

## Water Management Lessons from Israel

### Why in news?

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The Indo-Israeli partnership is likely to extend to areas like water and agriculture.

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### What are the facts related to water?

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- India is water stressed. The country's annual **per capita availability of water is less than 1,500 cubic meters (cu.m)** and that scenario is likely to worsen.

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- Currently, about 78% of fresh water in India is used for agriculture.

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- Israel has per capita water availability of less than 200 cu.m.

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- It is an extremely water scarce region. Yet, the country exports high-value agri-produce to Europe and many other parts of the world.

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- The country is known for innovations in water management - be it drip irrigation, recycling of urban wastewater for use in agriculture or desalinisation of seawater for drinking purposes.

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### How water is governed in Israel?

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- As per Israel's water law, all water in the country is **common property resource**.

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- The government does **accounting for every drop of water**, ensuring good water governance.
- As a result, in 2013, of the total water available in Israel almost 16% came from desalinating seawater and another 22% came from recycling wastewater.
- Almost 62% of the irrigation water used in Israel comes from recycled and brackish water, thus saving potable water for domestic use.

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### **Whether the micro-irrigation concepts are new to India?**

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- Micro-irrigation technologies such as **drip irrigation and sprinklers** are not new to India.
- India has about nine million hectares under micro-irrigation.
- It can scale this up several times. But it needs to do so quickly.
- Israel can offer lessons to India in this respect.
- Any scaling up of technologies needs the **right policy environment**.
- Water is not a free good. It **needs to be priced** to reflect its scarcity.
- Such recycling endeavours with proper treatment that make wastewater safe have relevance in India.
- India does have the technology for this purpose.

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### **Where else India can cooperate with Israel?**

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- Another area of potential cooperation is **cleaning polluted rivers**.
- As per government reports, between 2009 and 2015, the number of polluted rivers and river stretches in India has almost doubled.

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- Almost 63% of the total sewage generated in the country is discharged into water bodies without any treatment resulting in acute river pollution.

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- Recently, the Delhi Government has roped in the Israeli firm to clean up an eight km stretch of the Yamuna.

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### **What is the way ahead?**

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- India needs an **integrated approach** to solving India's emerging water crisis, involving different kind of interactions between Indians and Israeli agencies.

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**Source: The Indian Express**

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