

LOW FLOW TAPS

Maximum 4 litre/min water flow rate

Why are they better than normal taps?



My water & electricity bills are 20% lower after I installed these taps.



Earlier I had to order tankers every week but now I need it in about 10 days.

You can do this too



1. Buy water taps that have a water flow rate less than 4 liters per minute.

2. Buy and install aerators on regular taps.

Clean the aerator regularly to remove impurities. Steel aerators can last for up to 10 years but cost a little bit more than plastic aerators.

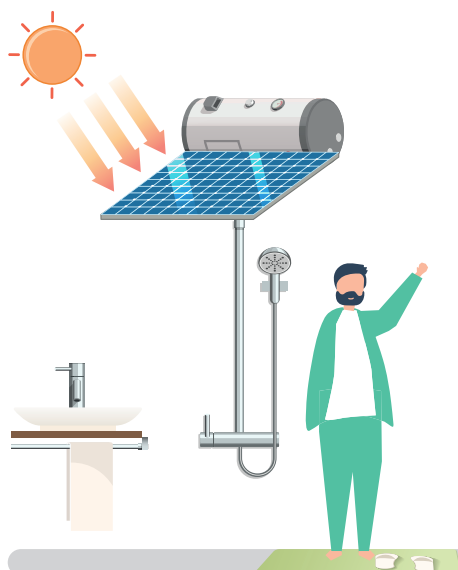


See related information
<https://www.ifcmanual.com/>

SOLAR WATER HEATER

Minimum 100 liters water tank capacity

Why is it better than geysers?



A cost-effective way to get hot water for my home.



Zero electricity bills for water heating.



I use it in all climates, even with minimal sunlight.

You can do this too



1. Contact the local supplier or an expert to determine the size and capacity of the solar water heater according to your location and hot water needs.

2. Roof is recommended for installation. The collectors should face South direction for maximum sunlight.

Two types are commonly available; Evacuated Tube Collector (most economical) and Flat Plate Collector. Ensure that the collector plates and tubes are always clean. No shading from surrounding buildings and trees. Keep checking piping & wiring for leakage/breakage. Some government agencies also provide incentives for installation.

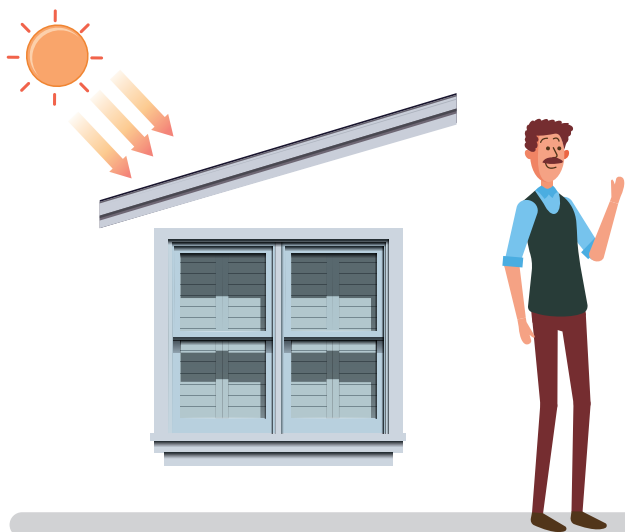


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EXTERIOR SHADING ON WINDOWS

At least 2 feet overhang above window

Why is it important?



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The shades on my windows block direct sun in summers but allow it in winters which keeps my home comfortable.

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My electricity bill for cooling the house is now 10% lower because of the shades.

You can do this too



1. Horizontal (overhang) for windows in all directions except North.



2. Shading can be achieved by extending the roof or projecting the balcony.

Vertical (fins) or Jalis on the East and West windows.



See related information
<https://www.ifcmanual.com/>

ENERGY EFFICIENT CEILING FANS

4-star labeled, 40-watt power

Why are they better than normal fans?



It helped me save 10% on my electricity bills.

You can do this too



1. Purchase at least 4-star BEE (Bureau of Energy Efficiency) labeled fans with a maximum of 40-watt power. Higher the star, lower the electricity bills.

2. Installation of such fans is just like usual fans.

Requires less maintenance and has longer life due to improved motors and blade designs.



See related information
<https://www.ifcmanual.com/>

DUAL FLUSH TANK IN TOILET

Why are they better than normal toilet flushes?



I can flush my toilet with less water now.



I am saving about 5% on my water bills.



I don't need a big water tank now.
A smaller one is sufficient.

You can do this too



1. Buy a dual flush tank with 5L and 3L capacity. These are available in local stores and online as well.

2. For Indian toilets, dual flush tanks can be

purchased separately and connected to the seat.

