



दिल्ली नगर निगम

MUNICIPAL CORPORATION OF DELHI

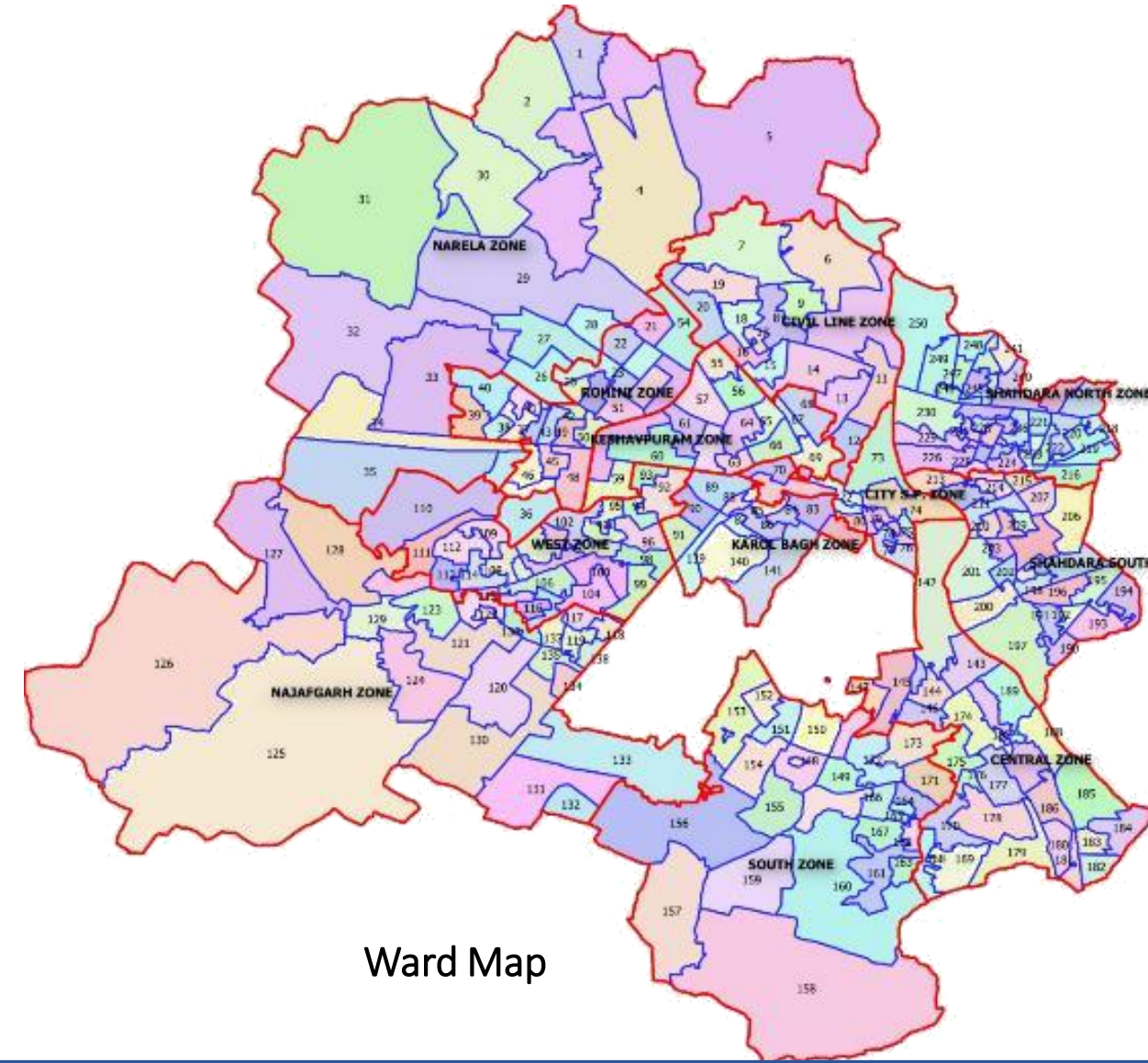


SOLID WASTE MANAGEMENT IN MCD



Hon'ble National Green Tribunal (O.A. No. 606/2018)

- Regarding “Compliance of Municipal Solid Waste Management Rules, 2016 and other environmental issues”
- Delhi was heard by Hon'ble NGT on 16.02.2023 in presence of the Chief Secretary, GNCTD.
- Detailed Action Plan with timelines prepared and Order issued dated 06.04.2023.



S. No.	Particulars	Numbers
1	Population (2011 Census)	192 Lacs
2	Area (sq km)	1366.89 (MCD) 1484 (Delhi) (94.27%)
3	No of Households (2011 Census)	43 Lacs
4	No. of Wards	250
5	No. of Zones	12

S. No.	Particulars	Numbers	% of total Solid Waste
1	Waste Generated per day (in MT)	11000	
2	Waste Generation per capita per day (in Kg)	0.5	
3	Bio-degradable MSW (in TPD)	4400	40%
4	Non Bio-degradable MSW (in TPD)	6600	60%
5	Domestic Hazardous Waste (in TPD)	0.11	0.001%
6	Total MSW Processing Capacity (in TPD)	8073	73%
7	Gap in MSW Processing Capacity (in TPD)	2927	27%
8	Total MSW Processed in TPD	7200	65%
9	Gap in MSW Processing in TPD	3800	35%

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Dumped at Ghazipur & Bhalswa Dumpsite

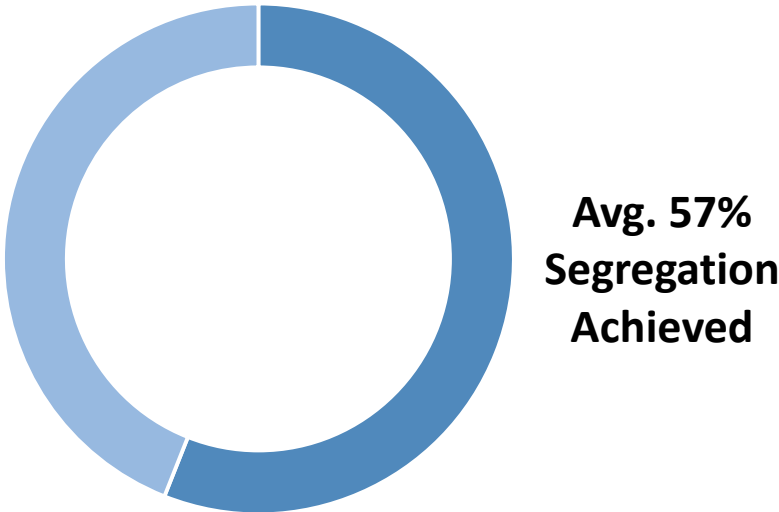
Order Para No. 3.1. & 3.2

Direction
“Since ward-wise accountability for 100% segregation of MSW at source needs to be ensured, therefore, MCD to submit ward-wise timelines and responsible officers by 15th April, 2023 to the Convener of the SWMC for Solid Waste Monitoring.” 100% collection shall be continuously ensured, without fail. A performance audit shall be completed by 30th September, 2023 by all ULBs”



