunday.

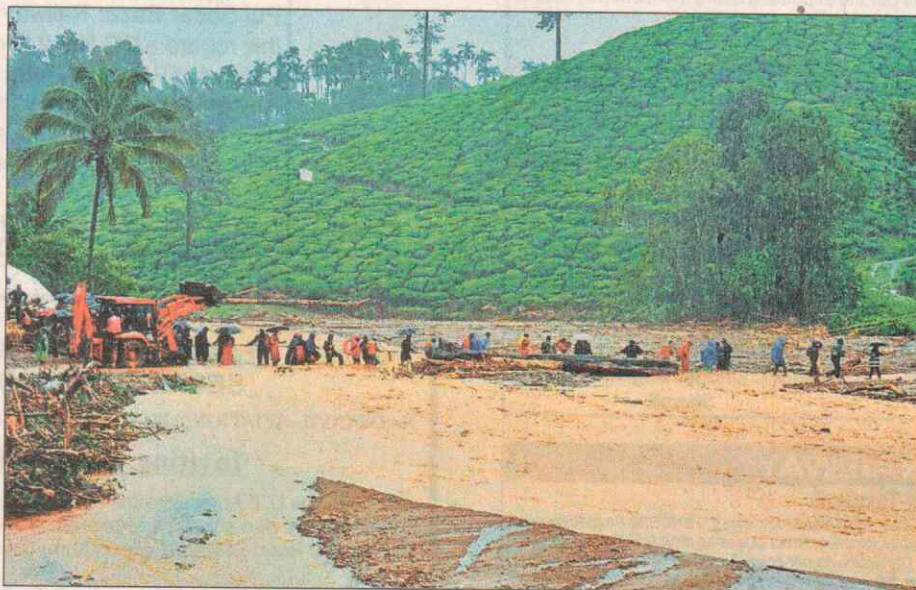
Most rivers are in spate and chief minister B S Yediyurappa termed the natural calamity the "biggest" in 45 years. The state government pegged the losses caused by rains and floods at ₹6,000 crore and has sought ₹3,000 crore as relief from the Centre.

"Sixteen of the 30 districts are suffering from heavy rains; 1,024 villages are facing floods. This is the first time such a situation has occurred in the past 45 years," he said.

Heavy rains in the past week and high amounts of water inflow into the state from neighbouring Maharashtra caused floods in the northern districts, especially Belagavi. In southern districts, especially in the Malnad region nestled in the Western Ghats, heavy rains led to landslides.

On Saturday, deaths were reported from Belagavi, Uttara Kannada, Chickamagaluru districts, Shivmogga, and Udupi districts. Around 70,000 people were evacuated across the state on Saturday alone, taking the total number of evacuees in the past week to 314,000 — 200,000 hail from Belagavi district alone.

The quantum of rainfall across Karnataka, however, reduced on Saturday, with the northern region recording a low 8mm rainfall till 8 am, the first time in a week that it was in single digits.



■ National Disaster Response Force personnel rescue people after a landslide in Puthumala in Kerala's Wayanad district on Saturday.

ANI

**CONGRESS LEADER RAHUL GANDHI IS LIKELY TO VISIT HIS CONSTITUENCY WAYANAD, WHICH IS AMONG THE WORST AFFECTED. ON SUNDAY**

However, the coastal and Malnad regions continued to receive copious rain.

In Puthumala in Kerala's Wayanad district, where a landslide on Thursday destroyed homes and claimed several lives, six more bodies were discovered on Saturday even as more people — many migrant workers — are feared trapped under the mud. Kalpetta legislator C K Saseendran said at least nine are missing in this area. More than 50,000 people from the district are in relief camps.

PTI reported that Congress leader Rahul Gandhi is likely to visit his constituency — Wayanad, which is among the worst affected, on Sunday.

In the neighbouring Malappuram district, at least 60 persons

are missing after a major landslide in Kavalapara on Thursday. Rescue operations were halted on Saturday after another landslide occurred in the region.

"After the landslide in Kavalapara mud and slush formed a 40-feet high mound. At least 60-odd people are trapped inside it. It is a difficult task. The CM [Pinarayi Vijayan] has sought military engineering wing's help," said Nilambur legislator PV Anwar, who has been camping in the area.

"All are working hard to minimize damage. In some places like Wayanad situation is really serious," said Vijayan, who is in touch with the Centre. He will conduct an aerial survey of affected areas on Sunday.

