



**Hon'ble National Green Tribunal  
Principal Bench, New Delhi**

**Presentation on O.A. No. – 606/2018**

**Government of Gujarat**

**21<sup>st</sup> March 2024**

**2743**

## Context

- O.A. No. 606/2018 was original dealt with various issues such as Compliance of Solid Waste Management, Bio-medical Waste Management, Plastic Waste Management, Pollution of River Stretches, Non-attainment cities in terms of air quality, Polluted industrial clusters, and illegal sand mining etc....
- However, as per Hon'ble NGT's order dated 31/05/2022, the said matter was limited to proceeding to two specific issues of Solid Waste Management & Sewage Management.
- Hon'ble NGT also directed “Chief Secretaries continue the monitoring and interact with this Tribunal periodically by video conferencing with the status of compliance in respect of each of the States/UTs on the subject of Solid Waste Management and Sewage Management .” - **NGT OA 606/2018 has been regularly reviewed by Chief Secretary, GoG (11 Meetings) in SLMC as directed by Hon'ble NGT with Principal Secretary and all Commissioner of Municipal Corporation and RCM for the better performance and improvement in the matter.**
- Therefore, we are presenting Status & Measures taken for SWM and Sewage Management in Gujarat

# Status & Measures taken for Liquid Waste Management

- **Sewage Treatment GAP :**
  - 1005 MLD (Gap as on Hon'ble NGT Order dated Feb -2023)
- **Commissioned STPs (2015-24)**
  - 192 STPs of capacity 5,434 MLD
- **Work In Progress STPs**
  - 29 STPs with 608 MLD capacity will be completed by **Dec 2024**
  - 12 STPs with 304 MLD capacity will be completed by **Dec 2025**
- The utilization of STPs is directly linked to sewage network and household connection.
  - To improve collection efficiency Govt provides **Rs. 7000/- per Sewage Connection**
  - **2.38 Lakhs** connections are planned under AMRUT 2.0 & **2.05 Lakhs** connections planned under SJMMSVY to be completed in next two years.

**2745**

# Sewage Generation and Treatment in Gujarat

ULBs	Installed Capacity (MLD)		Wastewater Treated (MLD)		Current Collection Gap (MLD)	
	On NGT Order	As on March 24	On NGT Order	As on March 24	On NGT Order	As on March 24
<b>Municipal Corporations (8 Numbers)</b>	4,010	4,324	3,066	3,262	202	46
<b>Regional Commissioner of Municipalities (RCM) Zones (6 Zones) Total - 157 Nagarpalikas*</b>	744	1,113	343	595	803	504
<b>Total</b>	<b>4,754</b>	<b>5,434</b>	<b>3,409</b>	<b>3,857</b>	<b>1,005</b>	<b>550</b>

\*RCM Ahmedabad-25 Nagarpalika  
RCM Surat-19 Nagarpalika  
RCM Bhavnagar-27 Nagarpalika

RCM Vadodara- 26 Nagarpalika  
RCM Rajkot-31 Nagarpalika  
RCM Gandhinagar-29 Nagarpalika

2746

# Municipal Corporations Gap Reduction Details

#	Municipal Corporations	Population (At present)	Sewerage Generation (MLD)	Current Installed Capacity (MLD)	Capacity Utilized (MLD)	Gap as on NGT Order (MLD)	Gap as of March 2024 (MLD)	Expected date to fulfill the gap	Additional treatment capacity planned (MLD)
1	Ahmedabad	72,72,267	1,280	1,335	1,280	40	0	-	959
2	Surat	75,38,529	1,032	1,726	1,032	72	0	-	210
3	Vadodara	25,59,974	440	530	440	0	0	-	355
4	Rajkot	13,77,656	260	331.5	260	0	0	-	38
5	Bhavnagar	6,43,296	100	144.2	100	25	0	-	45
6	Jamnagar	6,09,613	80	70	70	10	10	Jun-25	50
7	Junagadh	3,83,354	40	34.70	16.50	32	24	Apr-25	30
8	Gandhinagar	5,14,358	75	153	63	23	12	Aug-25	43
	<b>Total</b>	<b>2,08,99,047</b>	<b>3,307</b>	<b>4,324</b>	<b>2747</b> <b>3,262</b>	<b>202</b>	<b>46</b>		<b>1,730</b>

# Municipalities Gap Reduction Details

#	RCM Zones	Present Population	Sewerage Generation (MLD)	Current Installed Capacity (MLD)	Capacity Utilized (MLD)	Gap as on NGT Order (MLD)	Gap as of March 2024 (MLD)	Expected date to fulfil the gap	Additional treatment capacity planned (MLD)	Additional Capacity Addressed by UGD Connection (MLD)
1	Ahmedabad	16,92,491	179	218.36	95.41	87	83.59	Dec-25	76.53	12
2	Bhavnagar	14,86,856	139.4	131.83	81.07	110	58.33	Dec-25	99.21	-
3	Gandhinagar	19,57,140	216	221.19	138.55	135	77.45	Dec-25	103.58	-
4	Rajkot	24,66,927	194.46	217.9	101.3	180	93.16	Oct-25	115.3	-
5	Surat	15,64,226	194.74	113.30	50.05	189	144.79	Oct-25	126	19
6	Vadodara	13,35,956	175	210.67	128.19	101	46.81	Dec-25	54.42	-
	<b>Total</b>	<b>1,05,03,596</b>	<b>1,099</b>	<b>1,113</b>	<b>595</b>	<b>802</b>	<b>504</b>		<b>575</b>	<b>31</b>