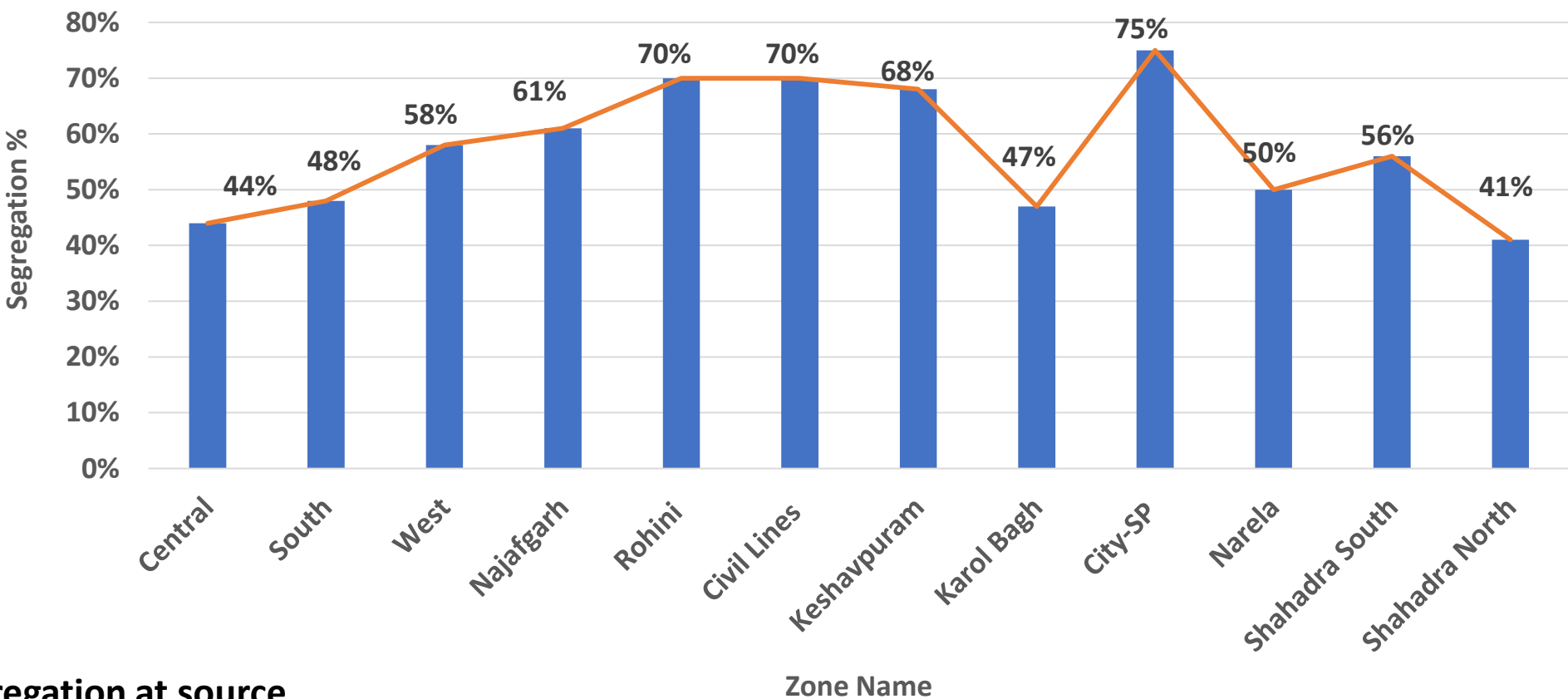
Status:

100 % Collection



Waste Segregation at Source – Status & Timelines

Avg. 57% Segregation Achieved



No. of Wards - 250

Timeline for 100% waste segregation at source

- a) February 2025 - 65%
- b) August 2025 - 75%
- c) February 2026 - 85%
- d) August 2026 - 90%

Declared **519 no. of zero waste colonies** from 01.09.2022 till date which are doing 100% waste segregation at source and in-situ composting.

Zone Wise Waste Generation, Collection & Transportation

S. No.	Zone	No. of Wards	Daily Garbage Generated (in TPD)	Agency / Concessionaire	Disposal Point
1	Central	25	1000	M/s DDSIL	Tehkhand WtE + Okhla WtE
2	South	23	900	M/s SSIL	Tehkhand WtE + Okhla WtE
3	West	25	900	M/s A2Z Enviro	Tehkhand WtE + Okhla WtE
4	Najafgarh	22	900	M/s DWMN	Tehkhand WtE + Okhla WtE
5	Rohini + Part Narela	23	950	M/s DMSWSL	Bawana WtE
6	Civil Lines + Part City-SP	15	800	M/s DMSWSL	Bawana WtE
7	Keshavpuram	15	800	M/s DMSWSL	Bawana WtE
8	Karol Bagh	13	850	M/s Metrro Waste	SLF Bhalswa
9	City-SP	12	950	M/s AG Enviro	SLF Bhalswa
10	Narela	16	500	M/s IPMSWSL	SLF Bhalswa
11	Shahadra South	26	1200	M/s Metrro Waste	Ghazipur SLF + Wte Okhla + Wte Ghazipur
12	Shahadra North	35	1250	M/s Metrro Waste	Ghazipur SLF + Wte Okhla + Wte Ghazipur
	Total	250	11000		

100% Collection of MSW

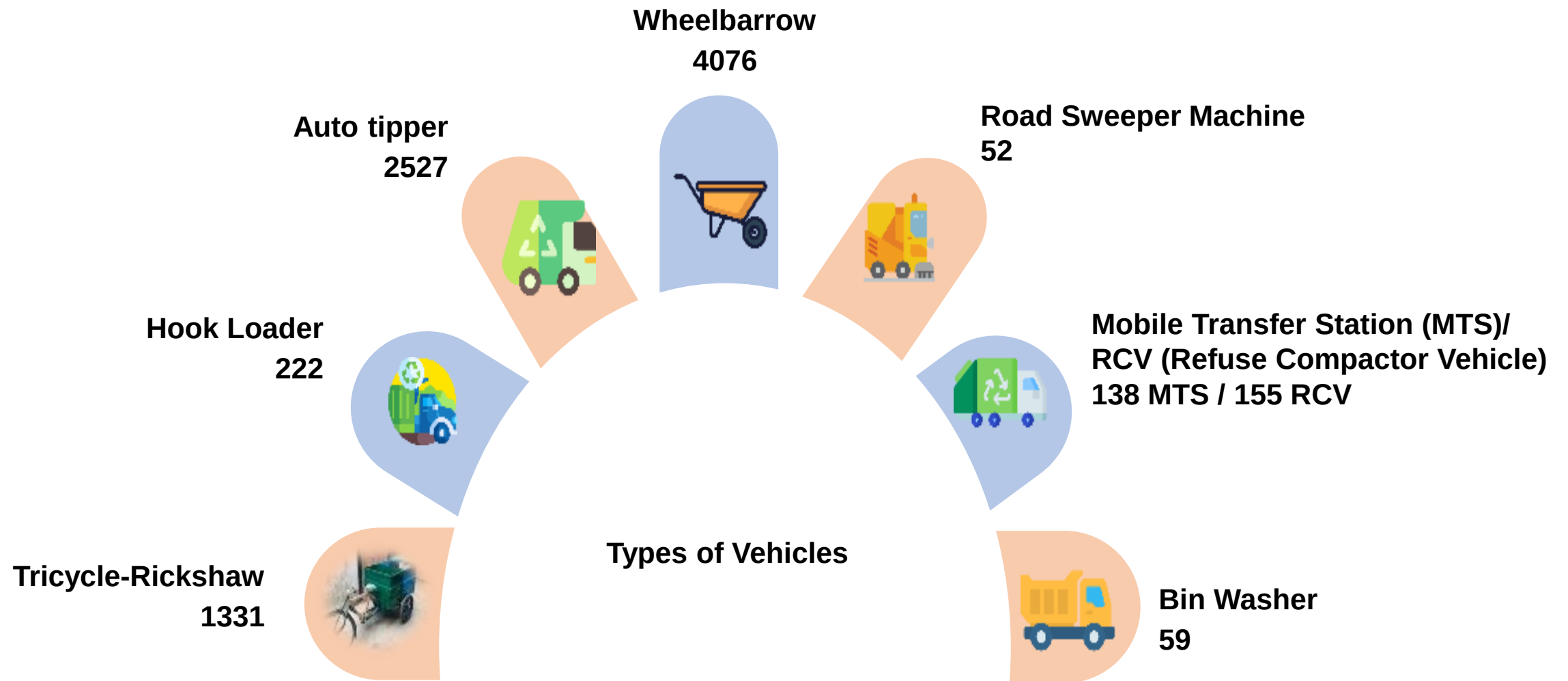
Order Para No. 3.4

Direction

Zone wise number of vehicles without GPS facility along with timelines for installing GPS and officers responsible for the same shall be provided by MCD by 15th April, 2023.

