



# Overview Water & Waste Management with Special Reference to NURM Water & Waste Projects in the State-Update & Way Forward

**Ashwani Saxena**  
Executive Director

Rajasthan Urban Infrastructure &  
Finance Development Corporation (RUIFDCO)

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A map of Rajasthan, India, divided into its districts. Each district is labeled with its name and colored differently:

- Ganganagar**: Light Blue
- Hanumangarhi**: Pink
- Bikaner**: Purple
- Jaisalmer**: Yellow
- Jodhpur**: Orange
- Nagaur**: Red
- Churu**: Green
- Bhilwara**: Light Blue
- Sikar**: Green
- Jaipur**: Red
- Alwar**: Yellow
- Bharatpur**: Green
- Dausa**: Yellow
- Dholpur**: Light Blue
- Karauli**: Purple
- Tonks**: Pink
- Sawai Madhopur**: Pink
- Pali**: Green
- Ajmer**: Pink
- Bundi**: Blue
- Kota**: Blue
- Baran**: Blue
- Jalore**: Light Green
- Rajsamand**: Pink
- Bhilwara**: Orange
- Chittaurgarh**: Pink
- Malabar**: Red
- Siroti**: Green
- Udaipur**: Blue
- Pratapgarh**: Orange
- Dungarpur**: Orange
- Banswara**: Green

Area	342,000 sq km Largest State in India
Population	68.62 million (Census 2011)
Urban Population	17.08 million (24.89%) (Census 2011)
State Capital	Jaipur
Districts	33
Cities and ULBs	Census towns-222 ULBs- 184
Population Density	201 persons (Census 2011)
Sewage Treatment Plant (No. of Towns)	Completed- 7 Under Progress- 24 (RUIDP/JnNURM) Planned- 5 (State Fund)

# Jawaharlal Nehru Urban Renewal Mission (JnNURM)

- **State Level Nodal Agency-** RUIFDCO
- **Duration** - 7 Years (Beginning from the year 2005-06)  
Extended up to March, 2014.
- **Mission Objective** – includes
  - Delivery of civic amenities & provision of utilities.
  - Urban Poor will have access to basis level of urban services including water and sanitation.

Amount in Cr.

Ministry	Sub-Mission	No. of Towns	No. of Projects	Cost
MoHUPA	BSUP	2	3	289.21
	IHSDP	58	67	1035.48
MoUD	UIG	2	13	1227.74
	UIDSSMT	35	37	609.93
<b>Total</b>		<b>97</b>	<b>120</b>	<b>3162.36</b>

# Project taken under JnNURM – UIG Jaipur & Ajmer (Water Supply & Sewerage)

Amount in cr.

S. No.	Name of Project	Length (in Km.)	Cost	Remarks
1	Solid Waste Management, Jaipur	-	13.20	Completed
2	Sewerage System, Ph-I, Jaipur	344.12	297.90	In Progress
3	Sewerage System, Ph-II, Jaipur	41		
4	Sewerage System, Ajmer – Pushkar	145		
5	Ajmer – Pushkar Transmission Water Supply	111.96	355.15	Completed
6	Ajmer – Pushkar Drinking Water Supply Transferred & Distribution	502.30		In Progress
<b>Total</b>			<b>666.25</b>	



# View of Delawas STP, Jaipur



# Projects under UIDSSMT

Amount in Cr.

S. No.	Type of Project	No. of Projects	Cost	Expend.
1	Water Supply	3	156.32	108.44
2	Sewerage with STP	12	512.26	256.36
3	Drainage	6	25.93	15.48
Total		21	694.51	380.28

## Water Supply

No. of Towns	Storage		Length of Pipe	
	Sanction	Completed	Sanction	Completed
3	24 No.	19 No.	729.46 K.M.	585.57 K.M.

## Sewerage

No. of Towns	STP			Length of Sewer	
	Sanction	Capacity	Completed	Sanction	Completed
12	14 No.	149.10 MLD	3 No.	1092.32 K.M.	632.04 K.M.