**2748**

# Reuse of Treated Wastewater | Municipal Corporations

Municipal Corporations	Existing		Planned		
	Total Sewage Treated (MLD)	Existing Reuse of Treated wastewater (MLD)	Upcoming Projects		Tentative Operational Date
			No. of Projects	Capacity (MLD)	
Ahmedabad	1,280	356	1	160	Jun-2026
Surat	1,032	330	4	565	Dec-2025
Vadodara	440	65	2	67	Nov-2025
Rajkot	260	257	1	90	Mar-2026
Bhavnagar	100	11	2	6	Nov-2025
Jamnagar	70	5	1	70	Dec-2025
Junagadh	16	0	1	11	Dec-2025
Gandhinagar	63	0	1	65	Mar-2026
<b>Total</b>	<b>3,261</b>	<b>1,024</b>	<b>13</b>	<b>1,034</b>	

**2749**

# Details of Existing Reuse of Treated Wastewater Projects Municipal Corporations

Sr. No	Municipal Corporation	STP Details	Existing Reuse of Treated Wastewater (MLD)	Existing Users
1	Ahmedabad	5 STPs	356	<b>356 MLD</b> - Agri & Tree Plantation
2	Surat	11 STP	330	<b>227 MLD</b> - Industry (Textile Cluster & Other industry) <b>49 MLD</b> - reused in treatment process at STPs <b>28 MLD</b> - Agri - Mass Plantation <b>5 MLD</b> - Ecological Park <b>2 MLD</b> - Rejuvenation of Lakes <b>17 MLD</b> - Gardening, Traffic Circles, Road Dividers through tanker filling stations
3	Vadodara	Vadodara - Rajivnagar	65	<b>60 MLD</b> - Industries <b>5 MLD</b> - Agriculture & Garden
4	Rajkot	7 STPs	257	<b>257 MLD</b> - Agriculture
5	Bhavanagar	Bhavnagar - Excel Industries	11	<b>10 MLD</b> - Powerplant (GSECL) <b>1 MLD</b> - Industries
6	Jamnagar	Jamnagar - Navagam Ghed	5 <b>2750</b>	<b>1 MLD</b> - Waste to Energy Plant <b>4 MLD</b> - Construction sites & Agriculture

# Reuse of Treated Wastewater | Municipalities

RCM Zones	Existing		Planned		
	Total Sewage Treated (MLD)	Existing Reuse of Treated wastewater(MLD)	Upcoming Projects		Tentative Operational Date
			No. of Projects	Capacity (MLD)	
<b>Ahmedabad</b>	95.41	20.33	10	55.68	Dec-2024
<b>Bhavnagar</b>	81.07	0	10	23.2	Jun-2025
<b>Gandhinagar</b>	138.55	19.5	11	67.55	Oct-24
<b>Rajkot</b>	101.3	25.5	13	57.6	Aug-24
<b>Surat</b>	50.05	0	4	36	May-24
<b>Vadodara</b>	128.19	3.80	12	42.55	Dec-25
<b>Total</b>	<b>594.57</b>	<b>69.13</b>	<b>60</b>	<b>282.58</b>	

**2751**

# Details of Existing Reuse of Treated Wastewater Projects Municipalities

Sr. No	Zone	STP Details	Existing Reuse of Treated Wastewater (MLD)	Existing Users
1	RCM Ahmedabad	13 NPs	20.33	<b>4.75 MLD</b> - Botad - Agri <b>1.67 MLD</b> - Nadiad - Industry <b>2.5 MLD</b> - Surendranagar <b>0.5 MLD</b> - Dholka <b>0.9 MLD</b> - Dhangadhra - Industry <b>0.65 MLD</b> - Viramgam - Industry <b>1.51 MLD</b> - Dhandhukar - Agri <b>2 MLD</b> - Kapadwanj - Agri <b>1.2 MLD</b> - Kheda - Agri <b>1.5 MLD</b> - Mahedabad - Agri <b>1 MLD</b> - Bareja - Agri + Industry <b>1.5 MLD</b> - Kanjari - Agri <b>0.65 MLD</b> - Thangadh
2	RCM Vadodara	1 NP	3.8	<b>3.8 MLD</b> - Balasinor - Thermal Power Plant
3	RCM Rajkot	1 NP	25.5	<b>25.5 MLD</b> - Gandhidham Anjar - Industry
4	RCM Gandhinagar	3 NPs	19.5	<b>10 MLD</b> - Patan - Agriculture <b>7 MLD</b> - Visnagar - Agriculture <b>2.5 MLD</b> - Thara - Lake development

**2752**

## Funds for Liquid Waste Management

Year	Funded Amount (Rs. crores)	Sources of funds
2017-22	9,703	<ul style="list-style-type: none"><li>● Govt. of India</li><li>● Govt. of Gujarat</li><li>● ULB own fund</li></ul>
2022-23	1,980	
2023-24	1,807	
2024-2027	6,622	Sanctioned under AMRUT 2.0 <ul style="list-style-type: none"><li>● Rs. 3622 crore from GoI &amp; GoG</li><li>● Rs. 3000 crore from ULB own funds</li></ul>

