

# Chapter 10

## Water Efficient Product India (WEPI)



**Indian Plumbing Association**

# Water Efficient Products - India

- This is joint publication of IPA & IPAMO - India. The source document for the same is 2017 Uniform Illustrated Plumbing Code-India & 2018WE Stand - India ( 2018 Water Efficiency and Sanitation Standard –India).
- The main intention of code is to provide creditable information on water –efficient products and practises.
- Spread awareness and importance of water efficient product and recommand them in projects.

In this code water efficiency of following fixtures are defined as 1 star, 2 star and 3 star in the increasing order of water saving efficiency.

- 1) EWC & IWC along with flush tank or flush valve
- 2) Urinal with manual and sensor based flushing arrangement
- 3) Shower heads
- 4) Lavatory Faucets
- 5) Sink Faucets & handheld spray
- 6) Handheld ablution faucet
- 7) Dishwasher
- 8) Clothes washer



There are some area were further study is required to define the water efficiency and evaluate any adverse side effect of using same for e.g. water less urinals.

Also some units like emergency shower, bed pan sink are exempted from the rating as they are must required for emergency/ medical hygiene point of view.

Other fixtures, fittings & appliances as water cooler, water heater, receptor, floor traps do not have any relevance to flow rates so they are exempted.

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The optimum performance of EWC & urinal is possible provided we use same company or compatible sanitary ware with the CP fitting.

The flow rates are measured in the pressure range of min 0.5 bar to max 4 bar. Units like flush valve will need min 1 bar pressure.

Sr.No.	Item Description	1-Star	2-Star	3-Star	Remarks
A	EWC, IWC, Combined water closet	6/3 lits per flush	less than 4.8 lits per full flush	less than 4.0 lits per full flush	This can be with flush tank, flush valve
B	Urinals with manual or electronically operated	less than 3.8 lits/ flush	less than 2 lits/ flush	less than 1 lits/ flush	Manually operated flushometer shall be factory calibrated or metered
C	Shower head / hand held showers	less than 9.5 lpm	less than 7.5 lpm	less than 5.7 lpm	in case of multijet shower cumutaive flow of simulatinously working heads to be considered for rating
D-I	Lavatory Faucets- Private use	less than 8 lpm	less than 5.7 lpm	less than 4.5 lpm	all flow rates are for nonmetered faucets
D-II	Lavatory Faucets- Public use- metered	mech control less than 1 lits per cycle	electronic control less than 1 lits per cycle	electronic control less than 0.5 lits per cycle	all flow rates are for metered faucets
D-III	Lavatory Faucets- Public use- Non-metered	less than 6 lpm	less than 4 lpm	less than 2 lpm	all flow rates are for nonmetered faucets
E	Sink Faucets & Handheld spray	less than 8 lpm	less than 5.7 lpm	less than 4.5 lpm	

Sr.No.	Item Description	1-Star	2-Star	3-Star	Remarks
F	Handheld Ablution spray	less than 5.7 lpm	less than 5 lpm	less than 4 lpm	
G	Dishwasher -Water factor residential use	DW using not more than 36 lits of water per full load of wash and rinse cycle	DW using not more than 30 lits of water per full load of wash and rinse cycle	DW using not more than 24 lits of water per full load of wash and rinse cycle	
H	Clothes Washer- water factor for residential and commercial use	Cloth washer with water consumption less than 1000 lits per m3 of drum volume, Water factor 7.5	Cloth washer with water consumption less than 800 lits per m3 of drum volume, Water factor 6	Cloth washer with water consumption less than 600 lits per m3 of drum volume, Water factor 4.5	



# Thank you

## Any Questions?

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