One of the four shutters of the Banasurasagar dam, located about 21 km from Kalpetta in Wayanad, one of the worst affected districts, was opened to discharge excess water and people on the banks of the Kabini river have been asked to be cautious. Though rail services remain cancelled, flight operations from the Kochi international airport will resume at noon on Sunday, two days after it was

shut as water entered the runway area due to heavy rains and floods, an official said on Saturday. Check-in will resume at 9 am on Sunday in both domestic and international terminals. A red alert has been issued in eight districts of Ernakulam, Idukki, Palakkad, Malappuram, Kozhikode, Wayanad, Kannur and Kasargod.

**3000 EVACUATED IN TAMIL NADU**

With the catchment areas of Cauvery river in Karnataka receiving abundant rainfall, 1 lakh cusecs of water have been released into Mettur Dam in the Salem district of Tamil Nadu.

Drummers were sent to riverside villages in the district to warn them to stay away from the river. A flood alert was sounded in five villages following discharge of surplus water from Pykara dam, which reached its full capacity of 96 feet due to incessant rains over the last one week. The rainfall in western districts of Tamil Nadu saw no let up with more than 3,000 people evacuated in Coimbatore and Nilgiris districts, Tamil Nadu revenue and disaster management minister RB Udhayakumar said.



Hindustan Times ☐  
Statesman ☐  
The Times of India (New Delhi) ☐  
Indian Express ☐  
The Hindu (New Delhi) ☐  
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Deccan Chronicle ☐  
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Dainik Bhaskar ☐

Hindustan (Hindi) ☐  
Nav Bharat Times (Hindi) ☐  
Punjab Kesari (Hindi) ☐  
Rajasthan Patrika (Hindi) ☒  
Dainik Jagran ☐  
Jansatta ☐

and documented at WSE Die, CWC.

**बांध सुरक्षा विधेयक 2019- बिना अनुमति के बांध में प्रवेश करने पर दर्ज होगी एफआइआर**

# बांधों के लिए गठित होगा सुरक्षा संगठन, निर्माण में गड़बड़ी पर अफसर और ठेकेदार जेल जाएंगे

अशोक गौतम

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भोपाल. मध्य प्रदेश सरकार जल्द ही बांध सुरक्षा संगठन गठित करने जा रही है। केन्द्र सरकार ने हाल ही में बांध सुरक्षा विधेयक-2019 लागू किया है। इसके बाद हर राज्य में बांधों की सुरक्षा का जिम्मा राज्य बांध सुरक्षा संगठन के हाथों में होगा। संगठन के प्रारूप में बांधों की सुरक्षा से छेड़छाड़ और उसके निर्माण में गड़बड़ी पर सजा के कड़े प्रावधान किए जा रहे हैं। इसके तहत अब बांध निर्माण में लापरवाही पर जिम्मेदार अधिकारियों और निर्माता कंपनी या ठेकेदार को कड़ी सजा दी जाएगी। वहीं बांधों की सुरक्षा से छेड़छाड़ करने पर एक से दो साल की सजा और जुर्माने से दंडित किया जाएगा।

केन्द्र सरकार ने बांध सुरक्षा विधेयक-2019 लागू किया है। इसमें सभी राज्यों को राज्य बांध सुरक्षा संगठन गठित करने के लिए कहा गया है। संगठन गठित करने के लिए चार माह का समय है। इसमें अध्यक्ष, सेवानिवृत्त चीफ इंजीनियर स्तर का अधिकारी होगा। वहीं, सदस्य के रूप में बांध डिजाइन, हाइड्रोमैकेनिकल, इंजीनियरिंग, जल विज्ञान, भू-तकनीकी अन्वेषण, यांत्रिकरण और बांध पुनरुद्धार से जुड़े इंजीनियर और विशेषज्ञ शामिल होंगे।



**04** महीने के अंदर सरकार गठित करेगी बांध सुरक्षा संगठन, इसमें विशेषज्ञ होंगे शामिल

**930** छोटे-बड़े बांधों की सुरक्षा की जिम्मेदारी होगी संगठन के सदस्यों पर

## क्या करेगा बांध सुरक्षा संगठन

बांध सुरक्षा संगठन बांधों के निर्माण से जुड़ी डीपीआर अंतिम रूप देने के साथ ही निर्माण पर पैनी नजर रखेगा। साथ ही आपदाओं को रोकने के लिए सुरक्षा नीति तैयार कर सरकार को रिपोर्ट सौंपेगा। बांध से प्रभावित लोगों को बीमा कराने और उन्हें क्लेम दिलाने का काम करेगा। बांध में किसी तरह की गड़बड़ी होने