**2753**

## Sewage Management Projects to be Funded by the Hon'ble NGT Ring-Fenced Account (Rs. in Cr.)

Sr. No.	Details of Amount deposited in Ring Fenced Fund	RCM/MC	Gap as per NGT (MLD)	Funds in Ring Fenced A/C (@ 2cr. per MLD)	Fund allotted	Planned Fund Allotment
1	To be refunded by GUDC under the SJMMSVY scheme	RCM	802	500	350	150
2	To be refunded by GWSSB under the SJMMSVY scheme			600	600	0
3	Amount deposited in Ring Fenced Fund (by GMFB) for the outstanding amount due under the Swarnim Jayanti Yojna in current Financial Year			500	0	500
4	Amount deposited in Ring Fenced Fund (savings of GUDM under the SJMMSVY scheme) To be Utilised by MCs	AMC	40	404	80	0
		BMC	25		50	0
		GMC	23		46	0
		JMC	10		20	0
		JuMC	32		64	0
		SMC	0		0	0
		VMC	72		144	0
5	Amount deposited by Swacch Bharat Mission			90	0	90
	Balance amount for MCs			6	0	6
Total amount deposited in GUDM ring fenced account				2100	1354	746

2754

# **Success Stories for Wastewater Treatment**

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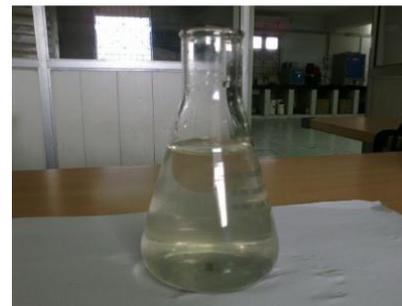
# Gujarat Policy for Reuse of Treated Wastewater

- Gujarat has policy for reuse of Treated Wastewater during 2018 with vision of at-least 20% of waste water to be recycled” in all towns and cities of Gujarat state”.
- Presently in the Gujarat, reuse of about **800 MLD treated water** has already started
  - Surat is supplying about 319 MLD Treated wastewater up to potable water quality to Industries
  - Ahmedabad is using total of 356 MLD of recycled wastewater for Agricultural & Industrial supply
  - Bhavnagar is supplying 45 MLD of tertiary treated GSECL, private company
  - Gandhinagar is using 10 MLD of recycled wastewater for gardening & fire-brigade purpose
- Project of Supplying of treated waste water of 40 MLD to IOC and 20 MLD to Reliance Industries at an advance stage of completion and will start supply with 2-3 months
  - Rajkot has an agreement with farmer co-operative society with total of 50 MLD for irrigation purpose.
- Through these type of models, Gujarat will use more treated water instead of raw water for various purposes.

**2756**



TTP Inlet



TTP Outlet



# Surat Municipal Corporation

□ Surat Municipal Corporation is currently utilizing more than 30 % reuse of TWW at present

1. Treated Wastewater Reused : 330.00 MLD
2. Textile Clusters – 115 MLD
3. Rejuvenation of Lakes – 2 MLD
4. Bio-diversity park – 0.5 MLD
5. Dream City Project – 0.5 MLD
6. Land Fill Closer – Ecological Park – 5 MLD
7. Waste to Compose Facility – 1 MLD
8. Agriculture – Mass Plantation – 28 MLD
9. Industrial Use – 112 MLD
10. Reuse in Treatment Process at STPs – 49 MLD
11. Gardening, Traffic Circles, Road dividers etc through Tanker Filling Station – 17 MLD
12. Next up Coming - Construction Purpose, Metro Rail Project, Bio-diversity park, Watering of Trench Lines, Rejuvenation of Lakes – 20 MLD



**2757**

# Surat Municipal Corporation - Financial Model

- ❑ **Total Operation Maintenance Cost** Towards maintaining complete sewerage system, @ **Rs.200.00 Cr (Including O & M and Electricity Cost)**
- ❑ **Total Tertiary Treatment Plant Capacity : 115 MLD (40+35+40)** plus 10% additional capacity on demand.
- ❑ **Capital Project Cost : Rs. 314.39 Cr**
- ❑ **Operation & Maintenance Cost : Rs. 300 crore (For 10 Years)**
- ❑ **Total Recycle water Supplied to Industries till September 2023 : 1,61,817 ML**
- ❑ **Started with Rs. 18.20 per KL in year 2014**, rate increased yearly based on actual increase in O & M cost & **RBI indexation**, present rate of Tertiary Treated Wastewater is @ **Rs.36.22 per KL**
- ❑ **Annual Revenue Generation (2022-23) : Rs. 120 Cr.**
- ❑ **Expected Revenue Generation (2023-24) : @ Rs. 140 Cr. plus**

**2758**

# Surat Municipal Corporation - Way Forward for Reuse

- More than 30 % of TWW is being reused at present.
- Target is to increase reuse of TWW from 30% to 70% by 2030 and 100% by 2035.

<b>Sr. No.</b>	<b>Name of STP/TTP</b>	<b>Quantity of TWW to be Reused (MLD)</b>	<b>Industries &amp; Type of Use</b>
<b>A</b>	<b>Projects under planning</b>		
1	Bhesan - Asarma - Variav Kosad STP	340	Hazira based industries (Industrial use)
2	Varachha - Valak - Kamrej STP	140	Industries in Kadodara - Palsana (Industrial use)
3	TTP at Various lake Gardens	10	Lake Rejuvenation & Gardening
	<b>Total :</b>	<b>490 MLD</b>	
<b>B</b>	<b>Present sewage quantity being recycled</b>	<b>330 MLD</b>	Industrial, Land fill Site, Tanker Filling Station, Gardening etc.
	<b>Grand Total (A + B) :</b>	<b>820 MLD</b>	

**2759**

# Reuse of Treated Wastewater Vadodara Rajiv nagar

- 78 MLD STP at Rajivnagar to users IOCL and RIL
- Initial Demand of TWW of IOCL is 20 MLD and will increase up to 40 MLD and RIL is 20 MLD.

