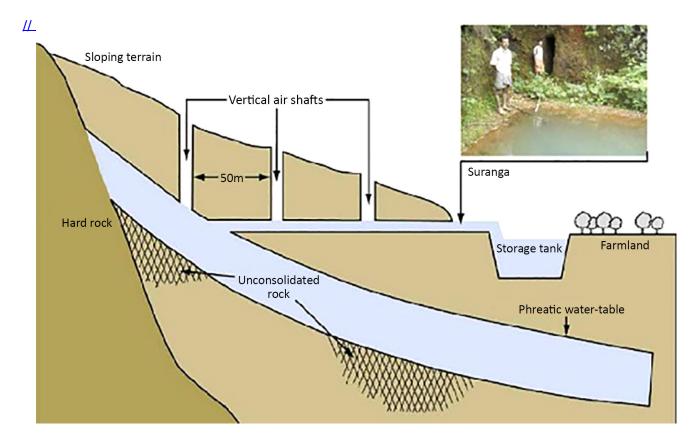
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Surangam System

Why in News

The Karez System of Afghanistan is in threat whereas a similar system named Surangam in South India is thriving.

• Surangams resemble the karez System both in structure and spread.



Key Points

- About Surangams:
 - The surangam or suranga is usually found in northern Kerala and southern Karnataka.
 - Surangam is basically a tunnel dug through a laterite hillock from the periphery of which water and moisture seeps out.
 - Surangams are similar to Qanats which once existed in Mesopotamia and Babylon around 700 Before Common Era (BCE). By 714 BCE, this technology had spread to Egypt, Persia and India.
 - Qanats are underground tunnel systems that bring infiltrated groundwater, surface

water, or spring water to the earth's surface using only gravitational force.

- This system has been very effectively used for domestic and agriculture purposes in dry areas of northern Malabar.
- Some people believe the surangam is indigenous and a likely origin of the suranga system refers to **18 Karhada Brahmin families** that had been moved to the Kasargod area from modern-day Maharashtra in the 17th century under duress.
- Karez System:
 - The karez system is a legacy of its Persian cultural moorings. It has suffered extensive damage in 43 years of war and stares at an uncertain future under the <u>Taliban's</u> second regime.
 - Karez is a water harnessing technology in which groundwater is brought to the surface by a tunnel.
 - In this system, **no mechanical pump or lift is used.** Gravity alone brings the water from the underground source.
 - The technology originated in Persia/Iran and was widely used during the medieval period.

C	Feelewieel	Traditional Water Managerent
Sr	Ecological Region	Traditional Water Management System
N	Region	System
0		
1.	Trans - Himalayan Region	Zing
2.	Western Himalaya	Kul, Naula, Kuhl, Khatri
3.	Eastern Himalaya	Apatani
4.	North Eastern Hill Ranges	Zabo
5.	Brahmaputra Valley	Dongs / Dungs/ Jampois
6.	Indo-Gangetic Plains	Ahars – Pynes, Bengal's Inundation Channels, Dighis, Baolis
7.	The Thar Desert	Kunds, Kuis/beris, Baoris / Ber/ Jhalaras, Nadi, Tobas, Tankas, Khandins, Vav/Bavadi, Virdas, Paar
8.	Central Highlands	Talab, Bandhis, Saza Kuva, Johads, Naada/Bandh, Pat, Rapat, Chandela Tank, Bundela Tank
9.	Eastern Highlands	Katas / Mundas / Bandhas
10	Plateau	Cheruvu, Kohli Tanks, Bhandaras, Phad, Kere, The Ramtek Model
11	Western Ghats	
12	West Coastal Plains	Virdas
13	Eastern Ghats	Korambu
14	Eastern Coastal Plains	Eri / Ooranis
15	The Islands	Jack Wells

Source: DTE

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