



Traditional Water Conservation Systems

Why in news?

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The historic Taj *bawadi* , built during the Adil Shahi era (1490-1686) in Vijayapura in Karnataka was recently restored.

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What are traditional water conservation systems around India?

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- **Phad** - It is a community-managed irrigation system in the Tapi river basin in Maharashtra. It starts with a check dam built across a river and canals to carry water to agricultural blocks with outlets to ensure excess water is removed from the canals.

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- **Zing** - It is found in Ladakh, are small tanks that collect melting glacier water. A network of guiding channels brings water from the glacier to the tank.

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- **Kuhls** - They are surface water channels found in the mountainous regions of Himachal Pradesh. The channels carry glacial waters from rivers and streams into the fields.

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- **Zabo or Ruza System**- It is practised in Nagaland. Rainwater that falls on forested hilltops is collected by channels that deposit the run-off water in pond-like structures created on the terraced hillsides.

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- **Jackwells** - The Shompen tribe of the Great Nicobar Islands uses this system, in which bamboos are placed under trees to collect runoff water from leaves and carries it to jackwells which are pits encircled by bunds made from logs of hard wood.

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- **Pat system** - It is developed in Madhya Pradesh, in which the water is diverted from hill streams into irrigation channels by diversion bunds. They are made across the stream by piling up stones and teak leaves and mud.
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- **Eri** - It is tank system, widely used in Tamil Nadu which acts as flood-control systems, prevent soil erosion and wastage of runoff during periods of heavy rainfall, and also recharge the groundwater.
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- **Johads** - They are small earthen check dams used to conserve and recharge ground water, mainly constructed in an area with naturally high elevation.
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- **Panam keni** - The Kuruma tribe (a native tribe of Wayanad) uses wooden cylinders as a special type of well, which are made by soaking the stems of toddy palms and immersed in groundwater springs.
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- **Ahar Pynes** - They are traditional floodwater harvesting systems indigenous to South Bihar. Ahars are reservoirs with embankments on three sides and Pynes are artificial rivulets led off from rivers to collect water in the ahars for irrigation in the dry months.
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- **Jhalara** - Jhalaras are typically rectangular-shaped stepwells that have tiered steps on three or four sides in the city of Jodhpur.
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- **Bawari** - Bawaris are unique stepwells that were once a part of the ancient networks of water storage in the cities of Rajasthan.
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- **Taanka** - It is a cylindrical paved underground pit into which rainwater from rooftops, courtyards or artificially prepared catchments flows. It is indigenous to the Thar Desert region of Rajasthan.
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- **Khadin** - Also called dhora, is a long earthen embankment that is built across the hill slopes of gravelly uplands. It is indigenous to Jaisalmer region and similar to the irrigation methods of Ur region (Present Iraq).
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- **Kund** - It is a saucer-shaped catchment area that gently slopes towards the central circular underground well. It is found in the sandier tracts of western Rajasthan and Gujarat.
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