The broad components of this project are:

- ☒ Softening treatment at STP site
  - ☒ Treated Water Sump and Pump house with chlorination system
  - ☒ PLC /SCADA with Quality analyser & Flow measurement system
- Rising main, dia. of 900 mm from Rajivnagar STP to IOCL junction @ 16.5 Km length.
  - Rising main, dia. of 800 mm from IOCL junction to IOCL @ 85 meters length.
  - Rising main, dia. of 600 mm from IOCL junction to RIL and Distance from IOCL junction to RIL is 3.5 km.
  - 15 years of Operation and Maintenance
    - Total Expenditure incurred Rs.81.00 Cr.
    - Reuse Plant & Pipeline work completed & TWW supply started to IOCL from Dt:-01/10/2023.
    - Total Revenue Generation from this project to VMC considering Rs.10.44 per KL for year 2023-24 TWW cost for 25 % model at STP outlet.

**2760**



Reuse Plant



Rising main



Softner

# Reuse of treated Wastewater at Municipalities level

## Anjar and Gandhidham, Kutch through PPP



*Welspun STP – 40 MLD located in Anjar , Kutch*

- Welspun has commissioned a **40 MLD STP** latest wastewater treatment technology with a **Cost of Rs. ~250 Crores**
  - STP – Rs ~150 Crore
  - 7 Pumping Stations & Pipelines – Rs ~100 Crore
- Reuse of urban sewage water, **generated by Anjar & Gandhidham ULB**, as a high-quality clean water for industrial use
- **The freshwater from the Narmada River is now utilized for agricultural purposes**
- **Revenue of INR 24 lakhs pa generated for Gandhidham ULB and of Rs 6.5 lakhs for Anjar ULB**

**2762**

# New Initiative- Solar projects at STP & WTP

## Godhra -STP



## Vapi-WTP Chala Water Works



2763

# **Solid Waste Management**

**2764**

# Progress Report of Solid Waste Management

<b>Details</b>	<b>All Municipal Corporations</b>	<b>All Municipalities</b>	
<b>Legacy Waste Remediation</b>			
<b>Pending Remediation (@NGT Hearing) (lakh MT)</b>	<b>113.79</b>	<b>59.15</b>	<b>54.64</b>
<b>As on date (20.03.2024) Pending Remediation (lakh MT)</b>	<b>13.92</b>	<b>0</b>	<b>13.92</b>

# Legacy Waste Remediation: Municipal Corporation

No.	Municipal Corporation	Pending Legacy waste @ Dumpsite (Lakh MT) (23.02.23)	Pending Legacy waste @ Dumpsite (Lakh MT) (20.03.24)	Timeline
1	Surat	0	0	Completed
2	Jamnagar	0	0	
3	Gandhinagar	0	0	
4	Vadodara	1	0	
5	Rajkot	5.5	0	
6	Junagadh	2.79	0	
7	Bhavnagar	0.86	0	
8	Ahmedabad	49	0	
Total		59.15	0	