पर संगठन पूरी तरह से जिम्मेदार होगा। संगठन के सदस्य बारिश से पहले और बाद भी बांधों का निरीक्षण करेंगे। रिपोर्ट भारत सरकार को सौंपी जाएगी। इसके अलावा अगर कोई बांध क्षतिग्रस्त हो गया है तो उसकी मरम्मत के लिए राज्य सरकार और केन्द्र सरकार से समिति चर्चा करेगी।

## संकट में आ सकते हैं पर्यटन स्थल

प्रदेश के तवा डेम सहित करीब आधा दर्जन बांधों के किनारे पर्यटक स्थल बनाए गए हैं। इन स्थानों पर हमेशा लोगों की आवाजाही बनी रहती है। यहां लोगों के ठहरने के लिए गेस्ट

हाउस भी बने हैं। इस अधिनियम के बनने से इन पर संकट के बादल मंडराने लगे हैं, क्योंकि ये गेस्ट हाउस और बांध का भ्रमण करने वाले पर्यटक विधेयक का उल्लंघन करेंगे।

## बड़े बांधों पर तैनात होंगे सुरक्षाकर्मी

सुरक्षा के लिए प्रत्येक बड़े बांध में सुरक्षाकर्मी तैनात होंगे। ढलान की तरफ दीवार अथवा फेंसिंग की जाएगी। मुख्य द्वार पर गेट लगाया जाएगा। बाउंड्रीवाल के अंदर प्रवेश के लिए अधिकारियों से अनुमति लेना होगी। बिना अनुमति के बांध में प्रवेश करने या छेड़छाड़ करने पर केस दर्ज होगा।

## ऐसे होती है बांधों की निगरानी ये बांध होंगे संगठन के हवाले

अभी बांध जल संसाधन विभाग के मुख्य अभियंता स्तर के अधिकारी के अधीन हैं। बांधों की रिपोर्ट तैयार करने सेवानिवृत्त मुख्य अभियंता की दो सदस्यीय टीम है। यह सालभर में 20% बांधों का निरीक्षण करती है।

संगठन के हवाले के 3 मिलियन घन मीटर एमसीएम वाले बांधों का नियंत्रण होगा। इस तरह के प्रदेश में कुल 930 बांध हैं। 906 बांध बनकर तैयार हो गए हैं। 24 बांध अभी निर्माणाधीन हैं।

## विधेयक में कई प्रावधान

प्रदेश में राज्य बांध सुरक्षा संगठन बनाए जाने का प्रस्ताव तैयार किया जा रहा है। यह संगठन बांधों की सुरक्षा और उनके उपयोग पर केन्द्र और राज्य सरकार को सुझाव और अपनी रिपोर्ट पेश करेगी। बांध सुरक्षा विधेयक-2019 में बांधों की सुरक्षा से जुड़े कई कड़े प्रावधान किए गए हैं।

-भरत गोसावी, मुख्य अभियंता (बोधी) जल संसाधन विभाग



811-17



ली है। पश्चिम महाराष्ट्र के कोल्हापुर और सांगली जिलों में बाढ़ग्रस्त इलाकों में राहत एवं बचाव अभियान चलाया जा रहा है। वहां फंसे हुए लोगों को सेना और एनडीआरएफ की टीमें सुरक्षित जगह पहुंचाने में लगी हैं। सांगली जिले के

ब्रह्मानल गाँव के पास नौका पलटने की घटना के बाद तीन शवों को बरामद किया गया है। जबकि, छह लोग अभी भी लापता हैं। सागली के एक इलाके में सेना के जवानों ने भूखे-प्यासे घरों में फंसे कई छोटे बच्चों को बचाया।

ओडिशा : आज हो  
सकती है भारी बारिश

भुवनेश्वर। ओडिशा में कुछ समय तक बारिश रुकने के बाद रविवार से राज्य में फिर से भारी वर्षा होने की संभावना है। मौसम विभाग के अधिकारी ने शनिवार को बताया कि उत्तर पश्चिम बंगाल की खाड़ी के ऊपर सेमवार तक फिर से निम्न दबाव वाला क्षेत्र बनने की संभावना है। इससे ओडिशा के विभिन्न हिस्सों में अलग-अलग तीव्रता की बारिश हो सकती है।



