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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.

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News item/letter/article/editorial published on

16.09.2018 in the

M.P.Chronicle

Aaj (Hindi)

Hindustan Times Statesman The Times of India (N.D.) Indian Express Tribune Hindustan (Hindi)

Punjab Keshari (Hindi) The Hindu \ Rajasthan Patrika (Hindi) Deccan Chronicle

Nav Bharat Times (Hindi)

Indian Nation Nai Duniya (Hindi) The Times of India (A) Deccan Herald Business standard

and documented at Bhagirath(English) & Publicity Section, CWC.

Arunachal flash floods death toll mounts to,4

One more body recovered from Assam

PRESS TRUST OF INDIA ITANAGAR

With the recovery of one more body from neighbouring Assam, the death toll in flash floods of Arunachal Pradesh has mounted to four while two others are still missing, an official said on Saturday.

Triggered by incessant rain in the past few days, flash flood and landslides af-

fected normal lives in several places of Itanagar, Capital Complex Deputy Commissioner Prince Dhawan said.

Twenty-six houses have been washed away while over 60 were fully or partially damaged at affected sites such as Modirijo, the Donyi-Polo area, Chandra Nagar, Lobi, GSS Police colony, Press colony, Mr. Dhawan said.

News item/letter/article/editorial published on 16.09.2019

Hindustan Times Statesman The Times of India (N.D.) Indian Express Tribune Hindustan (Hindi)

Nav Bharat Times (Hindi) Punjab Keshari (Hindi) The Hindu Rajasthan Patrika (Hindi) Deccan Chronicle Deccan Herald

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MOUNTAINS OF SEDIMENT, CHANGE IN DEPTH OF RIVER BEDS MAKE WATER TABLE GO DOWN

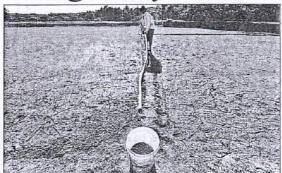
er the deluge, dry wells & streams in Keral

@timesgroup.com

Kochi: When the flood waters receded last month, Kerala had changed in more ways than the eye could see at first. Displaced people, wrecked houses and flattened plantations were obvious, but nobody thought water would become scarce in parts of the state just weeks later.

The rains abated on August 21, and since then streams have reduced to a trickle. More alarming is the fall in the water table at some places. The flood should have recharged groundwater, but many wells have run dry, and even collapsed.

It's happening because the flood - Kerala's worst in a century - moved mountains of sediment and riverbed soil, changing the balance between surface and groundwater, say geologists and water resources experts.



"Surface soil plays an important role in seepage of rainwater to the ground. Heavy flooding might have washed away the upper sandy soil into the sea," said P Nandakumaran, a member of Central Ground Water Board in Delhi.

While the flood deposited tonnes of silt on riverbanks, gushing waters made rivers deeper by carrying away sand from their beds. After the flood, the rivers settled at a

lower level than before, so the water in the wells around them also went down. Where groundwater is at a higher level, it is flowing back into the rivers, and thence to the sea.

Such changes have been reported from Chaliyar in Kozhikode and several other places, especially Bharathappuzha, said Dinesan VP, who heads the geomatics division of Centre for Water Resources Development and

The flood deposited tonnes of silt on the banks while gushing waters made rivers deeper. Rivers settled at a lower level after the flood, and water in nearby wells went down. Where groundwater is at a higher level, it is flowing back into the rivers, and thence to the sea

Management (CWRDM).

Dinesan said it's normal for rivers to have less water "but after the monsoon. changes in land use and disturbance of the natural environment have led to more visible damage this year."

Environmentalists cautioned against these changes almost a decade ago. A natural hazard zone map of Kerala drawn in 2009 showed that rapid urbanisation, environmental degradation and climate change were increasing the state's vulnerability to floods. Forests, wetlands and paddy fields play an important role in retaining rainwater, but Kerala's forest cover has halved and the area under paddy has shrunk to a quarter.

While half of Alappuzha is now considered floodprone, Thrissur, Ernakulam. Malappuram and Kottayam are vulnerable districts. In spite of Wayanad's elevation. its bottom valleys and floodplains are vulnerable. Ironically, Idukki, the centre of this year's flood, is considered the least flood-prone because of its rugged topography and absence of flat-bottom valleys.

The state government has asked Kerala State Council for Science, Technology & Environment (KSCSTEC) to study the changes in water resources, and suggest ways to fix them.

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मनोहरपुर/जयपुर. केन्द्रीय सूचना एवं प्रसारण राज्यमंत्री कर्नल राज्यवर्धन सिंह राठोंड़ ने कहा कि जमवारामगढ़ बांध और सांभर झील में पानी लाने के प्रयास किए जा रहे हैं। इस संबंध में सप्ताहभर पहले समझौता हुआ है। इसके तहत पाकिस्तान पहुंचने वाले जम्मू-कश्मीर की एक नदी के पानी को रोककर राजस्थान और पंजाब की तरफ मोड़ा जा रहा है। इससे प्रदेश में खुशहाली आएगी।

राठौड़ शुक्रवार को अपनी सांसद उपयात्रा के दौरान जगह-जगह लोगों टोडी, को सम्बोधित कर रहे थे। उन्होंने कहाँ, कांग्रेस झूठ के बल पर प्रचार वासीपुरा पहुंची। यात्रा शनिवार को कर रही हैं। गौरतलब है कि जमवारामगढ़ क्षेत्र में जाएगी।

मुख्यमंत्री वसुंधरा राजे कोटा के बाद जयपुर संभाग में राजस्थान गौरव यात्रा निकालेंगी। इसके लिए शुक्रवार को राठौड़ ने प्रदेश भाजपा कार्यालय से उपयात्रा शुरू की। प्रदेशाध्यक्ष मदनलाल सैनी ने इसे हरी झंडी दिखाई।

यह उपयात्रा 3 दिन जयपुर ग्रामीण संसदीय क्षेत्र में रहेगी। पहले दिन उपयात्रा का आमेर विधानसभा क्षेत्र के कार्यकर्ताओं ने कुण्डा एवं रूण्डल में स्वागत किया। राठौड़ शाहपुरा कुण्डाधाम स्थित परमानन्द महाराज से आशीर्वाद लेकर नवलपुरा पहुंचे। उपयात्रा मनोहरपुर, सुराना, : छारसा, खोरालाङखानी, उदावाला होती हुई

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रेणुका परियोजना का रास्ता साफ : गडकरी

नई दिल्ली विशेष संवाददाता 📙 🖒

यमुना घाटी की तीन प्रमुख बहु उद्देशीय परियोजनाओं में लखवार के बाद अब रेणुका परियोजना का रास्ता भी साफ हो गया है। परियोजना से जुड़े चारों राज्य उत्तराखंड, हिमाचल प्रदेश, हरियाणा व दिल्ली इसी माह एक समझौते पर हस्ताक्षर करेंगे। रेणुका बांध से मिलने वाली 40 मेगावाट बिजली पर हिमाचल प्रदेश का अधिकार होगा, जबकि पानी दिल्ली समेत चारों राज्यों में बांटा जाएगा।

केंद्रीय जल संसाधन मंत्री निर्तिन गडकरी ने बीते दिनों संबंधित राज्यों के मुख्य सचिवों और प्रमुख अधिकारियों के साथ बैठक में परियोजना से जुड़े सभी पहलुओं का समाधान निकाला। इससे पहले लखवार परियोजना के लिए पिछले माह सभी संबंधित राज्यों के बीच समझौता हुआ था, जिससे रेणुका परियोजना का रास्ता साफ हो गया था। रेणुका परियोजना का 90 फीसदी खर्च केंद्र वहन करेगा। राज्यों को 10 फीसदी खर्च ही देना पड़ेगा।



दिल्ली सरकार बिजली का 90 फीसदी खर्च उठाएगी

दिल्ली सरकार इस बात के लिए सहमत हो गई है कि वह परियोजना के बिजली घटक का 90 फीसदी खर्च वहन करेगी। इससे दिल्ली को पानी का लाभ तो मिलेगा ही, हिमाचल प्रदेश चाहे तो उसे बिजली बेच भी सकता है।

केंद्र मूर्मि अधिग्रहण की लागत वहन करेगा

परियोजना की एक और बाधा दूर करते हुए केंद्र ने भूमि अधिग्रहण की लागत वहन करने की सैद्धातिक मंजूरी दे दी। इसमें वन, पर्यावरण व पारिस्थतिकी लागत शामिल है। जल संसाधन मंत्रालय हिमाचल को इसके लिए 447 करोड़ दे चुका है।

लागत ४६०० करोड़ रुपये, १४८ मोटर ऊंचा बनगा बांच

रेणुका परियोजना के तहत यमुना की सहायक गिरि नदी पर 148 मीटर ऊंचा बांध बनाया जाएगा। इस पर कुल 4600 करोड़ रुपये की लागत आएगी। इसमें जल घटक पर 4325 करोड़ रुपये और बिजली घटक पर 275 करोड़ रुपये खर्च होंगे। बांध के जलाशय की इसकी जल भंडारण क्षमता 48.9 करोड़ धनमीटर होगी। हिमाचल प्रदेश को यमुना के 3.15 फीसदी जल का उपयोग करने का अधिकार होगा, इसके लिए उसे किसी से अनापति प्रमाणपत्र की जरूरत नहीं होगी। वह अपने हिस्से का पानी किसी को भी बेच सकेगा।

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जल स्वावलंबन अभियान में राजस्थान बनेगा देश में मॉडल : वेदिरे

मीडिया दल ने समझा जल प्रबंधन जल संरचनाओं को देखकर जाने फायदे

पत्रिका न्यून नेटवर्क

उदयपुरं . मुख्यमंत्री जल स्वावलंबन अभियान सिर्फ राजस्थान ही नहीं भारत का नाम विश्व में रोशन कर रहा है। इससे प्रदेश का भू-जल स्तर गत कुछ वर्षी



मुख्यमंत्री जल स्वावलंबन अभियान के तहत बनाए गए एमपीटी।

यह बात राजस्थान नदी बेसिन प्रदेश की स्थिति काफी बदल गई है देश मुख्यमंत्री जल, स्वावलंबन सर्वे सेटेलाइट और होन से किया जा एमपीटी एवं कई स्ट्रगर्ड ट्रेंचेज का विष्णुचरण मेलिक, जिला परिषद के जनप्रतिनिधि उपस्थित क



अभियान के कार्यों के निरीक्षण के दौरान पौधरोपण करते अधिकारी।

ग्रामीणों की जुबानी

हरियाली बढ़ी: महेंद्र सिंह भोपावत ने बताया कि अभियान के तहत ग्रामीण क्षेत्रों में बनाए गए एमपीटी से आसपास की पहाडियां हरी-मरी रहने लगी है। गत वर्ष की जुलना में इस वर्ष कुओं में भी पानी अधिक है। इससे लंबे समय तक सिंचाई के लिए और पीने के लिए पानी उपलब्ध

फसलों को नहीं होगा नुकसान: विजयलाल मीणा ने कहा कि एमपीटी होने से इस बार खेतों में फसल लहलहा रही हैं। हर बार बने की फसल के लिए केवल बारिश पर आजित रहते हैं, लेकिन इस बार भू-जल पर्याप्त मात्रा में हैं। ऐसे में पानी की कमी से फसल को नकसान नहीं होगा। पश्अों को भी मिला पानी: रामलाल ने बताया कि अभियान से पशुपालन में भी सहयोग मिल रहा है। पशओं के लिए पर्याप्त पानी उपलब्ध होने से सहयोग मिल रहा है। साथ ही पहाड़ियों पर भी चारा उग रहा है. जो पश्चा के चरने में सहयोगी है।

एवं जल संसाधन योजना जो देशभर में सुखे प्रदेशक नाम से अभियान को उनके देश में लागू रहा हैं। वेदिरे ने बताया कि अभियान निर्माण हुआ है। इन जल संस्वनाओं सीईओ कमर चौधरी, वाटर शेंड मातासुला ग्राम पंचायत के जड़ाव र प्राधिकरण के अभ्यक्ष श्रीराम बेदिरे । पहचाना जाता था, वहां पर अब भु- िकरने की तैयारी कर रहे हैं। जल्द ही े के चतुर्थ एवं पाचवें चरण के कार्यों में वर्षा काल में आए पानी से भूजल अधीक्षण अभिवंता सीएल सालवी, 20 हैंक्टेयर वन भूमि पर करीब ने महबार को उदयपुर प्रवास के जल स्तर में बीते कुछ सालों में 4 प्रधानमंत्री नरेंद्र मोदी भी इस का सर्वे ड्रोन से किया जाएगा जिससे स्तर में सुधार हुआ है। पीजोमीटर से नई दिल्ली रिथत राजस्थान सुचना 25000 पौधों का रोपण किया गया दौरान कही। उन्होंने मीडिया दल के फीट 6 इंच का इजाफा हुआ है जो अभियान को बड़े स्तर पर शुरू करने समय और मानव श्रम दोनों की नापने पर 1 मीटर से भी कम ग्रहराई केन्द्र के अधिकारी गोपेन्द्रनाथ भट्ट है। यहां पर 3 एमपीटी भी बनाए गर् साथ मुख्यमंत्री जल स्वावलंबन विश्व रिकॉर्ड हैं। 🌎 की तैयारी कर रहे हैं। अभियान के बचन होने के साथ ही गुणवत्ता पर जलस्तर मिला जो इन सहित अन्य अधिकारी एवं झल्लारा है। जिला वन अधिकारी (वीक्षाण) अभियान के तहन विकास कार्यों का 🥚 उन्होंने कहा कि इस सुधार के. न्वीथे चरण का सर्वे शुरू हो गया है. रहेगी। झल्लारा पंचायत के देवद में सरचनाओं से पहले 15 मीटर गहराई प्रधान, मातासूला व भवराणा आरके जैन ने अभियान के तहत हुए जायजा लिया। उन्होंने कहा कि बाद हिंदुस्तान ही नहीं विश्व के कई जिसकी खास बात यह है कि यह करीब 75 हेक्टेयर क्षेत्र में 12 तक था। इस अवसर पर कलबटर सरपंच सहित अन्य स्थानीय कार्यों के बार में बताया।

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M.P.Chronicle Aaj (Hindi) Indian-Nation Nai Duniya (Hindi) The Times of India (A) Business standard

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डतनी धीमी

ग्रामीण

नलकूप

हैंडपंप

योजनाओं में

ये होने हैं काम

पाइप युक्त जल योजना

डिग्गी (लघु तालाब)

की रिपोर्ट ने उनागर की खामियां : आधे वादे भी पूरे नहीं कर सकीं सरकारें ते गए साल, धीमी ही रही ल परियोजनाओं की चाल

हनार करोड़ की 54 में से 37 बड़ी परियोजनाएं अधूरीं



स्टोरी

शादाब अहमद

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जयपुर. चुनावी साल में पेयजल संकट भले ही जनता की परेशानी और सरकार की चिन्ता बढ़ा रहा है लेकिन राज्य में 30 हजार करोड़ की 450 से अधिक पेयजल योजनाएं ढिलाई की भेंट चढ़ रही हैं। राजधानी समेत राज्य का बड़ा हिस्सा पेयजल समस्या से जुड़ा रहा है लेकिन पेयजल परियोजनाओं को गति नहीं मिल पा रही है। इनमें कुछ योजनाएं तो ऐसी हैं जिनका काम 10 से 18 साल पहले शुरू हुआ लेकिन अब तक 50 फीसदी भी पूरा नहीं हो पाया है।

बीसलपुर बांध में पानी की आवक कम होने के कारण जलदाय विभाग बांध से जुड़े जयपुर समेत अन्य इलाकों में पेयजल आपूर्ति में कटोती कर रहा है। प्रदेश के अन्य इलाकों में भी पेयजल समस्या गहरा रही है। विधानसभा में भी यह मुद्दा उठा लेकिन कहीं जमीन पर कब्जा लेने तो कहीं ठेकेदारों के धीमे काम पर जलदाय विभाग ने ध्यान नहीं दिया। ऐसे में योजनाओं की गति धीमी होने के कारण तय है कि पेयजल समस्या दूर होने में अभी समय लगेगा। बढता पेयजल संकट बन सकता है चुनावी मुद्दा

26 हजार करोड़ रुपए लागत की

54 बड़ी पेयजल योजनाओं में से

योजनाओं की गति अत्यंत धीमी

कैग ने समन्वय बनाने की

कैंग ने वर्षों से चल रही योजनाओं पर ध्यान नहीं देने के लिए सरकारी अफसरों के रवेये पर आपत्ति जताई है। साथ ही जलदाय विभाग को दूसरे मंत्रालयों, विभागों और अधिकारियों से समन्वय स्थापित करने की सलाह दी है।

दी सलाह

अनरह साल बाद भी योजना अपरी

लवणता प्रशादित जीलपुर जिले के 106, भरतपुर के 945 गांवों और पांच कस्बों के लिए 1050 करोड़ की चंबल-भरतपुर-धौलपर योजना पर काम 1999 से शुरू हुआ था। इसके 7 में से सिर्फ एक पैकेज पूर्ण हुआ है। अब तक 378 करोड़ रुपए खर्च हुए हैं। योजना 1999 से चल रही है।

नागौर लिफ्ट परियोजना 494 गांवों के लिए 1194 करोड़ रुपए

लात से 2006 में शुरू हुई। यह अब भी अधूरी है। ठेकेदारों पर 26 करोड़ का जुर्माना लगाया लेकिन वसुला नहीं गया।

कोटा जिले के लाडपुरा तहसील की 77 बस्तियों की बोरबास पदमपुरा नयागांव कसार योजना का काम वन विभाग की आवश्यक मंजूरी के बिना होने के कारण 10 साल बाद भी अधूरी है।

14491 करोड़ रुपए लागत की ग्रामीण पेयजल योजनाओं में से

करोड़ की 119 योजनाएं भी तय समय से काफी पीछे

विलम्ब के कारण

बडी परियोजनाएं 05 परियोजनाएं

संबंधित विभागों से आवश्यक मंजूरी लेने में देर

13 परियोजनाएं जमीन पर कब्जा लेने में देर

06 परियोजनाएं आवश्यक मंजूरी और जमीन पर कब्जा लेने में देर

13 परियोजनाएं ठेकेदारों ने गति धीमी रखी, बजट की कमी

गामीण योजनाए

48 भूमि विवाद के कारण देर

मंजूरी जारी करने में देर की

15 स्रोत संबंधी देर मंजूरी में देर 08

बजट की कमी 03

24

अन्य समस्याओं के कारण

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Power games

Policymakers, not courts, should take charge to resolve structural issues in the power sector.

