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Bio Medical Waste Management

Why in News?

The Meghalaya State Pollution Control Board (MSPCB), Shillong has come down with a heavy hand on the disposal of bio-medical waste (PPE suits, masks and surgical gloves) which is being dumped haphazardly into the environment.

The Member Secretary of the MSPCB, Shillong, has also ordered all healthcare facilities including veterinary institutions, animal houses, pathological laboratories, medical or surgical camps, forensic laboratories and urban local bodies to strictly adhere to norms and standards laid down in the Bio-Medical Waste Management Rules, 2016 and as well as the “Guidelines for Handling, Treatment and Disposal of Waste Generated during Treatment /Diagnosis/ Quarantine of COVID-19 Patients-Revision-4”.

Connectedness to the Syllabus

Paper I: Essay: UPSC may ask candidates to write an essay on the issue of Bio Medical Waste Management, Segregation of waste and the related issues.

Paper III: GS II: Statutory, regulatory and various quasi-judicial bodies.; Government policies and interventions for development in various sectors and issues arising out of their design and implementation.; Development processes and the development industry —the role of NGOs, SHGs, various groups and associations, donors, charities, institutional and other stakeholders.; Issues relating to development and management of Social Sector/Services relating to Health, Education, Human Resources.;

Paper IV: GS III: Science and Technology- developments and their applications and effects in everyday life. ; Achievements of Indians in science & technology; indigenization of technology and developing new technology. ; Awareness in the fields of IT, Space, Computers, robotics, nano-technology, biotechnology and issues relating to intellectual property rights. ; Conservation, environmental pollution and degradation, environmental impact assessment, Disaster and disaster management.

Articles Link

<https://swachhindia.ndtv.com/coronavirus-pandemic-exposes-broken-system-of-bio-medical-waste-management-experts-discuss-the-issue-and-solutions-49427/>

<https://theprint.in/opinion/delhi-vijayawada-india-dumping-covid-19-infected-waste-public-places/496396/>

<http://news.marketsizeforecasters.com/medical-waste-management-market-expected-to-witness-the-highest-growth-2025>

<https://thenortheasttoday.com/mspcb-calls-for-compliance-with-biomedical-waste-management-norms/>

Maps and Images:

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BIO - MEDICAL WASTE

CYTOTOXIC WASTE આરોગ્યકારી કષણો	INFECTIOUS WASTE (PLASTIC) બોન્ડિન્ફિક્શન્સ કષણો	INFECTIOUS SHARP WASTE બોન્ડિન્ફિક્શન કષણો
Black Bag  <p>CYTOTOXIC WASTE</p> <ul style="list-style-type: none"> • Cytotoxic Waste • Expiry Date Medicine • Radio Active Substance Waste <hr/> <ul style="list-style-type: none"> • આરોગ્યકારી કેસનું • રોગપદકી ડેફની દવાઓ • રેડિયો સોલિટિય દેસટ 	Red Bag  <p>BIO-HAZARD INFECTIOUS PLASTIC WASTE</p> <ul style="list-style-type: none"> Used and Disposable plastic items like... • Blood Bags • Infectious I. V. Sets • Infectious plastic tubings • Rubber catheters • Cut plastic / latex gloves <hr/> <p>વધારું જાણ નિયત કર્યા કોણું વન્નાનું જોઈએ....</p> <ul style="list-style-type: none"> • વાડ કેસ • મોસ્કુલ જાણ વી. સેટ્સ • મોસ્કુલ પાસ્ટિકની નાળીનો • રૂસનું કેસ્ટ • પાર્સિક/ કેલેક જોગાં કાપીને નિયત કર્યા આદે 	Blue Bag  <p>BIO-HAZARD INFECTIOUS SHARP WASTE</p> <ul style="list-style-type: none"> • Glass Bottles • Glass Ampoules • Injection Vials <hr/> <ul style="list-style-type: none"> • કાચની જાણાનીઓ • કાચની એમસ્યુલ્સ • છન્ઝકશન વાયલસ
RECYCLABLE WASTE બરિયાનીની કષણો Green Bag  <p>RECYCLABLE WASTE</p> <ul style="list-style-type: none"> • Office Stationery • Disposable paper cups • Tissue paper used for Domestic purpose • Kitchen Waste <hr/> <ul style="list-style-type: none"> • અંગ્રેઝમાં વરસાતી રેટેશનની • નિકાસ કર્યા થોડું પેરદ રૂપ • સામાન્ય વરસામાં લેવાનેલ દીરજુ પેરદ • ખોરાકી કષણો 	INFECTIOUS WASTE (NON PLASTIC) ખાસ્કોટ સિવાયની યોગી કષણો Yellow Bag  <p>BIO-HAZARD INFECTIOUS WASTE</p> <ul style="list-style-type: none"> Infectious dressing material like gauze, cotton etc. Human organs, body parts and tissues Blood bags Discarded cytotoxic medicines Discarded / expired drugs personal protective Equipments - disposable gown, mask, cap Infectious dressing material like gauze, cotton etc. <hr/> <ul style="list-style-type: none"> • વાડ ગોફ વિના, પેરિના • વાડ કેસ • મિનો ગોફ / જાણ વી. સેટ્સ કોઈ નાળી નાનું • જાણ કાપીનું હેંદું નિયત કર્યા કાપાનું • પાર્સિક, કેલેક, વી. • કેસ્ટે કુંભાની અનોનાનું કુંભાની નાનું 	INFECTIOUS & INJURIOUS SHARP WASTE બોન્ડિન્ફિક્શન કષણો કરે તેણે નિયત કષણો Puncture Proof Can  <p>BIO-HAZARD SHARP</p> <ul style="list-style-type: none"> Used Needles Used Scalpel blades Blades Cannula Stylet Lancets Broken glass slides & cover slip <hr/> <ul style="list-style-type: none"> • વધારું જાણ • વધારું કાપાનું જાણ • વી. • મોસ્કુલ સ્ટોનેટ • લેન્સ્ • સુર્જી કાપાની સ્ટોનેટ જોણ કર્યાનું