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Indian Express	<input type="checkbox"/>	Business Standard	<input type="checkbox"/>	Rajasthan Patrika (Hindi)	<input checked="" type="checkbox"/>
The Hindu (New Delhi)	<input type="checkbox"/>	Tribune	<input type="checkbox"/>	Dainik Jagran	<input type="checkbox"/>

## देश में अब तक 100 से अधिक की मौत, कर्नाटक-केरल और महाराष्ट्र में बाढ़ का कहर जारी

पत्रिका ब्यूरो  
patrika.com

नई दिल्ली . देश के आंध्र दर्जन से ज्यादा राज्यों में बारिश और बाढ़ से अभी तक मौत का आंकड़ा 100 तक पहुंच गया है। तमिलनाडु, कर्नाटक, केरल, महाराष्ट्र, गुजरात में बारिश का कहर जारी है। केरल में बाढ़ और बारिश से पिछले कुछ दिनों में 35 लोगों की मौत हो चुकी है। वायनाड और मलप्पुरम में भूस्खलन से 50 लोगों के अब भी फंसे होने की खबर है। कई जगहों पर यहां खराब मौसम के कारण बचाव करने में दिक्कतें आ रही हैं। तमिलनाडु में भी बारिश के चलते 5 की मौत हो चुकी है।

### सरदार सरोवर बांध के 30 गेटों में 26 खोले

अहमदाबाद. गुजरात में वर्षाजनित हादसों में 17 लोगों की मौत हो गई। शुक्रवार से बारिश के चलते मोरबी जिले के मच्छुनगर में एक दीवार के धराशायी होने के चलते उसके नीचे दबने के चलते आठ लोगों की मौत हो गई। इसमें छह महिलाएं शामिल हैं। चार लोगों की अहमदाबाद जिले के बोपल में और चार लोगों की नडियाद में मौत हो गई, वडोदरा में दीवार के गिरने से एक बुजुर्ग की मौत हुई है। सरदार सरोवर बांध के 30 गेटों में 26 खोल दिए गए थे।

### 11 लोग एयरलिफ्ट किए गए

कोयंबटूर. वायुसेना ने शनिवार को नीलगिरि जिले के अवालांचे में फंसे 11 लोगों को सुरक्षित निकाला। नीलगिरि जिले के अवालांचे में पिछले सप्ताह से जारी बरसात के दौरान सर्वाधिक बारिश दर्ज की गई है।

## मुश्किल : बाढ़ प्रभावित जगहों पर खाने-पीने की चीजों की किल्लत



@ कर्नाटक

कर्नाटक में बाढ़ पीड़ितों को सुरक्षित जगह ले जाते सिविल डिफेंस के सदस्य।



@ सूरत

सूरत में बाढ़ पीड़ितों के लिए खाद्य सामग्री ले जाते युवक।



# 1st step towards storing rainwater along river

**TESTING THE WATERS:** CM Kejriwal, Union Minister Shekhawat Launch Pilot Project On 40-Acre Plot

Paras.Singh@timesgroup.com

**New Delhi:** With the Yamuna's level set to rise due to heavy rain in the capital and upstream states, the experiment of conserving excess rainwater on the floodplain was kick-started on Friday.

Sitting on top of an excavator, chief minister Arvind Kejriwal and Union jal shakti minister Gajendra Shekhawat launched the pilot project to create natural reservoirs on the floodplain to conserve rainwater. The pilot will be carried out on a 40-acre plot in Sangarpur near Palla before the project is expanded to 1,000 acres next year.

Kejriwal said the project was a good example of Centre-state cooperation as most of the clearances/approvals for the project were provided within just two months. Shekhawat said if the project was successful, the "Delhi model of water conservation" could be replicated at other places. "This is a unique experiment. I want this pilot project to be a success. It can become a model to be showcased not only in India, but across the world," the Union minister added.

The ambitious plan is aimed at charging aquifers using rainwater on the floodplain during the 15 flood cycles Delhi has annually. Small depressions will be created to catch water from the overflowing river during the monsoon.

