

I'll extract and summarize the key points from the image for you. Let me process it now.

Summary of the Article: "Severe Groundwater Pollution"

This Tamil article discusses the alarming levels of groundwater pollution in India, highlighting the presence of harmful chemicals, their impact on health, and possible solutions. Below is a simplified explanation:

Salient Points

1. Groundwater Contamination Crisis

- Groundwater in India is highly polluted due to industrial and agricultural activities.
- The Central Ground Water Board (CGWB) conducted a study revealing widespread contamination.
- Many sources of drinking water contain toxic chemicals exceeding safe limits.

2. Major Pollutants Found in Groundwater

- **Heavy metals** like lead, arsenic, and cadmium.
- **Pesticides and fertilizers** from agricultural runoff.
- **Industrial waste** contributing to dangerous chemical levels.

3. Health Risks

- **Fluoride contamination** leads to dental and skeletal fluorosis.
- **Arsenic poisoning** can cause cancer and skin diseases.
- **Lead exposure** affects brain development, particularly in children.
- **Nitrate pollution** leads to "blue baby syndrome" in infants.

4. Extent of the Problem

- Water in **17 states** of India has high levels of arsenic.
- In many locations, **fluoride levels exceed safe limits**.
- **About 70% of India's water sources are contaminated**, affecting millions.

5. Scientific Analysis

- Pollution levels in groundwater were found **as high as 532 parts per billion (ppb)**, far above safe limits.
- Reverse osmosis (RO) is suggested as a purification method, but it's expensive for rural areas.

6. Government and Research Efforts

- Studies by organizations like **BARC (Bhabha Atomic Research Centre)** focus on reducing contamination.
 - There are efforts to introduce **organic farming** to reduce chemical runoff.
 - India aims to implement better water management strategies by **2030**.
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Facts & Figures

- **180 districts** in India have serious groundwater pollution issues.
 - **70% of India's drinking water sources** are contaminated.
 - **17 states** report **high arsenic levels** in water.
 - **Fluoride levels** exceed safety limits in many regions.
 - **532 parts per billion (ppb)** of pollutants found in some groundwater samples.
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Conclusion

The article warns that groundwater pollution in India is a severe issue, affecting public health on a large scale. Immediate government intervention, better waste management, and the promotion of organic farming are necessary to ensure clean drinking water for future generations.

Would you like me to translate the entire article verbatim or refine specific parts?