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# Inert and RDF disposal

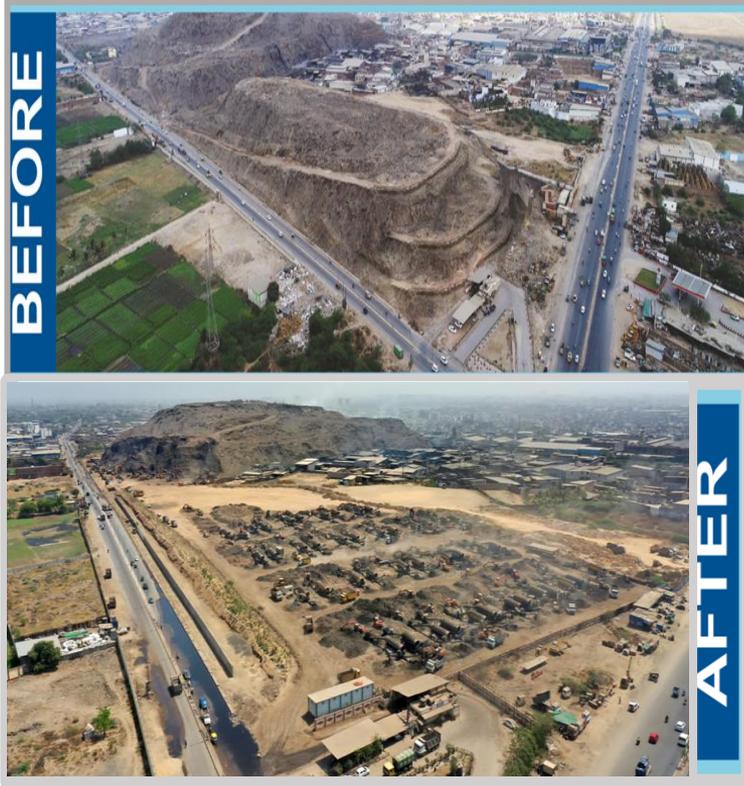
No	Municipal Corporation	Inert / Soil	RDF material (Plastics/Cloths)
1	Ahmedabad	<ul style="list-style-type: none"> <li>▪ Inert Filling in low lying areas, road filling</li> <li>▪ Use in various development project</li> <li>▪ Inert used 86.46 Lakh MT (Such: Dholera exp., river front work Project)</li> </ul>	<ul style="list-style-type: none"> <li>▪ AMC has roped in GEPIL for processing RDF and selling it to Cement industries and Waste to Energy plant etc.</li> <li>▪ RDF used 36.02 Lakh MT.</li> <li>▪ Agency will give royalty of Rs. 51 Lakh/year for the same.</li> </ul>
2	Rajkot	<ul style="list-style-type: none"> <li>▪ Soil - 3.01 lakh MT Sell to Farmer</li> <li>▪ Inert - 0.12 Lakh MT disposed Scientifically.</li> </ul>	<ul style="list-style-type: none"> <li>▪ RDF - 1.12 Lakh MT being supplied to Cement industries via processor (Abellon Agency, at Waste to Energy plant, Jamnagar.)</li> </ul>
3	Vadodara	<ul style="list-style-type: none"> <li>▪ Inert - 0.74 Lakh MT filling low lying area.</li> <li>▪ Soil - 0.06 Lakh MT used in Afforestation, Parks work.</li> </ul>	<ul style="list-style-type: none"> <li>▪ RDF -0.99 Lakh MT being supplied to Cement industries via processor.</li> </ul>
4	Junagadh	<ul style="list-style-type: none"> <li>▪ Soil - 1.35 Lakh MT used in Parks work</li> <li>▪ Inert - 0.43 Lakh MT filling low lying area.</li> </ul>	<ul style="list-style-type: none"> <li>▪ RDF - 0.11 Lakh MT being supplied to Cement industries via processor (Nepra Resource Management Agency.)</li> </ul>
5	Bhavnagar	<ul style="list-style-type: none"> <li>▪ Inert - 0.85 Lakh MT used in filling low lying area.</li> </ul>	<ul style="list-style-type: none"> <li>▪ RDF - 1.25 Lakh MT being supplied to Cement industries via processor (Gandhinagar Waste Fuels Ltd &amp; Narmade Engimac LLP Agency.)</li> </ul>

# Legacy Waste Remediation: Regional Zones - Municipalities

No.	Zone Name	Total Number of ULBs	Legacy waste @ Dumpsite (Lakh MT)		Number of ULBs which have cleared legacy waste
			At NGT Hearing (23.02.23)	Today (20.03.24)	
1	Gandhinagar	29	12.92	3.53	13
2	Surat	19	4.93	0.66	15
3	Ahmedabad	25	8.72	0.84	21
4	Vadodara	26	6.27	1.81	17
5	Bhavnagar	27	7.62	0.84	25
6	Rajkot	31	14.18	6.24	17
<b>Total</b>		<b>156</b>	<b>54.64</b>	<b>13.92</b>	<b>108</b>

**2768**

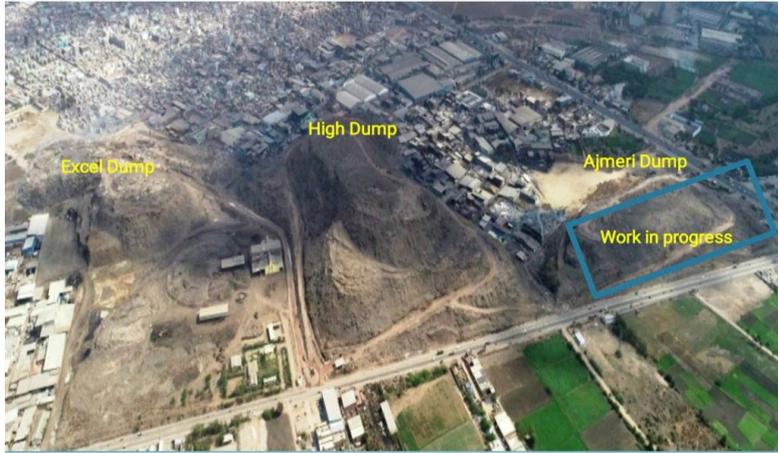
# Ahmedabad Municipal Corporation- Pirana Site



- Total Quantity of **Legacy Waste 125 Lakhs MTs**
- **84 acres land** occupied.
- **125 Lakh MT is remediated.**
- **Plantation** done on Cleared dumpsite land.
- **80 acres land reclaimed (More than Rs. 200 Crores).**
- **86.46 Lakh MT bio-mined waste used** for land filling in various Development Projects like Riverfront Phase-I&II, Gandhi Ashram Re-development, etc.
- **36.02 Lakh MT RDF used** in GEPIL processing plant.