Status:

All the mechanized vehicles are equipped With GPS and same is being uploaded on E-Samiksha on monthly basis



ALL THE MECHANIZED VEHICLES ARE EQUIPPED WITH GPS



Refuse Compactors



Auto Tipper

Zone Wise No. of Vehicles

Vehicle Type	SZ	CNZ	WZ	NJZ	KBZ	RZ	KPZ	CLZ	CSP	SNZ	SSZ	NZ	TOTAL
Auto Tipper	315	424	261	279	213	133	88	92	213	192	192	125	2527
MTS	33	30	Included in RCV	37	Included in RCV						38	Included in RCV	138
Hook Loader	16	17	20	22	15	32	26	27	15	15	10	7	222
RCV	6	4	38	8	25	2	2	2	23	38	Included in MTS	7	155
Rickshaw	87	157	97	-	-	-	-	-	-	495	495	-	1331
E- Rickshaw		47			75	41	31	46	75	38	38	5	396
Three wheeler	-	-	49	-	-	-	-	-	-	19	19	-	87
Portable Compactor Container	-	-	-	52	22	60	50	50	22	-	-	29	285
Bin Washer	3	5	2	6	2	1	-	1	2	18	18	2	60
Wheel Barrow	650	875	91	332	195	551	412	193	40	-	-	737	4076
Road Sweeping Machines	7	7	5	8	2	4	5	3	2	2	5	2	52

Order Para No. 3.3

Direction	Status
“MCD submitted that the corporation shall ensure closure of existing 638 dhalaos by 31st December 2024 and some dhalaos are planned to be retained for disposal of silt and street sweeping waste. The ward wise detailed timelines and responsible officers as well as number of dhalaos planned to be retained shall be submitted by MCD by 15th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring.”	There were 1496 no. of Dhalaos out of which 970 no. of Dhalaos have been closed & put for an alternative use. Now, 515 no. of Dhalaos are operational and kept for the setting up of small MRFs, for storage of sweeping waste & silt (250 Dhalaos), FCTS and other small waste processing facilities

Secondary Storage / Material Recovery Facilities



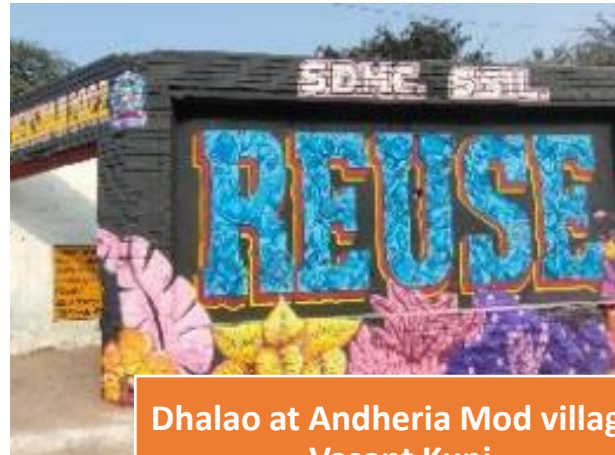
Dhalao as well-equipped restrooms for Sanitation workers



Dhalao as Milk Booth



Dhalao converted into RRR Center in Keshavpuram zone



Dhalao at Andheria Mod village, Vasant Kunj

S. No.	Particulars	Nos.
1	Total No. of Dhalaos	1496
2	No. of Operational Dhalaos	515
3	No. of Dhalaos Closed & put for an alternative use	970
4	No. of Dhalaos to be retained for sweeping waste & silt	250

Alternative Use of Dhalaos

- Amul Milk Booth
- MRF & RRR Centres
- EV Infrastructure (IGL)
- Library
- Reading Room
- Training Centre for less privileged women & Children
- Safaikaramchari Shelter
- Senior Citizen Recreation Centre
- Decentralized Composting Pits



No. of FCTS - 301

Order Para No. 3.5.1

Direction	Status
Urban local bodies shall get a professional assessment on the requirement of MRFs completed by 30th June, 2023 as per extant rules and regulations.	MCD has assessed the requirement for additional MRFs (in selected wards of zones) including industrial areas for which land is being sought from DDA. Further, it is proposed to invite the bids for the locations where site is available

Sorting and recovery of recyclables (MRFs)



MRF Swachhta Kendra Dwarka Sector-29



MRF Zakhira

SI No	Location of MRF	Capacity (in TPD)	Type of MRF
1	Geeta Colony	5	Semi-Automatic
2	Patparganj Industrial area Opp. Hasanpur Depot	5	Semi-Automatic
3	Dilshad Colony near Suraksha Nursing Home	2	Semi-Automatic
4	Dwarka Sector-29	5	Automatic
5	Raghubir Nagar	15	Semi-Automatic
6	Zakhira	8	Semi-Automatic
7	Pushp Vihar	2	Semi-Automatic
7	150 nos. MRF at various FCTS/ Dhalaos	218	Manual
Total Capacity in TPD		260	

S.No.	Projects	Capacity (TPD)
1	WTE Plant at Okhla (01)	1550
2	Integrated MSW Processing Facility at Narela-Bawana	2400
3	WTE Plant at Ghazipur (01)	1300
4	WTE Plant Tehkhand (01)	2000
5	Composters (20)	20
6	Decentralized Compost Pits (211)	543
7	Material Recovery Facilities (MRFs)	
8	A) 150 nos. at FCTS/Dhalaos maintained by C&T Concessionaire	218
	B) By NGOs etc-	
	• Geeta Colony IPCA	5
	• Patparganj Industrial area Opp. Hasanpur Depot IPCA	5
	• Dilshad Colony near Suraksha Nursing Home IPCA	2
	• Dwarka Sector-29 UNDP	5
	• Raghbir Nagar ITC WOW	15
	• Zakhira Chintan	8
	• Pushp Vihar Uboontu Foundation	2
	Total	8073

The compost produced at local composting units have been utilized in parks or by some RWAs, schools/ institutions etc.

- The centralized composting plants of MCD are run by private players on PPP basis which have tied up with fertilizer companies i.e. KRIBHCO, INDORAMA etc. for **selling of compost**.

