



'डे जॉय' का कगार पर हैं ये 21 शहर

I SAVE WATER

An IPA Social Mission on Save Water

TO SAVE 130 CRORE LITRES OF WATER IN 2019 (@ 1 LITRE/PERSON/YEAR)

"By providing Water Pressure Compensating Aerators and Pressure Compensating Washers free of cost"

जो भी बचा पिया करे उसका नाम 'डे-जॉय' पानी को बचाव।



Creating Water Security by Improving the consistency of the water sources



Gauranga Das
Director, Govardhan Ecovillage
ISKCON

'DAY ZERO' THREAT LOOMS
These metropolitan
Cape Town (South Africa)
Sao Paulo (Brazil)
Istanbul (Turkey)
Buenos Aires (Argentina)
Nairobi (Kenya)

पूरी दुनिया में मौजूद पीने लायक पानी का सिर्फ 4% ही भारत में मौजूद है



हम पानी बना नहीं सकते सिर्फ बचा सकते हैं...

इसलिए हमारे पास एक ही रास्ता है पानी चाहिए तो उसे बचाइए घर में हम इन 9 तरीके से पानी बचा सकते हैं

- 1. शौचालय के बर्तन में पानी भरकर रखें।
- 2. शौचालय के बर्तन में पानी भरकर रखें।
- 3. शौचालय के बर्तन में पानी भरकर रखें।
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- 6. शौचालय के बर्तन में पानी भरकर रखें।
- 7. शौचालय के बर्तन में पानी भरकर रखें।
- 8. शौचालय के बर्तन में पानी भरकर रखें।
- 9. शौचालय के बर्तन में पानी भरकर रखें।



Water is Precious
SAVE IT
by
HARVEST RAINWATER

WORLD WATER DAY
MARCH 22nd



INDIAN PLUMBING ASSOCIATION

www.indianplumbing.org

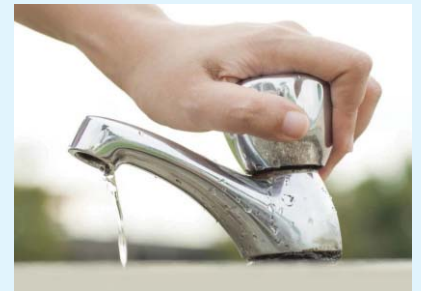


OUR RESOLUTION

REDUCE. REUSE. RECLAIM.

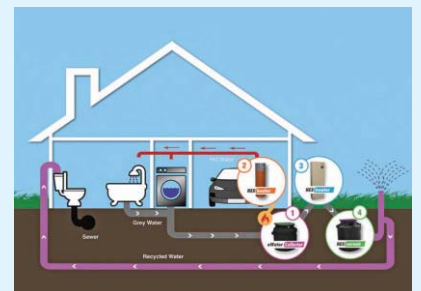
REDUCE WASTAGE

Every citizen should reduce use of water by adopting technologically advanced control devices in our homes, offices and work-places. And also reduce leakages and wasteful practices. With our people clamouring for better quality of life, the importance of pure water for drinking and sanitation can never be over-emphasized. But its supply is endangered by errant monsoons, shrinking flow of rivers and over exploitation of ground water. Supply and Distribution systems in cities are already under severe pressure.



REUSE GREY WATER

Enormous quantities of water is being and will be used for sanitation purposes as entire India is becoming Open Defecation Free. The grey water generated which generally finds its way to pollute our rivers can be put to good use by treating through modern STPs and WTPs. The treated Grey Water should be used for Gardening, Flushing and washing pathways, which should not be directly in touch with human body.



RECLAIM BY RAINWATER HARVESTING

In monsoon precious & pure water flows away in sheer waste. Massive deforestation and reduced absorption of excess rain water massive concretization of our cities lead to reduced recharge of wells and water bodies. These periodic floods not only do massive damage to irrigation canals, river basins but also erode banks and valuable top soil of fertile deltas and lands, leading to less and less agricultural production. If rain water harvesting is adopted by every home, the cycles of floods and draughts can be halted and then effectively reversed. Farmers then can enjoy stable incomes and security. The Rainwater Harvesting is mandatory in the states of Tamil Nadu and Kerala.