# Photos - Pirana Site

PIRANA DUMPSITE - BEFORE 02 YEARS



Phase 1 Ajmeri Dump Cleared with 45 lakh MT legacy waste



AJMERI SITE



# Legacy Waste Remediation & Transformation to Ecological Park Case study : Bopal Ghuma

**Before**



**After**



- Total Quantity of Legacy Waste 2.85 Lakhs MTs
- Dump site spread over 4.3 acres land
- 4.3 acres land reclaimed (Rs. 4.17 crores).
- Ecological Park developed on Cleared dumpsite land.
- Total Expenditure of Ecological park Rs. 8.00 crores

# Bopal Ghuma Dumpsite - Legacy Waste Remediation

**Before**



**After**



**2772**

# Legacy Waste Remediation – Municipal Corporation

Gandhinagar- Sector 30  
Dumpsite



Quantity of  
Legacy Waste  
(Lakh MT) : 0.85



Legacy Waste  
Remediate (Lakh  
MT) : 0.85

2773

# Legacy Waste Remediation – Municipal Corporation

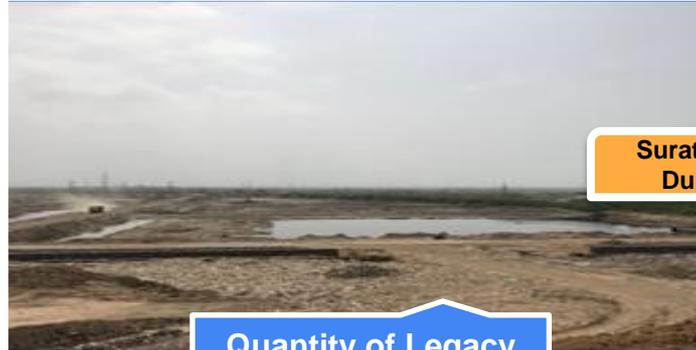


Vadodara-  
Atladra Dumpsite

Quantity of Legacy  
Waste (Lakh MT) :  
10 MT



Legacy Waste  
Remediate (Lakh  
MT) : 10



Surat- Khajod  
Dumpsite

Quantity of Legacy  
Waste (Lakh MT) :  
25.19 MT



Legacy Waste  
Remediate (Lakh MT) :  
25.19

2774

# Legacy Waste Remediation – Municipal Corporation



**Bhavnagar- Nari  
Road Dumpsite**

**Quantity of Legacy Waste  
(Lakh MT) : 5 MT**



**Legacy Waste Remediate  
(Lakh MT) : 5 MT**



**Junagadh- Medrda  
Road Dumpsite**

**Quantity of Legacy Waste (Lakh  
MT) : 4.5 MT**



**Legacy Waste Remediate (Lakh  
MT) : 4.5 MT**

**2775**

# VAPI Nagarpalika

Total Quantity of Legacy Waste 1.70 Lakhs MTs

Till date more than 0.89 Lakh MT is cleared.



# MODASA Nagarpalika-

Total Quantity of Legacy Waste 1.02 Lakhs MTs

Till date more than 0.84 Lakh MT is cleared.



# ANAND Nagarpalika

Total Quantity of Legacy Waste 4.60 Lakhs MTs

Till date more than 4.22 Lakh MT is cleared.



# Status of Solid Waste Management in Gujarat

Details of SW in the State	
Total number of wards	1387
Number of wards having 100% Door to Door Collection	1387 (100%)
Generation of total waste in all cities	10,317 TPD
Processing of waste per day	8872 TPD (86%)
Gap in Waste processing	1445 TPD