3. For western toilets, the dual flush tank is typically integrated with the seat.

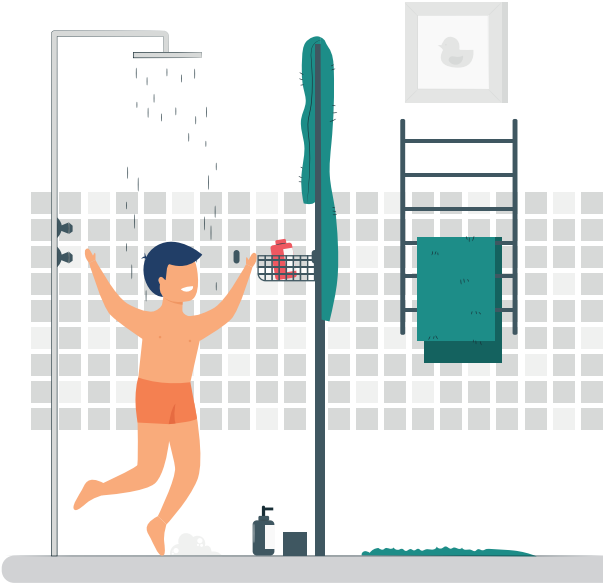
Press the smaller button for liquid waste and the bigger button for solid waste.
Requires general cleaning every 3–4 months.



See related information
<https://www.ifcmanual.com/>

LOW FLOW SHOWER HEAD

Why are they better than normal shower heads?



It doesn't feel different from my old shower but it uses much less water.



I am saving more than 15% on my water & electricity bills.



I don't need a big water tank now. A smaller one is sufficient.

You can do this too



1. Purchase a shower head having a water flow rate less than 6 liters per minute (LPM). These are available in local stores and online.

2. These shower heads are installed in the same way as regular shower heads.

Requires cleaning every month to ensure no accumulation of water impurities as impurities affect the water flow.



See related information
<https://www.ifcmanual.com/>

REFLECTIVE PAINT ON ROOF

Why is it important?



Now, I can walk bare feet on my terrace in peak summer



It keeps my house cooler, reducing the need for fans & AC.



It didn't cost me much and reduced my electricity bill by 2%.

You can do this too



1. Choose a reflective roof paint (commonly popular as high SRI paints, cool roof paints, cool coats, etc.) with an SRI of 85 or more. Available at local stores and online.

2. Get a painter to do the coating or do it on your own using a brush or roller. 1-litre paint covers a double coat of approx. 30 ft² surface area.

Regularly remove dust from the roof. For optimum performance, repaint the roof every year.



See related information
<https://www.ifcmanual.com/>

SOLAR PHOTOVOLTAIC

Why is it desired?



A cost-effective way to get free electricity for my home.



Reduced electricity bills.



I can use it in all climates, even with minimal sunlight.

You can do this too



1. Contact the local supplier or an expert to determine the size and capacity of the solar photovoltaic for your location and electricity needs. Some leading solar panel manufacturers are:

2. Roof without any shade throughout the year is recommended for installation. The collectors should face South direction for maximum sunlight.

Two types of solar panels are predominantly used; Monocrystalline (most efficient) and Polycrystalline (economical). Ensure that the collector plates and tubes are always clean. No shading from surrounding buildings and trees. Keep checking piping & wiring for leakage/breakage. Some government agencies also provide incentives for installation.



See related information
<https://www.ifcmanual.com/>

RAINWATER HARVESTING

Why is it desired?



Now, I have enough water to use in case of shortage in water supply.



It reduces my everyday water supply demand.



My water bills are much lower than before.

You can do this too



1. Contact your local technician to build an adequate-sized storage tank (based on estimated rainfall, collection area, and water requirement) on site.

2. Dual piping systems are required to separate rainwater from the main pipeline and distribute collected water after filtration.

3. At least half the roof area is recommended to be used for rainwater collection.

Requires regular maintenance to ensure clean water remains uncontaminated.



See related information
<https://www.ifcmanual.com/>

NO RED BRICKS ON WALLS

Why should you not use red bricks?



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The red bricks are costly and have negative impacts on the environment.

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During construction, I saved a significant amount of water by not using red bricks which reduced my water cost.

The table below explains the wall construction cost with different bricks/blocks.



Material Name	Per piece cost	Wall Construction Cost/ft3
Solid Concrete Block	₹ 48	₹ 47
Hollow Concrete Block	₹ 50	₹ 49
Compressed Earth Block	₹ 3	₹ 65
AAC Block	₹ 52	₹ 71
Fly Ash	₹ 6	₹ 114
Red Bricks	₹ 8	₹ 153



See related information
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The plaster cost is additional 25 rupees/sq.ft. approximately for construction using any of the above materials.