The Supreme Court has ordered a stay on the Reserve Bank of India's February 12 circular asking banks to recognise loans as non-performing even if repayment was delayed by just one day, and resolve them within 180 days. If banks failed to comply with the RBI's new rules, these stressed assets had to be forced to undergo swift insolvency proceedings under the new Insolvency and Bankruptcy Code (IBC). This comes just weeks after the Allahabad High Court refused to grant relief to troubled power companies facing action from the RBI. The apex court's decision to overturn RBI rules and transfer all pleas seeking exception from them to itself is clearly the biggest challenge against the IBC yet. It is likely to cause significant uncertainty in the resolution of stressed assets and undermine investor confidence in the bankruptcy process. The postponement of the Supreme Court's next hearing of the case to mid-November will send the signal that in contrast to hopes that asset resolution under the new bankruptcy regime would be done within a strict time frame, there are likely to be considerable delays in the resolution of stressed assets. Distressed power companies, and a number of other firms in the shipping, sugar and textile sectors, however, will be relieved as they are spared from bankruptcy proceedings for now. According to the Association of Power Producers, the Supreme Court's order will save stressed companies producing 13GW worth of power from being pushed to the doors of bankruptcy courts. Banks, too, will be happy as the reprieve will help them delay the recognition of bad loan losses.

The Supreme Court's decision to intervene, however, will do very little go d in the long run to either stressed power companies of their lenders. The troubles of power companies can be traced to structural issues such as the absence of meaningful price reforms, unreliable fuel supply and the unsustainable finances of public sector power distribution companies. Banks, on the other hand, are unlikely to make much money out of these stressed assets until these structural problems are sorted adequately to attract investors. Policymakers, not courts, need to take charge and resolve these issues. That said, the current insolvency resolution process is not without its flaws. According to a report released by the Insolvency and Bankruptcy Board of India earlier this month, lenders could realistically expect to recover less than a tenth of their dues if stressed assets are to be liquidated. This could be attributed to the IBC's overemphasis on the speedy resolution of bad loans over the recovery of maximum value from stressed assets. Not surprisingly, several power companies emphasise that their assets could yield better returns if the issues are resolved completely outside the purview of the IBC. The Supreme Court's decision has now provided lenders the chance to test this argument.

Covering L., YIS

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Flash floods claim 3 lives in Itanagar

PRESS TRUST OF INDIA

ITANAGAR, 14 SEPTEMBE

Flash floods triggered by a cloud burst claimed at least three lives while two persons went missing in the Arunachal Pradesh capital on Friday morning, police said.

Search and rescue operations are on to trace the missing duo, while two persons rescued are undergoing treatment at a hospital, officials said.

Body of a minor boy was retrieved from the Papu Nallah area, while body of another person was found in the Niriulil area, police said.

Nirjulil area, police said.

Awoman from the Donyi
Polo area, who was rescued
with multiple fractures, succumbed to injuries at the R
K Mission Hospital here, they
said.

Twenty-six houses have been washed away while over 60 were fully or partially damaged at affected sites like Modirijo, the Donyi Polo area, Chandra Nagar, Lobi, GSS Police colony, Press colony, said Prince Dhawan, Deputy Commissioner, Itanagar

The approach road to Modirijo was completely washed away, while half of a culvert in the Donyi polo area was reported to be damaged. A few cars and a few bikes were also reportedly swept away by the floods.

Chief Minister Pema Khandu has expressed deep shock and sorrow over the loss of lives. He announced immediate release of ex-gratia of Rs 4 lakh each to the next of the kin of the deceased and prayed for early recovery of those injured.

Assuring all possible support from the government, At least 26 houses have been washed away while 60 were fully or partially damaged. Five teams from the NDRF and four from the SDRF have been deployed

Khandu directed the district administration and the disaster management department to continuously monitor the situation.

The chief minister directed chief secretary Satya Gopal to personally oversee the rescue operation and shift the people from vulnerable areas to safer places.

Five teams from the National Disaster Response Force and four from the State Disaster Response Force have been deployed, officials said.

Itanagar MLA Techi Kaso was personally supervising the rescue operation and has directed the district administration to arrange blankets and other essentials for the affected people.

The administration has set up two relief camps at Modirijo government primary school and Donyi Polo government primary school, officials said.

The most affected areas include Modirijo, the Donyi Polo area, Lobby, Chandranagar and Chimpu, they said.

The land protection wall of several streams and rivulets in the state capital has been badly damaged following the floods.

Public Health Engineering Department sources said water tanks at Poma and Itanagarwere badly damaged, causing disruption in water

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Statesman

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Thai ambassador 'disappointed' with govt for refusing Kerala flood relief

NEW DELHI: Thailand's ambassador to India Chutintorn Gongsakdi has expressed his disappointment over procedural issues in accepting foreign assistance for relief work after floods wreaked havoc in Kerala in August.

The ambassador posted a tweet on Thursday evening, in which he referred to the issues with the offer offoreign help.

Thailand had proposed government-to-government assistance but it was "politely refused" by India, Chutintorn said. Business-to-government assistance by Thai companies registered in India was then proposed by the authorities. He claimed he was "politely advised not to be present at handing over" ceremony where the companies would handoverthe relief amount. The ambassador said he has asked Thai companies registered in Indiato proceed without his presence.

"I saw the suffering & I knew the private sector wanted to contribute. I just tried to find a way while respecting host government's guidelines. I believe in perseverance... I hope they contribute the ₹54,00,000," he said in reply to a tweet.

India does not accept foreign aid for relief work and had sensitised its foreign missions to convey the message to their respective governments. The contribution from Thai companies was to be handed over to the Resident Commissioner of Kerala in New Delhi. The amount would be donated to the Chief Minister's Relief Fund

The ambassador also posted a letter from the embassy to Thai companies expressing the envoy's inability to attend the functions to hand over the relief supplies.

The ministry of external affairs did not respond to a query about the envoy's tweets.

₹1,236-CRORE SPENT ON RELIEF WORK: MINISTER

An amount of \$1,236 crore has so far been spent by the Kerala government on relief works to overcome the devastation caused by the deluge last month, industries minister EP Jayarajan said on Friday

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3 killed in Arunachal flood, landslides

Three reported missing; water supply to Itanagar, Naharlagun disrupted

RAHUL KARMAKAR GUWAHATI.

Three people, including a minor, were killed and three reported missing after incessant rainfall since Wednesday caused landslides and flash floods between Arunachal Pradesh capital Itanagar satellite Naharlagun.

Officials of the State's Disaster Management Department said the incident occurred at Modirijo and Donyi-Polo areas, about six km from Itanagar.

Twenty houses were either washed away or partially damaged in the Midorijo area while nine houses were damaged by flood and landslides in the Donyi-Polo area. Many cars and two-wheelers were washed away or buried under debris, particu-

larly between the Potin and Pangin stretch of National Highway 13 where landslides have been reported in several places.

Two rescued

Two people were rescued by a search and rescue team. "Six people were swept away along with 12 houses built very close to a hill stream about 4 a.m. We recovered two bodies while a woman who was rescued alive, succumbed to her injuries in the hospital," M. Harshvardhan, Superintendent of Police of Capital Complex (comprising Itanagar and Naharlagun), told The Hindu.

"Teams of National and State Disaster Response Force have joined the search and rescue operation, but constant heavy rainfall has slowed things down," he said. Itanagar, on a higher altitude than Naharlagun, and the 15 km stretch in between have several streams that flow into the Dikrong river beyond.

Capital Complex Deputy Commissioner Prince Dhawan said water supply lines to large parts of the twin cities have been affected.

Condoling the death, Arunachal Pradesh Chief Minister Pema Khandu directed the authorities concerned to evacuate people from vulnerable areas close to streams.

He also announced immediate release of ex-gratia payment of ₹4 lakh each to the next of kin of the deceased.

The administration in Lakhimpur district, adjoining the flood-hit areas of Aru-

nachal, has put out a high alert after North Eastern Electric Power Corporation Ltd released water from its Ranganadi dam on Thursday. The hydroelectric project is at Yazali in Arunachal Pradesh.

Rising water levels

Officials said about 20 villages under the Naoboicha revenue circle in Lakhimpur have been inundated by the overflowing Ranganadi. The water levels of Dikrong and Singra are also rising due to heavy rain in the district and Arunachal Pradesh beyond.

Railway services between North Lakhimpur and Murkongselek were also disrupted on Friday due to rain-induced damage to the railway track, a Northeast Frontier Railway spokesperson said.

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'Pollution cools monsoon days'

Study says aerosol emissions cause temperature drop of 1 degree Celsius

R. PRASAD CHENNAI

Increased emissions of aerosols into the atmosphere due to pollution are beginning to have a definite cooling effect of 1 degree C during the Indian summer monsoon period, a study has found.

The increased cooling is seen during the day, while the night time temperature is increasing, thus shrinking the diurnal temperature difference. The diurnal temperature difference is what drives the convection process (where water evaporates and reaches the atmosphere as water vapour), and development of clouds.

Shape, characteristics

As diurnal temperature difference decreases, the lower layer of the atmosphere will reduce in height and come closer to the earth's surface.



This will cause more aerosols to get into the atmosphere, thus impacting the lower atmospheric turbulence, which may eventually affect the distribution of moisture and rainfall.

The increased concentration of aerosols in the atmosphere also tends to change the shape and characteristics of rain-bearing clouds, leading to extreme rainfall events but weakened monsoon rainfall," says Professor Sachchida Tripathi

Technology (IIT)-Kanpur.

Striking similarity

The study by a team of researchers led by Professor Tripathi, and Dr. Vijay Kanawade from the University of Hyderabad, found striking similarity between satellite data (2002-2016) and a global reanalysis modelled data that showed cloud structure being modified with increased aerosol emission.

Rain-bearing clouds were found to increase in number and height when aerosol emission is higher. The clouds also tend to have a far higher number of ice particles that are smaller in size when aerosol loading is higher, thus reducing the efficiency of water droplet growth, says the paper published in Nature Communications by Chandan Sarangi

from the Indian Institute of of IIT-Kanpur. "We found that when there is high aerosol loading, there will be more water droplets in the atmosphere. Once the droplets reach above the freezing level, ice formation begins. Heat is given off when ice formation processes begin. This acts as a fuel to make the cloud grow taller and thicker," says Dr. Kanawade.

> "When aerosol loading is higher, the anvil (cloud top) contains more number of smaller ice particles, which tend to reflect the shortwave radiation from the top of the cloud, leading to increased cooling of the earth's surface. Cooling by shortwave radiation surpasses warming by longwave radiation, leading to net reduction in daytime temperature during the summer monsoon," says Prof. Tripathi.

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Erratic monsoon rainfall in India partly due to air pollution: study

AMITABH SINHA PUNE, SEPTEMBER 14 18)

THE ERRATIC behaviour of monsoon rainfall, including the phenomenon of concentrated heavy rainfall on a small number of days, could, at least in part, be attributed to the rising air pollution, especially the increase in suspended particles in the atmosphere, a new study by scientists from IIT Kanpur has said.

The study, published in the prestigious journal, Nature Communications, on Friday has shown how excess aerosols, suspended solid particles like dust, smoke and industrial effluents, in the atmosphere is changing cloud patterns, its shape, size and other properties like temperature, which in turn is resulting in variability in rainfall over the Indian sub-continent during the monsoon season.

"Aerosols are extremely important for cloud formation. In fact, in the absence of aerosols, no clouds would be formed and consequently no rainfall will take place. But as we know, excess of everything is bad. That is what is happening here. An increase in the aerosol content in the atmosphere, a direct consequence of rising air pollution, is inter-

The study shows how aerosols, suspended solid particles like dust, smoke and industrial effluents in atmosphere is changing cloud patterns

fering with the stable cloud formation system and influencing rainfall patterns," S N Tripathi, professor at the Centre for Environmental Science and Engineering at IIT Kanpur and one of the authors of the study, said.

Tripathi said in short term, these changes in cloud structure and cloud dynamics lead to sharp variability in rainfall, the kind of which is being witnessed very often in India in the last few years. In the long term, it is likely to lead to an overall suppression of rainfall during the monsoon season, he said.

"This year, Nagpur and Ujjain witnessed unusually heavy rainfall on certain days. Such rainfall events are not normal. We suspect that changing cloud dynamics could have a role to play in events like these. The high pollution levels are not just changing cloud

shape and size and depth, but also its microstructure," Tripathi said.

Tripathi's student, Chandan Sarangi, is the lead author of the study. Other authors are Vijay Kanawade and Abin Thomas of University of Hyderabad, and Dilip Ganguly of IIT Kanpur.

The group analysed satellite data and data from atmospheric computer models from the last 16 years to make an assessment of the likely impacts of changes in cloud behaviour over land area of about 16 lakh square kilometres.

The linkage of air pollution to rainfall activity is not new and has been established in many earlier studies as well. Tripathi's team, however, has, for the first time, given details of the exact changes that take place in the clouds over India as a result of an increase in aerosols, and how this was leading to a reduction in the difference in day and night temperatures, and also impacting rainfall activity.

Since the Uttarakhand tragedy in 2013, India has had an unusually extreme rainfall event every year. Long-term rainfall data also shows that rainfall activity is getting increasingly concentrated to a few extremely wet days during the season, while most of the other days remain relatively dry.

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ECONOMIC TIMES

Govt Reinstates Safeguard Duty on Imported Solar Panels & Modules

Move follows Supreme Court order on imposing duties on equipment imported from China and Malaysia

Kaavya.Chandrasekaran @timesgroup.com

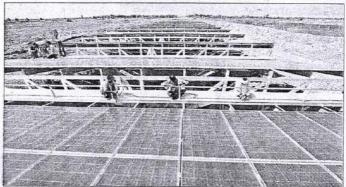
Bengaluru: The finance ministry has formally told the customs department to reinstate the safeguard duty on solar panels and modules imported from China and Malaysia, following an order of the Supreme Court.

The ministry has written to the chief commissioner of customs on Friday to reinstate safeguard duty and that its former order staying the imposition of the duty "now stands withdrawn with immediate effect".

This week, the Supreme Court had issued an order allowing the government to impose the duty, setting aside an order of the Orissa High Court that stayed the levy.

In mid-July, the Directorate General

In mid-July, the Directorate General of Trade Remedies (DGTR) had recommended imposing safeguard duty



ET ARCHIVES

of 25% on solar panels and modules imported from China and Malaysia for a year, followed by 20% for the next six months, and 15% for another six. Solar developer Acme Solar had chal-

lenged the DGTR's recommendation in the Orissa High Court, which temporarily stayed its notification. A final decision on the matter is yet to be reached.

Local solar manufacturers had complained to the Director General of Safeguards in December last year that growing imports of solar equipment were posing a serious threat to the domestic manufacturing business. In January, the DGS recommended setting a safeguard duty of 70% for 200 days on solar imports in a preliminary order. Following petitions filed by developers, the Madras High Court stayed the order. The DGTR announced its final decision in mid-July.

Around 90% of panels and modules used in Indian solar projects are imported from China and Malaysia because they are significantly cheaper than their Indian counterparts. The safeguard duty is likely to make the prices competitive, albeit for a limited period. However, it is also likely to raise solar tariffs, as solar developerspass on the added cost to discoms buying power from them.

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ECONOMIC TIMES

Heavy Rains Increase Kharif Crop Planting by 1% This Season

Our Bureau

New Delhi: Crop planting thiskharif season is about 1% higher than a year ago, with heavy rains across Rajasthan, Odisha, Madhya Pra-desh and eastern India in the last one week helping farmers speed up sowing.

According to agriculture ministry data, major crops have been planted on 1,053.03 lakh hectares this kharif season, compared with 1,045.55 lakh hectares a year ago. The area under coarse cereals, cotton and pulses has fallen, while that for oilseeds, rice and sugarcane has increased.

Although rainfall since June

1 is 8% below normal in the country, India's 91 major reservoirs currently hold 31% more water than they did a year ago. At 121.655 billion cubic metres, it is 11% higher than the 10-year average, suggesting better water availability for crops after the monsoon ends.

Rice, the main kharif crop, has been planted on 383.34 lakh hectares, which is 2.28% higher than the previous year, as per the ministry data.

The acreage under pulses has fallen by 0.86% to 137.41 lakh hectares, while that for moongbean and arhar are higher by 7.5% and 0.86%, respectively. Planting of uradbean is down 8.81%. The overall acreage for coarse cereals has declined 51.94 lakh hectares.

3.71% to 175.46 lakh hectares. Bajra, the major coarse cereal planted in summer, has seen a drop along with ragi, jowar and small millets.

Planting of oilseeds has increased by 3.09% to 177.29 lakh hectares. Farmers in rainfed parts have started planting castor, whose acreage has been increasing in the last few weeks. Soyabean planting is 6.37% higher at 112.50 lakh hectares. However, groundnut planting has fal-len by 2.88% and so has planting of sunflower and niger.