## Drainage

No. of Towns	Length of Drain	
	Sanction	Completed
6	36.5 K.M.	25.39 K.M.



# Projects Sanctioned Under RAY

S.N.	Town	Project Name	Project Cost (in Cr.)				Proposed Dus
			Total	Water Supply	Sewerage	Storm Water Drain	
1	Jaipur	Kiron ki Dhani	57.29	6.45	1.41	1.37	1104
2	Kota	Rental to Ownership Housing Scheme	71.66	4.01	3.54	1.12	1528
3	Jaipur	Sanjay Nagar Bhatta Basti (Phase-1)	96.61	4.97	4.63	1.2	2340
4	Ajmer	Pasand Nagar, Loharu Basti, Idgah Basti	85.11	2.79	4.82	3.42	1448
5	Bharatpur	Namak Katra	9.08	2.17	-	7.07	220
6	Alwar	Dhobi Gatta, Budh Vihar, Behind Partap School	83.46	2.61	3.7	-	1544
7	Bikaner	Bhato & Odho ka Baas	17.28	0.35	0.33	2.38	350
Total			420.49	23.35 (5.5%)*	18.43 (4.4%)*	16.56 (3.9%)*	8534

\* Percentage to the total Project Cost





# Special Features & Innovations

- Rain Water Harvesting
- Proposal for STP
- Reuse of waste water
- Adoption of green building concept through use of fly ash
- Use of solar street lighting
- Provision of bio gas plant

# Environmental Improvement Plan of River Chambal at Kota

It is planned to intercept & divert the discharge of 22 nallahs through 6 no. pumping station to sewerage treatment plant so that water of Chambal River is not contaminated.

**Sanction Cost :** Rs. 14959 Lac

**Components :**

(1) Trunk main Sewer line:

	To be laid	laid
1200 mm	4130m	3127.5m
1000 mm	2711.5m	2147.2m

(2) Intercepting Sewer line:

To be laid	laid
15927.5m	6673.6m

(3) Sewer Treatment Plant (STP): STP 2 nos.(30 MLD at Dushera ground & 6 MLD at Balitha village)

# Projects Sanctioned Under NLCP

## Works Covered:-

1. De-silting
2. Lake Development Work
3. Sewerage Interception & Diversion
4. Water Quality Monitoring
5. IEC activities
6. Afforestation & Aeration etc.

Amount in Cr.

Name of Lake	Sanctioned Amount	Date of Sanctioned	Implementing Agency
Anasagar Lake, Ajmer	15.28	23.11.07	UIT, Ajmer
Pushkar Sarovar, Pushkar	48.37	26.02.08	UIT, Ajmer
Pichola Lake, Udaipur	84.75	4.02.09	UIT, Udaipur & MC, Udaipur
Fateh Sagar, Udaipur	41.86	14.08.08	UIT, Udaipur
Nakki Lake, Mt. Abu	7.33	24.06.10	UIT, Abu



# Seven Sewerage Projects

- Government of Rajasthan sanctioned sewerage projects in 7 towns at a total cost of Rs. 472.4 Cr. which are as under:
  1. Banswara
  2. Fatehpur Shekhawati
  3. Sriganganagar
  4. Nathdwara
  5. Balotra
  6. Deedwana
  7. Makrana

## **Problems in the Project Towns**

- Toilet/ kitchen/ Bathroom waste is being disposed of into surface drains wherever available or disposed of on the streets.
- In the absence of proper drainage system, wastewater is getting collected at several local depressions in the town and creating insanitary conditions and health hazard.





# Objective of the Sewerage Projects

- Proper collection of waste water will improve the sanitary condition of the town
- Improve the health of the people
- It can save ground water from pollution
- Treated water will be used in agriculture and gardening
- Improve overall environment

# Brief of Sewerage Projects (Phase-I)

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Thank You