Existing WTE Plants



WTE Plant of 1950 TPD capacity at Okhla



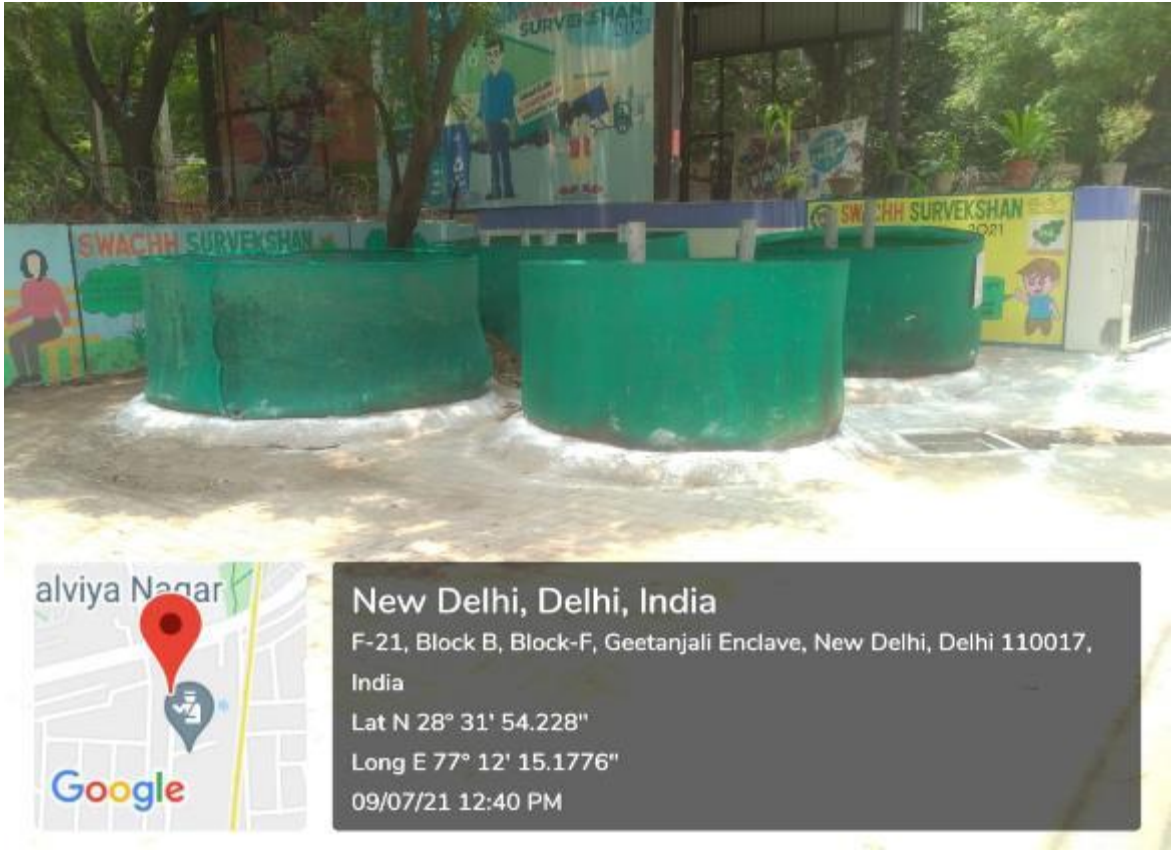
WTE Plant of 1300 TPD capacity at Ghazipur



Integrated MSW Processing Facility at Narela-Bawana (RDF based WtE) of 2500 TPD capacity



WTE Plant of 2000 TPD Capacity at Tekhand



Proposed Waste Processing Facilities

S. No.	MSW Facility	Location	Capacity (in TPD)	Expected Timeline for Completion
1	Waste to Energy Plant at Narela - Bawana	Narela – Bawana (For 3 Zones City SP, Karol Bagh & Narela Zone)	3000	June 2027 Appellate Tribunal for Electricity (APTEL) has set aside the orders of Delhi Electricity Regulatory Commission (DERC) regarding adoption of tariff arrived through competitive bidding process. The matter is pending in Hon’ble Supreme Court of India. The next date of hearing is 04.10.2024. The Rate & Agency contract could not be awarded for more than one year due to non-formation of Standing Committee of MCD. However, the prospective concessionaire has been accorded permission to go ahead for Environment Clearance (EC). MoEFCC has accorded Terms of Reference (TOR) for EC
2	Waste to Energy Plant Ghazipur	Ghazipur	2000	December 2027 Techno Economic Feasibility Report (TEFR) has been approved. The petition is pending in DERC for approval of Request for Proposal (RFP) and Draft Concession Agreement (DCA) since 30.06.2023. Petition of MCD admitted in DERC on the last date of hearing i.e. 30.05.2024.
3	Expansion of existing WtE of 1950 TPD at Okhla to 2950 TPD	Okhla	1000	June 2026 EC for expansion is accorded and the fixation of revised tariff was pending in DERC since 31.03.2023. However, aforesaid issue has been resolved and DERC has accorded the approval of revised tariff on 09.07.2024.
4	Expansion of existing WtE of 2000 TPD at Tekhand to 3000 TPD	Tekhand	1000	December 2026 Approval accorded and conveyed to Concessionaire. The concessionaire has initiated the process to obtain EC by starting baseline survey and is likely to file application for TOR in October 2024
5	Bio CNG Plant	Okhla	300	June 2025
6	Compressed Bio Gas (CBG) Plant	Ghogha Dairy	100	March 2025
7	Compressed Bio Gas (CBG) Plant	Ghazipur	350	December 2026
Total MSW Processing Capacity in TPD			7750	
8	Engineered Sanitary Landfill (SLF)	Tehkhand		Commissioned on 12.03.2024
9	Bio Gas Plants for Dairies Waste Management	Goyla dairy	215	March 2025
		Ghoga Dairy	290	March 2025
		Nangli Dairy	215	September 2024

