



WATER CONSERVATION TIPS



**DEPARTMENT OF SOIL AND
WATER CONSERVATION,
PUNJAB**



Conserving Water at Home

- ✚ **Fix your Leaks** – Always check all your bath fittings for any leakage and get it repaired immediately.
- ✚ **Flush with Less** – Convert your old flush toilet to a dual-flush toilet that saves water



- ✚ **Turn Off the Tap While Brushing or Shaving** – Don't leave the tap open while brushing or shaving as an average tap throws approximately 10 liters of water every minute.
- ✚ **Bathe for Shorter Duration** – Reduce the duration of shower to bare minimum.

- ✚ **Use Bucket to Wash your Car or backyard** – While using a bucket may require a little more effort but using it instead of running water will definitely reduce the wastage of water.



- ✚ **Use Less Electricity** - Power plants use thousands of gallons of water to cool. Do your part to conserve power, and you're indirectly saving water, too!

- ✚ **Re-use RO Waste Water** – An average RO purifier wastes approx 3 litres of water for every litre of purified water. Re-use waste water in cleaning dishes and watering plants.



- ✚ **Washing Dishes by Hand** – Don't leave water running for rinsing. Fill sink with water or use a large pan for rinsing dishes.

- ✚ **Washing Dishes by Dishwasher** – Always remember to load your dishwasher to its full capacity. This will avoid multiple running cycles of the dishwasher

- ✚ **Clean Fruits & Vegetables in a Pan** – Clean fruits and vegetables in a pan instead of cleaning under running water.



- ✚ **Wash Less Often** – Several clothes like sweaters, jeans, towels, track pants and jackets do not require washing every time you wear.

- ✚ **Use Smart Watering Tactics on your Garden and Plants** – Water only root zone of plants. Keep your home garden and plants green and healthy without wasting water.

Conserving Water in Agriculture

- ✦ **Micro Irrigation System** – Sprinkler and Drip irrigation is most efficient system of irrigation water application. Drip irrigation is highly efficient as it applies water directly to root zone saving upto 80% water



- ✦ **Underground Pipes for Irrigation Water Conveyance** - Laying of underground pipes for irrigation water conveyance helps conserve upto 30% of water otherwise lost to evaporation or seepage.

- ✦ **Sub Surface Irrigation** - This advanced drip irrigation water application methodology irrigates crops through sub surface drippers near root zone.

- ✦ **Residue Management** - In-situ residue management helps improve soil structure and its water holding capacity thus reducing irrigation water requirement. It is absolute necessity to prevent air pollution caused by residue burning.



- ✦ **Irrigation Scheduling:** To avoid overwatering, farmers should monitor the weather forecast and soil moisture, and adapt their irrigation schedule as per prevailing conditions.

- ✦ **Conservation Tillage** - Conservation tillage has marked influence on soil hydraulic characteristics helping in reducing runoff. Zero tillage is highly effective in conserving water.

- ✦ **Contouring and Terracing** - Tillage practices such as contour cultivation, contour bunding, terracing and ridging increases soil water profile in sub-mountainous region.



- ✦ **Harvesting Rainwater** - Harvesting of rainwater by construction of farm ponds and its utilization when required conserving the ground and surface water resources.

- ✦ **Compost and Mulch** - Compost, or decomposed organic matter used as fertilizer, improves soil structure, increasing its water-holding and retention capacity.

- ✦ **Crop Selection** - Growing crops that are appropriate to the region's climate is another way of farmers getting more crop per drop.
- ✦ **Direct Seeding of Rice (DSR)** - Puddled Transplanted Rice(PTR) requires large quantity of water. Direct rice seedling in the field saves about 30% of irrigation water.
- ✦ **Using Treated wastewater** - Utilization of treated waste water in agriculture offers a great opportunity in ensuring conservation and longevity of available water resources.

Water Conservation in Industrial & Commercial Sector

- ✦ **Recycling and Reuse** - Industries may reuse water within their own premises to minimize their drawal of freshwater. Water used for one purpose can often be reused for another.
- ✦ **Equipment Changes** - Switch from water-cooled systems to air-cooled systems as using water to cool hot equipment is one of the largest drains on water resources.
- ✦ **Upgrading Rinsing Systems** - Using intermittent-flow rinsing systems for removing contaminants from equipment in industry in place of open tanks or continuous-flow systems significantly reduces water usage in these procedures.
- ✦ **Routine Checks** - Proper mechanism should be in place for periodic monitoring of water supply equipment and identification of leakage in pipes, joints or valves.
- ✦ **Steam sterilizers** - Deployment of steam sterilizers in hospitals, research institutions, and pharmaceutical units in place of water based sterilizers' helps in conserving water.
- ✦ **Installation of Effluent treatment plant** - Every industry should install effluent water treatment plant and ensure that treated water is utilized in appropriate manner.



✚ **Install Water saving Equipments** - Plenty of water Conservation equipments are available. Installing such equipment should be mandatory for high water consuming establishments such as hotels, educational institutes, hospitals, offices.

✚ **Education of Workforce** - Every commercial institute or industry should build an understanding among employees and co-workers about the importance of water conservation.



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