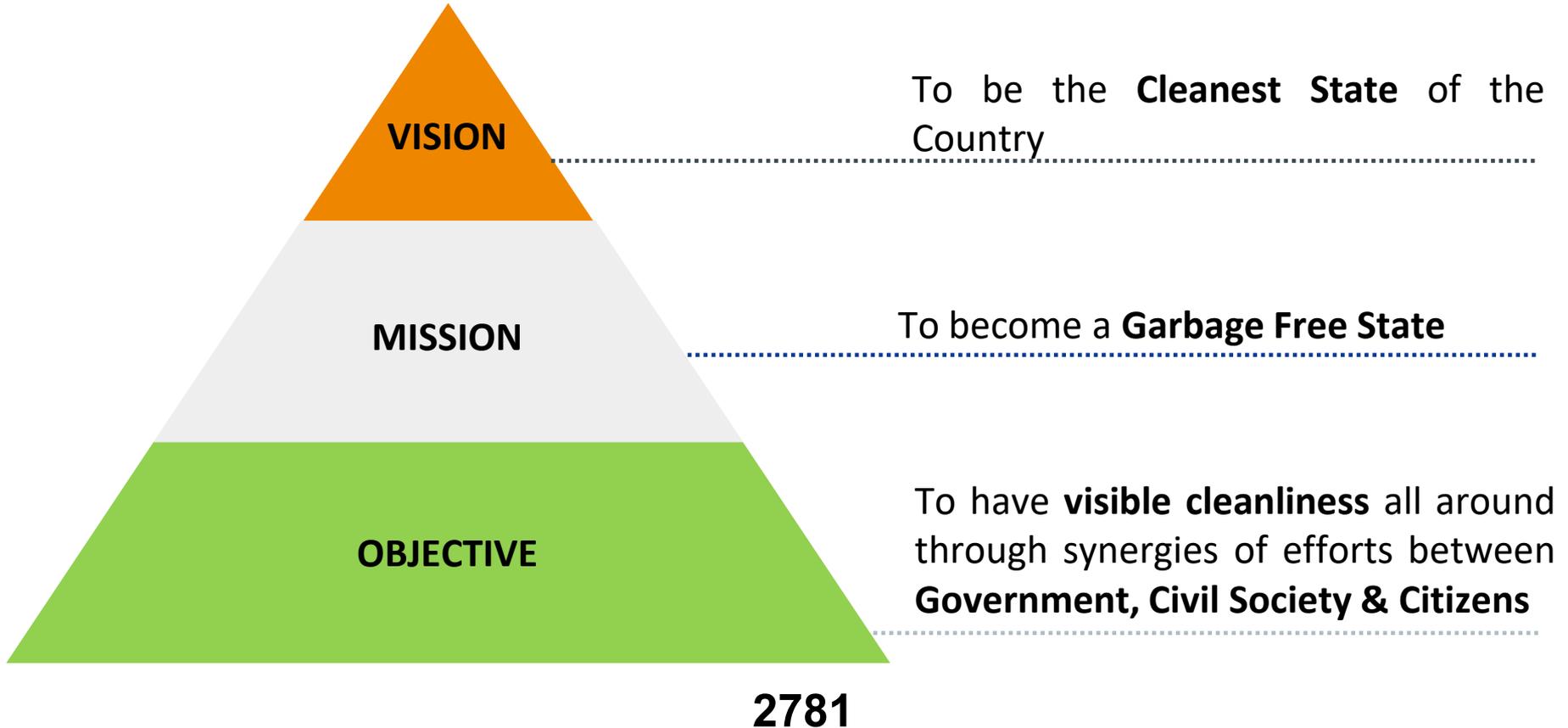
# Nirmal Gujarat 2.0

**Urban Development  
&  
Urban Housing Department**

Government of Gujarat

NIRMAL GUJARAT:

240 Crores



# NIRMAL GUJARAT: 2.0 | Strategy

Implementation  
of  
NIRMAL  
GUJARAT 2.0

1

Citizen Centric Cleanliness Activities

2

Strengthening of Waste Value Chain

3

Infrastructure for Processing: Cluster Approach

4

Financial Support

5

HR Support: Capacity Building

6

Competition and Recognition

7

Safai Mitra Suraksha

8

Community Involvement and BCC

9

2782  
Monitoring

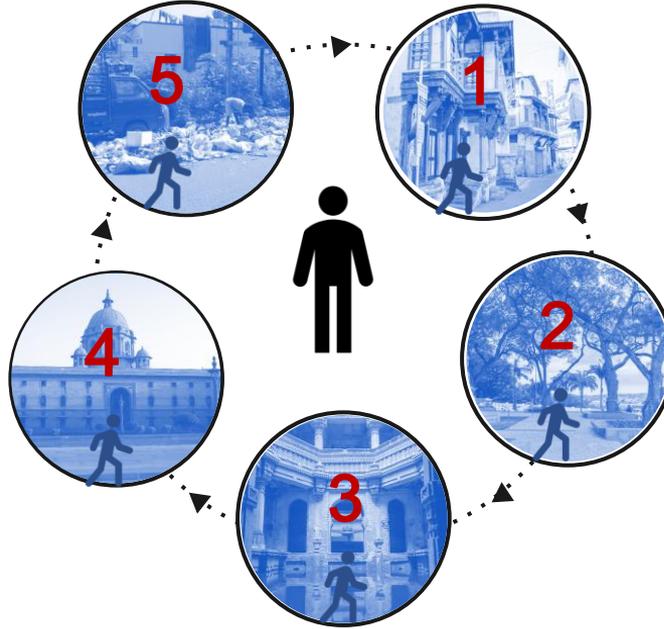
# 1. Citizen Centric Cleanliness Activities: Solid Waste

## 5. Grievance Redressal

- State-wide Swachhta App for Grievance Redressal
- Monthly tracking of grievance resolution in ULB

## 4. Government Offices

- Monthly calendar of cleaning
  - PHC/CHC & Hospitals
  - Schools
  - APMC
  - Offices
- Renovation of structures



## 1. Household

Door-to-door collection

- *Strengthening*
- *Monitoring*

## 2. Public Place/ Market

- Regular cleaning
- Removal of GVPs/ Red spots/ Grey spots
- **Plastic cleaning campaign**

## 3. Tourist Places

- Regular cleaning of tourist sites
- Cleaning of public toilets

Jan Aandolan

2783  
Monthly Calendar

# Visible Cleanliness :

## a) Removal of Garbage Vulnerable Points :

- Total 1600 GVPs to be permanently removed
- Rs 1 lakh per GVP to be given by State

## b) Entry point/ approach road cleaning and beautification :

Sr No.	ULBs	Total assistance (Rs.in Lakh)
1	Corporation – Ahmedabad, Surat, Vadodara and Rajkot	200.00
2	Corporation – Bhavnagar, Junagadh, Jamanagar and Gandhinagar	150.00
3	Class A Cities (22)	100.00
4	Class B City (30)	75.00
5	Class C City (60)	50.00
6	Class D City (45)	50.00
<b>2784</b>		

# Strengthening of D2D collection :

## a) Safai Vera Protsahan : Matching Grant + Incentives

Sr No.	ULBs	% Safai Tax Recovery in ULBs			
		60-70%	71-80%	81-90%	91-100%
1	Class A/ B	-	50	100	200
2	Class C/ D	50	10	200	300
<b>Total Assistance given by state : 6000 Lakh</b>					
<b>2785</b>					

# Strengthening of Processing Capacity:

- **Wet waste processing capacities :**
  - **156 composting plants** under DPR Stage under the SBM 2.0 with a budget allocation of **590.92 Crores**.
- **Dry waste processing capacities :**
  - **151 Material Recovery Facility (MRF) plants** under DPR stage under SBM 2.0, with a budget allocation of **465.55 crores**.
- **Total Rs. 1056.47 Cr sanctioned for Wet & Dry waste Processing Plants.**
- **All plants under DPR stage and likely to be operationalized by October 24.**

# Strengthening of Processing Capacity:

- **C & D plants Processing Capacity :**
- **Rajkot (130 TPD)** and **Bhavnagar (50 TPD)**, are being constructed under SBM 2.0 funds.
- 4 corporations: Ahmedabad(1000 TPD), Surat (1000 TPD), Vadodara (50 TPD) and Junagarh (5 TPD) already have functional C&D plants.
- **Waste-to-Energy (WTE) plant :**
- Currently, the **Jamnagar Waste-to-Energy (WTE) plant**, with a capacity of 450 MT, has been operational since July 2022.
- Additionally, there are five WTE plants in the pipeline, including
- Ahmedabad Municipal Corporation(1000 MT) two plants,
- Rajkot Municipal Corporation (600 MT), and
- Vadodara Municipal Corporation (1000 MT).