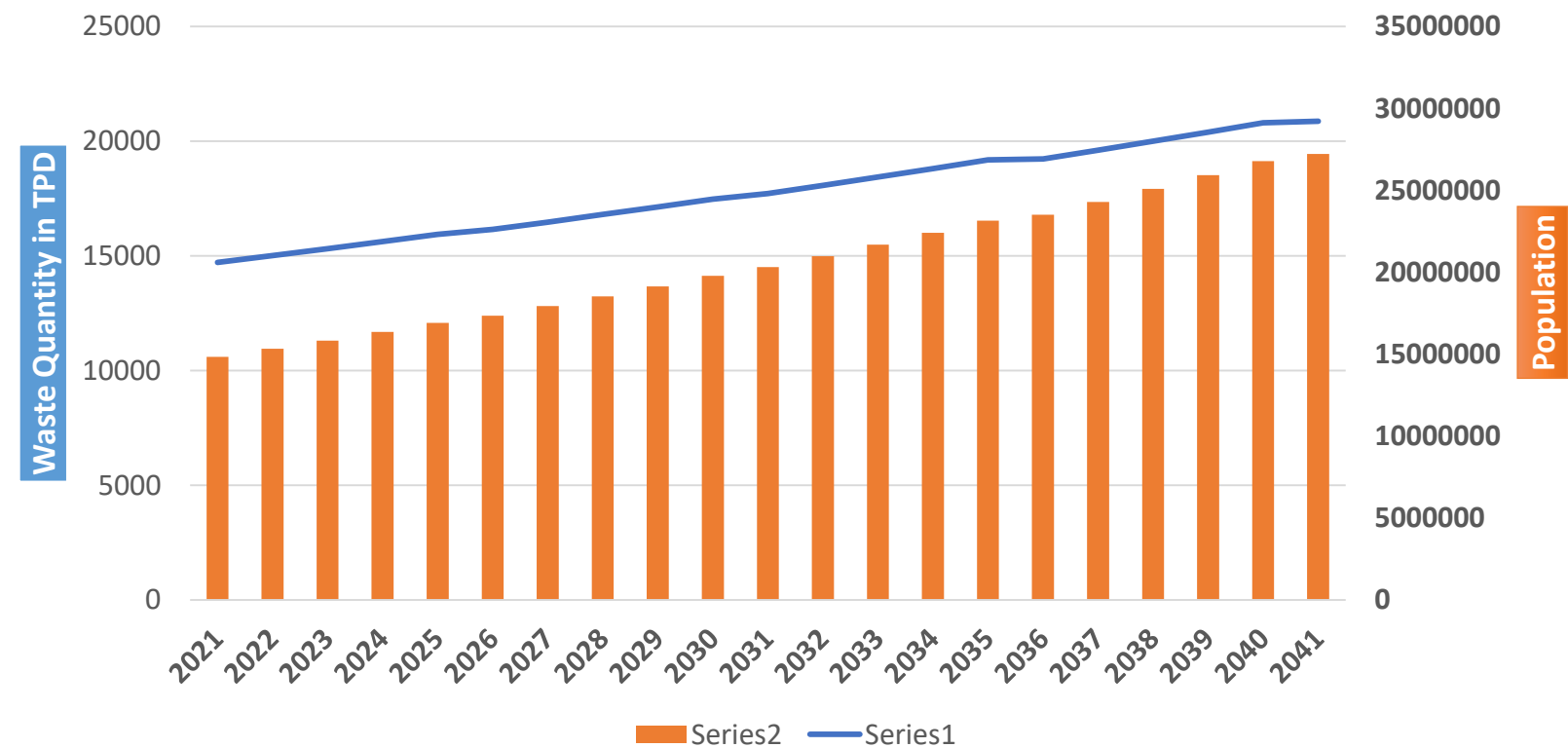
Future Plan for SWM

As per projection, the waste generation will increase from **11000 TPD** in **2023** to **20,000 TPD by 2041** (as per MPD 2041).

To meet the increasing waste generation demand, MCD has **proposed to setup 2 no. of proposed WTE plants** of 5000 TPD capacity (by December 2027) and **expansion of existing two WTE plants** by 1000 TPD capacity each at Okhla & Tekhand (by December 2026)

Setup of **Bio-CNG of 300 TPD capacity** and **2 no. of CBG plant of 450 TPD capacity** for separate processing of **wet waste** which will likely to be commissioned by year 2025 and 2026

This will increase the **waste processing capacity by 15823 TPD capacity** by the year 2027 which would take care of possible increase of MSW till year 2031.



Order Para No. 3.8.6

Direction

All ULBs shall reassess quantum of C&D waste being generated in their respective areas and submit an action plan according within a months' time to the Convenor of the SWMC for Solid Waste Monitoring.

Delhi produces approx. 6000 TPD of C&D waste material. MCD has setup four nos. of C&D plants to cater C&D waste generated from 12 zones of MCD

S. No.	C&D Plant	Capacity (TPD)
1	Bakkwarwala	1000
2	Burari	2000
3	Ranikhera	1000
4	Shastri Park	1000
Total (TPD)		5000



C&D Plant, Bakkwarwala



C&D Plant, Burari

Recycled material and products:

- Recycled coarsed aggregate
- Stone dust
- Interlocking pavers blocks
- Chequered tiles
- Kerb stones, concrete bricks & blocks

1. Proposed **C&D plant of 1000 TPD Capacity** in 7 acres of reclaimed land at SLF Okhla for which bids have been received and are under evaluation
2. **106 C&D waste dumping sites** for the general public
3. Out of these 106 sites, approx. **45 no. of sites** have been provided with GI barricading sheets, LED sign boards and sprinklers etc. in order to combat dust pollution
4. Complying with **advisory of using recycled C&D products** in all the construction/ civil works as per C&D Waste Management Rules 2016

Order Para No. 3.5.2

Direction	Timeline
The data of BWGs in all of 12 zones of MCD along with status of DWPFs in such BWGs shall be provided by MCD by 30th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring.	30th April, 2023
A revised inventory along with details of BWGs in every Ward / circle/ Zone in respective jurisdictions of the ULBs along with officers responsible for a comprehensive inventory, assessment of quantum of waste generated by these generators and status of DWPFs in their premises shall be submitted to the Convenor of the SWMC for Solid Waste Monitoring by 30th June, 2023.	30th June, 2023

Existing Bulk Waste Generators

S.no.	Type of BWGs	No. of BWGs	No. of BWGs doing Onsite Wet Waste Composting
1	Banquet hall	120	68
2	Educational Institutes	90	21
3	Hospitals/Nursing Homes	146	59
4	Hotels, Resort & Restaurants	338	104
5	Malls/ Cinema Buildings/ Commercial Establishment	198	55
6	Others (Clubs, Religious Places, Offices)	201	22
7	RWAs	1830	409
Total		2923	738

Efforts are being made to ensure that more no. of colonies to become zero waste colonies and remaining BWGs shall pursue on-site waste processing. **MCD is in process of empanelment of agencies for waste Management of BWGs**



May 2024
738 no. of BWGs
110 TPD Processing

May 2025
Additional 250 no. of BWGs
75 TPD Processing

May 2026
Additional 250 no. of BWGs
75 TPD Processing

May 2027
Additional 250 no. of BWGs
75 TPD Processing

Proposed BWGs

MCD has declared **519 colonies** as Zero Waste Colonies which are doing 100% waste segregation at source and in-house composting. Only dry waste is channelized through authorized waste collection agencies

Existing Zero waste colonies

Zone Name	Harit Mitra	Institution	Market	Sahbhagita	Grand Total
Central	2	5		20	27
Civil Lines	1	6		4	11
City SP	33	8		6	47
Karol Bagh	14	3		6	23
Keshavpuram	24	3	2	13	42
Najagarh	35			10	45
Narela	2			2	4
Rohini	48			4	52
Shahdra South	1	2		123	126
Shahdra North	9				9
South	46			26	72
West	10	10		41	61
Grand Total	225	37	2	255	519



May 2024
513 no. of Colonies
100 TPD Processing

May 2025
Additional 100 no. of Colonies
25 TPD Processing

May 2026
Additional 100 no. of Colonies
25 TPD Processing

May 2027
Additional 100 no. of Colonies
25 TPD Processing

Proposed Zero waste colonies

Domestic Hazardous Waste & Sanitary Waste Management

Order Para No. 3.7.1

Direction	Timeline
Timelines for 100% Collection, Transportation & Disposal of Domestic Hazardous Waste at the Treatment, Storage and Disposal Facility (TSDF) for Hazardous Waste at Bawana is 31st July, 2023	31st July, 2023
MCD, NDMC and DCB shall ensure that 100% collection, transportation and disposal of domestic hazardous waste and sanitary waste shall be done as per the provisions of the SWM Rules, 2016 and necessary arrangements be made in this regard for disposal of sanitary and biomedical waste at CBWTF and other domestic hazardous waste at the TSDF for Hazardous Waste at Bawana by 31st July, 2023	31st July, 2023

Status:-

Domestic Hazardous Waste and Sanitary Waste is collected in separate black box attached to auto tippers and sent to WTE Plants as per the SWM Rules, 2016

Total length of Railway tracks in Delhi	103 KM
Total quantity of MSW assessed in the joint inspection by MCD and Railways in June 2023	28080 MT
Total MSW lifted by MCD across all the zones (as on 11.09.2024)	17793 MT
Balance MSW lying on the Railway track	10287 MT

Note: Regular persuasion is being done with Railways for the payment of **Rs. 5,99,86,587/-** (approx. 16721 MT lifted as on 15.03.2024) to MCD but so far, no payment has been received from Railways.