<http://brighterkashmir.com/bio-medical-waste-management>

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RULES FOR DISPOSAL OF BIO-MEDICAL WASTE



Human/animal anatomical waste, solid waste, expired medicines, mercury thermometers & chemical waste are medical garbage



Anatomical waste goes in '**Yellow**' bins



Surgical tools and needles in **Blue** bins



Plastic such as syringes and IV packs in '**Red**' bins



Chemical waste goes in '**Black**' bins

Gurgaon generates around **5,000 KG** of hazardous biomedical waste per day



583 health care facilities in the city are operating without authorisation under bio-medical waste management (BMW) rules, 2016

► A bar-code system has to be established for bags or containers containing bio-medical waste



► The state government should provide land for setting up common bio-medical waste treatment and disposal facility. Gurgaon has one such facility in Sector 37

<https://timesofindia.indiatimes.com/city/gurgaon/600-clinics-and-labs-violate-biowaste-rules-face-closure/articleshow/74017081.cms>

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WHAT RULES SAY

- Biomedical waste should be disposed of only after processing
- No untreated biomedical waste should be mixed with other wastes
- It should be segregated into



containers or bags at source

- NGT had asked Gurgaon administration to submit a report on hospitals
- Health centres told to specify location where waste is disposed of

<https://timesofindia.indiatimes.com/city/gurgaon/file-reports-on-biomedical-waste/articleshow/71087871.cms>

MANAGEMENT MATTERS

Clinics are small medical units, where the waste generation may not be as high as hospitals. However, the waste does contain syringes, bandages and medicines that must be disposed of scientifically

A general practitioner's clinic generates approximately 2kg bio-medical waste over 30 days

The private operator running the common bio-medical waste treatment and disposal facility at Kailas Crematorium on Raja Bahadur Mill Road collects about 4,000kg of waste daily

- The waste is mainly collected from registered hospitals, nursing homes, pathology labs, blood banks and clinics



Earlier this month, Delhi Pollution Control Board had imposed a penalty of ₹14.30 lakh on a dental clinic for not obtaining mandatory authorization or registration under the Bio-Medical Waste Management Rules, 2016. The penalty was sought as compensation for environmental damage



FIGURE IT OUT

10,000 Total clinics run by general practitioners

6,000 Clinics yet to sign up for scientific incineration of waste generated

2,000 Clinics that have not renewed their annual subscription for the last two years

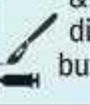
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<https://timesofindia.indiatimes.com/city/pune/citys-doctors-struggle-to-dispose-of-bio-medical-waste/articleshow/70403006.cms>

HOW'S BIO-MED WASTE DISPOSED

YELLOW	RED
Anatomical waste and discarded medicines must be disposed using incineration, plasma pyrolysis or deep-burial  	All contaminated waste should be disposed using autoclaving or microwaving method or using chemical disinfection  
WHITE	BLUE
Waste sharps including metals should be disposed with sterilization & shredding, disinfection, burial or recycling  	Glassware & metallic body implants should be first disinfected using scientific methods before being sent to recycling 

<https://timesofindia.indiatimes.com/city/bhopal/747-hospitals-across-mp-violate-bio-med-waste-rules-report/articleshow/74050805.cms>

Videos Link:

Apollo Hospitals (English)

<https://www.youtube.com/watch?v=NHpi45Uz89U>

Bio Medical Waste Management System in JIPMER (English)

<https://www.youtube.com/watch?v=32KyVb-Ggn8>

Insolvency and Bankruptcy Code

Why in News?

The Insolvency and Bankruptcy Code (IBC), rolled out in 2016 by the central government to fight the rising pile of bad debt, has started to falter in its aim because of various challenges mounted by its own agencies and regulators. At least a dozen big-ticket cases with total debt in excess of Rs 99,700 crore have been stuck for up to three years now due to legal

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challenges. The Enforcement Directorate (ED) has been the most proactive, attaching properties of companies despite orders from adjudicating authorities against doing so.