Cotton planting has dropped by 0.35% to 120.56 lakh hectares, while sugarcane acreage has increased by 4.17% to

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पहाड़ों से पानी निकालेगा जलबोर्ड

नई दिल्ली, (पंजाब केसरी): दिल्ली वालों की पानी की जरूरत पूरा करने के लिए दिल्ली जलबोर्ड अब पहाड़ों से भी पानी निकालने की तैयारी कर रहा है। जलबोर्ड पहाड़ी सतह वाले एरिया में ट्यूबवेल लगाने जा रहा है। इसके लिए जलबोर्ड की ओर से प्रॉजेक्ट भी तैयार कर लिया है। इसके लिए जलबोर्ड की ओर से प्रॉजेक्ट भी तैयार कर लिया है। इसके लिए नई तकनीक का सहारा लिया जाएगा। पहाड़ी सतह में खुदाई करके पानी निकालने के क्षेत्र में काम करने वाली कंपनियों से यह तकनीक मांगी जाएगी।

इस संबंध में कंपनियों से प्रजेंटेशन भी मांगी गई है। कंपनियों को कहा गया है कि वे एक महीने में अपने-अपने प्रस्ताव जल बोर्ड को भेजें, जिसका प्रस्ताव सबसे बेहतर होगा, उसी पर काम किया जाएगा। जल बोर्ड के एक



अधिकारी ने बताया कि इस प्रोजेक्ट की मदद से दिल्ली के हर कोने में पानी पहुंचाने की योजना को मदद मिलेगी। जलबोर्ड का कहना है कि उनके पास पानी की सप्लाई सीमित सोसं है। यमुना और मुनक नहर सबसे बड़ा सोसं है, लेकिन इसके लिए भी जल बोर्ड को हरियाणा पर निर्भर रहना पड़ता है। इन बॉटर ट्रीटमेंट प्लांट्स से

सभी जगह तक पानी पहुंचाना बहुत मुश्किल है इसलिए जल बोर्ड ट्यूबवेल का सहारा ले रही है, लेकिन जहां स्तर पहाड़ी है, वहां पर ट्यूबवेल भी नहीं है। उन्होंने बताया कि पहाड़ी सतह में बोरिंग सामान्य तरीके से नहीं की जा सकती। इस वजह से उस एरिया के लोगों को पानी की समस्या से दो चार होना पड़ता है। News item/letter/article/editorial published on 17.09.2018

Hindustan Times Statesman The Times of India (N.D.) Indian Express Tribune Hindustan (Hindi)

Nav Bharat Times (Hindi) Punjab Keshari (Hindi) The Hindu Rajasthan Patrika (Hindi) Deccan Chronicle Deccan Herald

M.P.Chronicle Aaj (Hindi) Indian Nation Nai Duniya (Hindi) The Times of India (A) Business standard

and documented at Bhagirath(English) & Publicity Section, CWC.

मू-जल जांच के लिए संयुक्त समिति बनाने का आदेश ्री

फरीदाबाद | वरिष्ठ संवाददाता

सेक्टर-छह स्थित औद्योगिक क्षेत्र की 60 कंपनियों से कथित तौर पर निकल रहे रसायनों के कारण सेक्टर-सात, चार, आठ, तीन और सेक्टर-नौ क्षेत्र का भू- है। टोटल हार्डनेस 200 के मुकाबले जल प्रदूषित हो रहा है। सेक्टर-सात 1,512 है। निवासी एक अधिवक्ता की याचिका पर नेशनल ग्रीन ट्रिब्यूनल ने भूजल और अधिवक्ता ने नगर निगम को शिकायत कंपनियों से निकल रहे रसायन की जांच दी। मगर, नगर निगम ने यह कहते हुए के लिए विभिन्न विभागों की एक संयुक्त कार्रवाई करने से इनकार कर दिया कि समिति बनाने का आदेश दिया है। समिति रेनीवेल प्रोजेक्ट के शुरू होने से इस को तीन माह के अंदर अपनी रिपोर्ट समस्या का समाधान हो जाएगा। इस पर एनजीटी को भेजनी होगी।

एनलाइटिकल लैबोट्री प्राइवेट प्लांट नहीं है या वे खराब हैं।

लिमिटेड से सेक्टर-सात के पेयजल की जांच करवाई थी। जांच में पेयजल मानकों पर खरा नहीं उतरा है। यहां टी डीएस यानी पानी में (टोटल डिजोल्व सोलिइस) 500 के मुकाबले 4,814

इस रिपोर्ट को आधार बनाकर पीड़ित ने इसी माह एनजीटी में एक सेक्टर-सात निवासी सुप्रीम कोर्ट याचिका दायर की थी। उन्होंने याचिका के अधिवक्ता गौरव जैन ने मैसर्स स्टैंडर्ड में बताया था कि फैक्टरियों में ट्रीटमेंट News item/letter/article/editorial published on 17.69.2018 in the

Hindustan Times Statesman

The Times of India (N.D.) Indian Express

Tribune

Hindustan (Hindi)

Nav Bharat Times (Hindi)\ Punjab Keshari (Hindi)

The Hindu

Rajasthan Patrika (Hindi) Deccan Chronicle Deccan Herald

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M.P.Chronicle

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हिंद महासागर में चीन की बढ़ती उपरिशति के महेनजर रणनीतिक लाम होगा, दोनों देशों के बीच सहयोग की यह सबसे बड़ी योजना

निगरानी के लिए भारत-फ्रांस मिलकर उपग्रह भेजेंगे

सहयोग

बंगलुर एजेरिया १०५/1

हिंद महासागर में चीन के बढ़ते दखल से निपटने के लिए भारत और फ्रांस मिलकर 8 से 10 उपग्रह कक्षा में स्थापित करेंगे। ये उपग्रह समुद्री निगरानी का काम करेंगे। यह जानकारी खद फ्रांसीसी अंतरिक्ष एजेंसी सीएनईएस के प्रमुख जीन यूब्स ली गाल ने रविवार को दी।

गाल ने कहा, भारत के साथ अंतरिक्ष क्षेत्र में फ्रांसीसी सहयोग की यह सबसे बड़ी योजना होगी।

उन्होंने कहा, प्रस्ताबित 8 से 10 उपग्रह मुख्य रूप से हिंद महासागर की निगरानी पर ध्यान केंद्रित करेंगे, जहां पर चीन की लगातार उपस्थिति बढ़ती जा रही है।

फ्रांसीसी एजेंसी के प्रमुख ने कहा, भारतीय अंतरिक्ष अनुसंघान संगठन (इसरो) के मंगल और शुक्र के अंतर ग्रहीय मिशन में भी फ्रांस विशेषज्ञता उपलब्ध करएगा। उन्होंने कहा, समुद्री निगरानी के लिए उपग्रह छोड़ने संबंधी बातचीत दोनों देशों में शरू हो गई है। इसमें समय लगेगा, लेकिन यह समय पांच साल से अधिक नहीं होगा।

मार्च में सहयोग के लिए हुए थे करार

फ्रांसीसी राष्ट्रपति की इस साल मार्च महीने में हुई भारत यात्रा के दौरान इसरो और सीपनईएस ने अंतरिब क्षेत्र में सहयोग को लेकर संयुवत दृष्टिपत्र जारी किया था। इसमें डिजाइन और तकनीक को संयुवत रूप से विकसित करने की बात की गई थी। उदाहरण के लिए स्वत पहचान प्रणाली, समुद्री और जमीन संपत्ति की निगरानी और सुरक्षा आदि।

08 से 10 उपग्रह समुद्री यातायात पर निवासनी यातायात पर निगरांनी के लिए मेजे जाएंगे



हिंद महासागर में समुद्री यातायात के प्रबंधन में सहूलियत फ्रांसीसी अंतरिक्ष एजेंसी सीएनईएस के प्रमुख जीन यूट्स ली गाल ने कहा, इन उपग्रहों से हिंद महासागर में समुद्री यातायात के प्रबंधन में सहतियत होगी। गौरतलब है कि भारत का मुख्य ध्यान हिंद महांसागर पर है।

'त्रिशा' पर सहयोग

दोनों देशों की एजेंसियां इफ्रारेड की मदद से घरती की निगरानी के लिए 'त्रिशा' उपग्रह और 'ओसनसेट-3 एग्रो' मिशन पर काम कर रहे हैं। सीएनईएस भारत के साथ जापान एयसेस्पेस एक्सप्लोरेशन एजेंसी और जर्मनी की अंतरिक्ष एजेंसी डीएलआर के साथ भी काम कर रहा है।

गगनयान पर साथ

इसरो और सीएनईएस ने पिछले हंपते भारत के पहले मानव मिशन गगनयान में सहयोग के लिए करार किया है। भारत का लक्ष्य 2022 तक इस मिशन को भेजना है। फ्रांस विशेषज्ञता मुहैया कराएगा। दोनो देश जलवाय परिवर्तन की निगरानी का मिशन मैघा-ट्रॉपिकस और सरल-अल्तिका पूरा कर चुके है।

News item/letter/article/editorial published on 17. 09. 2018

Hindustan Times \ Statesman The Times of India (N.D.) Indian Express

Tribune Hindustan (Hindi) Nav Bharat Times (Hindi) Punjab Keshari (Hindi) The Hindu Rajasthan Patrika (Hindi) Deccan Chronicle Deccan Herald

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As part of the new policy, farmers would have to be made aware of international demand and prices.

AGRI TRADE POLICY

Farm export limits could be fixed even during low supplies

NEW DEIH: India's proposed move towards a liberal agricultural exports regime will require the government to fix permanent threshold quantities offarm commodities that will be free from any kind of trade restrictions, a senior government official said.

Himplemented, this will be a

ment official said.

If implemented, this will be a critical shift away from past policies because the country will have to keep a certain level of farm exports going even when the supplies are low, for exam-ple during drought. Interministerial consulta-

Interministerial consulta-tions are currently on to finalise a new commerce ministry-an-chored policy on farm trade, in step with the government's tar-get of doubling farmere' income by 2022.

It seeks to boost agricultural exports from \$30 billion cur-rently to nearly \$60 billion by rently to nearly \$60 billion by 2022 and remover restrictions on trade of farm commodities, other than those "critical to the country's food security". India has frequently clamped down on farm exports to shore updomestic supplies and to keep prices in check. The new policy seeks to reverse this approach.

"We will now need to scientifically determine threshold limits of quantities of key commodities which will have to remain free for exports," agriculture secretary 5K Pattanayak said.

rectary SK Pattanayak said. To finalise the policy, author-ties will need extensive data crunching, fairly reliable outrunching, fairly remaine out-the estimates and harmonizing of domestic production with plobal demand, officials said after a review by the Prime Min-ister's Office last week.

ister's Office last week.

These are tough challenges, independent experts say. The sector is blighted by market imperfections, such as lack of transparency and information about prices, supply and demand. Middlemen often rig the system to their advantage.

The government's Doubling

THE NEW POLICY SEEKS TO BOOST AGRI EXPORTS FROM THE CURRENT \$30 BILLION TO NEARLY \$60 BILLION BY 2022

Farmers' Income (Volume I'

Farmers' income (Volume I) report last year stated thi India's exports policy "does not promote agricultural trade bit is mainly used to control prics in the domestic market". Fe instance, a three-year ban en non-basmatirice exports durig 2008-I1 amid a rice glut led ta "notional loss of \$5.6 billion". Such moves disrupt trade and create unpredictability framporting nations. India's fariers now have consistenty jacked up production of comodities such as sugar, onlon, soya, wheat and rice, causig prices to crash. Pulses outpit has shot up to about 17-18 million tonnes from 13-15 million tonnes from 13-15 million tonnes from 13-15 million tonnes from 13-15 million tonnes from 18-15 milli

to work, it is also importantic also have an open import policy. "For instance, our non-farm imports tariffs are around ASEAN levels, between 18-20%, but agricultural tariffs are still very high," he said. ASEAN is short for the Association of South-East Asian Nations. Pattenayak, the agriculture secretary, said as part of the new policy, farmers would have to be made aware of international demand and prices. "We aim to do this through farmer to work, it is also important to

aim to do this through farmer producer organizations," he said.

Covering L. YIS

News item/letter/article/editorial published on 17.09.20/8

Hindustan Times Statesman The Times of India (N.D.) Indian Express Tribune \ Hindustan (Hindi)

Nav Bharat Times (Hindi) Punjab Keshari (Hindi) The Hindu Rajasthan Patrika (Hindi) Deccan Chronicle Deccan Herald

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Harbir Singh at his nursery in Dadlu village, Kurukshetra. Source: NMOOR AGRICULTURE MINISTRY

Indian roots of Italian chillies

1-17 VIJAY C ROY

USH green Italian chilli farms have roots in Haryana, thanks to Harbir Singh, an enterprising farmer of Dadlu village in Kurukshetra. He has been exporting chilli seedlings to Italy for the past three years. So far, he has exported about 1 lakh seedlings.

Holder of a master's degree in political science from Kurukshetra University, Singh chose farming over a nine-to-five job. Like others, he started his farming career with wheat, paddy and vegetables. He, however, wanted to do something different that would be exciting besides more remunerative than the traditional farming.

"The earning from traditional agriculture was diminishing, so I was compelled to MAJOR AGRITECH STARTUP DEALS

into raising a nursery for vegetable farming," says Singh.

Initially, he began with a nursery on a small land spread over around 2 kanals (roughly 1,000 square yards). Despite having burnt fingers after incurring huge losses in the first two years, he did not give up. He experimented with several vegetables including green chilli, tomato, capsicum, brinjal, onion and cauliflower of different hybrids and varieties.

Now his vegetable nursery is spread over 15 acres. Out of the total 14 acres are open while one acre is under the polyhouse. Today, on an average, he raises around 10 crore seedlings per annum.

What made Singh famous was the uniqueness of his crops. His plants that were first popular only in Haryana, soon

Startup	Investment	Investor	Period
RML Agtech	\$4 million	lyycap Ventures	Jan-17
Paalak.in	Undisclosed	Angels ,	Feb-17
Agrostar	\$10 million	Accel, IDG, Aavishkar	Mar-17
Farmart	Undisclosed	Indian Angel Network (IAN)	Mar-17
Waycool	\$2.7 million	Aspada Ventures	Apr-17
Ninjacart	\$5.5 million	Nandan Nilekani	Apr-17
Utkal Tubers	\$4.6 million	CapAleph, Zephyr Peacock	May-17
Crofarm	\$783 thousand	Factor [E] Ventures	Aug-17
EM3 Agriservices	\$10 million	Global Innovation Fund, Aspada	Aug-17
Cropin	Undisclosed	Beenext, Ankur Capital, BSP Funds	Sep-17
Gold Far W	\$2 million	Mahindra & Mahindra, Infuse Ventures	Oct-17
Farmtaza	\$8 million	Epsilon Venture Partners	Oct-17
Gobasco	Undisclosed	Matrix Partners	Nov-17
Farmlink	\$3 million	Pioneering Ventures, Syngenta	Nov:17
	ar inclusive to	STATE OF THE PROPERTY AND PROPERTY OF THE PROP	and the same

diversify. Finally in 2005, I took a plunge became a favourite of people across the country and abroad.

He developed a low-cost vegetable nursery at his farm and helped other farmers in diversifying from traditional crops to remunerative vegetable farming. He made refinement in technologies and management practices for cultivation at the micro level.

"We have evolved innovative ways of nursery media preparation with available local material," he says. The nursery media preparation developed by him were biogas slurry, river bed sand containing silica and burnt rice husk ash for growing vegetables. Later, he also added drip irrigation and micro sprinklers.

He has established a laboratory for experiments and after trials the plants are recommended for cultivating vegetable nursery. Currently, he is meeting the seedling requirements of over 7,000 farmers from neighbouring states of Rajasthan, Punjab, Himachal Pradesh, Uttar Pradesh, Uttarakhand and Bihar.

A large number of farmers are associated with him and getting the nursery on advance booking. His skills in diversification and innovative ways of cultivation have earned him several awards and recognitions from government and private agencies. In 2015, he was awarded as best horticulturist of Haryana. Due to his achievements in farming sector, Singh was awarded the NG Ranga National Farmer Award by the Indian Council of Agricultural Research in 2017. He also got Haryana Nursery Ratan award in the third Haryana Agri Summit, 2018.

"Each and every farmer wants to earn profit, but to earn profit we have to walk hand in hand with technological advancements in agriculture", says Singh.

He has specially brought papaya seeds from Taiwan and America for his nursery.

Startups in India Application for startups 16,324 Officially recognised 11,129 550 Mentored for incubation Government funding ₹10,000 cr 2025 To be released by 142 Startups received funds ₹602.60 cr Total funds received

incubators: Existing and propos	ea"
Indian School of Business	Punjab
National Institute of Technology	Kurukshetra
Entrepreneurship Developm ant Institute	J&K
JCBL Limited	Chandigarh
*UNDER THE ATAL INNOVATION MISSION (AIM)	

DIS (IDIS)
Himachal Pradesh
Punjab
Punjab

Agri startup funding







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Reform is all about getting the politics right

FACING RISK Electricity is invariably political in India Far from de-politicising the sector, reform will require deeper, but careful engagement with politics

> Navroz K Dubash, Sunila Kale and Ranjit Bharvirkar

he Indian economy is among the fastest growing in the world. Sustaining this growth requires a healthy electricity sector that is able to meet increased demands, ideally alongside an eye to environmental sustainability. Yet, electricity consumers continue to face unreliable supply, distribution utilities are in poor financial health, and, most problematic, power plants remain underutilised even as universal 24 X 7 supply remains an unfulfilled promise. Far from buttressing growth, the sector risks acting as a drag on the economy as its poor finances reverberate through the Indian

banking sector in the form of stubbornly intractable Tomorrow non-performing assets. Transformation These long-standing

in Uttar Pradesh

sisted for want of attempted solutions; opening up the sector to private generation; regulatory reforms; an omnibus federal Electricity Act in 2003 to introduce competition; and successive efforts to restructure discomfinances. The persistence of utility failures speaks to an underlying flaw in the approach taken thus far. All pastreform efforts have had, at their core, a common effort to insulate the sector from politics.

problems have not per-

In our recently released book Mapping Power, we argue that this approach is misplaced. Electricity reform will succeed only by providing greater political payoffs than the flawed status quo. In a developing country like India, where citizens' life chances are strongly influenced by electricity access, costs, and performance, electricity is invariably political, and this is how it should be in a democratic polity. Far from de-politicising the



deeper, but more careful, engagement

with politics. Is productive political engagement possible in the power sector, leading to simultaneous electoral and electricity gains? To explore this question, we worked with a set of talented researchers to examine the politics of electricity in fifteen states from the mid-1990s to the present. In this introductory article we explain what our work suggests, not only for why politics is important for India's power sector but how it is best examined and addressed. In articles that will appear throughout this week in these pages, four of our colleagues share their state-level case study findings.

Our framework for mapping power can be summarised in three steps.

First, start with understanding statespecific factors driving politics and power. Thus, electricity politics may be driven by subsidy and quality of service in Delhi, procurement politics in Jharkhand, farmer subsidies in Punjab, the balsector, successful reform will require ance of farmer and industrial interests in reform process and the interaction

Maharashtra, and high loss levels and theft in Uttar Pradesh.

As this suggests, mapping power requires exploring politics beyond the power sector alone, including party politics, the politics of regionalism within states, and patterns of economic development. While national-level politics and technology drivers are also important, the starting point must be dynamics that are state-specific

Second, four categories are crucial to understand the political economy of power: demand for access and service quality, demand for subsidies, cost of supply, and available financial space.

