

Central Water Commission
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Subject: Submission of News Clippings.

The News Clippings on Water Resources Development and allied subjects are enclosed for perusal of the Chairman, CWC, and Member (WP&P/D&R/RM), Central Water Commission. The soft copies of clippings have also been uploaded on the CWC website.

P. Maheshwari
4.10.17
SPA (Publicity)

Encl: As stated above.

Deputy Director (Publication)

Director (T/D.)

4/10

For information of Chairman & Member (WP&P/D&R/R.M.), CWC and all concerned,
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NEW STUDY BY WEATHER EXPERTS

'Rapid warming of Arabian sea among causes of 3-fold rise in erratic rain in central India'

ANJALI MARAR
PUNE, OCTOBER 3

THE RAIN fury that lashed Maharashtra, West Bengal, Bihar and Assam this monsoon which displaced lives of lakhs of people could be the new 'normal', according to a study.

Scientists have recorded a three-fold rise in such erratic rainfall over central India — from Gujarat in the west up to Assam in the Northeast — and suggested that such rainfall events are going to be far more frequent in the coming years. They have attributed it mainly to the rapid warming of the Arabian Sea.

According to the study, 13 more incidents like these are noticed with the passing of each decade, thus making floods an annual affair for the people in Gujarat, Maharashtra, Jharkhand, Chhattisgarh, Madhya Pradesh, Bihar, West Bengal and Assam.

As part of this joint study, researchers, led by Roxy Mathew Koll from the Pune-based Indian Institute of Tropical Meteorology (IITM), along with experts from IIT-Bombay and University of Maryland, USA, have tracked this rising trend during the 1950-2015 period. Their study found widespread extreme heavy rainfall (150mm or more) over a span of more than 5 lakh sq km area along central India.

Statistics from the International Disaster Data Base show that close to 70,000 people lost their lives and another 8 crore people were rendered homeless in the 268 events of heavy rain, flash floods, torrential rain or landslides recorded over central India in the last six decades.

Sea warming has been noted along the north of the Arabian Sea — the Indo-Pak region — and along regions in the northwest closer to the Gulf. Koll said, "Due to excess warming, there is signif-

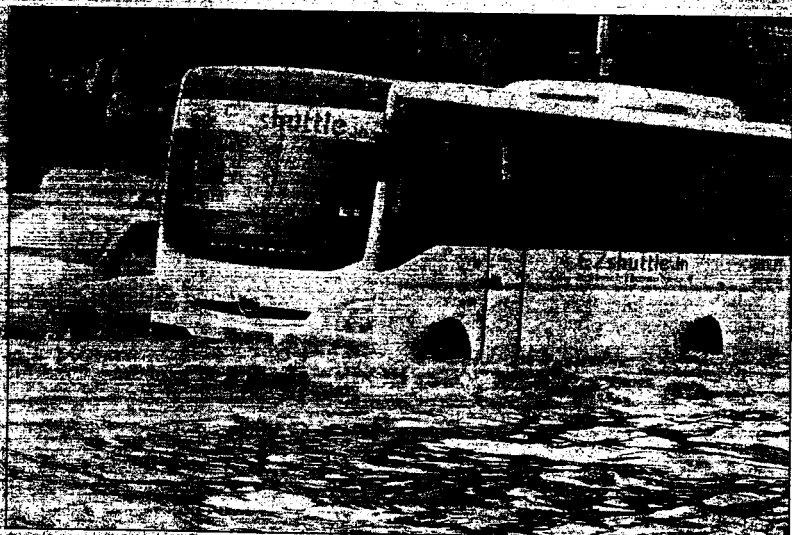
icant amount of moisture available in the atmosphere. This moisture then gets transported by strong surges of westerly winds over to the Indian main land during the monsoon, setting off the sporadic heavy rain fall over central India.

Human activities in the post-industrialisation period have triggered an exponential rise in greenhouse gas emissions and pollutants. In addition, frequency of events such as El Nino, the abnormal warming of central and east-central Pacific Ocean, have been nailed to be the driving forces for the warming of Arabian Sea in recent decades. Incidentally, the number of cyclones originating from the Arabian Sea has increased.

"Its impact on India has been mainly the change brought in the rainfall duration and amounts," Raghu Murtugudde, senior researcher from University of Maryland, told *The Indian Express* in an email reply. "On one hand, coastal and peninsular India has experienced rainfall deficits and for the last three years consecutive years, some parts of Karnataka and Maharashtra have remained dry. On the other hand, the Northwest is getting flooded far too often, and this trend is seen extending to the Northeast."

"All this simply indicates that pre-monsoon heat and humidity have increased, and it has the most severe impact on farmers, preparing their land for the monsoon season."

Unlike what was believed earlier — that depressions formed in the Bay of Bengal are responsible for most heavy rainfall between June and September over India — this study has painted a different picture. Researchers at IIT found that Arabian Sea holds as high as 36 per cent moisture, followed by land evaporation contributing up to 29 per cent, while at 26 per, moisture pumped in by Bay of Bengal contributes the lowest.