Connectedness to the Syllabus

Paper I: Essay: UPSC may ask candidates to write an essay on the issue of Insolvency and Bankruptcy code and the issues related to it.

Paper III: GS II: Statutory, regulatory and various quasi-judicial bodies.; Government policies and interventions for development in various sectors and issues arising out of their design and implementation.; Important aspects of governance, transparency and accountability, e-governance applications, models, successes, limitations, and potential; citizens charters, transparency & accountability and institutional and other measures.

Paper IV: GS III: Indian Economy and issues relating to planning, mobilization, of resources, growth, development and employment. ; Effects of liberalization on the economy, changes in industrial policy and their effects on industrial growth.

Articles Link

<https://www.financialexpress.com/industry/why-are-liquidation-cases-under-ibc-rising-haircut-becomes-new-fear-for-creditors-interview/2078027/>

<https://indianexpress.com/article/business/banking-and-finance/bankruptcy-resolution-falters-as-ed-cbi-sebi-create-hurdles-6587109/>

<https://www.financialexpress.com/opinion/supreme-court-looking-to-rework-insolvency-and-bankruptcy-code-is-positively-dangerous/2063167/>

<http://www.mondaq.com/india/insolvencybankruptcy/982826/nclt-has-no-power-to-quash-civil-suit-or-direct-police-to-arrest-any-person-obstructing-liquidator-under-ibc-nclat>

Maps and Images:

The infographic is titled "ORDINANCE TO AMEND INSOLVENCY AND BANKRUPTCY CODE, 2016". It is divided into two main sections: "DECISIONS" and "BENEFITS".

DECISIONS	BENEFITS
• Special Dispensation to MSMEs in the Insolvency Process	→ Faster Turnaround and Ease of Doing Business
• Treating Home Owners as Financial Creditors	→ Easier to Recover Investments
• Change in Voting Structure	→ Promoting Resolution over Liquidation
• Change in Eligibility for Bidding	→ Improved Recovery from Non Performing Assets (NPAs)

On the right side of the infographic, there is a portrait photograph of Prime Minister Narendra Modi.

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<https://taxguru.in/corporate-law/insolvency-and-bankruptcy-code-amendment-ordinance-2018.html>

Cementing a right

The judgment, empowering home buyers to initiate bankruptcy proceedings against errant builders, is significant as many builders have been under fire for incomplete projects



- A Supreme Court Bench has confirmed the constitutional validity of the Insolvency and Bankruptcy Code (Second Amendment) Act
- The Act gives buyers the status of 'financial creditors' with power to vote in Committee of Creditors (CoC)
- The CoC decides on the future of the builder, including on what to do with his assets
- Earlier, the assets of the builder were divided among his employees, banks and other operational creditors. The buyers were left in the lurch

<https://www.thehindu.com/news/national/law-empowering-home-buyers-upheld/article28971126.ece>

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MINT GRAPHITI

CODE OF CONDUCT

Amendments to IBC seek to enforce a strict time limit for dealing with troubled companies and clarify the rights of all types of creditors.

PROPOSAL	A 330-day deadline for resolving bankruptcy.	Rights of all creditors clarified.	M&As are part of bankruptcy resolution.	IBC decisions binding on all governments.
LIKELY IMPACT	Fear of company going into liquidation may reduce litigation.	Protects secured creditors, as in the case of Essar Steel Ltd.	Gives flexibility to new investors in bankrupt companies.	Authorities cannot question the bankruptcy resolution.

We have proposed an overall time limit of 330 days for bankruptcy resolution which will cover all judicial processes and litigation. If it exceeds this limit, on 331st day, the corporate debtor will automatically go into liquidation.

INJETI SRINIVAS, secretary, ministry of corporate affairs



<https://www.livemint.com/politics/policy/cabinet-approves-eight-amendments-to-ibc-for-easier-resolution-1563361095180.html>

No Backdoor Entry

Those ineligible to bid under IBC cannot regain control during liquidation

Creditors cannot sell assets to ineligible persons



EXPERT TAKE

- **Move will** prevent defaulting promoters retaking control
- **May lead** to lower recoveries for creditors because of fewer eligible buyers

→ **Notification may** be challenged as it seeks to override a Parliament Act



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<https://economictimes.indiatimes.com/news/economy/policy/ibbi-amends-liquidation-process-norms/articleshow/73135953.cms?from=mdr>

Video Links

RSTV (English): <https://www.youtube.com/watch?v=YTOxzITaPU4>

RSTV (English): https://www.youtube.com/watch?v=2Cc4bB_q2H0

RSTV (English): <https://www.youtube.com/watch?v=a7-uhtt35rc>

Climate Change and its impact on Indian Region

Why in News?

Union Minister Piyush Goyal in a summit said that the threat of climate change is real and dangerous and the country has to move towards a world of net-zero carbon emissions. Meanwhile, Bangladesh PM Sheikh Hasina at an inaugural event also urged all the countries to combat the climate change menace and execute the 2015 Paris Agreement.