The first two_demand for access/ quality and subsidies-represent political demands placed on the system, and the last two represent the extent of breathing room that enables states to manage those political demands. While the importance of each of these factors may vary across states, collectively these four categories, combined with the between them as shown in the figure, constitute a way to map the political economy of power in states

Third, applying this understanding to aforward-looking analysis, how can state governments pursue a virtuous cycle between electoral and electricity politics? In a state such as Bihar, the answer lay in promising and delivering on energy access, taking advantage of low cost power in surrounding states. In Gujarat, creatively managing farmer pressure through a mix of technical solutions and political promises was key.

Other states are trapped in a vicious cycle, and the starting point is to tackle the driving factors whether the expanding scope of subsidies in Tamil Nadu, or high cost supply and high losses in Rajasthan. Applying this framework, which leads to diverse state-specific explanations, also allows us to comment on the national-level electricity challenges described earlier.

With regard to electricity for the poor, electoral gains and electricity outcomes

point in opposite directions. In an effort to limit their losses, discoms have strong disincentives to connect new citizens to the grid and provide only minimal quantity and quality of supply to the connected poor, because most pay below-cost tariffs.

Simply calling for tariff increases to match costs is unlikely to win voter consent, given the low credibility of discoms to deliver improvements.

Resolving this situation requires developing a state-specific pathway that appropriately sequences politically credible quality improvements and tariff increases alongside, expanding the financial space to actually implement such a pathway.

Moreover, distribution company finances could be further squeezed by slower growth in industrial electricity demand, which would limit the amounts of cross-subsidies available to compensate for low paying customers.

Periodic ballouts, the most recent of which is UDAY, are intended to alleviate this financial pressure on distribution **Crucial factor**

Four categories are crucial in understanding the political economy of power: demand for access and service quality, demand for subsidies, cost of supply, and available financial space. The first two represent political demands placed on the system and the last two represent the extent of breathing room that enables states to manage those political demands. While the importance of each of these factors may vary across states, collectively these four categories. combined with the reform process and the interaction between them as shown in the figure, constitute a way to map the political economy of power in states.

State political economy of power Demand for Lemand for service quality subsidies

Available financial space Cost of supply

Reforms

- Regulators **■** Privatisation **■** Bailouts

= Renewable energy Promotion

But unless the breathing room created by UDAY is explicitly and intentionally used to fundamentally alter some mix of the four key factors described above -political demands for access and subsidies, or supply costs and fiscal space-the result will only be to kick the financial can down the road.

Solving India's electricity problems by continuously devising ways to shut out politics and pretend the sector can be run apolitically simply will not work.

This is not to be naïve and suggest that the power sector must be swayed by every political gust. Rather, we need more creative politics, based on a careful analysis of state-specific links between politics and electricity, which can credibly promise and deliver on long-term electricity gains, and reap long-term political

(Dubash is Professor, Centre for Policy Research, Kale is faculty at the University of Washington, and Bharvirkar is Principal at the Regulatory Assistance Project.) News item/letter/article/editorial published on 17.09.2018 in the

Hindustan Times Statesman The Times of India (N.D.) Indian Express Tribune ' Hindustan (Hindi)

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M.P.Chronicle Aaj (Hindi) Indian Nation Nai Duniya (Hindi) The Times of India (A) Business standard

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Seeds

The agri startup is a healthy emerging trend where young entrepreneurs promise the farmer a long-term bonding of mutual trust, says Bhuwan Bhaskar

entrepreneurship Th

HE idea to use technology through corporate intervention is still remote in the Indian agriculture sector. For decades, the agrarian and industrial economies were treated as unrelated entities, hence agriculture still looks at corpo rate interventions with suspicion. Until recently, companies' involvement in the farming communities was only through the corporate social responsibility (CSR). Anything beyond CSR raises distrust.

There was some basis for this mistrust.
While some corporate bigwigs did try to
work in the fields with farmers posing as
their friends, but it often turned out to be a proxy of marketing techniques to sell their seeds, fertilisers, pesticides and other materials.

and other materials.

Thankfully, this situation is changing. In the past couple of years, the corporate spectrum in the country has witnessed a number of entrepreneurial initiatives, where the modus operandi is to connect with the farmers in the field, apparently for better yields through technological interventions and crop diversification.

interventions and crop diversification.

This latest trend is different from earlier attempts of the corporate majors. Now, er attempts of the corporate inajors, stow, most of these initiatives are being spear-headed by young professionals with humble backgrounds who have 'farmer welfare' and 'zeal to do something better for agriculture' at the core of their business philosophy.

They have a clear ethos: farms and farmers are not the subject of experiments. Unlike earlier attempts by big companies. these young entrepreneurs neither intend, nor do they try treating agricultural fields as their live laboratories. For them, the field is the boardroom and farmers are the field is the boardroom and farmers are the partners in progress. There is no pretence of any high moral stand. It is pure business, a well-planned strategy for the startups. The model of these newly developed corporate initiatives, often termed as agristantups, is such that they need long-term startups, is such that they need long-term bonding and mutual trust between the entrepreneurs and their clients (farmers). Unlike corporate, agri startups do not need thousands of hectare of land to trans-

form farming by implementing their lab experiments the ground and make huge profits for shareholders. They need sufficient land for their bread and butter. Star-tups know that they would be out of busi-ness if the land and the farmers working with them turn hostile.

These startups have some salient features. Mostly, they work as aggregators of

products and technologies. Agri Hub, Big Haet, EM3, Agro Star are some startups which are developing themselves as platforms to provide facilities to choose from multiple options in a particular segment. In their endeavour to cater to more and more farmers with utmost effectiveness, they continuously pursue new technological advancements in their respective special advancements in their respective special advancements of the special speci cialities and the end beneficiary is, of course, the farmer.

Agri Hub has developed an expertise in polyhouses, net houses and mulching, mostly based on technologies developed and being practised in Israel and Germany. With its endeavour to produce a ipedia of Agriculture", the company provides various product offerings under seeds, fertilisers, irrigation, plant-protec-tion, planting material, farm tools and equipment sections. Big Haat has its core

interest in seeds, and provides farmers an access to around two dozen brands of healthy and authentic seeds. Delhi-based EM3 is providing the latest agricultural equipment to farmers at a low cost. The company rents out high-end company tents out high-end company to farmers. Pune-based Agro Star is also providing agri equipment and other inputs to farmers.

Such companies have done a great job in empowering the farmers to choose agri inputs from a range of national and international brands sitting in their villages. These companies understand that their business success durant land. These companies understand that their business success depends upon how much goodwill they earn from farmers and that this needs long-term engagement with their consumers. That is why most of these companies not only sell products, but also facilitate farmers to get expert opinion as and when required. These companies run

their business through technology-driven resources like the internet and smart phones. This way, these companies are also helping the country to move towards financial inclusion and digital transformation.

There is another set of companies like

Green Digital and SatSure, which are providing unique services to farmers. Digital Green makes small video tutorials featuring successful farmers and shows it tooth er farmers letting them experience the change in real terms. SatSure aims to create an archive of images taken every eight days for 15 years. After creating the bank. experts in the company will analyse the pictures on various parameters, like crop and ground water. The data will be sold to various government and private agencies to help them carry out their jobs with more precision and accountability. Especially in the case of farm-loss claims under

the Prime Minister Crop Insurance Scheme (PMCIS), such data will be of immense help to settle the claims fairly and quickly. Another startup Barixx Ago Sciences offers eco-friendly crop protec-tion methods after much research on products that support organic farming to increase crop produce and quality with minimal expenditure. There are many more on the list.

These startups have two very clear messages for the world: Indian agricul-ture is on the cusp of a silent revolution, and agriculture is no longer a business based on primitive agrarian practices. Naturally, supportive government poli-cies with foreign and domestic investments will go a long way in achieving the dreams of agri startups.

- The writer is AVP, NCDEX Views are personal



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TyphoonpoundsSouth China; death count 64

More than 2.4 million people had been evacuated from Guangdong province

ASSOCIATED PRESS

HONG KONG, 16 SEPTEMBER

yphoon Mangkhut barrelled into southern China on Sunday after lashing the northern Philippines with strong winds and heavy rain that left at least 64 people dead and dozens more feared buried in a landslide.

More than 2.4 million people had been evacuated in southern China's Guangdong province by Sunday evening to flee the massive typhoon and nearly 50,000 fishing boats were called back to port, state media reported.

The gambling enclave of Macau closed casinos for the first time and the Hong Kong Observatory warned people to stayaway from the Victoria Harbour landmark, where storm surges battered the sandbagreinforced waterfront.

Hong Kong's RTHK broadcaster cited experts as saying Mangkhut was expected to be the strongest typhoon to hit the city in decades.

The Hong Kong Observatory issued its strongest storm warning for 10 hours on Sunday, just slightly shorter than the record time of 11 hours set by Typhoon York in 1999, the South China Morning Post reported.

The storm made landfall in the Guangdong city of Taishan at 5 p.m., packing wind speeds of 162 kilometres per hour. State television broadcaster CGTN reported that surging waves flooded a seaside hotel in the city of Shenzhen. Groceries flew off the shelves of supermarkets in the provincial capital of Guangzhou as residents stocked up in anticipation of being confined at home by the typhoon, China's official Xinhua News Agency said.

Authorities in southern China issued a red alert, the most severe warning, as the "Each department must



A woman reacts as fire rescue workers assist her through floodwaters in the village of Lei Yu Mun during Super Typhoon Mangkhut in Hong Kong on Sunday,

national meteorological center said the densely populated region would face a "severe test caused by wind and rain" and urged officials to prepare for possible disasters.

Hundreds of flights were cancelled. All high-speed and some normal rail services in Guangdong and Hainan provinces were also halted, the China Railway Guangzhou Group Co. said.

In Hong Kong, a video posted online by residents showed the top corner of an old building break and fall off, while in another video, a tall building swayed as strong winds blew.

The storm also broke windows, felled trees, tore bamboo scaffolding off buildings under construction and flooded areas with sometimes waisthigh waters.

Hong Kong Security Minister John Lee Ka-chiu urged residents to prepare for the worst.

"Because Mangkhut will bring winds and rains of extraordinary speeds, scope and severity, our preparation and response efforts will be greater than in the past," Lee said.

have a sense of crisis, make a comprehensive assessment and plan, and prepare for the worst." Hong Kong's Cathay Pacific said all of its flights would be canceled between 2:30 a.m. on Sunday and 4 a.m. on Monday.

The city of Shenzhen also canceled all flights between Sunday and early Monday morning. Hainan Airlines canceled 234 flights in the cities of Haikou, Sanya, Guangzhou, Shenzhen and Zhuhai scheduled over the weekend.

In Macau, next door to Hong Kong, casinos were ordered to close from 11 p.m. Saturday, the first time such action was taken in the city, the South China Morning Post reported.

Macau suffered catastrophic flooding during Typhoon Hato last year, leading to accusations of corruption and incompetence at its meteorological office.

In Macau's inner harbour district, the water level reached 1.5 meters on Sunday and was expected to rise further. The district was one of the most affected by floods from Typhoon Hato, which left 10 people dead. In the northern

Philippines, Mangkhut made landfall Saturday on the northeastern tip of Luzon island with sustained winds of 205 kilometres per hour and gusts of 255 kph.

Dozens of people, mostly small-scale miners and their families, were feared to have been trapped by a landslide in the far-flung village of Ucab in Itogon town in the northern Philippines' Benguet province, Itogon Mayor Victorio Palangdan said by phone on Sunday.

Palangdan said three villagers who nearly got buried by the huge pile of mud and rocks told authorities they saw residents rush into an old three-story building, a former mining bunkhouse that has been transformed into a chapel, at the height of the typhoon's onslaught Saturday afternoon.

That was not an authorized evacuation center." Palangdan said, but expressed sadness that the villagers, many of them poor miners, had few options to survive in a region where big corporations have profited immensely from gold mines.

Police Superintendent Pelita Tacio said 34 villagers had died and 36 remained missing in the landslides in Ucab and another village in Itogon town. Rescuers were scrambling to pull out the body of a victim from the mound of mud and rocks in Ucab before Tacio left the area Sunday.

Rescuers were hampered by rain and mud, and the search and rescue operation was suspended at nightfall and will resume at daybreak Monday, Palangdan said.

Police could not immediately reach the landside-hit area because the ground was unstable and soaked from the heavy rains, said regional police chief Rolando Nana.

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n may be back, but only by weel

New Delhi: After a dry week in terms of rain, monsoon activity is expected to elude the capital this week as well. Clear skies are likely to prevail in the region, coupled with high temperatures and humidity. The met office says Delhi could see similar conditions this week, with rain likely to take place only by Saturday.

Delhi has already recorded

'excess' rainfall for the month of September, crossing its monthly average in the first four days of the month. While the monthly average for September is 125.1mm, the capital, till September 16 at 8.30pm, had received 179mm of rainfall.

Officials from the regional meteorological centre say Delhi may see cloudy conditions over the week, however, chances of rain are likely around the wee-

kend. "The region is now seeing a dry spell. There has been more rain activity in parts like Punjab and Harvana, but not all NCR locations are seeing rain," said an official. Delhi's maximum temperature on Sunday was recorded at 34.6° C-one degree above normal, while the minimum was recorded at 25.5° Celsius. Humidity levels oscillated between 50% and 83% in the last 24 hours, officials said.

"Humidity levels have come down slightly, with moisture content reducing. The maximum temperature is, however, expected to rise even further over the next few days and may touch 36 degrees C," said the official.

Forecastfor Monday shows partly cloudy skies with a maximum and minimum temperature of around 35 and 26 degrees Celsius, respectively, the official added.

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IMD: Monsoon withdrawal may begin by Sept 25

Shrinivas Deshpande

shrinivas.deshpande@htlive.com

PUNE: The withdrawal of the south-west monsoon from the North of India may begin only after September 25 as rainfall predictions in Punjab, Haryana and some parts of the Rajasthan, between September 20 and 22, are likely to delay its retreat, according to the India meteorological department (IMD).

According to AK Srivastava, head, climate monitoring and analysis group, IMD Pune, signs of weakening of monsoon are showing as there is reduced rainfall over the north-western states. However "complete withdrawal" of monsoon can begin only after September 25, said Srivastava.

"Rainfall pattern is subdued all over India specifically in north and west. There will be rainfall in Punjab, Haryana and some parts of the Rajasthan between September 20 and 22, following which conditions will start developing for the monsoon's withdrawal. By September 25 wa can see complete withdrawal of monsoon from India," said Srivastava.

According to the met office, a western disturbance may be responsible for rainfall activity over north India in between September 20 to 22, which could delay monsoon's withdrawal.

Analysing monsoon data from over the last few decades shows that withdrawal of monsoon from North-West India can begin in between September 1 to 5, scientists highlight that it was delayed over the time because of delayed entry and effect of international climate change. Depression over the Bay of Bengal last week is also responsible for rainfall over north-western states in next year.

According to the weather forecast, alow pressure area is likely to develop over North-West Bay of Bengal around September 18, which will bring rainfall over Odisha, Chhattisgarh and parts of Central and peninsular India. However, intensity of rainfall is not expected to be high and reduce subsequently. News item/letter/article/editorial published on 17.09.2018 in the

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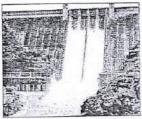
Water in major reservoirs up 30%, but North lags behind

VIJAY MOHAN TRIBUNE NEWS SERVICE

CHANDIGARH, SEPTEMBER 16

Overall water storage in major reservoirs in the country is around 30% higher this year as compared to 2017 while water availability is lower by 10-12% in the northern region vis-à-vis last year.

Stating this during his visit to the Bhakra Beas Management Board (BBMB) today to launch a website on the First International Conference on Sustainable Water Management scheduled to be held here in December, UP Singh, Secretary, Ministry of Water Resources, said rainfall distribution this year has been good and it would be beneficial for



the cropping season.

"Out of the over 5,000 reservoirs in the country, the Ministry regularly monitors 91 major reservoirs that account for two-thirds of the total national storage capacity. The overall storage in these is not only more than the previous year but also better that the last 10 years' average. While dams in the South and other parts are full, the situation is

not so in the North," he added.

At present, 121.655 billion cubic meters (BCM) of water is available in these reservoirs as compared to 92.878 BCM last year and the past 10 years live storage average of 109.688 BCM. In the northern region comprising Punjab, Himachal Pradesh and Rajasthan, the present storage is 77% of the total live storage of 18.01 BCM. It was 86% last year and an average of 82% over the past 10 years.

BBMB Chairman DK Sharma said the water storage situation in North had become critical this year due to historically low inflow during the summer, which was around 50% of the inflow last year.

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In managing water, Surat takes the lead

Municipality to supply 115 MLD treated water to meet industrial requirement by March 2019

MAHESH LANGA

India's 'Diamond City' offers a lesson for the country's ever-expanding cities on water management and the optimal use of water, which is rapidly becoming a scarce resource.

Surat's civic body is setting up state-of-the-art sewage treatment plants (STPs) to ensure every drop of waste water is treated and reused for purposes other than drinking.

From March 2019, the Surat Municipal Corporation (SMC) will be supplying 115 MLD (million litres per day) treated water to industries located within the city, in order to meet the entire industrial requirement of water through treated or recycled water.

The entire quantum of water will be treated from domestic sewerage water in tertiary treatment plants at the Bamroli and Dindoli areas for supplying to mainly textile factories in the Pandesa-

Leading by example



 Total 800 MLD sewage is generated. The Surat civic body has 8 sewerage treatment plants with capacity to treat 726 MLD

 In its tertiary treatment plant, 57 MLD sewage turns into 40 MLD potable water that is supplied to the Pandesara industrial estate, housing dying and printing mills

 By March next, total 115 MLD recycled water will be supplied to industries, meeting the entire industrial water requirement through treated water

nt.The civic body has invested papproximately ₹300 crore to create infrastructure to recycle sewage and generate industrial grade water

ra and Sachin industrial clusters housing over 400 dying and printing units.

"At present, we are supplying 40 MLD treated water to industries in Pandesara in the city. This is the largest capacity of tertiary water treatment in the country. In fact, Surat was the first city in the country to start selling recycled water to industries in 2014.

Now, we are expanding the capacity to take it up to 115 MLD by March 2019," Surat Municipal Commissioner M. Thennarasan told *The Hindu*

Surat's cost effective water management system is most advantageous for its contribution towards reducing the dependency on conventional resources of water, and thus optimal use of the resource.