The excavation work of removing the top soil and exposing the sand bed has started. "The top soil will be dug up to 1.5m. Due to farming and thick top soil, water is unable to percolate below the surface. The craters will store

water for 4-5 hours and allow it to percolate quickly. Flowing water has a lower percolation rate," said Kejriwal. Ankit Srivastava, the project's technical advisor, said a grid of 8-9 piezometers and borewells will be set up

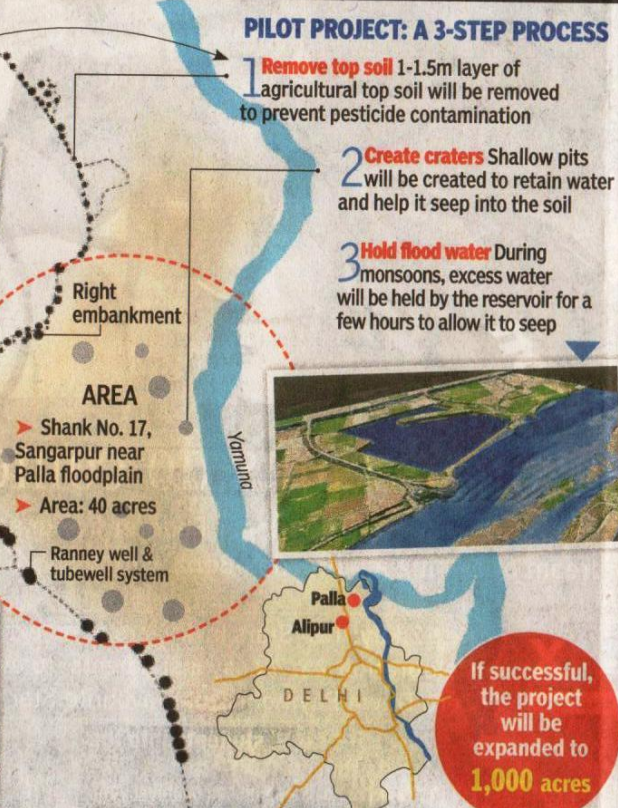
to measure underground water percolation rate and flow. "Readings from these piezometers will be fed into software to determine the outcome of the study," he added. The final results will be declared by the

end of monsoon in October. The study will look at clarifying debates on two outcomes—the speed of percolation rate and capacity as well as the flow direction in the sand bed. "Opinion of experts on percolation rates

## WHEN FLOODING CAN BE BENEFICIAL

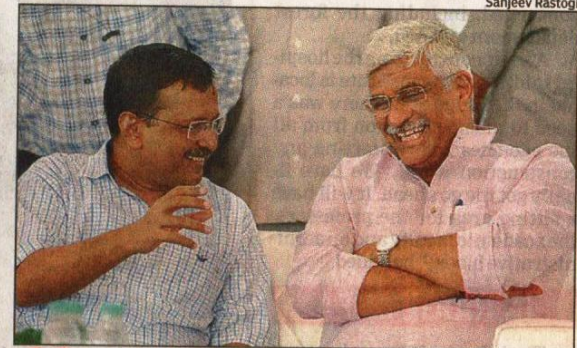


Photos: Sanjeev Rastogi



## PILOT PROJECT: A 3-STEP PROCESS

- 1 Remove top soil** 1-1.5m layer of agricultural top soil will be removed to prevent pesticide contamination
- 2 Create craters** Shallow pits will be created to retain water and help it seep into the soil
- 3 Hold flood water** During monsoons, excess water will be held by the reservoir for a few hours to allow it to seep



Sanjeev Rastogi

**“The project is a good example of Centre-state cooperation as most of the clearances/approvals for the project were provided within just two months**

**ARVIND KEJRIWAL**  
Chief minister

**“This is a unique experiment. I want this pilot project to be a success. It can become a model to be showcased not only in India but across the world**

**GAJENDRA SHEKHAWAT**  
Union jal shakti minister

vary from 2m per day to 10m. There is a 40m-deep sand bed on the floodplain, which runs for several kilometres,” the chief minister said.

“After creation of the reservoirs, we will measure the speed at which recharging will be done. The point till which water reaches horizontally (sideways) will also be ascertained. This will form the basis of launching the project on a bigger scale next year,” Kejriwal added.