A road flooded by heavy rain in Hyderabad on Tuesday. PTI

RAIN & FLOOD TOLL IN 2016

BIHAR	GUJARAT	MAHARASHTRA	MADHYA PRADESH	ASSAM	ANDHRA PRADESH
146	81	63	48	33	21

(Source: State of Climate of India 2016, IMD)

Winter monsoon normal this year

ANJALI MARAR
PUNE, OCTOBER 3

THE NORTHEAST monsoon or winter monsoon this year is expected to be normal with rainfall expected between 89 per cent and 111 per cent of the Long Period Average (LPA), the India Meteorological Department (IMD) said on Tuesday.

Northeast monsoon is the main source for water supply for many southern states of India, especially Tamil Nadu, which receives 48 per cent of its annual

rainfall from it. For the coastal districts here, the rainfall dependence ranges up to 60 per cent while the interior districts it is anywhere between 40 per cent and 50 per cent of the annual rainfall, according to officials at IMD.

This rainfall is also important for interior Karnataka, Kerala and Lakshadweep, which primarily get rain from Southwest monsoon. Winter monsoon, between October and December, contributes about 20 per cent of the annual rainfall.

Similar forecasts were issued

at the 11th edition of South Asian Climate Outlook Forum (SAS-COF) held last month in the Maldives. Though global weather experts expect the upcoming monsoon season to be slightly below normal in Tamil Nadu and northern regions of neighbouring Sri Lanka, the overall rainfall is stated to be normal.

According to experts at IMD, a slightly below normal rainfall in Tamil Nadu will not have any adverse effect, given that the state has received surplus rainfall during the ongoing Southwest monsoon.

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Rain batters Hyderabad, normal life thrown out of gear

A total of 105 lakes out of 185 in GHMC purview are overflowing

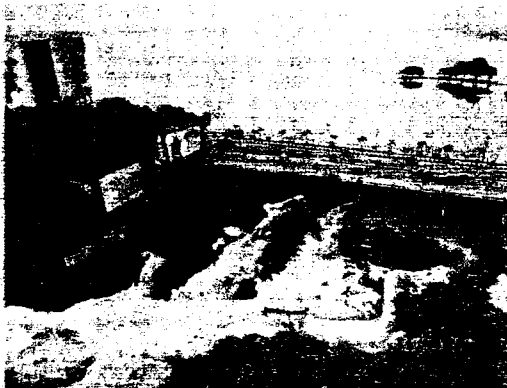
SPECIAL CORRESPONDENT

HYDERABAD

Grievances related to inundations, power cuts, tree falls and other emergencies poured in a day after the heavy cloudburst that pounded Hyderabad for a good two-and-a-half hours on Monday.

More than 1,100 complaints were received via three channels, 'Dial 100', Greater Hyderabad Municipal Corporation (GHMC) emergency call centre, and the mobile app, out of which the corporation could address only 187 by Tuesday evening. A total of 612 complaints were lodged on Monday, and 498 on Tuesday since 6 a.m.

The majority of the complaints pertained to water logging and inundation of colonies. While officials did not divulge information



To the brim: Water level has reached the maximum in the Hussain Sagar lake, Hyderabad, due to heavy rain. •K.V.S. GIRI

about total points of inundation, it is learnt that a total of 13,509 families from 106 localities across the city were identified as vulnerable in case of emergencies.

A total of 105 lakes out of

185 in GHMC purview are overflowing, while 55 lakes are 75% full.

Hussain Sagar is filled to the brim, with a recorded water level of 513.58 feet against the full tank level of

513.41 feet.

As many as 140 monsoon emergency teams and other personnel have been deployed to carry out relief and repair works, the Telangana government said. Three persons were killed in rain-related incidents in the city on Monday.

Food packets given

Municipal Administration Minister K.T. Rama Rao held a meeting with officials on Tuesday and directed them to take steps to drain out water and clear choked drainages.

The GHMC was providing food packets to those moved to safer places and advised citizens not to stay in dilapidated houses. The city water board has put up red flags and boards at manholes to warn people.

(With inputs from PTI)

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Heavy rain spells up 3-fold in central India

Neha.Madaan@timesgroup.com

Pune: Widespread extreme rain events, like the one that flooded Mumbai on August 29 this year, have tripled between 1950 and 2015 across central India, says a study by the Indian Institute of Tropical Meteorology published in Nature Communications on Tuesday.

The rise comes in the backdrop of decreasing monsoon rain in the region, making such events 'catastrophic', the study says.

Lead researcher Roxy Mathew Koll from IITM told TOI that the study focused on central India where the mean monsoon rainfall shows a decline and where about 60% of agriculture is rain-fed.

Koll said most extreme rain events had a large spread in central India — the region has an area of over 5 lakh sq km and a population of 50 crore — resulting in large scale floods.