So far, the SMC has invested ₹ 280 crore in creating tertiary water treatment facilities in the city. "By March next year, the corporation will save 115 MLD fresh water by supplying recycled water to industries," Mr. Thennasaran said, adding, "The SMC charges industrial units ₹ 23 per 1,000 litres of water."

Recycling technology

The civic body's efforts to create infrastructure for water management is in line with the State government's policy of promoting the use

of recycled water for nondrinking purposes, and reducing dependence on ground water.

"Gujarat is a water scarce State, so we have to be innovative in managing our water resources in the most efficient manner," Gujarat's Chief Secretary Dr. J. N. Singh said.

Mr. Thennarasan added that the civic body intends to go further and supply recycled water to industrial clusters like Hazira, outside the city.

city.
"In future, we want to cover industrial estates not located in the municipal area in our network as per the State government's policy," he said.

Fact check

India is facing its worst water shortage in history, according to a report by the Niti Aayog. Nearly 600 million Indians faced water stress and about 2,00,000 people die every year because of lack of access to safe water. News item/letter/article/editorial published on 17.09.20/8 in the

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More river stretches are now critically polluted: CPCB

Maharashtra, Assam, Gujarat account for 117 sections

JACOB KOSHY NEW DELHI

The number of polluted stretches in India's rivers has increased to 351 from 302 two years ago, and the number of critically polluted stretches — where water quality indicators are the poorest — has gone up to 45 from 34, according to an assessment by the Central Pollution Control Board (CPCB).

While the ₹20,000 crore clean-up of the Ganga may be the most visible of the government's efforts to tackle pollution, the CPCB says several of the river's stretches – in Bihar and Uttar Pradesh – are actually far less polluted than many rivers in Maharashtra, Assam and Gujarat. These three States account for 117 of the 351 polluted river stretches.

Based on the recommendations of the National Green Tribunal, the CPCB last month apprised the States of the extent of pollution in their rivers.

Mithi among the worst

The most significant stretches of pollution highlighted by the CPCB assessment (which is yet to be published) include the Mithi river – from Powai to Dharavi – with a BOD (Biochemical Oxygen Demand) of 250 mg/l, the Godavari – from Someshwar to Rahed – with a BOD of 5.0-80 mg/l; the Sabarmati – Kheroj to Vautha – with a BOD from 4.0-147 mg/l; and the Hindon – Saharanpur to Ghaziabad – with a BOD of 48-120 mg/l.

In its compilation of pol-

MADHYA PRADESH (22)

MAHARASHTRA

POLLUTED STRETCHES

1 27 53

The Powal-Dharavi stretch of Mithi river in Mumbol is among the most polluted

luted stretches in Uttar Pradesh, the Ganga with a BOD range of 3.5-8.8 mg/l is indicated as a 'priority 4' river.

"The cultural significance of the Ganga is such that there's been greater focus on it but many more rivers are far more polluted," said an officer in the Union Water Resources Ministry, who didn't want to be identified.

Graded scale

The CPCB, since the 1990s, has a programme to monitor the quality of rivers primarily by measuring BOD, which is a proxy for organic pollution – the higher it is, the worse the river. The health of a river and the efficacy of water treatment measures by the States and municipal bodies are classified depend-

ing on BOD, with a BOD greater than or equal to 30 mg/l termed 'priority 1,' while that between 3.1-6 mg/l is 'priority 5.'

The CPCB considers a BOD less than 3 mg/l an indicator of a healthy river.

In its 2015 report, the CPCB had identified 302 polluted stretches on 275 rivers, spanning 28 States and six Union Territories.

A person involved in the monitoring exercise, who didn't wish to be identified as he was not authorised to speak to the media, told *The Hindu* that the increase in numbers reflected higher pollution levels as well as an increase in water quality monitoring stations.

Most river stretches ₩ 🌣 critically polluted: CPCB

"We have used about 500 more monitoring stations in our 2016-2017 assessment than for the previous exercise (2008-2012). A priority 1 river may show high pollution but it also means more resources for clean up, whereas a priority 4 can mean achieving a clear river with relatively fewer resources," he said

Based on its 2008-2012 evaluation, the CPCB published a report in 2015 and asked States to prepare plans for improving these polluted stretches. Though the information from the 2016-2017 assessment doesn't indicate improvements, the bulk of the increase in polluted stretches were in priority 4 (6-10 mg/ l) and priority 5 river stretches

Currently, the CPCB has 1,822 monitoring stations on rivers and 473 on lakes/ponds/tanks.

eer News item/letter/article/editorial published on 12.09. 2018 in the

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Odisha may witness heavy rain from today

RESS TRUST OF INDIA

leavy rain is likely to lash everal parts of Odisha from londay owing to formation f a fresh cyclonic circulaon in the region, the Meterological Centre here said on Sunday.

The cyclonic circulation, now lying over east-central Bay of Bengal and its neighbourhood, is likely to bring heavy rain in some places like Mayurbhanj, Khurda, Cuttack, Nayagarh and Boudh districts during the next 24 hours, it said.

Due to the cyclonic circulation, a low pressure area is likely to develop over central and adjoining north Bay of Bengal around Tuesday. It is likely to become more

marked subsequently, it said. Under its impact, several parts of Odisha are likely to be lashed by heavy rain while light to moderate rain along with thunderstorm may continue at most places of the State till Saturday, it

said. Heavy to very heavy rainfall is likely to occur at some places in Gajapati, Ganjam, Puri, Khurda, Nayagada, Malkangiri, Koraput, Rayagada, Kalahandi and Kandhamal districts during the period. News item/letter/article/editorial published on 17.09.2018

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'States may miss FY19 fiscal targets

Spending on elections, other populist measures to blame, says ICRA

PRESS TRUST OF INDIA MUMBAL

Funding of farm loan waivers, poll-related spending and other populist measures are likely to ensure that States are set to miss their fiscal consolidation targets budgeted at the beginning of the year, says a report.

"Given the factors such as funding of crop loan waivers, election-related spending and the flood relief will see the States miss their fiscal consolidation targets," ICRA wrote in a note.

The States' fiscal deficit is primarily financed by issuing State development loans (SDLs). In April-August of FY19, gross issuance of SDL contracted by 3.4% to ₹1.32 trillion, primarily led by a sharp decline in issuance by Uttar Pradesh, Maharashtra and Gujarat.

However, excluding these three States, total SDL is-



Sowing debt: States may miss fiscal consolidation targets as a result of funding farm loan waivers. • B. VELANKANNI RAJ

suance by the remaining States has grown 14.7% in the first five months of FY19.

Redemption of SDLs

The agency also estimates that ₹1.3 trillion of SDLs are scheduled to be redeemed in FY19, much higher than ₹0.8 trillion redeemed in FY18.

"Given the sharp rise in the redemption amount,

and assuming an annual growth of 10-20% over the net SDL issuance of ₹3.4 trillion in FY18, gross SDL issuance may rise to ₹5-5.3 trillion in FY19 from ₹4.2 trillion in FY18," says the report.

Recently, the Reserve Bank of India had estimated that fiscal deficits of all the 29 States might decline to 2.6% of their gross State

domestic product (GSDP) citing their FY19 Budget estimates, from 3.1% in FY18.

But an analysis of the FY19 Budgets of nine States, accounting for about 62% of the combined GSDP of all 29 States in FY17, shows that their fiscal deficits are budgeted to slip to 2.5% of GSDP in FY19 from 2.6% in FY18.

As 12 of the 29 States, three of which were part of the nine included in the analysis, are also poll-bound, apart from the general elections before May 2019, there is a risk of new schemes being announced or a higher allocation for welfare schemes, the note said.

The unforeseen expenditure on flood relief in states like Kerala and Karnataka, which may not be fully offset by higher grants or other revenue mobilisation measures, can exert pressure on their fiscal balances, it said.

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SINGLE FILE

Transforming agriculture

The Green Agriculture project synergises biodiversity conservation, agriculture production, and development

KONDA REDDY & JIRLYNE KATHARPI



India is signatory to the Convention on Biological Diversity. As four of the 35 biodiversity hotspots are located in India, it is biodiversity-rich. However, climate change and development without consideration for biodiversity are leading to loss of biodiversity.

India's National Biodiversity Action Plan (NBAP) recognises the importance of biodiversity for inclusive development. The Green Agriculture project implemented by the Indian government and the Food and Agricultural Organisation (FAO) takes a novel approach to support the NBAP and synergise biodiversity conservation, agriculture production and development. It is being implemented in five landscapes adjoining Protected Areas/Biosphere Reserves: Madhya Pradesh, Mizoram, Odisha, Rajasthan and Uttarakhand. It envisages a transformation in Indian agriculture for global environmental benefits by addressing land degradation, climate change mitigation, sustainable forest management, and biodiversity conservation.

Man-animal conflicts in the fringes of Protected Areas or animal corridors, and conflicts over unsustainable procurement of non-timber forest products (NTFPs) have been contentious, especially in Odisha and Uttarakhand. A participatory and landscape approach can ensure sustainability of conservation efforts. Keeping the focus on initiatives for sustainable NTFP harvest, eradication of invasive alien species, and mitigation of wildlife conflicts is essential.

Biodiversity conservation is a part of traditional wisdom. The landscape approach will aim to restore traditional knowledge systems, such as the conservation of common property resources. Examples include the Orans of Rajasthan and the village safety and supply reserves in Mizoram. Traditional farming systems such as jhum encouraged crop diversity. However, climate change and shortened fallow cycles are undermining jhum cultivation sustainability. Participatory learning tools will encourage farmers to adopt more sustainable indigenous soil conservation.

India gave the world crops such as rice, chickpea, pigeon pea, mango and eggplant. However, with the focus on policies that cater to market demands, its reservoir of indigenous traditional crops has dwindled. Most keepers of these crop genetic diversity are smallholder farmers, including women. The approach will be to strengthen their role as agrodiversity guardians by developing value chains for their indigenous crops such as traditional rice varieties in Odisha.

Environmental concerns are inadequately reflected in the development rhetoric. Thus, projects such as Green Agriculture are essential in equipping decision-makers with the necessary instruments to design effective and informed policies to underpin environmental concerns.

Covering L., YIS

Konda Reddy is Assistant FAO Representative in India and Jirlyne Katharpi is a Research Associate News item/letter/article/editorial published on 17.09. 2018

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STRESSED POWER UNITS: PANEL RECOMMENDS GUJARAT GOVT

'Salvage units, allow pass through of high fuel costs'

High power panel also suggests capping imported coal prices

DEEPAK PATEL NEW DELHI, SEPTEMBER 16

THE HIGH Power Committee HPC) set up by the Gujarat gov-rnment has suggested that the mega power projects of Tata Power, Adani Power and Essar Power - which run on imported coal only and have a total generating capacity of around 10000 MW—need to be "salvaged" and should be permitted to pass through the impact of high fuel costs equitably to consumers, lenders and other stakeholders.

The HPC recommended that a pass through of high coal prices to consumers may be permitted, which will lead to increase in tariffs, "at the same time ensuring that the entire cost impact of such financial and commercial re-structuring is not passed on merely to consumers, rather the same is equitably distributed amongst the other stakeholders too".It suggested a cap on the im-ported coal prices upto which a pass through will be permitted. These mega power projects are based out of Gujarat only but dis-coms of various states such as Maharashtra, Rajasthan, Punjab and Haryana have signed PPAs

with them. Supreme Court gave a ruling in April 2017 stating that the impact of high imported coal prices
- which occurred due to
Indonesian Regulations, 2010 can't be passed through to con-sumers as it was neither 'Change in Law' nor 'Force Majeure' as per the PPAs (power purchase agree-ments), which were signed with the distribution companies (discoms) of various state govern-ments. Force Majeure is a com-pletely unexpected event that inhibits the party from fulfilling its contractual obligations.

The HPC which was set up in July this year to resolve the issues alling these mega power projects, stated that "the economic viability of these projects has been se-verely impacted due to promul-gation of Indonesian Regulations 2010, which led to unprecedented rise in the price of coal". It added that this situation has further been exacerbated because the generators could not pass the "uncontrollable increase in the fuel prices on the procurers (discoms) under the PPAs".

PASS THROUGH MAY LEAD TO PRICE RISE

■ The HPC suggested that a pass through of high coal prices to consumers may be permitted, which will lead to increase in tariffs, "at the same time ensuring that the entire cost impact of such financial and commercial restructuring is not passed on merely to consumers, rather the same is equitably distributed amongst the other stakeholders too"

The HPC has suggested a comprehensive commercial restructuring plan to "salavge" these projects from liquidation. However, it has made it clear that the past losses would be borne by generators only and the plan would be applicable from a prospective cut-off date of October 1, 2018. In its plan, the HPC has suggested a major haircut for banks: option for ex-tension of PPA tenure by another period of 10 years after the completion of the PPA tenure of 25 years; offer for tieup of free capacity lying with the generators; and sharing of profit from the Indonesian

ines of generators. The HPC stated that the commercial resolution package has to be accepted by the procurer state governments — which currently have power purchase agreements with the generators — as the various changes would need to be made in the PPAs itself. These changes would then need approval of "appropriate commission" such as Central Commission such as Central Electricity Regulatory Commission (CERC) according to HPC. The three member HPC was chaired by former Suprema Court Justice R K Agrawal, Gujarat government is yet to form an opinion on this HPC report. The HPC stated that "a direc-

tive may be issued by the state government(s) to the discoms". According to HPC, the said directive would primarily state that the discoms have to ensure ad-

equate supply of energy on the least possible tariff and while doing so, they should consider whether the same can be achieved by way of "facilitating and promoting the rehabilitation of existing thermal capaci-ties already installed in the state, that may have, for diverse reasons, become financially stressed and economically un-viable to be operated in a sus-

Since the commencement of operations, the three mega projects have been facing hardship due to under-recovery in fuel costs. These projects were envisaged to receive coal from Indonesia for their operations. Indonesia is the largest supplier of imported coal in India due to its coal quality and logistical advantage

"However, Indonesian gov-emment brought change in coal pricing regulation with effect from September 2011 which in-creased the cost of coal procurement for these projects signifi-cantly. The indicative fuel cost when applied to the normative operating parameters of such projects, translate to more than Rs 2 per unit for almost the entire period from 2011 to 2018. Despite high prices of imported coal, these developers kept supplying electricity at PPA tariff which is in the range of Rs 1.30 to Rs 2 per unit. Consequently. the projects had to absorb signif-icant losses in the form of under recovery of fuel costs, in the past," the HPC noted. The HPC also explained its logic behind salvaging these proj-

ects. "If these projects are not sal-vaged, consumer interest will be adversely affected on account of various reasons: the cost of re-placement power at today's mar-ket price would be higher; setting up new projects in any event will be more expensive and will take another 4-5 years to commence supply; increase in cost on account of procurement of power from inefficient and old plants which would also have re-liability issue; discoms will resort to load shedding on account of difficulties associated with com-plete replacement of power from these projects; any insolvency or liquidation of these projects would hardly address the issues of power supply," it said.

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LEGAL INTERPRETATION OF SC ORDER

Banks to Go Ahead with Power Units' **Resolution Plans**

To continue without seeking RBI advice

Sarita.Singh@timesgroup.com

New Delhi: Banks have deci-New Delhi: Banks have decided to continue with their reso-lution plans for power plants without seeking any advice fromthe Reserve Bank of India. The decision follows a favou-rable legal advice in the inter-pretation of the Supreme Co-urt's September II interim or-der that directed status-quo on the matter.

The banking regulator is also unlikely to come out with any clarification following the Su-preme Court-order sourcess aid. Banks sought legal advice on

spearing of the continon anonymity.

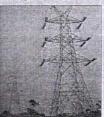
"Almost all banks have decided to continue with their resolution proceedings. No bank is seeking clarifleation from RBI on this matter," the said.

The sources said RBI was unhable to

likely to pronounce any direc-tion on treatment of stressed assets till next court hearing. It assets till next court nearing, it would take a call on a case by-case basis if a bank comes with an issue, said one of the people. The RBI didn't respond until press time Sunday to ET's re-

Essar Mahan, totalling 15,000 finalise and implement the ongmw of generation capacity.

"We are hopeful to close quite a few deals that are closer to re-solution as we have got more ti-me to meet and discuss," said



LEGAL ANGLE

preme Courtorder sourcessaid. Banks soight legal advice on whether the Supreme Courtorder stalls the ongoing resolution process by the lenders. The order briefly said: "Status quo as of today, shall be maintained in the meantime." After initial apprehensions, law firms have inally interpreted the order as davourable to resolution plans & status quo only on insolvency proceedings and interpreted status quo only on insolvency proceedings till November 14, the next quo only on insolvency proceedings till November 14, the next hearing, an official with a top lending institution told ET, speaking on the condition of anonymity. Law firms have inter-

an executive with another lender with a significant exposure to stressed power assets. "All the banks had sought opinion from legal departments or legal firms like Cyril Amardas Mangalchand or Dheer & Dheer The lawyers have said that the status quo was ordered by the Supreme Court on just the insolvency proceedings and not on resolution plans."

Last week, the Association of Power Producers wrote to banks over the interpretation. "We understand from the information coming in from our members that some banks and Fishave expressed adoubt asto whether they can go ahead with resolution process already underway." It said.

press time Sunday to ET's requestfor comment.

PFC chairman Rajeev Sharmal sastweeks said the worst was very for the lender in terms of provisioning for stressed assets, with most power plants fetching better-than-expected deals and at least eight of those set to be completed before the Supreme Court's next hearing in mid-November:

He said the company was infinal stages of closhir deals of a least eight projects such as least eight projects such as least eight projects such and a mrawati and Nashik and Essar Mahan, totalling 15,000

with resolution process already underway," Itsaid.

Tarticle carrying RBI counsel Bushant's statement that the order stalled only the insolvency progress. "The SC order does not impact the ongoing resolution process of stressed assets by lenders. What has been stopped is more least eight projects such as least eight projects such and in the compoundation of t oing resolution process to save assets from value erosion post referral," the association said With inputs from Mumbai bureau

Covering L., YIS

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Researchers dive in to restore coral ecosystems

The group has successfully transplanted corals in the Lakshadweep region.