"We ultimately have to move towards a world where we are net zero in terms of carbon emissions. The threat of climate change is very real, near and dangerous," Goyal said at the Sustainability Summit on Circular Economy for Self-Reliant India. The summit was organised by the Confederation of Indian Industry via video conferencing.

Connectedness to the Syllabus:

Paper I: Essay: UPSC may ask candidates to write an essay on Climate change and its impact.

Paper II: GS I: Salient features of world's physical geography.; Distribution of key natural resources across the world (including South Asia and the Indian sub-continent); factors responsible for the location of primary, secondary, and tertiary sector industries in various parts of the world (including India). ; Important Geophysical phenomena such as earthquakes, Tsunami, Volcanic activity, cyclone etc., geographical features and their location-changes in critical geographical features (including water-bodies and ice-caps) and in flora and fauna and the effects of such changes.

Paper III: GS II: Statutory, regulatory and various quasi-judicial bodies. ; Welfare schemes for vulnerable sections of the population by the Centre and States and the performance of these schemes; mechanisms, laws, institutions and Bodies constituted for the protection and betterment of these vulnerable sections. ; Issues relating to poverty and hunger.

Paper IV: GS III: Major crops-cropping patterns in various parts of the country, - different types of irrigation and irrigation systems storage, transport and marketing of agricultural produce and issues and related constraints; e-technology in the aid of farmers. ; Issues related to direct and indirect farm subsidies and minimum support prices; Public Distribution System- objectives, functioning, limitations, revamping; issues of buffer stocks and food security; Technology missions; economics of animal-rearing. ; Conservation, environmental pollution and degradation, environmental impact assessment. ; Disaster and disaster management.

Articles Link:

[https://www.dnaindia.com/india/report-climate-change-threat-real-must-move-towards-netzero-carbon-emissions-piyush-goyal-2841971](https://www.dnaindia.com/india/report-climate-change-threat-real-must-move-towards-net-zero-carbon-emissions-piyush-goyal-2841971)

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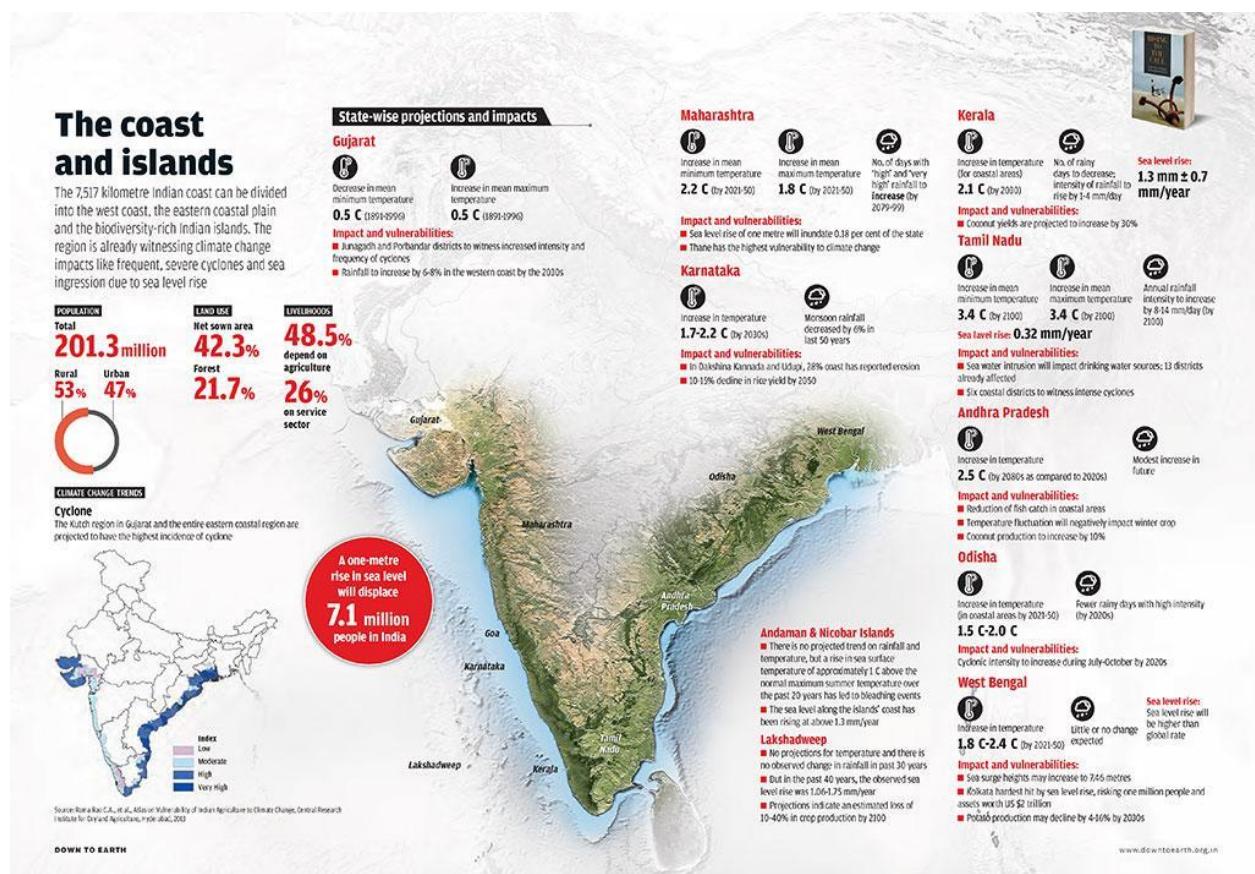
<https://www.thequint.com/explainers/jaipur-rains-why-parts-of-india-are-witnessing-extreme-rainfall-and-floods-explained>