The CM said that the world is facing a water crisis

and this pilot will show the way on how to resolve the major problem of depleting groundwater. PWD minister Satyendar Jain said the elders in the area had told him that earlier the water table was so high that people could fetch water by just using a *lota* (mug). “We hope to return the water table to that state again. Delhi government is also working on cleaning the river. We promise that in 2022 the entire cabinet will take a dip where Wazirabad nullah meets Yamuna,” he added.



<input type="checkbox"/> Hindustan Times	<input type="checkbox"/> Deccan Herald	<input type="checkbox"/> Hindustan (Hindi)	<input type="checkbox"/>
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<input type="checkbox"/> Rashtriya Sahara	<input type="checkbox"/> Dainik Bhaskar		

and documented at WSE Die, CWC.



**IMPACT**

**DEATH TOLL ▼**

Karnataka - 16

Kerala - 22

Maharashtra - 30

**EVACUATED ▼**

Maharashtra - 2 lakh

Karnataka - 1,24,291

Kerala - 22,000

# Amid Flood, Maha & K'taka Fight Over Almatti Outflow

ET-10/8

**Krishna Kumar  
& K R Balasubramanyam**

**Mumbai | Bengaluru:** Maharashtra and Karnataka are both ruled by the BJP, but the two states still appeared to have failed to coordinate properly on handling the flood situation. For nearly five days now, Maharashtra's three districts - Kolhapur, Sangli and Satara - have been under water. In spite of negligible rain since Thursday, the flood waters had not receded till Friday evening, particularly in Kolhapur and Sangli, because the Almatti dam in Karnataka had not discharged as much water as Maharashtra had demanded. Karnataka, however, maintained that it had discharged what was technically feasible in view of the safety of villages downstream.

The backwaters of Almatti dam fall in Maharashtra and, in view of the flood waters not receding, Maharashtra chief minister Devendra Fadnavis had asked his Karnataka counterpart BS Yediyurappa to increase the water discharge to 500,000 cusecs. Fadnavis had publicly said that he had stressed the urgency to Yediyurappa by saying that otherwise the entire Sangli city would go under water. Even Union home minister Amit Shah spoke to Yediyurappa on the issue.

Fadnavis had said that Yediyurappa had agreed to his demand. However, till Friday evening, the Karnataka government did not do as requested by Maharashtra. Senior Karnataka officials claimed that accepting Maharashtra's request would have caused havoc downstream as Karnataka too was reeling under heavy rainfall and flash floods.

This exasperated Maharashtra go-

vernment and officials as the water levels in Kolhapur and Sangli had not receded and thousands of residents in these two districts were left without food and water for the past five days. Villagers in these districts, frustrated with no government help, decided to organise their own rescues, one of which resulted in a tragedy as 16 people died when the boat in which they were being rescued capsized.

Yediyurappa tweeted on Friday to say that that Karnataka had adjusted the levels in the reservoirs so as to prevent inundation of downstream areas. "We have calibrated the discharge from Almatti based on the discharges from upstream reservoirs and inflows due to rains. We are ba-

## MAHA'S REQUEST



**Fadnavis had asked Yediyurappa to increase water discharge to 500,000 cusecs**

lancing the outflow-inflows in such a way that downstream areas are not put to risk," said a government official, who did not wish to be identified.

Karnataka officials said that the Almatti dam has a full reservoir level of 519.6 meters and the water levels were maintained at the maximum tolerable level of 517.10 meters.

According to people aware of the matter, till Friday morning the Karnataka government had not acceded to the requests of the Maharashtra government, forcing Fadnavis to bring the issue to the notice of the Centre.



News item/letter/article/editorial published on 10-8-2019 in the following newspaper

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Pioneer Delhi	<input type="checkbox"/>	Financial Express	<input type="checkbox"/>	Jansatta	<input type="checkbox"/>
Rashtriya Sahara	<input type="checkbox"/>	Dainik Bhaskar	<input type="checkbox"/>		

and documented at WSE Die, CWC.

# Cloudburst triggers flash floods in Kinnaur

Four hydropower projects closed | Two bridges and several houses damaged

**BHANU P LOHUMI**

TRIBUNE NEWS SERVICE

**SHIMLA, AUGUST 9**

A cloudburst at three places in Kinnaur district triggered flash floods on Friday. National Highway (NH)-5 was blocked at four places while two bridges, several houses and orchards were damaged. The flash flood also forced the closure of four hydropower projects.

The Hindustan-Tibet national highway was blocked at Ribba and three locations between Spillo and Pooh due to landslides.

