



GIDC Degree Engineering College

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Major Dams and Canals in India

Mechanical engineering

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What is a dams ?

- A dam is a barrier that impounds water or underground streams. Dams generally serve the primary purpose of retaining water, while other structures such as floodgates or levees (also known as dikes) are used to manage or prevent water flow into specific land regions.

- A dam can also be used to collect water or for storage of the water with can be evenly distributed.

- # Types of dams :
- Arch dams
 - Gravity dams
 - Embankment dams
 - Rockfill dams
 - Earthfill dams
 - Saddle dam
 - Check dam
 - Dry dam
 - Underground dam
 - Beaver dams

Cheruthoni Dam:

• Cheruthoni Dam, the largest concrete gravity dam in Kerala, is located close to Idukki arch dam. It is the third highest dam in India with a 454 feet-high across River Cheruthoni. Idukki is a hill station in India, is much famous for its wildlife treasure keenly followed by other attractions too. These two dams are one of best picnic spot for the tourists, The Idukki and Cheruthoni dams opened to the public in connection with the Onam festival season. At the end of the Cheruthoni dam continue walking along the properly fenced road lead to Idukki Dam. The height of 560 feet brought a thrilling experience and wonderful view of greens valley.

- **Height:** 450 feet
- **Length:** 2300 feet
- **Type:** Concrete Gravity Dam
- **River:** Cheruthoni River
- **Location:** Kerala



Indira Sagar Dam:

• Indira Sagar dam built on the Narmada river with a height of 92m. is concrete gravity dam, located in Khandwa district of Madhya Pradesh. Indira Sagar project was the key project on Narmada river providing excellent storage site of water. Indira Sagar Dam has the biggest reservoir in India.

- **Height:** 92 m
- **Length:** 653 m
- **Type:** Concrete Gravity Dam
- **River:** Narmada River
- **Location:** Madhya Pradesh
- **Installed capacity:** 1,000 MW



Maithon Dam:

• Maithon Dam is built on the river of Barakar located at Maithon and is a big dam in tribal state Jharkhand. Maithon Dam is one of the most popular dams in Jharkhand and one of the most successful multipurpose projects in India. This dam specially designed for flood control and generates high electric power. There is an underground power station, the first of its kind in the whole of South East Asia. Maithon Dam is the biggest reservoir in the Damodar Valley.

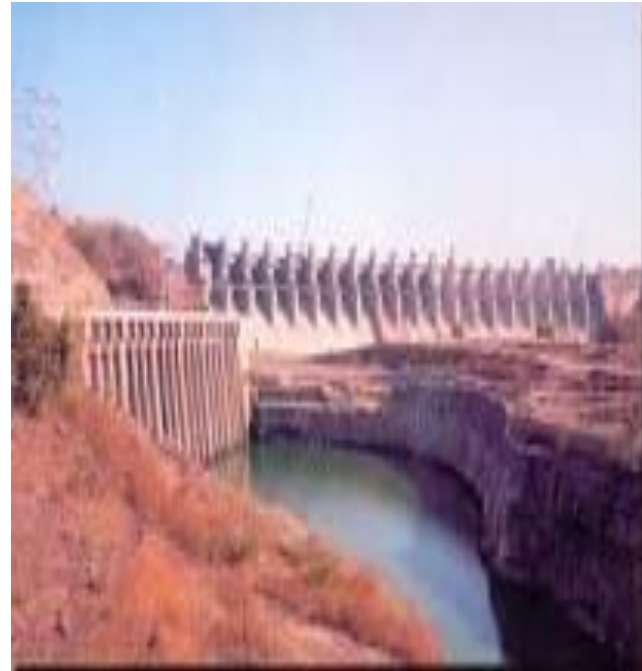
- **Height:** 165 ft
- **Length:** 15,712 ft
- **Type:** Concrete cum Earthen dam
- **River:** Barakar River
- **Location:** Jharkhand
- **Installed capacity:** 60 MW



Bisalpur Dam:

•The greatest dam of Rajasthan-Bisalpur, located in Tonk District of Rajasthan. The dam is built across the Banas River between two mountains. The largest dam of Rajasthan-Bisalpur with a height of 39m is one of the honor of Rajasthan. Tonk dam attract vast variety of birds local as well as migratory.

- **Height:** 130 ft.
- **Length:** 1883 ft
- **Type:** Gravity Dam
- **River:** Banas River
- **Location:**Rajasthan
- **Installed capacity:** 172 MW



Koyna Dam:

• Koyna Dam is built across river Koyana in Koyna Naga Maharashtra with a height of 103m. It is one of the largest dams in Maharashtra located at western ghats. The lake founded by the Koyna dam is called The Shivaji Lake, the area is surrounded with the natural beauty of Sahyadri Mountains Ranges.

- **Height:** 339 ft.
- **Length:** 2,648 ft
- **Type:** Rubble-Concrete dam
- **River:** Koyna River
- **Location:** Maharashtra
- **Installed capacity:** 1,920 MW



Use of Canal....

- Indian states are full of canals used for irrigation and as water transport in different parts of the country.
- These water transports of India play a very important role in irrigation of crops in drought region of India such as Rajasthan and Tamilnadu.
- Indian governments has launched many projects for rivers Inter link and National Waterways.

Upper Ganges Canal...

- The Upper Ganges Canal is the main canal of Ganges canal system projects, which starts Haridwar to Aligarh district via Meerut and Bulandshahr.
- The **1412 Km** long Upper Ganges Canal is use to irrigates the Doab region of India.



Indira Gandhi Canal...

- The Indira Gandhi Canal is the longest canal in India and the largest irrigation project in the world.
- Indira Gandhi Canal is 649 km long and consists of Rajasthan feeder canal and Rajasthan main canal and runs through 167 km in Punjab and Haryana and remaining 492 km in Rajasthan.
- The canal is one of the project of Green revolution in India and also runs through The Great Thar Desert.



Sutlej Yamuna Link Canal

- The Sutlej Yamuna link canal also known as SYL is a major project to connect the Sutlej and Yamuna rivers.
- Sutlej Yamuna link canal is 214-km long freight canal which will create important commercial links to India.
- The Sutlej Yamuna waterway is 90 percentage completed but the remaining 10 is still remaining.



Buckingham Canal

- The Buckingham Canal is a fresh water canal runs from Vijayawada to Villupuram District in Tamil Nadu.
- Buckingham Canal is second longest canal in India with an length of **421.55 km** runs, along with Coromandel Coast of India.
- It connect most of the water bodies like Pulicat Lake, Krishna River and the port of Chennai.



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Sharda Canal

- The Sharda Canal is the longest canal in Uttar Pradesh along with its several branches it form a network of canals.
- Sharda Canal is located in the Pilibhit district and has a total length of **938 Km** including all branches.
- Narmada Canal brings water for the farmers and residents of Jalore District and Barmer Districts of Rajasthan and rest of the part of Gujarat, from the big Sardar Sarovar Dam.





Thank you