<https://www.hindustantimes.com/india-news/warmer-arabian-sea-led-to-intense-rain-in-august/story-6F3mJu23c49NZ6Ay4KOZnI.html>

<https://www.downtoearth.org.in/news/climate-change/record-number-of-low-pressure-systems-a-cause-of-august-floods-73286>

<https://researchmatters.in/news/climate-change-driving-apple-orchards-higher-himalayas-and-geoengineering-could-be-stopgap>

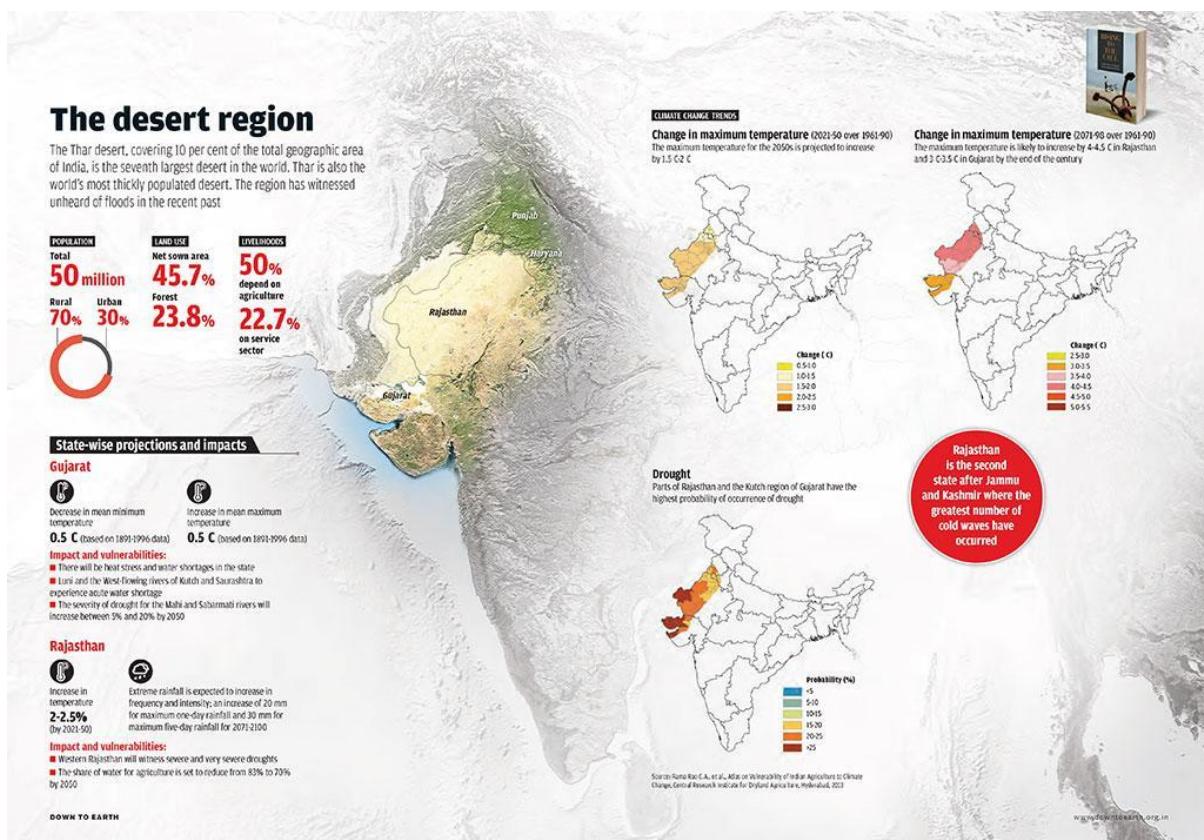
Maps and Images:



