



# Water Harvesting

#### **Economics**:

- Reduces water bills.
- Reduced water demand water supply utility saves money on treatment and pumping.
- Reduces cost of infrastructure necessary for water supply





## Water Harvesting

### **Environment:**

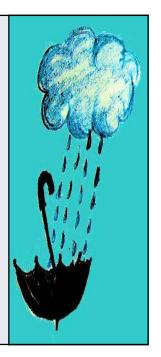
- Energy saved no pumping of water to our homes.
- Water is hard, adding soft rainwater improves water quality.
- Improves groundwater situation.
- Reduces demand for water at



# Water Harvesting

### Other:

- Simple, cost-effective, easy to construct and maintain.
- Viable in urban and rural areas, slums, low income housing, apartments.
- Can offset the need for multipurpose river projects.





- Reduce
- Recharge
- Recycle



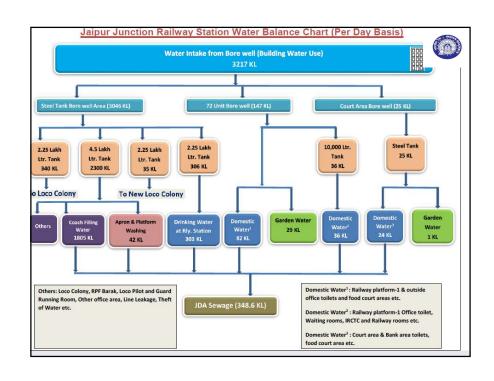
# JAIPUR STATION- एक संक्षिप्त



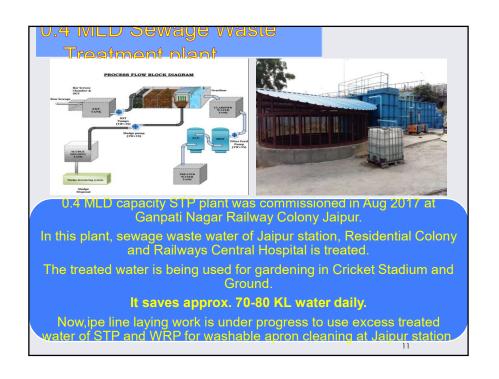
- Jaipur Station is A-1 Cat (N\$G-2) station with IGBC platinum rating.
- PF.1 (538 m + 83 m), PF 2 &3 (644m), 4&5 (588 m), PF-2A (330m). PF No. 6 & 7 (714 M) are under GC.
- Three FOBs connected with 6 escalators & 4 lifts having airport standard ill.
- Passenger footfall: Approx. 1.0 lac/ daily & Max. at any time: An approx -7500
- Originating trains: 24 (M/E-14, Pass.:10), Through trains: 55 (M/E-14, Pass.:10)
- Passenger Earning: Approx Rs. 460 Crs.
- Three main entries to the station and Big circulating area.
- Solar Power-1050 Kw (70%Self sufficient), 500 Kw is under installation.

Water				
	SN	Item Consu	ım	Ptiയില്ലെ Consumption as per water audit
	1.	Passenger		303 KL
	2.	Rly. Staff in offices		142 KL
	3	Coach filling of trains		1805 KL
	4.	Coach Washing		22 KL
	5.	Platform washing		42 KL
	6.	Apron washing		
	7.	Other Requirement		30 KL
	8.	Total		2344 KL
	<u>Water Saving:</u> WRP-150 KL (81.73KL), STP-348 KL (Actual – 100 KL), RWH-16000 KL per annum i.e. 43.83 KL per day, Water efficient fixture= 230 KL			

Water Intake from 10 bore well: 2778KL, Actual Saving=456KL













#### Water Efficient Fixtures



### Water flow aerators on faucet fixtures:

Water flow aerators have been installed on faucet fixtures which save approx. 24 KL water per day. More than 60% taps having aerators installed it.



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#### Water Efficient Fixtures

#### Water closets (Dual-Flush Cistern):

Dual flush (Full flush 6 ltr, half flush 3 litre) has been installed in toilets of platforms, waiting rooms, offices etc. which also save water. More than 50% dual flush have been installed.





## <del>wechanized</del> cleaning





HP jet cleaning machine is used for the platform and washable apron washing, Ride On Scrubber is used for platform scrubbing and walk behind scrubber used for scrubbing of waiting hall floor. Earlier, conventional method of washing by pipe was used which take a huge amount of water.

# Water Metering











Approx. 76 water meter have been installed at all bore wells from where water is supplied, treated waste water supply from STP and major consumption sources i.e. WTE plant, IRCTC FOOD plaza, Jan-Aahar, stalls, coach washing, water filling in coaches, water supply in pay & use toilets, waiting halls, retiring rooms etc. for controlling & monitoring of water use.

#### **FUTURE PLANNING on Water Harvestin**

- DFCCIL WC is passing through JP Division and having max. no of LHSs (low height subway), where having water logging problem, so planning water harvesting with deep bore well at each location.
- Water harvesting planning is under way at all A Cat Station where circulating area is sufficient, DRM office and Central Hospital at JAIPUR.
- JP Division has developed nurseries along the "B" route Railway track and water supply is through nearby bore well and with drip irrigation. Harvesting has been planned to re-charge the bore wells making these self sufficient for water supply.
- All residents are being educated for use waste water for gardening etc.



## **ACHIEMENTS**

OF

**JAIPUR DIVISION** 