MSW lifted along the tracks in Keshavpuram Zone



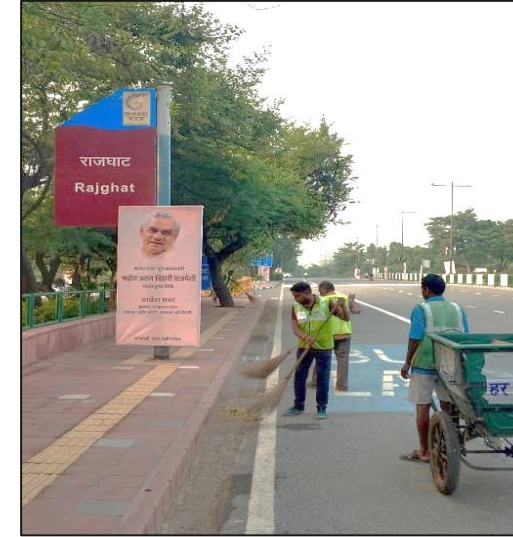
MSW lifted along the tracks in Central zone

Order Para No. 3.7.2

Direction

“ULBs shall ensure 100 % Collection, Transportation & Disposal of Street Sweepings and Silt Removed / Collected from the Surface Drains strictly as per the provisions of the SWM Rules, 2016 and make necessary arrangements in this regard, especially disposal. Ward/Circle/Zone wise timelines shall be submitted by local bodies by 30th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring

1. MCD has a total length of 15582 km colony roads (in terms 12 ft width) which is **swept by approx. 57000 nos. of sanitation workers** deputed in various wards under jurisdiction of MCD.
2. In market/ commercial areas, sweeping is done **twice daily**.
3. MCD has **52 nos. of Mechanical Sweepers** using treated STP water and equipped with GPS system .
4. Approx. **1700 km of road length** is swept with an average of 30-35 km per day on PWD roads.
5. **Approx. 150 MT per day dust collected** by all 52 MRSMs is being dumped in designated sites.
6. **18 nos. of new MRSMs** are under procurement which is stuck up due to non-formation of Standing Committee.
7. Sweeping waste is deposited at **separate RC bins** at Dhalaos & FCTS for its final disposal
8. In order to sweep the entire PWD roads on alternate days, **60 more MRSM** are required

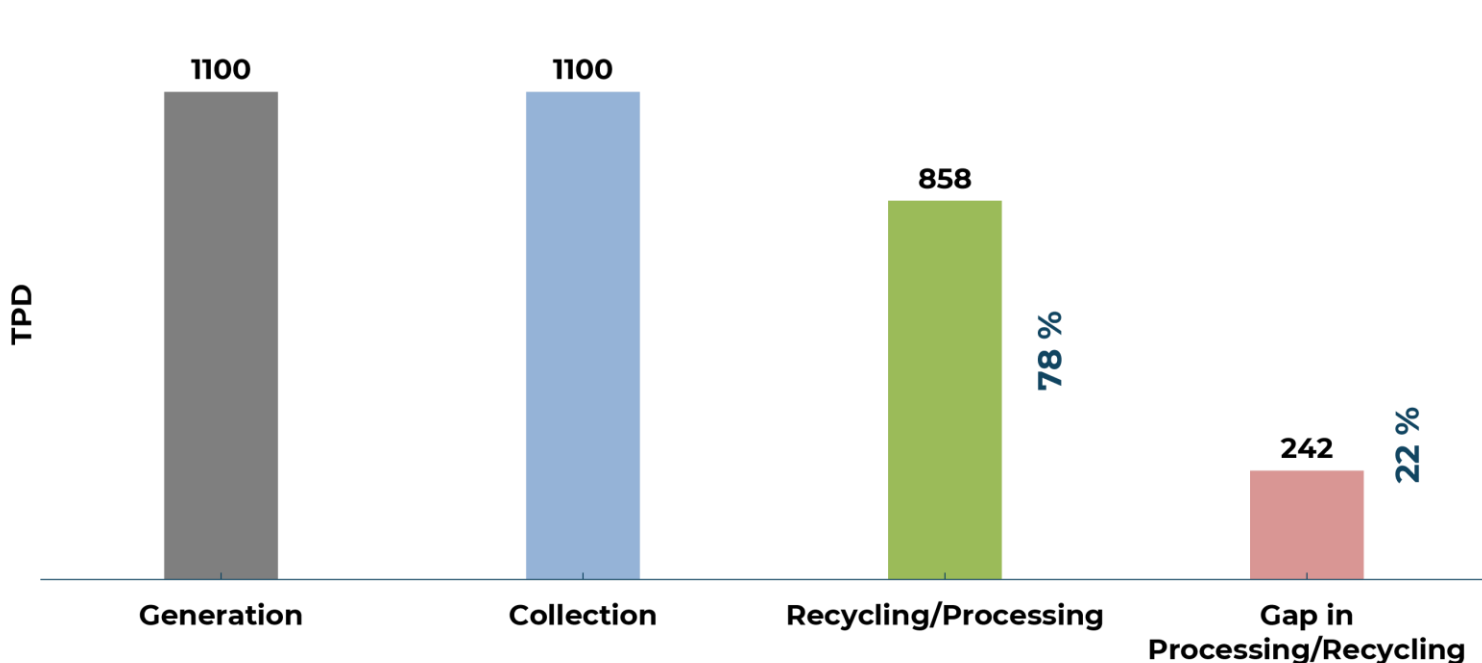


Silt removed: -

1. Below 4ft from 01.01.2024 till 05.08.2024 is 78457 MT
2. Above 4ft from 16 Jan 2024 till 05.08.2024 is 85315.56 MT

Order Para No. 3.7.3

Plastic Waste Generation is 10% of MSW Generation



Initiatives

1. CLTF Constitution
2. Plastic Waste Monitoring Dashboard
3. Enforcement Drives
4. 100 Days To Beat Plastic Campaigns
5. Students vs Plastic toolkit
6. Intensive IEC Activities
7. Engagement of RWAs, NGOs, WMAs for promoting SUP alternatives
8. Setup of MRFs
9. Plastic Roads
10. RRR Centres
11. Vikalp Stores
12. PET Bottle Crusher machines
13. Wide publicity through social media

Glimpse of Initiatives



RRR Centre at Kehavpuram Zone



Project Vikalp



MCD logo made from recycled plastic bottles



Students vs Plastics



Social Media Campaign



Bartan Bhandar



Recycled plastic made benches



Plastic Collection Drives



Used plastic banks



PET bottle Crusher Machine at Alkahnanda market



Awareness Campaigns in Markets



Eco Bag Centres in Mandis

Order Para No. 3.7.5

Direction

MCD shall reassess and submit actual figures on the zone wise quantum of horticulture waste generated and their action plan zone wise for 100% collection, transportation, processing of horticultural waste in their area of jurisdiction as per the provisions of the SWM Rules, 2016 by 30th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring.

Horticulture Waste Management from April 2023 to July 2024

1. Quantity of green waste collected: **2100 MT**
2. Quantity of Compost produced: **530 MT**

Horticulture Waste Processing

S.No.	Type of Processing Facility	Numbers
1	Green Waste Management Centre	47
2	Weld Mesh Jali fixed	620
3	Vermi Beds	136
4	Compost Pits	527
5	Total no. of Parks	15230
6	No. of Parks utilized Compost	4276



Narela Zone



Keshav Puram Zone



Central Zone



Sh. North Zone



Najafgarh Zone



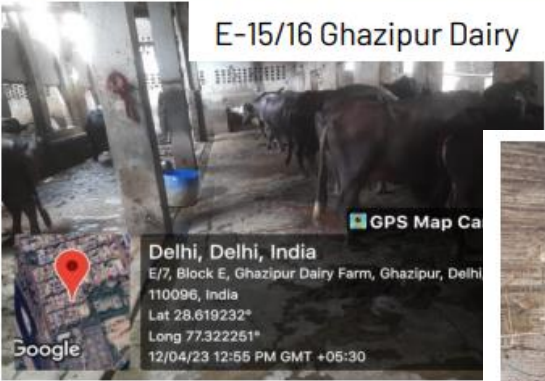
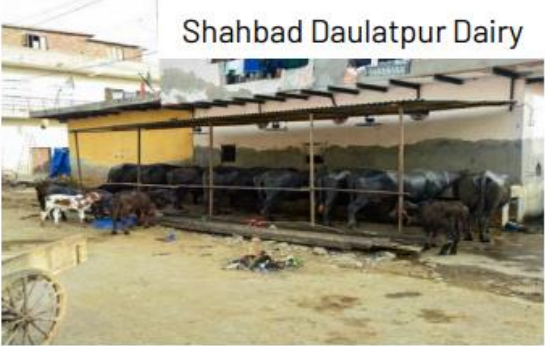
Sh. South Zone