<https://www.downtoearth.org.in/factsheet/mapping-climate-change-in-india-61797>

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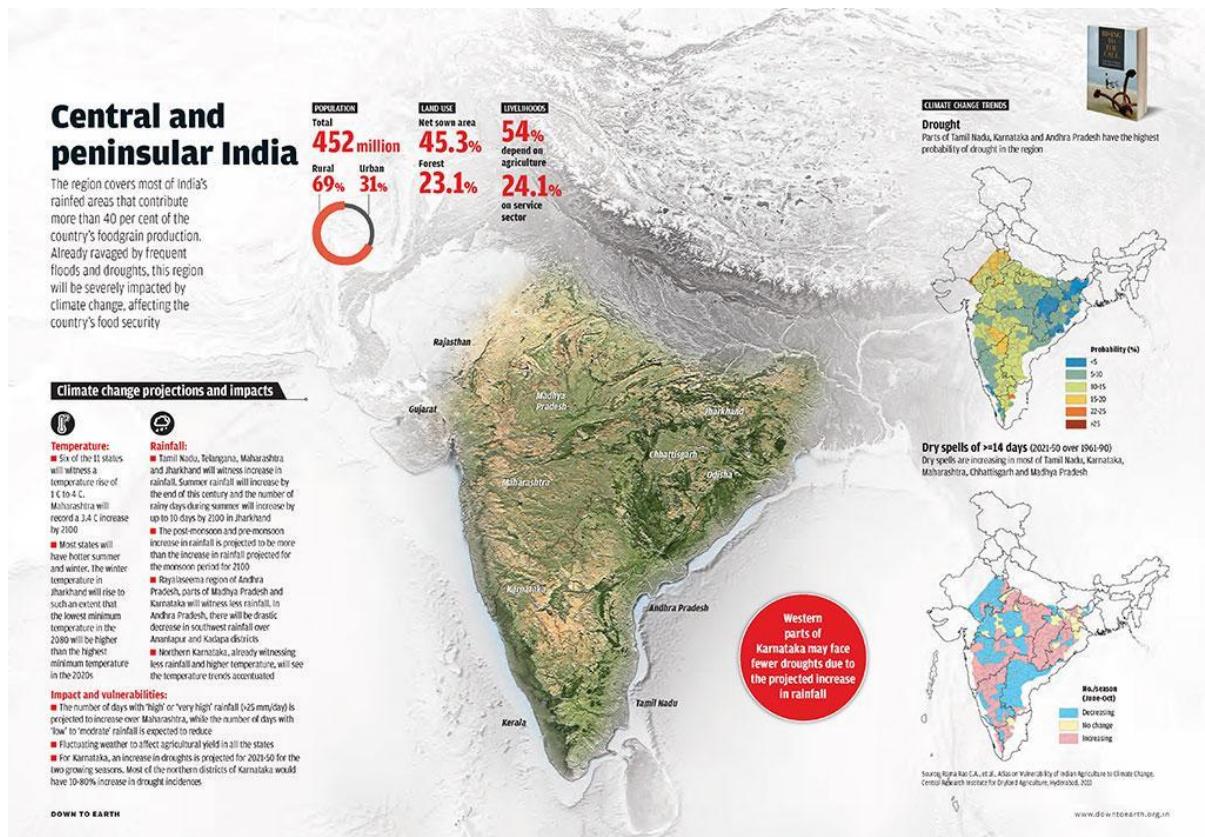
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<https://www.downtoearth.org.in/factsheet/mapping-climate-change-in-india-61797>

