

GIST OF DOWN TO EARTH MAGAZINE

MARCH 2022 EDITION

PART-II

**Important Articles
Simplified!**

**Overexploitation Of Groundwater
in the Country**

The 6th Mass Extinction!

Plastic Endgame

Urgency Of Climate Justice

The Anthropocene Epoch



Download
Our App
Now!

1. "Overexploitation Of Groundwater in the Country"

Relevance

GS 3: Conservation, Water Resources, Irrigation

Introduction

- Three of the world's top five groundwater-extracting countries are in **Asia**, with India leading the list.
- At least **10 states** in the country have districts that overexploit groundwater.
- As per the **Jal Shakti ministry's assessment**, the annual groundwater extraction in the country for all uses is 249 billion cubic metres, out of which 89 per cent is utilised for irrigation and the remaining 11 per cent for industrial and domestic use.

Countries with the highest groundwater abstraction

India - 251 km³/year

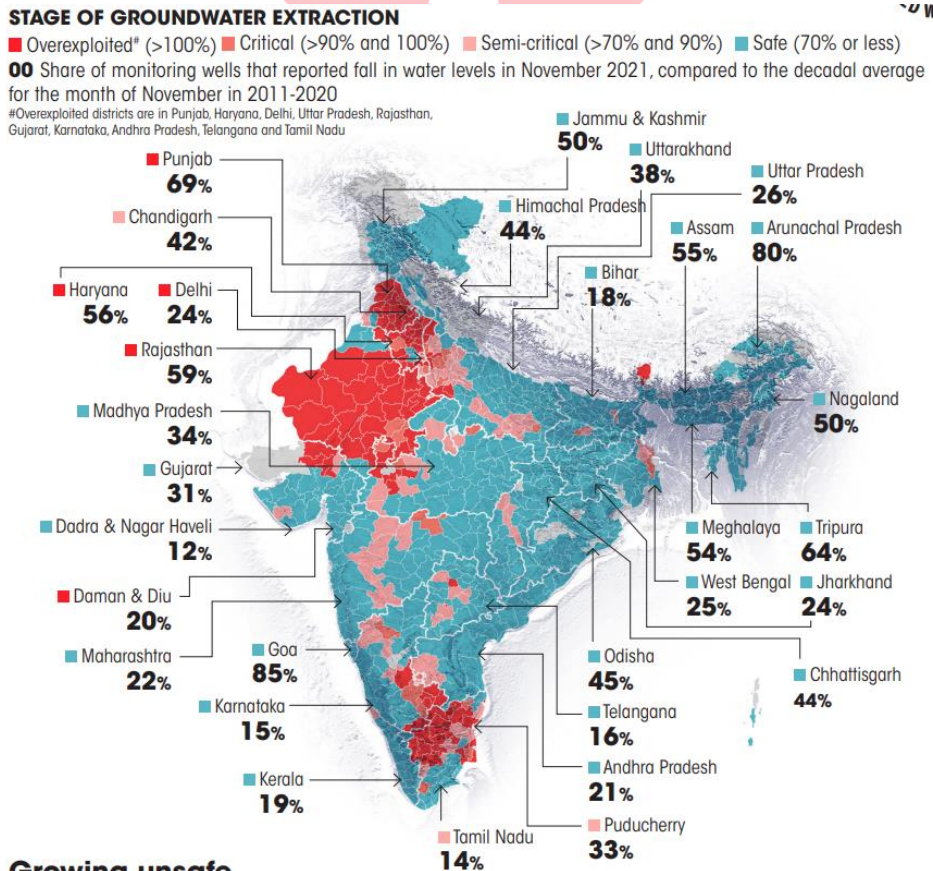
China - 112 km³/year

US - 111.7 km³/year

Pakistan - 64.8 km³/year

Countrywide Situation

- The over-exploitation of groundwater resources is the highest in **Punjab** among all other states in the country.
- Punjab is followed by **Delhi with 65 per cent and Rajasthan with 63 per cent**. In **Haryana**, **61 per cent** of the assessment units were being over-exploited.
- While over-exploitation of groundwater is the highest in some regions, there are many states and union territories where there is no over-exploitation.