The foundation of the Poorvani-Tangling bridge connecting Tangling village was eroded by gushing waters, while a bridge on the Ribba nullah was damaged.

The cloudburst occurred at three places — Kannam, Morang and the Tangling nullah — and water entered



A DAMAGED BRIDGE IN KINNAUR DISTRICT ON FRIDAY.

## 255 ROADS BLOCKED

Heavy rain that lashed several parts of Himachal flooded low-lying areas, besides causing a sharp fall in the mercury. As many as 255 roads — 123 in Mandi, 89 in Shimla, 26 in Kangra and 17 in Hamirpur — were blocked following landslides.

## TRAFFIC ON CHANDIGARH-MANALI NATIONAL HIGHWAY DISRUPTED



A jeep damaged by boulders.

- **Mandi:** The Chandigarh-Manali highway was blocked between Mandi and Kullu because of a landslide at Hanogi, Dwada and Banala Friday morning. Commuters were stuck in long traffic jam for hours on both sides of the road.
- Traffic had to be diverted between Mandi and Kullu via the Katola road for a few hours until the highway was restored.
- On Thursday, a big boulder hit a pick-up loaded with apple crop near Banala on the Chandigarh-Manali highway. All five occupants escaped unhurt.
- Although in day time today traffic was restored on the Chandigarh-Manali highway, vehicular congestion was still reported at the site of landslides. **TNS**

several houses. **T-10/8**

Deputy Commissioner, Kinnaur, Rakesh Sharma said no loss of life was reported. The restoration work was going on in full swing and the roads were expected to be restored by late evening.

There was a surge in the discharge of water in the Sutlej and its tributaries, causing an alarming rise in the silt level. It also forced the closure of the Nathpa-Jhakri, Karchham- Wangtoo, Rampur and Baspa hydropower projects. People living on the banks of the Sutlej and other rivulets have been advised to remain alert as the water level is expected to rise further.

The silt level at Khab on the confluence of the Sutlej and Spiti was recorded at 8,305 ppm and 1,270 ppm (particles per million), while at Nathpa Dam it was recorded at 16,000 ppm.



News item/letter/article/editorial published on 10-8-2019 in the following newspaper

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Rashtriya Sahara	<input type="checkbox"/>	Dainik Bhaskar			

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# Many States reel under monsoon fury, 70 dead

28 killed in Kerala, seven die in Karnataka's Kodagu

SPECIAL CORRESPONDENT  
NEW DELHI

The depression that has caused torrential rainfall mainly in Kerala, Karnataka, Maharashtra and Tamil Nadu, claiming at least 70 lives and forcing the evacuation of tens of thousands of people, is expected to abate from Saturday, the chief of the India Meteorological Department (IMD) said on Friday.

"Except for Rajasthan, there will be a marked reduction in rain from tomorrow [Saturday]. While these are extremely heavy rains, they are nowhere close to record rainfall that these States have witnessed in the past," M. Mohapatra, Director-General, IMD, told *The Hindu*.

Extremely heavy rain battered the western coastal States and many parts of the Western Ghats on Thursday night, killing 28 persons in central and northern districts of Kerala and prompting the evacuation of nearly 65,000 people.

## Rescue under way

Chief Minister Pinarayi Vijayan said in Thiruvananthapuram on Friday that at Kavalappara, near Nilambur in Malappuram district, rescue workers were struggling to trace at least 40 people



**Assessing loss:** Farmers surveying the damage to their crops at a village in Nilgiris district of Tamil Nadu. • M. SATHYAMOORTHY

feared trapped in a massive landslide. "Three bodies have been recovered," he said after a review meeting.

The bodies of nine people were recovered from Meppadi, Wayanad district, the site of a second landslide. "It is not yet clear how many people were affected... Rescue operations using excavators are in progress. Eleven deaths have been reported in Wayanad district so far," Mr. Vijayan said.

As of Friday, 64,103 people had been shifted to 738 camps in the flood-hit districts. Thirteen dams — seven maintained by the Kerala State Electricity Board and six by the Water Resources Department — were opened. Twelve teams of the NDRF were deployed and Army units rushed to Idukki

and Malappuram, he said.

The IMD has issued red alerts in seven districts — Ernakulam, Idukki, Palakkad, Malappuram, Kozhikode, Wayanad and Kannur — for Saturday.