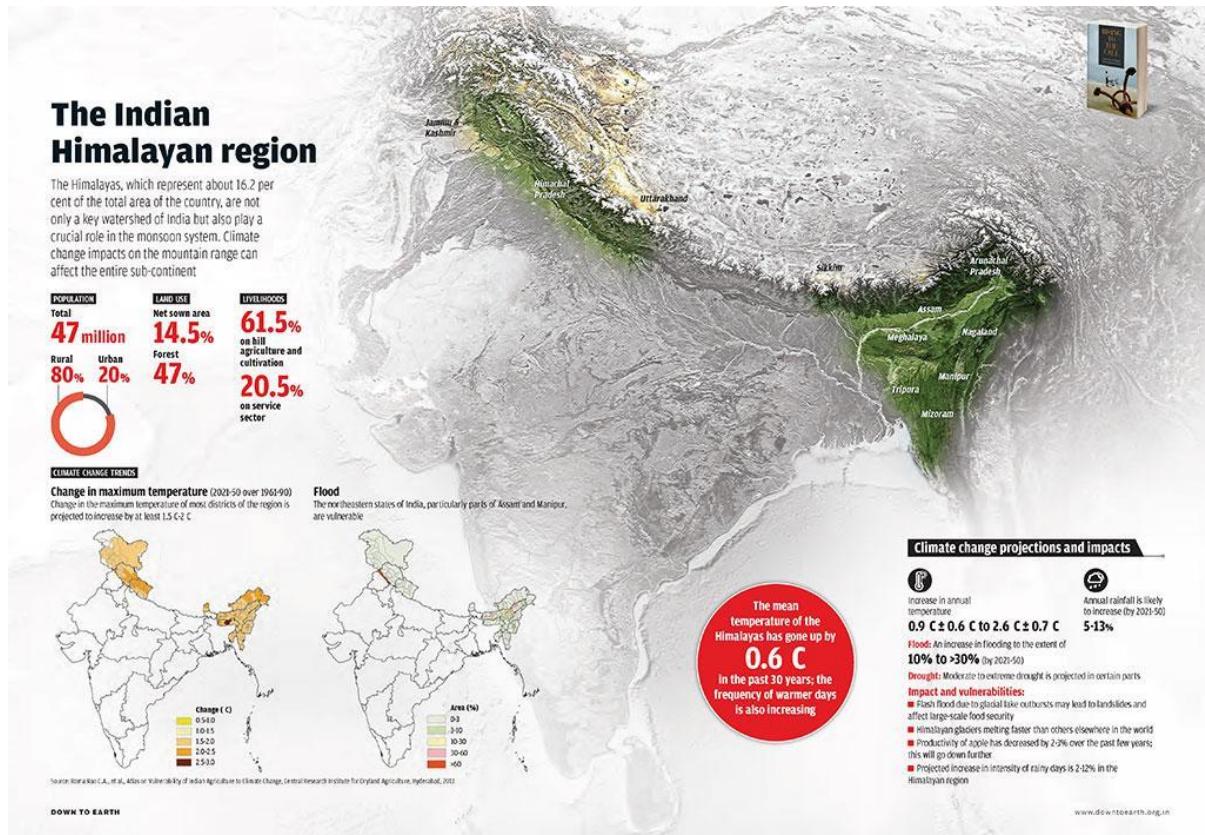
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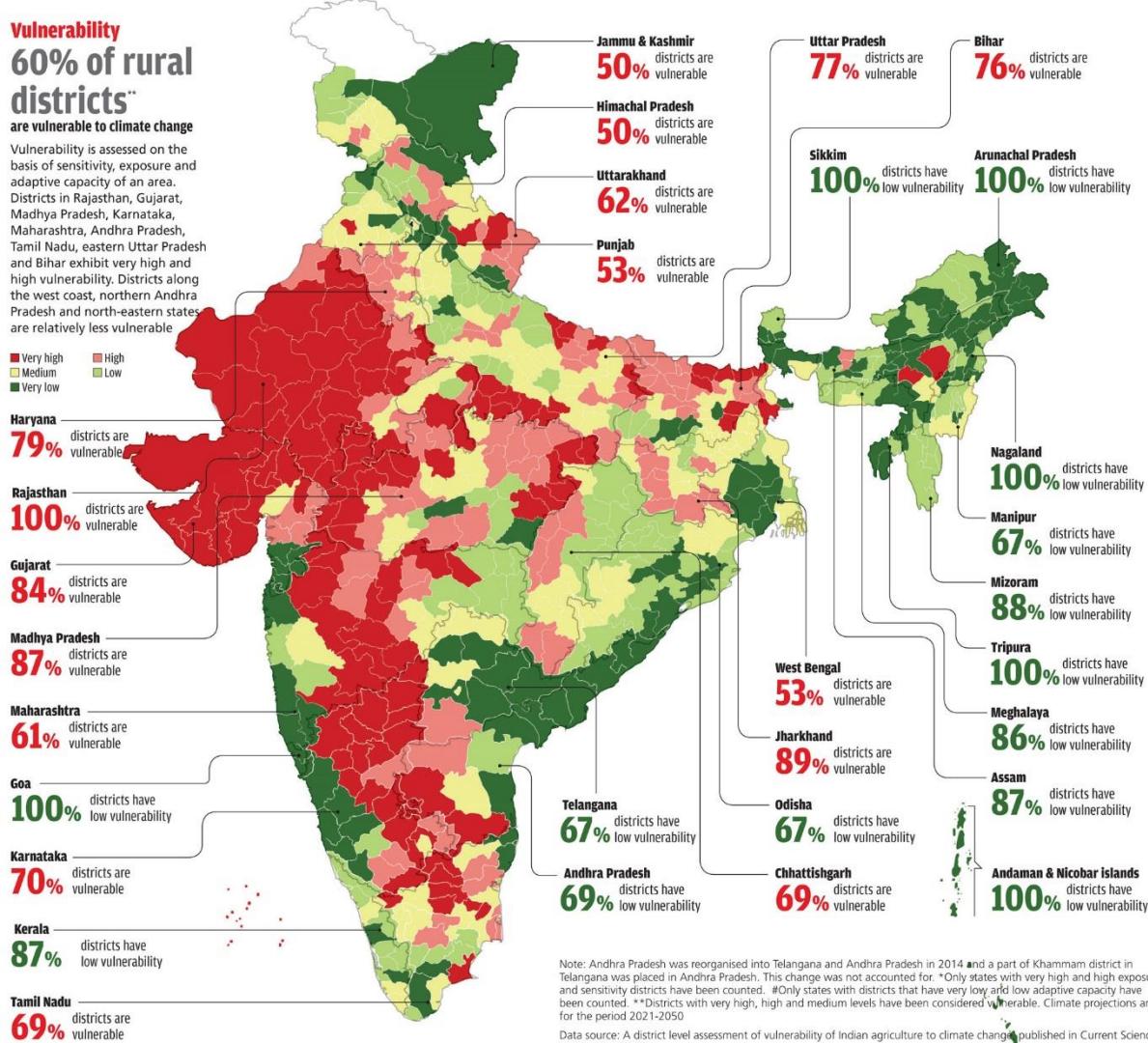