SHUBASHREE DESIKAN

Coral reefs are among the most diverse ecosystems on earth, and their role in maintaining marine biodiversity is of no small measure. However, it is well documented that coral systems around the world are bleaching and dying due to climate and chemical changes in the sea water. A team from National Centre for Coastal Research, Chennai, plans to work on coral monitoring and restoration in the Gulf of Mannar region. "We assess the location and coverage of corals through remote sensing, then study how the sediment affects the coral reef," says T Shunmugaraj, who leads this project along with M V Ramanamurthy, Director, NCCR. The team will also set up an acquatech park which will help local persons rear marine ornamental fish towards a sustainable livelihood.

The group has prior experience in studying corals across the country. They have successfully transplanted and nurtured corals in the Lakshadweep region. Now they are set to work in the Gulf of Mannar.

Coral bleaching

Corals have a symbiotic relationship with the unicel-



We take a small polyp, tie it to an iron frame and take it underwater, says Dr Shunmugaraj

lular algae dinoflagellates. An increase in sea surface temperatures leads to coral bleaching and the breaking of this relationship.

Not all corals are equally sensitive. The most susceptible are the branching corals, for example, Acropora species, and the least susceptible are the massive ones, for example Favia species.

Coral reefs in India are only seen in some localities around the Gulf of Mannar, Gulf of Kutch, Lakshadweep islands and Andaman and Nicobar islands. In many of these places, bleaching of corals and related cnideria species such as giant clam and tentacle sea anemone have been observed by the team.

However, constructive interventions exist for this problem. The methods include reducing harvest of herbivorous fish and minimising anthropogenic causes of bleaching.

The National Centre for Coastal Research, which comes under the Ministry of Earth Sciences, conducted a mapping of corals for Gulf of Kutch, Gulf of Mannar, Lakshadweep and Andaman and Nicobar islands over a period of five years, from 2000 to 2005. Their results were startling, as they found less than 40% of the coral reefs in India were still alive.

From 2005 to present, the team, with support from Department Science and Technology,

has surveyed the area around Agatti and Kavaratti islands in the Lakshadweep, and in an area approximately one acre, transplanted branching corals, massive corals and foliac corals. "We take a small polyp, tie it to an iron frame and take it underwater. The iron frame is needed because if you place it directly, sediments will fall on them," explains Shunmugaraj.

Restoration efforts

Over the last decade, this region has seen restoration of live corals in these areas. The team found that the branching coral Acropora could grow 25 cm in 3 years. Another genera, Pocillopora, grew 15 cm in 3

The researchers plan to replicate the model in the Gulf of Mannar region, and towards this end, they have set up a centre in a 25-acre piece of land near the Rameshwaram coast. Partnering with Gulf of Mannar Marine National Authority, they will first monitor the 21 islands in this region and identify degraded areas.

In January, after the monsoons, they plan to start transplantation work with branching coral speNews item/letter/article/editorial published on 16.09.2018 in the

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WHAT IS IT? With the summer (kharif) sowing picking up across the country on account of improved distribution of monsoon rain during the last fortnight of August, another bumper harvest is expected this season, if weather conditions continue to be conducive. While the increase in crop acreage has eased the fear of a fall in grain production, the bright harvest outlook also throws a challenge to rainfall. The National Collateral Manthe government to deal with a situation of abundance of produce. A good kharif harvest means an increase in supply, which could result in a drop in crop prices, hitting farm income.

Agriculture and Farmers' Welfare Secretary S.K. Pattanayak, anticipating a good harvest, recently pointed out that the challenge with a "situation of abundance" before the government is that of maintaining food prices at levels that ensure farmers get their due profits, while not depriving consumers of the gains of a bumper harvest.

This year, summer crops have been sown on nearly 1,053 lakh hectares against 1,046 lakh hectares during the corresponding period in 2017-18, as per data released by the Agriculture Ministry on September 14. Though the cumulative monsoon rain across the country has been 8% lower than the normal as of September 14, the higher acreage is being attributed to better distribution of agement Services, a private post-harvest management company, last week released its second advanced estimates for the 2018-19 kharif crop. It has pegged the total grain production at 136.75 million tonnes. The estimate is just 3% less than previous year's record harvest of 140.73 million tonnes.

WHY DOES A bumper harvest IT MATTER? will help the government fill its granaries for the Public Distribution System and reduce hunger and malnutrition. Howev-



er, with the increased supply of crops (cereals and pulses) other than the foodgrain, which are procured by the government, the fall in prices can never be ruled out, which is associated with the economics of demand and supply, A bumper crop is expected to benefit the consumer. For farmers, it is a different story. The key issue is that a very small proportion of the produce is procured by government agencies. The bulk of the output is purchased by private

players. The system of selling the produce is such that the intermediary gains more and the producer and the consumer both suffer. While the primary producer (farmer) gets low prices, consumers often have to pay high rates.

WHAT DOES After harvesting, the crop goes out of the hand of the primary pro IT MEAN? ducer (farmer) and is largely usurped by the intermediary. When the primary producer's share of the pie is declining, the sustainability of farmers come under threat. This is the trend with burnper crop prices, especially those of pulses, vegetables and fruits, crashing at the time of harvest and sky-rocketing in the lean period. Marketing institutio: very weak across the country, and and vative reforms are lacking in this area

WHAT NEXT? Farmers' organisations have come together to demand a better deal for prin-

ary producers, as their survival is at stake. Lakhwinder Singh, an agriculture expert and professor of economics at Punjabi University, Patiala, points out that a large number of small and marginal farmers are becoming highly distressed owing to the system of market institutions squeezing them both on the input and output side. "The interlinked transactions, such as the informal credit market, further make them victims of a debt trap. Largescale suicides of farmers across India is testimony to this. To make farming a healthy business, the government needs to invest in the agriculture sector to improve input and output chains, where the value addition should be reaped by the primary producer [farmer]," he says. Increased investment is urgently required to revamp a dying agriculture sector and make it inclusive and sustainable in the long

VIKAS VASUDEVA

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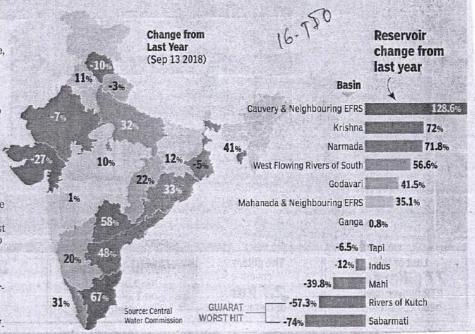
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DAMS RUN DRY IN WEST, NORTH, OVERFLOW DOWN SOUTH

une was a good month: monsoon hit Kerala on time and most of the country, barring four states, got decent rain. By mid-June, rainfall was actually 20% in excess. Things got choppy after that – heavy rain in parts, deficit in others. So, by August 8, there was a 10% deficit. This shrunk to 6% by end of the month, but by September 11, deficit was up to 8%.

All this, coupled with how it has rained in the previous years, led to some reservoirs running dry while some are overflowing. Gujarat has been among the worst hit, with reservoirs linked to river Sabarmati 74% drier than last year.

It's exactly the opposite down south. There, the reservoirs are overflowing. Tamil Nadu's reservoirs now have 67% more water than in 2017.



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There are

incremental

changes in

technology at

frequent intervals.

which require

capital and the

know-how to

absorb"

Nikhil Dhingra CEO, Acme Solar Holdings

THE ECONOMIC TIMES cover story SEPTEMBER 16-22, 2018

09

Auction Dampener

 $3.900 \, \text{MW}$ of solar capacity auctions held between between March and July cancelled

High tariffs quoted by bidders blamed for cancellation

1.000 mw

of these have been re-tendered Source: Mercom India Research

Safeguard Danger

Duty on imported solar cells could be counterproductive

duty imposed on % solar cells from China and Malaysia, whether or not assembled in solar modules, for a year from July 30

duty imposed for the following six months

duty imposed for another 5% six months, to support domestic manufacturing

Two-year breather not long enough to give domestic companies a serious boost

of India's solar cell and module requirements are imported from China, Malaysia and Taiwan

Safeguard duty could slow down installations and raise tariffs

"When government agencies start dictating what the tariff should be, we get into muddy waters. They shouldn't dictate price without accepting any of the

CEO, Mercom Capital Group

safeguard duty will be offset by the fall in prices of Chinese solar panels owing to the phasing out of subsidies for solar installations by the government in Beijing. With

demand in China evaporating, Chinese solar panels may be cheaper by up to a third by the end of the year according to Bloomberg

New Energy Finance (BNEF). Global solar panel prices have fallen 84% since 2010 and is forecast to decline another 52% by 2025. China produces nearly half the world's solar panels

Ramesh Nair, CEO, Mundra Solar PV Ltd, says the initial indications of a 70% safeguard duty were followed by foreign companies wanting to set up joint ventures in India. "But after the announce ment of the duty, the response has been lukewarm, given the inade quate safeguards provided by the or-der in its current form." Mundra So-

lar is the solar manufacturing arm of the Adani group, As part of its efforts under the 2015

Paris Agreement on climate change, India, the world's third largest emit-ter of greenhouse gases in absolute terms, has committed to cutting its emissions by a third by 2030 from 2005 levels. To meer this goal, the contribution of renewable energy to India's electricity capacity should double to 40% by 2030. But it is not clear if India will be able to muster the capability to achieve this target, especially given that

manufacturing of solar power equipment has not taken off here. Nikhil Dhingra, CEO, Acme Solar Holdings, says Indian solar manufacturers only capture a minor portion of the manufacturing value chain, which includes poly-silicon, wafer, cell and module. "There are incremental changes in technology at fr-quent intervals, which require capital ar ... the know-how to absorb. Backward integration and scale help in managing these factors."

The Supreme Court's decision on the safeguard duty came days after a report by Mercom India Research said solar installations in April-June had halved to 1.6 GW from January-March, due to the lack of a strong project pipeline. "Tender activity cratered after the lowest tariffs were reached in the Bhadla (Rajasthan) auction in May of 2017, as government agencies started expecting other bids to go down to the 2.44/kWh level that was reached in the Bhadla auction," said the report. Capacity addition in 2018 would decline 14% from 2017, to around 8.3 GW, it added. The number could be higher if projects set to be commissioned in the past three months of the year stay on course

Acme Solar Holdings, which has 2 GW of operational capacity, won the Bhadla bid at ₹2.44 a unit. It again bid the same price for 600 MW in a 3,000 MW auction held by the

Solar Energy Corporation of India (SECI). Acme was the only bidder to emerge successful. Other bids, which were higher, were not considered and the allotment of the remaining 2,400 MW was cancelled. Even state government entities in Uttar Pradesh and Gujarat cancelled the bids for projects of 1,500 MW, though 1,000 MW of that has been re-tendered,

according to Mercom.

"The whole point of reverse auctions is that you let the market settle on what it thinks is the best price. When government agencies start dictating what the tariff should be, we get into muddy waters. They shouldn't dictate the price without accepting any of the risks," says Raj Prab hu, CEO, Mercom Capital Group.

Price wars

CEEW's Chawla says it is unclear why tariffs are being capped without taking into account market phenomena such as financing cost and the health of utilities. Developers also complain about the depreciating rupee, which

makes importing equipment more ex-pensive. The rupee has declined 13% gainst the US dollar in 2018.

The government wants the lowest possible prices to help indebted and loss-making state-owned power distribution companies keep costs down. Jatindra Nath Swain, man-

aging director, SECI, did not respond to requests

for comment. Javant Parimal, CEO. Adani Green Energy, says it is not viable to bid at ₹2.50-2.60 a unit even for a project in Rajasthan, an optimal location to tap solar power, much less in other states. "There was a euphoria that was not based on facts in thermal power, and banks and the counred. There is a similar kind of irrational exuber-ance in solar power

participate in it. There are 34 stressed thermal power projects, with a capacity of 40 GW and a combined debt of ₹1.7 lakh crore. Thermal power ac counts for two-thirds of India's

and we don't want to

electricity capacity.

Given these obstacles, is In dia's solar growth story, as we know it, coming to an end? Allen Tom Abraham, an analyst at BNEF, does not think so, "India will remain the bright spot for solar in the world. We expect India to have the largest solar pow-

er installed capacity base across the world by 2050." At the end of 2017, China had a third of the world's installed solar capacity, the US had 13% and India just 5%, according to the BP Statistical Review of World Energy 2018.

India wants to quadruple solar capacity by 2022



23 GW Current solar capacity



Source: CEA

India wants to double share of renewable energy by 2030



21% ower capacity from renewable sources

Indla 5

India has just 5%

of world's solar

power capacity

% of installed global

solar power capacity in 2017

Source: BP Statistical

Review of World Energy 2018

40% Target for 2030

Source: CEA

India is also taking a lead in the International Solar Alliance (ISA), launched at the Paris climate change conference in 2015. Headquartered in Gurgaon and with 68 signatory countries, the ISA will help in the transfer of solar technologies across mem-

bers. "India also sees this as an opportunity for the do-mestic solar industry to find inroads in some of the smaller and untapped markets like Africa and South America," says Abraham of BNEF. Smaller countries could use India's experience in conducting large solar auctions and also learn from the various strate-gies it adopted to address

major risks in the sector, he adds. But Prabhu of Mercom says the ISA has not achieved much: "It has not had any impact, good or bad, on the Indian solar sector. It is more of a public relation exercise at this point." Regardless of whether or

26 not the ISA is effective, re newable energy, particularly solar, is crucial to India's future. Not only is solar sustainable, in some cases it is already cheaper than thermal power. While thermal power will continue to be necessary to meet India's energy needs in the near future, its share in the total mix will fall. BNEF estimates that by 2050, 75% of its electricity will be from renewables (from the current 21%), higher than in China (62%) and the US (55%). For the

renewables sector to grow at a steady clip, India would do well to not repeat some of the mistakes made in the thermal power sector and ensure consistency in its policies. ■

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THE ECONOMIC TIMES

THE ECONOMIC TIMES. 08



India is determined to be the world's greatest solar energy success story. All's not quite going according to plan, however

:: G Seetharaman

t would be hard to be more bullish than India has been on solar power.

The country wants a solar power capac ity of 100 GW by 2022 (India's total peak electricity demand in 2017-18 was 164 GW and is expected to be 235 GW by 2021-22) This involves building more than four times the existing capacity in four years. If all goes according to plan, solar will account for three-fourths of the planned renewable energy capacity of 175 GW by

If the first wave of India's renewable energy push this century was in wind power, a second and bigger revolution is underway in solar. But recently, gathering clouds have been threatening to rain on India's sunny parade.

The issues relate to India's conflicting desires to procure cheap solar equipment, on the one hand, and to encourage a do-mestic manufacturing base through imposition of import duties, on the other. The

> "There was a euphoria in thermal power that was not based on facts, and

banks and the country suffered. There is a similar kind of irrational exuberance in solar power and we don't want to participate in it'

CEO, Adani Green Energy latter means slower capacity additions and higher tariffs in the short run. The other is the expectation by power buyers, mainly state-owned utilities, that solar power will be available at dirt-cheap rates in all parts of the country, when the cost of generating solar power can vary vastly de pending on climate.

On September 10, the Supreme Court lifted an Orissa High Court stay on a so-called safeguard duty imposed by the Centre on solar cells (whether or not assembled in a solar module) imported from China and Malaysia. The government had in July imposed a 25% duty for a year from July 30, 20% for the following six months and 15% for six months after that.

The idea behind the move was to encourage domestic manufacturing. India imports 90% of its solar cell and module requirements from China, Malaysia and Taiwan. But will the idea work?

"Two years (the duration of the safeguard duty) may be inadequate to create a robust domestic manufacturing base that will be able to compete with the global market. However, it will dampen capacity additions and raise tariffs in this period, says Kanika Chawla, senior programme lead at the Centre on Energy, Environment and Water (CEEW), a think tank. Moreover, measures like safeguard duty work only when there is a large existing domes tic manufacturing base, says Sunil Jain, chief executive at Hero Future Energies

Domestic manufacturers believe the

Dim Prospects

Solar installations (in GW) in April-June have halved from Jan-March



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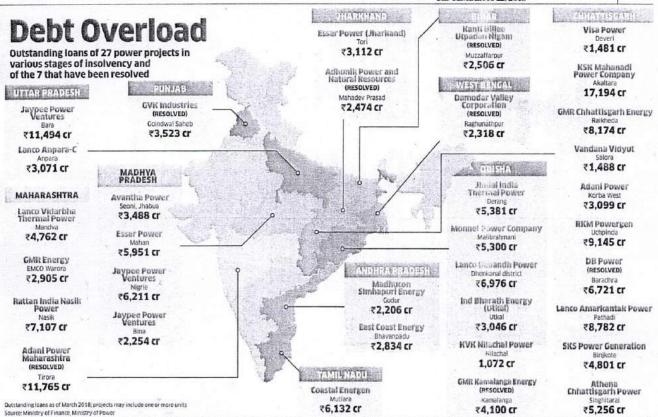
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THE ECONOMIC TORS

SEPTEMBER 16-22, 2018

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though. For Jaypee Power Ventures, for example, three projects worth ₹29,078 crore two in Madhya Pradesh (Nigrie and Bina) and one in Uttar Pradesh (Bara) – turned nonproductive resulting in a bad debt of 719,959 crore. In the case of Lanco, the outstanding debt in four of its stressed power assets - one each in Chhattisgarh, Uttar Pradesh, Maharashtra and Odisha - is a whopping ₹23,591 crore. The banks and the financial institutions that took a major hit of this power mess include State Bank of India, Power Finance Corporation, Punjab National Bank, ICICI Bank, Axis Bank and IDBI Bank, as they were the lead bankers (or financial institutions) in those 34 stressed assets.

Last week, the Supreme Court offered a reprieve to power companies when it stopped a February 12 order

stopped a February 12 order of the central bank from taking effect. The Reserve Bank of India had ordered that a bank should draft resolution plans within 180 days in the case of stressed assets where it has exposure of more than ₹2,000 crore. Had the court not intervened, the banks would have by now referred most of these cases to the bankruptcy courts run by the National Company Law Tribunal (NCLT). The Supreme Court will next hear the case on November 11. So the companies and banks have

Reasons For Crisis

Projects being set up without coal linkage

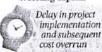
Cancellation of coal blocks

Lack of power purchase agreements

Aggressive bidding by developers

Contractual & tariffrelated disputes

Promoter's inability to infuse equity, working capital



aging director of PTC India, a company that trades power.