"The average monsoon rainfall during 1950-2015 has wit-



INTENSIFYING OVER TIME

nessed a 10% decline over central India, with 20-30% decrease in some places. Meanwhile, the frequency of extreme rainfall events (over 150mm daily) over central India has increased by about 75%, and that of widespread extreme rainfall events (that cause floods) has increased by 200%," said Koll.

Koll said the analysis found that extreme events here are on the rise at a rate of about 13 events per decade. "...the extremes themselves are intensifying over time," he said.

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तेलंगाना में मूसलाधार बारिश से भारी तबाही, नौ लोगों की मौत



हैदराबाद में भारी बारिश से सड़कों पर जल-थल हो गया। (छाया: प्रेटर)

पंजाब-17-10-17

हैदराबाद, (वार्ता): तेलंगाना के हैदराबाद-सिकंदराबाद तथा राज्य के अन्य हिस्सों में कल रात हुई मूसलाधार बारिश से नौ लोगों की मौत गयी हैदराबाद में कल रात तेज बारिश से भारी तबाही हुयी। यहाँ दीवार गिरने तथा बिजली की चपेट में आने से तीन लोगों की मौत हो गयी तथा शहर के प्रमुख मार्गों पर पानी भर गया। राज्य के अन्य हिस्सों में बिजली गिरने से छह लोगों की मौत हो गयी।

कई आवासीय कॉलोनिमें घरों में पानी भर गया जिसके कारण लोगों को काफी कठिनाइयां

हुयीं। मूसलाधार बारिश तथा तेज हवाओं के कारण कई कारें तथा स्कूटर क्षतिग्रस्त हो गए। सड़कों तथा कालोनियों में पानी भर गया। हैदराबाद नगर निगम के आपातकालीन दस्ते ने करीब 40 परिवारों को बचाया। कई इलाकों में 10 सेंटीमीटर बारिश दर्ज की गयी। मीर आलम में सर्वाधिक 13.5 सेंटीमीटर बारिश रिकार्ड की गयी। तेलंगाना के मुख्यमंत्री के चंद्रशेखर राव ने बारिश से उत्पन्न हालात को आपातकालीन स्थिति बताया तथा लोगों को बहुत जल्द होने पर ही घरों से निकलने की सलाह दी है।

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बाकी नदियों से रेत खनन को हरी झंडी नई नीति आने तक नर्मदा में प्रतिबंधित रहेगा रेत खनन

पत्रिका न्यूज नेटवर्क

patrika.com

भोपाल, प्रदेश में नदियों में रेत खनन करने पर लगा प्रतिबंध हट गया है। सिर्फ नर्मदा नदी में रेत खनन अभी भी प्रतिबंधित रहेगा। नर्मदा में खनन इसी माह नई रेत खनन नीति की घोषणा के बाद ही हो पाएगा।

फिलहाल कलेक्टरों को निर्देश दिए गए हैं कि नर्मदा नदी में अवैध खनन न हो सके इसके पुख्ता इंतजाम किए जाएं। खनिज विभाग ने रेत की नई नीति का ड्राफ्ट फाइनल कर दिया है। इसे मंजूरी के लिए अगले हफ्ते कैबिनेट में पेश किया जाएगा। सीएम शिवराज सिंह चौहान ने नर्मदा को लेकर विशेष निर्देश दिए हैं। इस कारण नई नीति के आने तक केवल नर्मदा नदी में



खनन पर प्रतिबंधित रहेगा। बाकी नदियों के लिए हर साल के सामान्य नियम लागू होंगे। हर साल जून से सितम्बर तक मानसून अवधि में रेत खनन बंद हो जाता है और एक अक्टूबर से शुरू हो जाता है। इसी के तहत एक अक्टूबर से नर्मदा को छोड़कर बाकी नदियों में खनन शुरू करने की मंजूरी दी गई है।

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दिया: डाफ्ट
सरकार की सौपा
किसी के दिमाग में इस कठिनाई
के सम्बन्ध में नदी के बचने
से सम्बन्धित प्रश्न को डाफ्ट
मन्त्रालय की प्रधानमंत्री को
सौपा। इससे उन्होंने नदी को बचाने के
लिए किस तरह का कानून बने, इस बारे
में विस्तार से बातें रखी हैं। प्रधानमंत्री
ने सदन को बरोसा दिलाया कि वह इस
आमले में सकारात्मक पहल करेंगे।

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हैदराबाद में फटा बादल, भरा पानी, 7 की मौत



■ एजेंसियां, हैदराबाद : हैदराबाद में बादल फटने से हुई मूसलाधार बारिश से जनजीवन ठप हो गया है। लोगों के घरों में पानी घुस गया है। बारिश की वजह से हुए हादसों ने सात लोगों की जान ले ली है। मरने वालों में चार मछीने का एक बच्चा और उसके पिता शामिल हैं। दोनों की मौत दीवार गिरने से हुई। वहीं 4 लोगों की मौत आकाशीय बिजली गिरने से हुई। मौसम विभाग के मुताबिक, हैदराबाद में 82.6 मिलीमीटर बारिश दर्ज की गई। - लेट-4-10-17