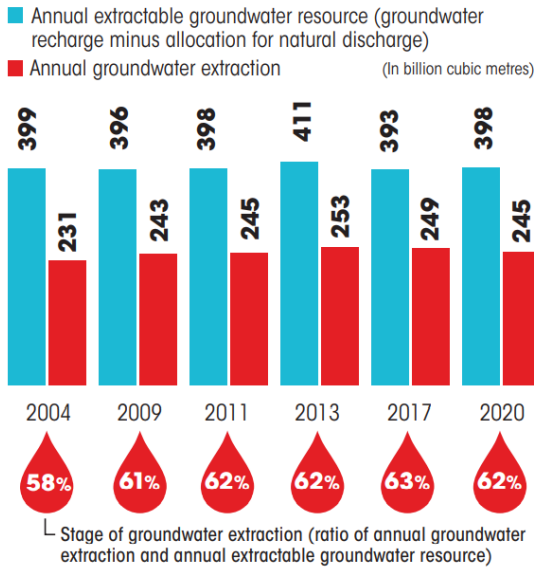


Growing unsafe

- Local-level regulatory action in all threatened blocks before they reach the “overexploited” stage is vital to avert depletion.

Misleading picture

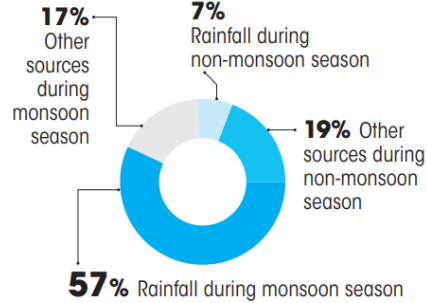
India’s overall stage of groundwater extraction levels mask the district-level crisis



Groundwater cycle

Groundwater is one of the primary sources of drinking water and irrigation

HOW IT GETS RECHARGED



HOW IT GETS DEPLETED



- The **participatory Groundwater Management approach (PGM)** should be adopted countrywide as it empowers communities in a defined aquifer area by providing governance rights, community awareness, capacity development, and knowledge and motivation for social regulation and the implementation of coordinated actions.
- The key institutional challenge for groundwater governance is **strengthening local institutions** and helping the informal groups to remain viable during the post-project phase.

Conclusion

Groundwater extraction has allowed rural families to reduce short-term vulnerability but may incur trade-offs and increase the risk of depletion and ultimately increase vulnerability in the long term. So, we need to move back to traditional scientific methods of storage and use.

What GOI is doing?

- In January, India released new guidelines under its **extended producer responsibility (EPR)** norms that introduced the concept of plastic credits for the industry.
- Under this, companies have a liability to collect plastic waste equivalent to the amount they generate in a year.
- Further, if a company collects plastic waste in addition to what it generates, it can sell the extra as credit to companies that are not collecting enough plastic waste.
- The policy has piqued the interest of consumer goods companies who are using it to greenwash their brands and avoid accountability.
- **Dabur**, one of India's largest consumer goods companies, in February started claiming it was plastic neutral just by fulfilling its EPR liability.



What Should be Done?

- To deal with the impacts of climate change, farmers and agricultural systems will have to adapt, from adjusting growing seasons to switching crops or installing water-saving irrigation systems.
- Vulnerability reduction and adaptation to climate change have also to be seen as an issue of **climate justice and climate-just development**.
- Climate justice requires consideration of the **legal, institutional and governance frameworks** that significantly determine whether adaptation is successful in addressing the needs of the poor.