Order Para No. 3.7.4

Direction	Status
MCD lacks comprehensive data on dairy farms and gaushalas and thus should carry out complete inventory of the dairy farms and gaushalas located in their jurisdiction in the modified inventory proforma of GOI's guidelines within 30th June, 2023 and submit an action plan, including zone wise details of quantum of dairy waste generation, collection, transportation & processing / disposal in Delhi, and timelines for 100% collection, transportation & processing of dairy waste in Delhi along with the responsible officers to the Convenor of the SWMC for Solid Waste Monitoring by 31st July 2023.	Inventory Completed

- MCD has 8 no. of dairy colonies
- MCD has done assessment of all dairy farms and gaushalas located in its Jurisdiction for which 3 biogas plants at Ghoga, Nangli and Goyla are under construction.

S. No.	Location	Capacity in TPD	Timeline	Coverage
1	Goyla dairy	215	March 25	Goyla Dairy Colony
2	Ghoga Dairy	290	March 25	Ghogha, Shahbad, Jharoda & Bhalswa Dairy Colony
3	Nangli Dairy	215	September 2024	Nangli & Kakrola Dairy Colony
TOTAL		720		



Order Para No. 3.8.7

Direction	Timeline
Committee under the chairmanship of Commissioner of Industries, GNCTD and consisting of MD, DSIIDC, Commissioner, MCD, Divisional Commissioner, Revenue Department and Secretary, Urban Development as member convener to look into the various issues related to general SWM in industrial areas and the agency responsible for proper management of solid waste in the industrial areas. The committee shall submit its report along with recommendations to the convener of SWMC for Solid Waste Monitoring by 30th April, 2023.	30th April, 2023

Carried out **Joint inspection** with DSIIDC, DDA and MCD to **identify the vacant plot for establishing the MRF in industrial areas.**

So far, **9 sites** have been identified suitable during Joint Inspection survey.

DDA has been requested to **allot proposed lands** to construct MRF in the industrial areas

Sl. No.	Zone	Name of Industrial area	Location of the Vacant Land & its area
01	Keshav Puram	Wazirpur	Plot No. 29(i) near Azadpur flyover with an approximate area of 4725 sqm. Suitable for MRF due to its area, approach road, surroundings
02.	Keshav Puram	Lawrence Road	No land available
03.	Civil Lines	Rajasthan Udyog Nagar	Two nos. of vacant land identified having an area of approx. 2600 sqm at Plot No. 34 Rajasthani Cooperative, GT Karnal Rd, Jahangirpuri Industrial Area
04.	Rohini	Mangolpuri Phase-I & II	1. Approx. 1 hectare area near STP A-Block Mangolpuri Phase-I 2. Approx. 0.7-hectare area at A-Block Mangolpuri Phase-I 3. Approx. 2.74-hectare area at A-Block Mangolpuri Phase-I 4. Approx. 2.39-hectare area at B-Block Mangolpuri Phase-I
05.	Central	Okhla Phase-III	No land available
		Flatted Factories Okhla	No land available
		F.I.E Complex	No land available
06.	Narela	Nangloi	No land available
07	Shah South	Patparganj	No land available
08.	Shah North	Jhilmil	No land available
09.	West	Mayapuri Phase-I & II	No land available
10.	Karol Bagh	Kirti Nagar, DLF, Moti Nagar, Naraina, Nagafgarh Road	DDA land available near Samta Dham Yog Ashram Naraina Industrial area, Phase-I with an approx. area of 2300 sqm
		Kriti Nagar, Industrial Area	DDA land is available with approx. area of 1050 sqm near Panchayati Udasin Akhara and Metro Corridor

Illegal Dumping of MSW/Garbage

S.No.	Zone	No of GVPs identified & removed
1	Central	10
2	South	10
3	West	12
4	Najafgarh	0
5	Rohini	10
6	Civil Lines	14
7	Keshavpuram	05
8	Karol Bagh	0
9	City-SP	0
10	Narela	08
11	Shahadra South	05
12	Shahadra North	10
TOTAL		84

1. MCD will convert **84 no. of identified GVPs** into beautification spots in Swachh Survekshan 2024.
2. Its an **on-going process** by all zones to continuously remove/ close the targeted GVPs
3. The **regular watch** is being done at the hotspots of illegal dumping of MSW / Garbage / Malba to **check their reoccurrence**
4. Designated **C&D waste dumping sites** for disposal of malba by general public for reducing illegal dumping of C&D waste.



Order Para No. 3.8.2

Direction	Status
Assessment and characterization of wastes should be conducted by all ULBs by 31st July, 2023	MoHUA is undertaking the study for Characterization of Solid Waste in entire Country including Delhi

Order Para No. 3.8.3

Direction	Status
Daily quantum of MSW supplied to the concessionaire / operator of processing facilities (WtEs, compost plants, etc.) shall be properly weighed through computerised weighing machines which should be connected to the online system of the concerned departments and local authorities mandatorily, including Urban Development Department and DPCC.	All dumpsites and centralized waste processing facilities are equipped with RFID system for real time monitoring data of all vehicles.

Order Para No. 3.8.4

Direction	Status
MCD, NDMC and DCB shall carry out Third Party Audit of Solid Waste Management, including segregation (waste types as per SWM Rules, 2016), collection, transportation, recycling, processing and disposal at SLF/dumpsite and compliances with the SWM Rules, 2016 through an independent and reputed expert agency in field of environment / solid waste management. MCD, NDMC and DCB shall award the work within a fortnight and shall complete the audit by 30th September, 2023.	The third party audit of SWM has been completed by ASCI along with their short term and long term action plan to improve the overall SWM efficiency in MCD and the same is being implemented by the MCD in phase wise manner.

Order Para No. 3.8.10

Direction	Status
MCD, NDMC, DCB and Environment Department of GNCTD shall initiate an IEC campaign IEC plan in this regard including an annual calendar of IEC activities shall be submitted by all agencies to the Convenor of this SWMC within a fortnight	Each zonal level Concessionaire submit monthly IEC action plan to Zonal DEMS staff for its execution and compliance to enhance waste segregation at source and to comply with SWM Rules 2016.

Order Para No. 3.6.1

Direction	Timeline	Status
MCD shall engage additional 10 trommels (5,200 TPD capacity) by 30th June, 2023.	30th June, 2023	Deployed 22 no. of trommels at Bhalswa Dumpsite, 25 no. of trommels at Ghazipur Dumpsite and 11 no. of trommels at Okhla Dumpsite
MCD should assess realistically the number of trommels required to be engaged and indicate dumpsite wise numbers of trommels required to complete bio mining, the numbers of which shall be submitted by 15th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring.	15th April, 2023	MCD has done assessment for the requirement of trommels and required no. of trommels have been deployed as per the feasibility.