<https://www.downtoearth.org.in/factsheet/mapping-climate-change-in-india-61797>

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<https://www.downtoearth.org.in/news/climate-change/state-of-climate-farms-at-risk-58005>

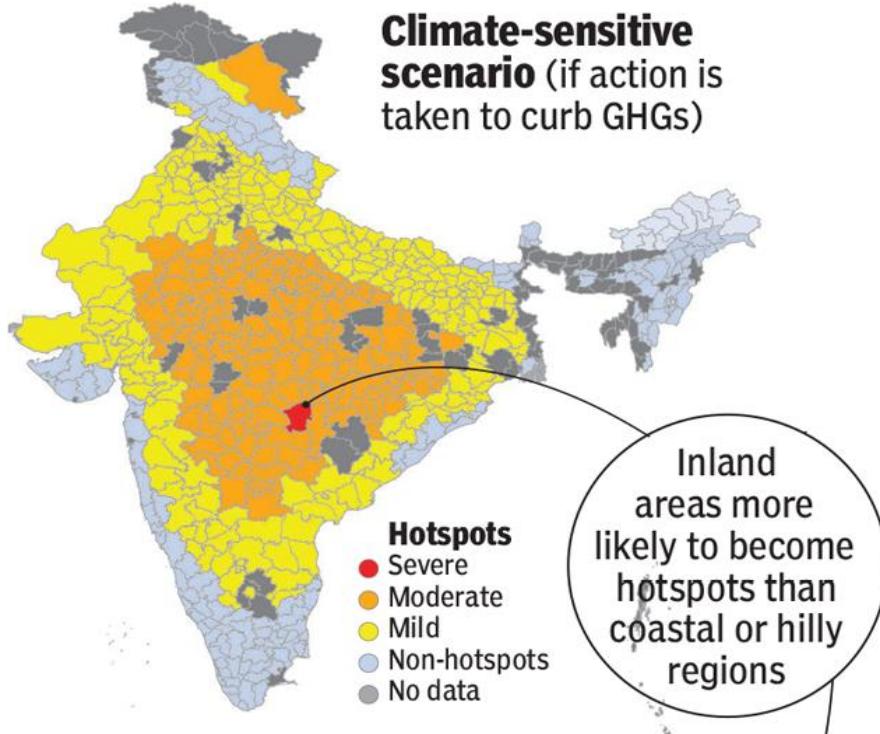
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A SLOW-MOVING **DISASTER**

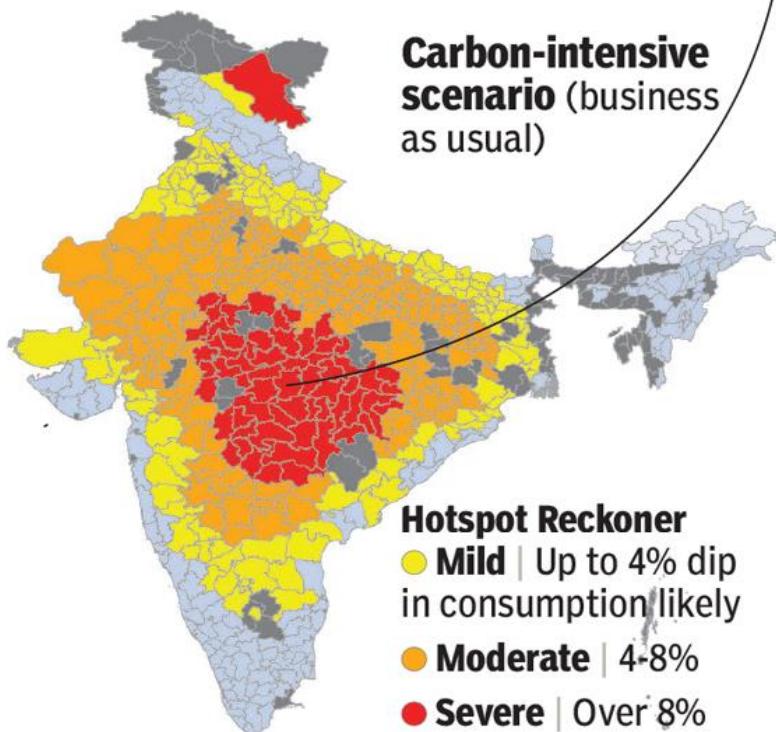
TOI

Climate Hotspots Will Emerge Throughout Indian Hinterland by 2050

Climate-sensitive scenario (if action is taken to curb GHGs)



Carbon-intensive scenario (business as usual)



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<https://timesofindia.indiatimes.com/india/climate-change-will-hit-living-standards-of-600m-indians-world-bank/articleshow/64786277.cms>

Video Links:

RSTV (English): <https://www.youtube.com/watch?v=3YF6zZuCIYo>

NDTV (English): <https://www.youtube.com/watch?v=F2LXnCklgf>

NDTV (English): <https://www.youtube.com/watch?v=AT1yi1tDenM>

PIB: <https://www.youtube.com/watch?v=WgoB1r17Z98>