BILINGUAL



**UPSC CSE
KA MAHAPACK**

Live Classes, Video Course,
Test Series & Ebooks

12 Months Validity

BILINGUAL



UPSC CSE 2022

Prelims (Paper I + II)

REVISION BATCH (CONCEPT+PYQ+MCQS)

Starts Apr 13, 2022 **9 PM to 11 PM**

**TEST SERIES
BILINGUAL**



**UPSC CSE
PRELIMS 2022**

Comprehensive Test Series

70+ TOTAL TESTS

BILINGUAL

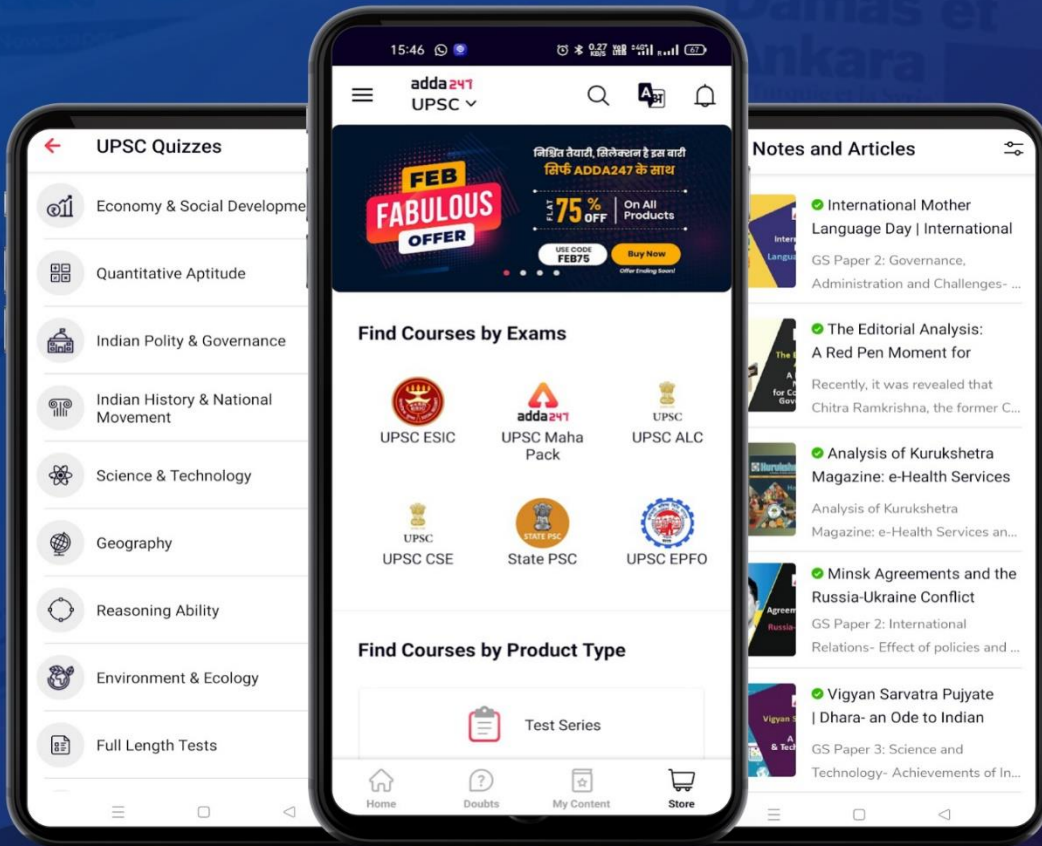


Mission CSAT Batch

for UPSC & State PSC

Starts Apr 11, 2022 **10 AM to 12 PM**

Prepare for UPSC & STATE PSC EXAMS



UPSC Adda247 App Features

- Daily Top News & Headlines
- Daily Current Affairs Articles
- Daily Editorial Analysis
- General Studies Revision Notes
- Daily Current Affairs Quiz with Detailed Solutions
- Topic Wise GS & CSAT Quizzes
- Monthly Current Affairs Magazine
- Gist of Yojana, Kurukshetra & Down to Earth Magazines
- Analysis of Sansad TV Discussions
- All Content Available in Hindi Medium as well!



Download
Our App Now!