> Returning demand JM Financial ARC, an asset reconstruction company, is keen to pick up power assets and help turn them around. "We had a bearish outlook on the power sector in the past. But current-

got two months to salvage

is the mutual settlement be

tween the (stressed) com-

"The immediate way-out

panies and the lend-

ers. As the demand

for electricity will

only grow and with

no new thermal and

hydro projects com-

ing up, all those projects

under duress today will be-

come viable in the near fu-

ture," says Deepak Amitabh, chairman and man-

the situation.

tor in the past. But currently we have turned positive and are beginning to like power assets. There has been no new addition in the power generation capacity in the last few years and the demand is going up. Hence we have changed our outdook. However, operation and maintenance will remain a challenge," says Anil Bhatia, MD & CEO of IM Financial ARC.

Bhatia says fuel supply issues are slowly getting resolved. State Electricity Boards are being allowed to purchase power from the open market. "It may be possible to enter the sector at a good cost," he says.

Quite apart from issues related to coal supply and power purchase agreements, the consensus among stakeholders goes, aggressive bidding by private players, the promoters' inability to infuse equity, and contractual or tariff-related disputes have added to the sector's woes. Bankers are now, some might say belatedly, wary of the sector.

For 16 out of 21 governmentowned banks, the exposure to the power sector lending has dropped between 2016 and 2018, the only exceptions being the SBI, Bank of Baroda, Central Bank and Union Bank of India. "The reduction in exposure could be because of no new addition of loans to the sector or for writing off bad loans, or both," says a banker in a public sector bank on the

clearer only next year.

Kumar Saurabh Singh, a
partner with Khaitan &
Company that has been involved in many high-profile
cases under the Insolvency
and Bankruptcy Code (IBC),

condition of anonymity. He

adds that the trend will be

2016, argues that more government interventions will be required to make the auction of power sector assets a success. "The steel industry is on an upswing, but that's not the case for power," he adds, explaining why the enthusiasm witnessed in the recent bidding of stressed steel assets may not be seen in power, too.

Rajiv Gupta, managing director of Arpwood Capital, which helped the Tatas buy Bhushan Steel, says the government intervention can be a catalyst in helping find

new owners for distressed power assets. He says power companies referred to IBC will be sold at an appropriate price. "Once the current equity shareholders (promoters) are taken out, IBC will not fail in finding solution to

the power companies." But there are two factors that are in favour of the distressed assets, if they can find time before the bank ruptcy rules kick in. It will be a while before renewables can reduce the dependency on thermal and demand is rising at a steady clip in the meanwhile. With no new ca-pacity being added in thermal and hydro, it's only a matter of time before buyers come knocking. The peak capacity of solar comes during the day, while peak demand is at night. Besides, solar power has its own issues to contend with (turn to

Viable in near future"

Deepak Amitabh

CMD. PTC India

The immediate way

out is a settlement

between the

(stressed) companies

and the lenders. As

demand for electricity

will only grow and

with no new thermal

and hydro projects

coming up, all those

projects under duress

today will become

page 8)

But the big question is, can these companies stay solvent for longer than it will take for demand to catch up? ■

hantanu.sharma@timesgroup.com

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Hindustan Times Statesman

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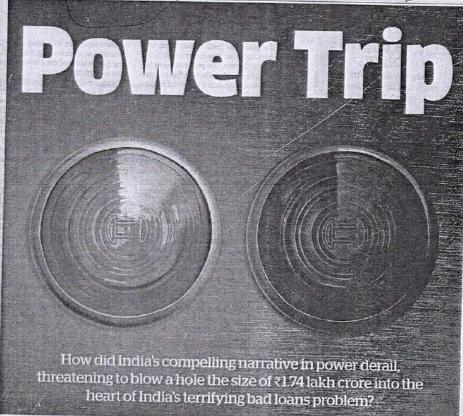
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THE ECONOMIC PIMES er story





:: Shantanu Nandan Sharma. Suman Layak & Baiju Kalesh

his is not how it was supposed to end. The script was supposed to have happy stories. How India, once a notoriously power-deficit nation, became a net ex-porter of power. How electricity shortage went from 4.2% (of demand) in 2014 to 0.7% in 2017. How India managed to increase its total power capacity by a third in just three years (up 31% from 243 GW to March 2014 to 320 GW in March 2017) and how it achieved universal electrification, and so on.

It had nothing about profit-and-loss statements bathed in red ink or panicked bankers. Or 34 thermal power projects, representing 40 GW of capacity, going sour, jeopardising ₹1.74 lakh crore in bank loans, becoming the principal line item in

India's terrifying bad loans problem.

And yet, some of India's top banks are staring at the spectre of taking as much as an 80% haircut in massive loans extended to power plants. And now, with India's new bankruptcy rules and a recent central bank directive, the parties involved are also running out of time for negotiation and course correction, before they are forced into a firesale of sorts.

How did this come to be?

The private sector was always allowed to produce power, but the enactment of the Electricity Act, 2003, which liberalised the entry of the private players, was the watershed. The decision paid rich dividends as private companies delivered in spades. In no time, they were adding more mega-

watts (MW) in capacity than all the stateowned utilities that had dominated the sector all these years.

During the 12th Five-Year Plan, private firms added 54,279MW of capacity (of the total 99,209MW capacity added), achieving 116% of the target given, according to the Union ministry of power. State government-controlled utilities added 24,477 MW, whereas the central PSUs generated an additional capacity of 20,452 MW. The nacive combibution by the pricate accour helped achieve the good news described earlier. In 2017, India became a net power exporter, selling 5,798 million units to Nepal, Bangladesh and Myanmar. This would have been unimaginable just five years

ago. It must be noted that total installed capacity does not mean all of it is produced. Production depends on demand, which is linked to consumer's access to electricity and her ability to pay.

Power Matrix

The viability of a thermal power plant, therefore, depends on a complex matrix of factors. Seamless availability of coal, pownts with er purchase agr orable ra iemand and the price of non-thermal sources of power. Many of these companies were affected by the Supreme Court's 2014 cancellation of coal block allocations.

The challenge from renewable sources

owat hour (kWh) from ACME Solar Hold-ings Pvt Ltd for a 500 MW phase of the 10,000-hectre Bhadla Solar Park, border-ing the Thar desert. Thermal power prices averages ₹3.7 per kWh in India's power exchanges. Suddenly, for tariff-sensitive and debt-saddled distribution companies that are mostly owned by state-governments, which love nothing more than to be able to offer cheaper power to voters, able to offer cheaper power to voters, there was a cheaper source of power. They were not about to conclude power pur-chase agreements in a hurry. During 2017-18, for the first time, India added more capacity in renewables (11,788 MW) than in the thermal and hydro sectors combined (5,400 MW). Thermal power contributes around 65% to India's energy basket. All of this meant the companies that set

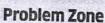
another factor. Solar, for instance. In May

2017, the Solar Energy Corporation of India received a winning bid of \$2.44 per kil-

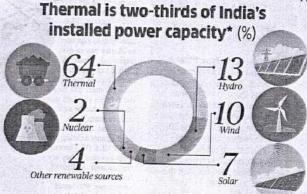
up coal-fired thermal power plants were either unable to start production for lack of coal, or were unable to find buyers.

So we now have 34 thermal power projects with 40,130 MW of assets and ₹1.74 lakh crore in debt that is in risk of going

Seven of those stressed projects - Adani Power's Korba (Chhattisgarh), Adhunik's Jharkhand plant and GMR's Kamalanga (Odisha), to name a few - have been resolved, according to finance ministry documents. That barely chips at the problem







'as of August 2018; figures for renewable energy are as of June 2018 Source: Central Electricity Authority (CEA)

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Private procurement of oilseeds faces commercial viability bump

15% service charge as compensation too little if losses mount, say experts

SANJEEB MUKHERJEE New Delhi, 15 September

The government has decided to allow the entry of private players into oilseeds procurement on a pilot basis, but experts have raised concerns about its commercial viability. According to the decision taken by the Union Cabinet on Wednesday, private companies can procure oilseeds at the state-mandated minimum support price (MSP), for which they would be paid a 'service charge' not exceeding 15 per cent of the notified MSP. The pilot project will be launched in select places after state governments agree to it. Based on feedback, the scheme could be expanded.

Though the Food Corporation of India (FCI) has already engaged private players for procurement of wheat and rice for the last few years, the initiative got a fresh impetus after NITI Aayog Vice Chairman Rajiv Kumar backed it as an idea to ensure the MSP to farmers. According to experts and officials, the experience of engaging private players in procurement operations has been mixed so far despite best efforts, and the biggest challenge is commercial viability of the entire operation.

"To me, the biggest consideration and challenge of involving private players in oilseeds procurement is whether it will be commercially viable. And if the offer isn't viable, I doubt private companies will be interested," Sanjay Kaul, managing director, National Collateral Management Services (NCML), told Business Standard.

The NCML, which has been one of biggest private players engaged in procurement of paddy and wheat on behalf of the FCI, said in the case of paddy, the organisation set up procurement centres, purchased paddy from farmers at MSP, stored the produce, milled it and then sold it back to the corporation for which they were compensated at a price determined through an open bidding process. "However, here we don't know whether the 15 per cent service fee which the government has fixed includes the losses incurred in procurement and disposal," Kaul said.

He said if 15 per cent of the MSP as service tax included the losses suffered by private players in procurement and

THE MSP QUESTION

 Private firms apprehensive of the
 15 per cent of notified minimum support price payable as service charge

- *The pilot scheme will be run to assess its impact
- Private firms say commercial viability to be the main concern for participation in procurement scheme
- Firms say they will need more clarity from the government before making any commitment

sale, then it wasn't a very attractive proposition because the government's own agency Nafed incurred 40-50 per cent of MSP as operational expenditure.

"Agreed, the private sector is expected to be more efficient than the public sector, but then this difference seems big," Kaul said. He said the second big challenge is getting funds from the government on time. "In the case of paddy, funds are locked up for more than six months, sometimes," he added.

In the recent past, the first attempt to involve the private sector was made in 2008, when the FCI engaged the NCMSL (now known as the NCML) and the NBHC for procurement of paddy in Odisha and some other states,

Thereafter, in 2016-17, the Centre, along with the FCI, again roped in the private sector for procurement of paddy in eastern India, where the procurement process was weak. This time, it was slightly more structured, and modalities were worked out in more detail.

Three private firms, including the NCML, were roped in for rice procurement on a cluster basis in Uttar Pradesh, Jharkhand, and West Bengal.

The other two firms were Veerprabhu Marketing and Farmers Fortune (India). Food Minister Ram Vilas Paswan had then said, in a written reply to the Rajya Sabha, that private firms were bound to furnish daily procurement reports to the FCI, which has the right to inspect purchase centres, storages and miller premises.

The FCI would do the quality check of rice at the time of acceptance at its depots.

Moreover, these firms have to mandatorily make the MSP payment electronically to farmers within 48 hours of procurement. The FCI would evaluate the performance of private players and impose a commensurate penalty on them for their acts of omissions and commissions.

In UP, the NCML was given a cluster to procure rice from four districts — Ballia, Mau, Ghazipur and Chandauli. Veerprabhu Marketing was awarded an area covering Allahabad, Kausambhi, Pratapgarh and Sultanpur. Similarly, Farmers Fortune (India) was given a cluster covering Ambedkarnagar, Basti Sant Kabirnagar and Siddarthnagar. In Jharkhand, the NCML was given two clusters — South Chottanagpur and Kolhan. In West Bengal, Veerprabhu Marketing was awarded four clusters, covering Bankura, Burdwan, Dinajpur and Siliguri districts.

The success or failure of these experiments are still being evaluated.

"If the central government does not bear the losses suffered by private players, who will be interested to come for 15 per cent charge when the market price of some oilseeds is 20-30 per cent less than the MSP," said Shiraz Hussain, former agriculture secretary. Shortage of storage space is another problem, which private players might encounter before entering the procurement space.

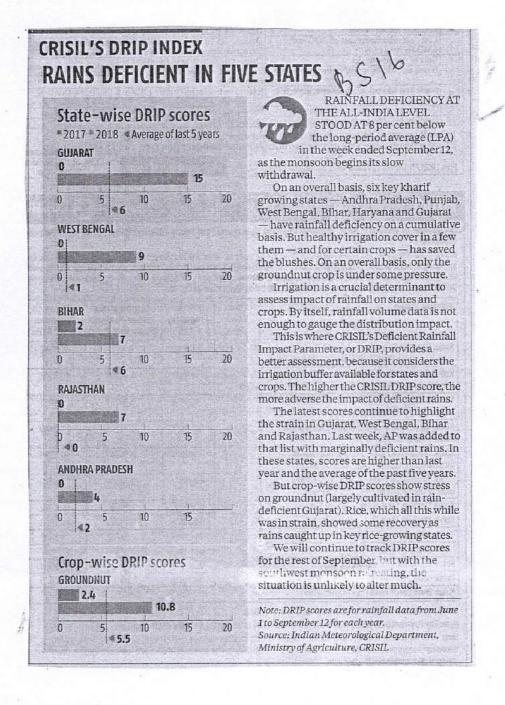
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Recovery in kharif sowing to boost fertiliser sales

DILIP KUMAR JHA Mumbai, 15 September

ertiliser companies are poised to clock a higher top line from the second quarter of this financial year owing to an increase in the overall kharif sowing area.

The Union Ministry of Agriculture, in its latest report released on September 7, has estimated a sharp recovery in sowing this

With this, the deficit of nearly 1.21 per cent in kharif acreage till the end of August has been bridged, with a marginal increase of 0.20 per cent to 104.17 million hectares.

The recovery has raised the potential for increase in fertiliser consumption as the kharif crop season progresses. Also, with the southwest monsoon expected to be normal this year, the use of fertiliser is set to increase. September and October are crucial for fertiliser companies, and this sets the tone for the entire financial year.

'The July-September quarter started on a positive note with an almost near normal monsoon and a healthy hike in minimum support prices (MSPs) of major crops. We estimate fertiliser production to increase during FY19 to 42.2-42.5 million tonnes from 41.3 million tonnes in the previous year. With a normal monsoon, soil moisture also remains favourable for the rabi crop. Hence, we estimate fertiliser consumption to go up this year," said Madan Sabnavis, chief economist, Care Ratings.

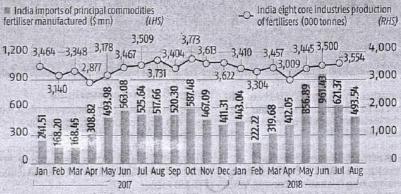
Fertiliser companies posted a sharp increase in their top line and bottom line for the quarter-ended June 2018 after an improvement in their financial performance in 2017-18.

Meanwhile, the government has rolled out direct benefit transfer (DBT) nationwide. Fertiliser companies have started aligning their sales with the DBT mechanism. The subsidy payout under DBT has started, and the government has to settle the claims within two-three weeks, which would provide a major relief for fertiliser companies.

However, the rising raw material cost poses a challenge for fertiliser companies. A sharp increase in crude oil prices has led to a proportionate rise in the prices of natural gas. Analysts estimate a 5 per cent increase in the cost of fertiliser raw materials owing to increase in gas prices.



DEMAND OF FERTILISERS (2017–18)



Compiled by BS research Bureau

Source Ministry of Commerce, Mospi

The price of natural gas was Fertiliser the lowest during the first quar- companies ter of FY18 (\$2.48/mmBtu), posted a sharp which aided in improving the profitability of urea manufac- top line and turers. According to the New bottom line for Domestic Gas Policy, the price the quarterof domestic natural gas is ended June 2018 revised every six months and

of a sharp increase in crude oil prices.

"This could put pressure on government spending," said Sabnavis.

The fertiliser subsidy for FY19 has been for manufacturing fertilisers.

increase in their

fixed at ₹700.9 billion, of which ₹449.89 billion has been earmarked as urea subsidy and the remaining ₹251 billion as nutrient-based subsidy.

"The monsoon has been well distributed in almost all key markets. However, a lower opening channel inventory

in the first quarter it is \$3.06/mmBtu (23.4) and positive market sentiments have per cent higher than the price in the corre- ensured a good offtake so far this finansponding period in the previous year). cial year," said Pratik Tholiya, an analyst Prices of natural gas have risen on account with Emkay Global Financial Services, in a note on Gujarat State Fertilizer and Chemicals.

India imports the raw materials needed

Hindustan Times (Delhi) ਜ਼ਕੁਆਨਰ ਟਾਡੂੰਸ਼ਕ (ਫ਼ਿਲੀ) The Tribune (Chandigarh) The Assam Tribune (Guwahati)
The Times of India (Mumbai)
The Telegraph (Kolkata-)

The Deccan Hearld (Bengluru)
The Deccan Chronical (Hyderabad)
Central Chronical (Bhopal)

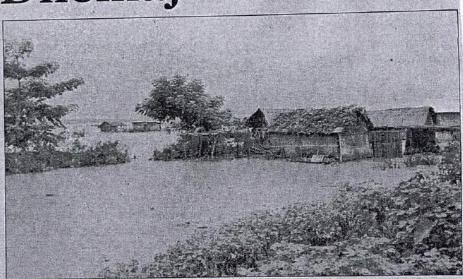
Flood situation critical in Dhemaji district

CORRESPONDENT

DHEMAJI, Sept 13: The overall flood situation in Dhemaji district is still critical as the surging water has submerged new areas causing severe hardships for the people. Several hectares of standing crops have been submerged by flood water.

Sources from the District Disaster Management Authority (DDMA), Dhemaji informed that about 22,689 people of 118 villages spreading in Dhemaji, Gogamukh and Jonai revenue circles have been affected in the second wave of flood. According to sources, altogether 4,078 hectares of crops in the district have been destroyed.

Overflowing water of Siang, Lali and Brahamputra has inaundated human habitation of Kobuchapori, Moonmuni Chapori, Mesaki chapori and Mudoi Islands, while it has submerged vast rural areas at Bera chapori, Borong Sorainbari, Galighat and Kangkan-chapori under Jonai circle.



Around 11,000 people of 81 villages are reeling under the second wave offlood. The subdivisional administration has opened two relief camps and distributing food items and other relief materials. Thus, the administration has already distributed 153.18 quintals of rice, 29.37 quintals of dal, 8.81 quintals of salt, 9 packets of baby food and 300 pieces tarpaulin besides other materials among the flood-hit villagers.

In Dhemaji circle, surging water of Jiyadhal river has flooded human habitation at Joirampur and Lalukijaan area on its right bank. The administration today opened a relief camp at Dharmapur LP School providing accommodation of 357 inmates of two villages.