CONSERVE AND SAVE WATER

**Jal Hai to Kal Hai,
Jal Nahin to Kal Nahin !**



Take a short 2 minutes shower.
A showerhead uses as much as
16 litres per minute



Install Pressure Compensating
Aerator in all faucets
for regulated Water flow



Don't use a hosepipe
to wash your car,
use a bucket to save water.



Install Pressure compensating
washer in shower
heads for regulated flow



Use plants that
require less water.



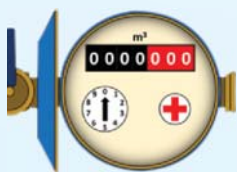
Water your garden with a
watering can early morning
rather than a hosepipe.



Water your lawn or garden
early in the morning or late
in evening-before
10 am or after 4 pm



Use dishwasher
and washing machine
only for full loads



Use your water meter
to check for hidden water leaks
and keep'n eye on your usage.



Install new Double
Flush Cisterns that
use less water per flush



Flush your Toilet only
when necessary



Turn off sink faucet
while scrubbing
dishes and pots.



Use a broom, not a
hose, to clean
driveways and walkways.

FIX LEAKAGE **SAVE MONEY**



One drop Per Second

1 day loss 4.3 Litres
1 Month loss 130 Litres

Two drops Per Second

1 day loss 14 Litres
1 Month loss 380 Litres

Braking Stream Per Second

1 day loss 91 Litres
1 Month loss 2650 Litres

1.6 mm Stream

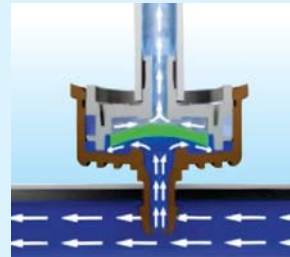
1 day loss 320 Litres
1 Month loss 9460 Litres

2 mm Stream

1 day loss 980 Litres
1 Month loss 29520 Litres

IPA propagates the installation of PCA (Pressure Compensating Aerator) and PCW (Pressure Compensating Washer) a most scientific and a sound engineering solution to save water. This would mitigate future challenges caused by water scarcity with our growing population.

PCA
Pressure
Compensating
Aerator



PCW
Pressure
Compensating
Washer

Sample calculation of water saving using PCA/PCW for a flat with 2 faucets and a shower in a 40 M high apartment building is given below.

	Wash Basin Pillar Tap	Kitchen Sink Tap	Overhead / Hand Shower	Pbhp = $\frac{HQ}{4570 \times \text{pump efficiency}}$ Q is the water flow rate in lpm & H is the Head in m
Normal Flow	8-10 lpm	8-10 lpm	10-12 lpm	Pbhp = $\frac{HQ}{4570 \times \text{pump efficiency}}$
We get PCA's/PCW's from	2.5 lpm		6 lpm	Pbhp = $\frac{HQ}{4570 \times \text{pump efficiency}}$
Recommended PCA/PCW with Min. flow rate	2.5 lpm	3.8 lpm	6 litres/min	Pbhp = $\frac{867 \times 40}{4570 \times 0.5}$
Normal Saving of	6 lpm	5 lpm	5 lpm	Pbhp = 30 HP/year
Wash basin/Sink/Shower is used for	2 min/day	20-30 min/day	3-5 min/day	PkW = 22.5 kW/year
Thus we can save per WB/Sink/Shower	12 lpd	125 lpd	20 lpd	Cost of Energy Saved @ Rs 15/kW per year = Rs 340/flat
Thus yearly saving per WB/Sink/Shower	4380 litres	45625 litres	7300 litres	Energy Saved for 133 crore litres of water saved = 2,89,495 kW / year
Total yearly water saving	57305 litres			Cost of Energy Saved for 133 crore litres of water saved = Rs 43,42,500 / year
Total yearly water saving for a family of 5 persons	104025 litres			



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