

## Lonar Lake

*Prelims: Current events of national and international importance | Geography*

### Why in News?

*Recently, the water level of Lonar Lake in Maharashtra has risen drastically, and the Bombay High Court has taken suo motu cognisance of the issue.*

- **Location** - Lonar Lake is located in **Maharashtra's Buldhana district.**
- **Type** - It is formed inside a meteorite impact crater, estimated to be formed from ~12,000 years to 5.7 lakh years ago.
- It is considered the **largest basaltic impact crater in the world** by the Geological Survey of India.
- **Characteristics** - Saline and highly alkaline lake with pH ~10.
- Supports specialized extremophile microorganisms, making it uninhabitable for most plant and animal species.
- Stable alkalinity is essential to maintain its fragile ecosystem.
- It features a distinct ecosystem that sometimes turns pink due to microorganisms.
- **Ramsar site** - It is a **Ramsar site and National Geo-heritage Monument.**
- **Drainage** - The lake is fed by multiple streams and underground aquifers, but has no outlet.
- **Protected Temples** - The lake complex houses ancient temples, including the Kamalja Devi Temple and 15 ASI-protected temples are located along the lower rim of the crater.
- **Recent Concern** - Water level has increased by ~4 metres since 2022.
- Strong 2025 monsoon caused the Kamalja Devi Temple to be submerged by nearly 2 metres.
- Out of 15 ASI-protected temples, 9 are partially or fully submerged.
- **Reasons** - According to a geologist, human-induced groundwater recharge is one of the reasons.
- Construction of deep borewells (600-700 ft), dugwells, and percolation dams over the last 10-15 years.
- These structures recharge lower aquifers, which now feed groundwater into the lake.

- **Extreme Rainfall Events** - Intense rainfall in 2025 with enhanced percolation and subsurface flow into the lake.
- **Closed Basin Nature** - The lake has no outlet, and water loss occurs only through evaporation.
- **Institutional Response** - ASI plans to build a gabion wall as a temporary protective measure for the Kamalja temple.

## Reference

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