

Irrigation

Moat

- Moat (pulley-system) irrigation works by constructing a moat(water channel) a
- This moat(reservoir)is connected to a water source, such as a river, lake etc.
- A pulley system with ropes and buckets is set up along the moat.
- The buckets are lowered into the moat to collect water and then raised and transported along the channels around the agricultural fields.



Chain pump

- Chain-pump irrigation system consists of a series of buckets or containers attached to a chain, which is driven by a wheel or crank.
- As the chain moves, the buckets scoop up water from the source and carry it to the desired location, where it is emptied and used for irrigation.



Dhekli

- The dhekli system consists of a long wooden or bamboo pole, called a dhekli, which is balanced on a fulcrum, usually a wooden or stone support.
- One end of the pole has a bucket or container attached to it, while the other end has a counterweight, often a large stone or a bundle of mud.
- The bucket is lowered into the water source, and the counterweight is used to lift the filled bucket.



Rahat

- The Rahat system or Lever system, consists of a series of buckets or containers attached to a long chain or rope, which is looped around a wheel or pulley.
- One end of the chain is submerged in the water source, while the other end is connected to a counterweight or animal. As the animal moves forward, the chain is pulled, causing the buckets to lift water from the source and empty it into a channel or reservoir on the other side.