The administration has so far distributed 154, 25 quintal has para rice, 30 quintal dal, 9 quintal bhemaji salt and 50 litre mustard oil ley of be among the flood-hit families Pradesh.

under Dhemaji circle.

The flood water also ravaged 35 villages under Gogamukh circle, including Gorotali, Chutiyakari, Rotuwa, Betonihula, Berbhonga, Bhokotgaon, Bordoibaam-Bongali and adjoining villages.

The autumn rain, which has turned torrential on Sunday, has paralysed normal life in Dhemaji district and Siang valley of bordering Arunachal Pradesh.

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

The Assam Tribune (Guwahati) The Times of India (Mumbai) The Telegraph (Kolkata) हिन्दरतान (पटना)

The Deccan Hearld (Bengluru) The Deccan Chronical (Hyderabad) Central Chronical (Bhopal)

emaji dist flood scene grim

CORREPONDENT

DHEMAI, Sept 14: The overal floosituation in Dhemaji dstrichas been grim as risingwates of the rivers in spaterave ibmerged vast ar-eas ii Sissorgaon and Jonai circle, therby causing severe hardsup tohe affected people.

A lood sport compiled by

the TistricDisaster Manage men Autority (DDMA) of Dhenaji rvealed that about 47,41 peole in 173 villages wer affect by the deluge so far, shile its as inundated 7,108 hecares f cropland in four revoue ccles of the district.

Gerfloing waters of the Lalriverbreached a dyke at No1 TarMajgaon and flooded limanabitation under BahirJonai Rayang-Bijoypur, Sig and ali-Sikari Gaon Panchyats, hile rising waters of th Bramaputra entered Segajararea and flooded 20 viages (south Jonai area.

urthe overflowing waters ofGainai has created flood fuy in 1 villages of Sissiobargon and issitongani areas.



With the Brahmaputra in spate, the inundated ferry ghat at Nimatighat in Jorhat, on Friday. – UB Pholos

under Gogamukh Circle.

In a similar manner, surging lent Jiyadhal river eroded a time of filing this report. waters of the Jiyadhal and Ku-culvert at Kekuri portion of the matiya rivers inundated 42 vil- BG railway line between Jiyalages in Pachim Dhemaji and dhal and Bordoloni station this Bijoy Tanti (22) of Kamalpur southern part (Bordoibam) morning and snapped railway village under Gogamukh Po-danger level at Kareng Boservices along the route. The Strong currents of the turbu- NF Railway has in the meantime engaged men and machines to repair the damage, tion in the region has improved and Kumatiya rivers are but could not succeed till the today, but the water level in slightly receding.

has so far claimed one life as partment record, the Brahlice Station drowned in the flood waters on Thursday.

the rivers have not receded. Flash floods in the district As per Water Resource Demaputra is flowing above the gibeel, Sissikoghor and Panbari. On the contrary, the Though the weather conditer level of Gainadi, Jiyadhal

Torrential rain leaves a trail of destruction in Itanagar

CORRESPONDENT

ITANAGAR, Sept 14: Flash floods and landslides triggered by torrential rain have left a trail of devastations in various parts of Arunachal Pradesh capital region here in the last 24 hours with at least two persons dead and three others missing after being washed away and dozens of houses damaged.

The worst-affected are Donyi-Polo Colony and Modir-ijo village. At Modirijo, besides large scale property damages, three members of a family, including a minor, were drowned early this morning around 4.30 am. Later, the body of the kid, identified as Kojam Beyong (3), was retrieved from downstream area at Naharlagun and handed over to the family. Those who went missing are Mary Beyong (32) and her 10-yearold daughter Pangpi Beyong.

At Donyi Polo Colony, three persons were washed away by floodwaters. However, two of them - Taring Yaha (50) and Rake Naku (30) were rescued and undergoing medical treatment, while the third, Mohan Bahadur Chetry (50), is missing

At Jami Jate near Donyi



Polo Colony, one Yadi Rigio was drowned and his body was retrieved from Modirijo but she succumbed to her injuries at hospital.

A search and rescue operation is underway to trace the missing people. The operation is being conducted by the district administration along with police and NDRF per sonnel, official sources said.

Few cars and motorbikes have also been reportedly swept away in the flooded river. People residing in flood prone areas have been asked to immediately shift to safer places. The district administration has opened temporary relief camps for the affected people.

Reports of widespread damages by flash floods and landslides are also pouring in from Lobby, Chandranagar areas. Reports of massive landslide in Potin to Pangin portion of NH-13 near Aalo-Bam-Pusi-Doke-Tirbin, Hoj-Potin and some other parts of the State have also been received

Meanwhile, Arunachal Chief Minister Pema Khandu has expressed deep shock and sorrow over the loss of precious lives at Modirijo and Donyi-Polo area due to landslide this morning.

Conveying his heartfelt condolences to the bereaved families, Khandu announced immediate release of ex-gratia payment of Rs 4 lakh each to the next of kin of the deceased and prayed for early recovery of those recuperating in the hospitals.

Kepean-

दिनाकं !3:09:20!8. को निम्नलिखित समाचार पत्र में प्रकाशित मानसून/ बाढ़ सम्बन्धा समाचाः

Hindustan Times (Delhi) ਜਬੰभारत टाइंक्स (ਫ਼ਿਲੀ) The Tribune (Chandigarh) Jਮਦ Hindu (Chennai)

The Assam Tribune (Guwahati) The Times of India (Mumbai) The Telegraph (Kolkata) ਫ਼ਿਕ੍ਰੂਦਗਰ (ਧਟਜਾ)

The Deccan Hearld (Bengluru)
The Deccan Chronical (Hyderabad)
Central Chronical (Bhopal)

Dam disclosures

The deluge in Kerala was made worse by inefficient management of 34 dams



AMESH CHENNITHALA

he people of Kerala have braved the rorst calamity since the great flood f 1924. The floodwaters have recedd from most of the affected areas arring Kuttanad. Most people have one back to their homes from relief amps, only to find them battered eyond redemption. As the State is oming back to a "new normal" after the devastation, it is time to ponder the reasons for the floods.

Rubbishing the contention from 1e Opposition as well as studies om international experts that the iismanagement of dams was the rimary reason for the floods, the erala government has stood firm iat incessant rainfall in August is hat caused the floods. This is in ontrast to the affidavit filed in the ipreme Court by the Chief Secrery of Kerala, which cited the water eleased from a dam as the major ause of the floods. While there was onsiderable deviation in rainfall in ugust, it is unacceptable to put the nus only on that. In fact, according a India Meteorological Departient study, the rainfall in August as only the sixth highest in the past 3 years (1875-2017) in Kerala.

lismanagement of dams

ne of the major functions of dams is bod protection — to attenuate the bw of water and its impact downream. The golden rule followed in am management is to maintain a bod cushion (buffer) in case of unspectedly high rainfall.

The economy, Mr. Goys said, was experiencing it best period under the go vernment led by Mr. Modi who had been decisive; hon est and worked relentlessly

what was good for the cour



"Controlled release from these dams would have reduced the gravity of the calamity." An aerial view of the floods in Kerala. • REUTERS

KSEB are Idukki, Lower Periyar, and Madupetty. The water from Lower Periyar, Madupetty and Mullaperiyar drains into the Idukki reservoir consisting of the Idukki dam and the Cheruthoni dam. The water from the Idukki reservoir and Idamalayar drains directly into the Bhoothathankettu dam, which is the lowermost in the Periyar system, just 15 km from Kothamangalam town.

A closer look at the reservoir levels reveals that the major dams in the Periyar system were filled to the brim starting August. Idamalayar dam was kept full for most of the days in the pretext of electricity generation. This caused the Periyar to overflow all through its course, in Kothamangalam, Kalady, Perumbavoor, Aluva, and Eloor.

It is the same story with the Chalakudy river system, which consists of the Tamil Nadu Sholayar, Lower Sholayar draining into the Peringalkuthu dam. The Peringalkuthu, which is the lowermost dam in the Periyar riversely of the lower most dam in the lower most da

He also sought to make light of the Opposition's criticism of the relentless fall in the value of rupee by claiming that the real fall in the Indian curther real fall in the lindian curtency was not more than ₹3

'Rupee's fall not so big'

tory board. Finally, when close to 20 lakh litres of water per second was released from Lower Sholayar and Parambikulam, and 15 lakh litres per second from 526 sq km of its catchment reached the Peringalkuthu dam on August 15, the dam overflowed for more than 3 metres, submerging Chalakudy town. The dam has been severely damaged with its structural stability is under serious threat.

The missing water level data of Kakki dam in the Pampa river system from the public domain is conspicuous as there has been a lot of hue and cry over its management. There is little doubt that it was the water which was flushed out of the Sabirigiri projects, Pampa dam and the Kakki-Anathode dam which caused the heavy flood in Pathanamthitta district and in Chengannoor. According to the data released by the State Disaster Management Authority, 85,300 litres of water was released every second from Kakki-Anathode dam, and

said that the government led by Prime Minister Narendra Modi was keen on sustainable solutions rather than taken to solve a specific issue may cause more harm than provide benefit, he said, adding that the retail inflation.

dams surged from 46.26 mcm/day on August 14 to 200 mcm/day the next day. This caused the towns downstream to be totally submerged.

Better management of water in Sholayar and Idamalayar would have considerably reduced the extent of the flood in the Periyar and Chalakuddy river system.

The operation and maintenance of dams is governed by the guidelines of the Central Water Commission and water management protocols. The safety, precautions and evacuation measures to be followed while declaring different alerts (blue, orange, red) are clearly mentioned in these guidelines. The guidelines state that the reservoir control schedule, release procedure and gate operation procedure have to be done only after assessing the potential impact of the procedures. The State government and the KSEB opened 34 of the 39 major dams simultaneously. Controlled release from these dams would have reduced the gravity of the calamity.

What needs to be done

Admittedly, the change in topography due to human interventions and climate change have contributed to the sporadic and excess rainfall. The proliferation in illegal stone-quarrying activity has been a major reason for widespread landslides. The decision of the incumbent government to reduce the boundary of a quarry from residential buildings to 50 metres has facilitated the mushrooming of the stone quarrying mafia and needs to be repealed at the earliest. The recent decision to water down the Kerala Conservation of Paddy Field and Wetland Act will add to the problem. The disaster management system has failed to predict

'No reply yet'

The petition, filed through advocate A. Maitri, also claimed that Ms. Mahajan's representation to the Central government on the price issue has not yet been decided.

ment's time.

sumed office, Mr. Goyal said:

the government had just as-

forming assets (NPAs) when

a White Paper on non-per-

d through Modi was keen on sustainsModi was keen on sustainsModi was keen on sustainsModi was keen on sustainsReferring to a suggestion for
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Referring to a suggestion for

The Deccan Chronical (Hyderabad The Deccan Hearld (Bengluru) Central Chronical (Bhopal

The Assam Tribune (Guwahati) The Times of India (Mumbai) Telegraph (Kolkata)

The Tribune (Chandigarh Hindustan Times (Delhi) नवभारत टाइम्स (The Hindu (Che

LOCAL FORECAST:

Mainly cloudy sky. A few spells of thundershower is very likely to occur.

TEMPERATURE: Max 27.4° C Min 23.4° C

Mishap claims 1 CORRESPONDENT

JALUKBARI, Sept 11: The body of an unidentified man aged around 65 was found near Boragaon, Gorchuk early this morning. According to Gorchuk police, the deceased was hit by an unidentified vehicle while trying to cross the road.

After post-mortem the body has been kept in the GMCH morgue for identification. Police investigation is on to trace the vehicle.

Jorabat flood: where lies the solution?

CORRESPONDENT

JORABAT, Sept 11: Even after the administration's strong action against encroachers, including a week-long eviction drive in an around Jorabat to mitigate the flood problem, the scenario has not changed to the expected level.

A brief downpour this morning badly inundated national highways 37 and 6 affecting the smooth flow of traffic. This led to traffic snarls for hours.

Recently, a week-long eviction drive was carried out by the Kamrup Metropolitan district administration in Jorabat area to clear a roadside drain.

Under the direction of Kamrup (M) Deputy Commissioner Virendra Mittal, a team comprising additional deputy commissioners P Mahanta, N Pathak, PP Bora and R Konwar, Circle Officer of Sonapur revenue circle Jenifer Yashmin Choudhury and officials of the National Highways Authority of India (NHAI) carried out the eviction drive against the illegal encroachment on the land meant for the drain. Over 200 structures were demolished during the drive along with deepening and broadening of the drain



Photo: Jorabat Correspondent

to increase its water-bearing capacity.

The local residents now tend to say that the eviction drive was "a failure" as the authorities had allegedly failed to hit at the right place.

A concerned section of society here smells something fishy as the NHAI is freshly indulged in building new culverts on NH-37 to mitigate the flood impact, but is showing its back to a popular demand for raising the height of the existing culvert at the Jorabat tri-junction.

So far a huge amount of money has

been spent on constructing a new culvert near Hastinapur. Another culvert is being constructed near the North East Cancer Hospital and Research Institute. Jorabat, but one wonders why no initiative has been taken to raise the height of the existing culvert at Jorabat.

"During normal days, the level of water in the drain remains just few inches below the upper surface of the culvert, which overflows at the time of downpour. It is almost impossible to solve the flood problem unless the

height of the culvert is raised," a local resident said.

The locals have also stressed the need to clean the drain under the culvert as temporary relief, other than clearing only the two ends of it just to befool the residents.

There are strong allegations that there is a conspiracy among different stakeholders not to raise the height of the culvert just to favour a businessman, leaving the residents and passers-by to suffer for life.

When contacted, Sonapur Circle Officer Jenifer Yasmin Choudhury said. "We have cleared all the identified blockages in the drain and have cleared the encroachment over it along the highway, but we are not able to clear the encroachment over the drain in the inner areas as it is not possible for a JCB or a PC to enter such places."

A plan is being formulated to shift the drain along the national highway as there will be no problem in cleaning it in future, she added.

The locals have urged the government to come up with a good plan to put an end to the menace.

The Deccan Hearld (Bengluru) Central Chronical (Bhopal

The Telegraph (Kolkata)

Chandigarh Hindustan Times (Delhi) नवभारत टाईम्स (बिक्सा)

Outlet blocked, village turns pond

RAVI DHALIWAL TRIBUNE NEWS SERVICE

GURDASPUR, SEPTEMBER 13 Khojepur is a village where epidemics occur frequently. For the past eight years, ever since some persons blocked the outlet of the pond by constructing houses, a person, on an average, has to be rushed to the hospital every day.

Water enters houses as there is no outlet. To make things worse, the water from the pond reverses its flow and accumulates at almost all places in the village.

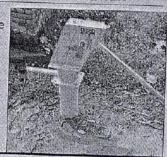
Nearly 60 per cent of the households are affected by the scourge of water which, in turn, leads to various vector-borne diseases.

Over the years, the administration has done nothing to mitigate the problems of 900-odd villagers, who are living in inhumane conditions.

The lone hand pump in

LONE HAND PUMP SPEWS DIRTY WATER

The lone hand pump in the village has its own tale to tell. Elderly recall the last time somebody used it in 2012, it spewed out contaminated water leading to an epidemic. Underground seepage from the pond located nearby ensured the water was polluted



the village has its own tale to tell. Old timers recall the last time somebody used it in 2012, it spewed out contaminated water leading to an epidemic. Underground seepage from the pond located nearby ensured the water was polluted.

Eight children were taken ill, following which a fear psychosis gripped the residents and the pump became 'untouchable.'

The village, surrounded by lush agriculture fields -

labelled as highly fertile by PAU - is at stone's throw way from two modern entities — the Institute of Hotel Management and Beant College of Engineering and Technology.

Irked with no response from the administration, the villagers collected Rs 3,000 and drained out water from the streets with the help of a diesel pump.

A Good Samaritan last week sent an SOS to Deputy Commissioner Vipul Ujwal, who visited the

village himself to take stock of the situation.

"I am aware of the appalling conditions. The administration has drawn up a plan under which sewer pipes will be laid so that water is drained out into nearby agriculture fields or numerous orchards that dot the village," said the DC.

"The situation turns worse during monsoon. Many people, who had resources, have left the village for good. Those still living do not have the wherewithal to move out. We are living under the curse of some unhappy God," said Sarpanch Ramesh Kumar.

The village falls in the Dinanagar Assembly segment represented by Cabinet minister Aruna Chaudhury.

Girls wade through a waterlogged road on the way to school in Gurdaspur's Khojepur village, TRIBUNE PHOTO



Times of India (Mumbai)

he Telegraph (Kolkata.)

बाढ सम्बन्धी समाचा

दिनाकं 1,8:09:2018... को निम्नामिष्टियत समाचार पत्र में प्रकाक्षित मानसून/

CWC report on Kerala dams relevant to NE

GUWAHATI, Sept 11: The Central Water Commission (CWC), in its 46-page study report on Kerala recommended that it is essential to review the rule curves of all the reservoirs in Kerala.

The rule curves of the Kera- it says.

la reservoirs need to be forreservoirs having the live stor- ume of the reservoir in zones age capacity of more than 200 with different strategies for floods of August 2018, has MCM, in order to create some water supply for different uses. dynamic flood cushion for Rule curve is generally used to moderating the floods of lower return periods, particularly in flood control, the maximum in the early period of monsoon, height of the stored water, pre-

Rule curve is one of the most mulated for both conservation commonly used tools to aid and operations as well during reservoir operation. It means the flood, particularly for the the division of the useful vollimit the reservoir operations venting collapse in supply, etc.

The CWC recommendations in this regard have implications for the NE region, which has several hydroelectric power projects under operation and has the proposal for installing over 150 more hydel projects in the near future.

here that the phenomenon of

of the Indian subcontinent and 15, 16 and 17, 2018. This creatincidences of heavy to very ed severe flooding in the state. heavy rainfall activities have Due to severe rainfall from been gradually increasing here, August 15 to 17, the gates of along with the lengthening of the list of the number of rain- opened because of extremely less days.

It perhaps needs no mention mm rainfall between August 1, 2018 and August 19, 2018, about ervoir level (FRL) or only few climate change has been upset- 414 mm rainfall occurred in just feet below the FRL. ting the entire rainfall regime three days, that is - on August

about 35 dams were also large inflow of water in the res-In Kerala, of the total 758.6 ervoirs. Last month, the reservoirs were either at full res-

(See page 4)

The Tribune (Chandigarh