In Karnataka, mudslides and flash floods in Kodagu district resulted in seven deaths in 24 hours, and eight people were reported missing. There was one rain-related death in Mysuru district. Rain intensified in the southern districts on Friday but abated in the north Karnataka districts.

**CONTINUED ON** ▶ PAGE 12  
**SEVEN KILLED, 35,000 RESCUED IN KODAGU** ▶ PAGE 8  
**AT LEAST 40 FEARED TRAPPED IN MALAPPURAM** ▶ PAGE 8  
**NAVY RESCUES 12 STRANDED NEAR POLAVARAM DAM** ▶ PAGE 8



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Rajasthan Patrika (Hindi) ☐  
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Jansatta ☐

and documented at WSE Die, CWC.

## उत्तर से लेकर दक्षिण <sup>Pk 10/8</sup> भारत तक बाढ़ का कहर

**महाराष्ट्र समेत केरल,  
कर्नाटक और तमिलनाडु में  
भारी बारिश से तबाही, 48  
मरे, कई लापता**

नई दिल्ली/मुंबई/कोझिकोड/ बेंगलुरु, (एजेंसी): उत्तर भारत से लेकर महाराष्ट्र समेत दक्षिण भारत के तीन राज्यों में भारी बारिश से हाहाकार मचा हुआ है। इन राज्यों में बारिश और बाढ़ की वजह से अब तक 61 मौते हो चुकी हैं। जबकि सैकड़ों लोग लापता बताए जा रहे हैं। मरने वालों की सबसे ज्यादा संख्या महाराष्ट्र में है। यहां अब 27 लोगों की मौत हो चुकी है, वहीं केरल में 23 और कर्नाटक में 9 लोग अपनी जान गवां चुके हैं। इन राज्यों में विस्थापितों की संख्या भी हजारों में है।

**महाराष्ट्र:** अब तक 27 की मौत, आज भी बारिश के आसार : महाराष्ट्र को भारी बारिश से अभी भी राहत नहीं है। मुंबई और आस-पास के इलाकों में आज भी जोरदार बारिश के आसार हैं। बारिश और बाढ़ से सबसे ज्यादा प्रभावित इलाकों सांगली, कोल्हापुर, सोलापुर, पुणे और सतारा में फंसे अब तक 2,05,591 लोगों को सुरक्षित स्थानों पर पहुंचाया जा चुका है, जबकि 27 लोगों की मौत हो चुकी है।



### कुल्लू और किन्नौर में बादल फटने से भारी नुकसान

शिमला, (वार्ता): हिमाचल प्रदेश में पिछले चौबीस घंटों के दौरान लगातार बारिश से आम जनजीवन अस्त व्यस्त हो गया तथा बादल फटने से आई अचानक बाढ़ से बिजली परियोजनाओं में उत्पादन ठप हो गया। वर्षा के कारण अनेक स्थानों पर भूस्खलन और बादल फटने से राष्ट्रीय राजमार्ग सहित अनेक सड़कें बंद हो गई हैं। बिजली, पानी और संचार व्यवस्था भी ठप हो गए हैं।

## कोच्चि एयरपोर्ट पर संचालन ठप्प



बारिश के चलते केरल में सभी स्कूल बंद शुक्रवार को बंद कर दिए हैं। इसके अलावा कोच्चि एयरपोर्ट में रविवार दोपहर तीन बजे तक विमानों का संचालन बंद कर दिया गया है। केरल राज्य आपदा प्रबंधन प्राधिकरण (केडीएसएमए) के अनुसार, बारिश के चलते बाढ़ में फंसे 22,165 लोगों को रेस्क्यू करके सुरक्षित जगह पर पहुंचाया गया और 315 राहत कैंपों में विस्थापित किया गया है। राज्य सरकार ने 13 एनडीआरएफ टीमों की मदद मांगी है जिनमें से 3 वायनाड, मलप्पुरम और इडुक्की पहुंच चुकी हैं। 12 बांधों- मनियार, मंलकारा, मंगलम, कल्लार, पंबला, एरातयार, लोअर पेरियार, कांजिरामपुझा और अन्य के दरवाजे भी खोल दिए गए हैं। केरल के सीएम ने बताया कि राज्य में 315 राहत शिविर लगाए गए हैं। इनमें करीब 22000 लोग हैं। इन कैंपों में ज्यादातर लोग वायनाड में हैं।