# Competition among ULBs:

No	ULBs	Price
1	> More the 10 Lakh Population (Muni. Corp)	5 Cr
2	< 10 Lakh Population (Muni. Corp)	4 Cr
3	Class A City	3 Cr
4	Class B City	2 Cr
5	Class C City	1 Cr
6	Class D City	1 Cr
<b>Total assistance Rs. 16 Cr</b>		

# Safai Mitra of the Month :

ULBs	MC/ NP wise	Duration	Number of wards/ULBs	Safai Mitra assistance	Total assistance (Rs.)
Corporation (8 nos)	Per ward	Monthly	170	Rs. 10,000/-	204 Lakhs
Nagarpalika (157 nos)	Per ULB	Monthly	157 ULBs	Rs. 10,000/-	188.40 Lakhs

# Capacity Building :

**Objective: ULBs of the district must top the Swachh Survekshan 2024 in respective categories (1 year time frame)**

- Monthly review meeting with all COs
- Issues to be discussed:
  - 100% Door to Door (D2D) collection in all wards
  - Segregation at source (SBM-U IEC grant with COs to be used for IEC activity)
  - Cleanliness of public places:
    - One main road / approach road of every ULB to be given complete makeover (funds to be released)
    - Collector's checklist attached with Nirmal Gujarat 2.0 booklet

**Markets**

**Parks and Gardens**

**Roads**

**Bus Stands**

**Tourist places**

**Railway Stations**

**Prant Officers to be given responsibility of respective HQ ULBs**

2790



सत्यमेव जयते

शહેરી વિકાસ અને  
શહેરી ગૃહ નિર્માણ વિભાગ  
ગુજરાત સરકાર

Thank You.....



2791

Swachh Bharat... Swachh Gujarat...

Green Bharat... Green Gujarat....

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**Thank You**

**2792**

# Addressing the Issue of Fecal Coliform

- To prevent untreated sewage ingress in the water bodies, in outgrowth where the underground drainage connections are not available, necessary interceptor lines will be provided. If required, collection sumps near water bodies will be provided to collect the untreated sewage, and same will be diverted to the nearest manhole of STP/s.
- Necessary chlorination or Ozonation treatment will be carried out for control of Fecal Coliform (FC) value in the treated sewage to maximize the utilization of treated sewage in irrigation and industries.
- Under the Gujarat Resilience City Development Programme, the Ahmedabad Municipal Corporation has planned to upgrade & augment the exiting Sewage Treatment Plants, to construct new Sewage Treatment Plants and provision of drainage connections in order to improve the quality of treated sewage entering into river Sabarmati.

**2793**

## Addressing the Sewerage of Low Population Area

- Septic tanks and soak pits in the rural areas are being monitored for disposal of fecal matter. Government is concerned about controlling the disposal of wastewater generated from rural houses in the natural stream or water sources
- Houses in Gram Panchayats have been connected to Soak pits and Septic tanks in the State. The sewerage generated from these houses gets deposited in the installed soak pits and septic tanks.
- For addressing the areas with low population, state has identified 64 such urban locations, where “Nalla Treatment Units” will be installed. Wastewater from these areas will be addressed in following manner



# Details of UGD Household Connections | Municipal Corporations

Municipal Corporations	Number of HHs	Number of HHs connected to UGD	HH Connections Planned
Ahmedabad	17,95,108	17,80,280	14,828
Bhavnagar	2,12,060	2,02,199	9,861
Gandhinagar	1,28,500	1,00,033	28,467
Jamnagar	2,00,018	1,75,516	24,502
Junagadh	94,655	38,695	55,960
Rajkot	5,90,871	3,62,524	36,523
Surat	17,05,471	12,71,318	4,34,153
Vadodara	6,02,623	5,12,230	90,393
<b>Total</b>	<b>53,29,306</b>	<b>2795</b> <b>44,42,795</b>	<b>6,94,687</b>

## Details of UGD Household Connections | Municipalities

<b>RCM Zones</b>	<b>Number of HHs</b>	<b>Number of HHs connected to UGD</b>	<b>HH Connections Planned</b>
<b>Ahmedabad</b>	4,59,615	3,62,233	97,382
<b>Bhavnagar</b>	4,31,972	1,77,528	2,54,444
<b>Gandhinagar</b>	5,11,343	3,20,915	1,90,428
<b>Rajkot</b>	5,42,002	3,43,406	1,98,596
<b>Surat</b>	4,75,315	3,60,191	1,15,124
<b>Vadodara</b>	4,32,949	2,68,047	1,64,902
<b>Total</b>	<b>28,53,196</b>	<b>18,32,320</b>	<b>10,20,876</b>

**2796**