Direction	Timeline	Status
Hon'ble NGT vide order dated 16.02.2023 directed that the timeline of May 2024 be further shortened, and accordingly it was decided that MCD should complete a fresh scrutiny of the timelines and assessment of available legacy waste in dumpsites including fresh waste dumped as on 28.02.2023 duly reflecting the concerns of Hon'ble NGT in the said order as well as corresponding resources required, and submit a report on the same by 15th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring.	15th April, 2023	- MCD has awarded integrated biomining work for 30 Lakh MT (extendable upto 45 Lakh MT) for each dumpsite in November 2022 - In the last 20 months, around 84 Lakh MT of fresh MSW plus legacy waste has been processed at all three dumpsites with daily average processing rate of 14000 TPD - In order to expedite the biomining process , MCD had invited bids for 30 lakh MT for Ghazipur dumpsite and 20 Lakh MT for Okhla dumpsite, but due to non-formation of Standing Committee, the same were cancelled and thus, could not increase the biomining pace further. - Bids reinvited for integrated biomining work at all three dumpsites for total quantity 80 Lakh MT (extendable by another 40 Lakh MT) and is targeted for award by November 2024 (subject to formation of Standing Committee in MCD) - This would enhance the daily biomining / bioremediation of fresh MSW plus legacy waste at all three dumpsites from 14000 TPD to 20000 TPD resulting in processing of fresh MSW plus legacy waste by approx. 73 Lakh MT by the end of year 2025 - Furthermore, the commissioning of proposed waste processing facilities of 7750 TPD capacity by year 2027 will increase the operational processing capacity to 15823 TPD which will take care of the yearly increase in fresh MSW generation - With the above measures, there would be almost complete liquidation of fresh plus legacy waste at dumpsites by the year 2028

S. No.	Particulars	Okhla	Bhalswa	Ghazipur
1	Location	Maa Anand Mai Road near CONCOR	G.T. Karnal Road opposite Sanjay Gandhi Transport Nagar	Ghazipur Dairy Farm at Delhi-Meerut Highway
2	Coordinates	28°30'42.10"N 77°17'1.90"E	28°44'27.10"N 77°09'26.40" E	28°62'48.8" 77°32'7.95" E
3	Landfill Established	1996	1994	1984
4	Age in years	27	29	39
5	Area of landfill site	62 Acre	70 Acre	70 Acre
6	Heigh in Meters (before biomining operations)	55 – 60 m (above ground level)	65 m (above ground level)	65 m (above ground level)
7	Legacy Waste in Lakh MT (before drone survey in 2022)	60	80	140

Hon'ble NGT vide order dated 17.7.2019 and 19.11.2019 in OA No. 519/2019 and 386/2019 directed the MCD to start bio-mining/remediation of legacy waste at SLF (dumpsites) Okhla, Bhalswa and Ghazipur on the model of Indore Municipal Corporation w.e.f 08.10.2019

Existing dump site at Okhla, Bhalswa and Ghazipur has already outlived its life

S.No.	Name of Dumpsite	Legacy Waste Present at Site July, 2019 (Lac MT)	Legacy Waste Processed till 05.09.24	Total Waste (Legacy + Fresh) based on Volumetric Assessment through Drone in June, 2022* (Lac MT)	Quantity of fresh MSW/Silt/ Malba dumped from July 2022 to 05.09.24 (Lac MT)	Total Quantity of Legacy Waste Bio-mined from July 2022 to 05.09.24 (Lac MT)	Balance Quantity of Waste at Dumpsite (Lac MT)	No. of Trommels Operational	Timeline for 100% Remediation
1	Bhalaswa	80	71.17	73	21.44	46.78	47.66	22	December 2028*
2	Ghazipur	140	27.00	85	13.59	15.99	82.60	25	December 2028*
3	Okhla	60	48.72	45	15.16	30.55	29.61	11	December 2028*
Total		280	146.89	203	50.19	93.32	159.87	58	

*** Subject to the stoppage of incoming fresh waste and formation of Statuary Committee in MCD**

INERT

- Being used as land filling material in NHAI Projects
 - NHAI land near NTPC Eco Park
 - NHAI Meethapur 1, UER 2
- Eco Park, private land and Ravali, Reliance road (UP)
- Low lying areas in Narela, Rohini Sec-23 & 18, SSBDK, Sighu Border, Swaroop Nagar

C&D

- Being used as land filling material in NHAI Projects
 - NHAI FRD Bypass project, RMC Plant
 - NHAI Meethapur 1, UER 2
- Eco Park, private land and Ravali, Reliance road (UP)
- Low lying areas in Rohini sec – 18 & 23, Singhu Border, Alipur, Narela, Swaroopnagar

REFUSE DERIVED FUEL (RDF)

- Being utilized by Cement Factories such as Ultratech cement Chittorgarh and JK Cement Chittorgarh
- Nikita Paper Mill, Shamli
- Rollz India

- a) The Erstwhile Municipal Delhi Corporations have submitted the funding proposals for legacy waste remediation under SBM (U) 2.0.
- b) MoHUA has sanctioned legacy waste remediation proposals of 3 Dumpsites for Rs. 776.47 Crore on 27th March 2022 and later revised to Rs. 1154 Crore in August 2022
- c) MCD has awarded **integrated biomining work for 30 Lakh MT (extendable upto 45 Lakh MT)** for each dumpsite @ Rs. 745 per MT under SBM 2.0
- d) Developed **Real Time Monitoring Dashboard** for Remediation of Dumpsites
- e) Approx. **15000 - 20000 TPD** from all three dumpsites have been **biomined on daily basis** in the last 1.5 year which has never been achieved by any of the cities in India.
- f) Initially, the height of all three dumpsites was **50-60 meters**. Now, the height has been reduced by approx. **10-15 meters** in various location at all three dumpsites.
- g) MCD has started reclaiming the land in **Okhla (approx. 10 acres)** and **Bhalswa Dumpsite (approx. 25 acres)** which will be utilized for setting up of new waste processing facilities.
- h) Further, MCD had invited bids for 30 lakh MT for Ghazipur dumpsite and 20 Lakh MT for Okhla dumpsite, to expedite the biomining process but due to **non-formation of Standing Committee** (the Competent Authority to approve the works). The same were cancelled.
- i) Bids reinvited for **integrated biomining work** at all three dumpsites for total quantity **80 Lakh MT** (extendable by another 40 Lakh MT)
- j) Out of three dumpsites, now, **no fresh MSW is being dumped at Okhla dumpsite**. Further, there is plan to stop the fresh waste at Ghazipur and Bhalswa by year 2027
- k) MCD has requested DDA to allot sufficient land for decentralized waste processing plants in each ward in MPD 2041

BEFORE



After



BEFORE



After





First Engineered Sanitary Landfill Facility (ESLF) developed in an area of 25 acres at Tehkhand for scientific disposal of rejects/ inert

Order Para No. 3.8.5

Direction	Status
MCD, DDA, and Forest Department shall take necessary advance action for proper utilization of the reclaimed land and submit detailed prospective Action Plan along with timelines and Nodal Officer for implementation of the Action Plan within a months’ time to the Convenor of the SWMC for Solid Waste Monitoring.	MCD has prepared Future Plan for SWM and utilization of reclaimed dumpsites in MCD and submitted to MoHUA and DDA for further necessary action

Hon'ble NGT OA no. 300/2022 and 288/2022 in the order dated 16.02.2023 has directed as under:-

- To develop dense forest in atleast on one third of the land occupied by the dumpsite, after the sites are cleared.
- One third can be utilized for setting up of integrated waste processing facilities or other like infrastructure.
- The remaining one third can be utilized for any other purpose consistent with the above purposes, including a part of it being utilized for monetizing, if funding is required for tackling legacy waste.
- Based on above directions and considering the future requirement of MCD to process the municipal solid waste, an action plan has been prepared to setup various type of waste processing facilities on the reclaimed land of dumpsites.



Future Mapping – OKHLA

Okhla Dumpsite

Facility	Capacity	Area (in Acres)
ESLF	17 Lakh Cum	44
C&D Waste Processing Plant	1000 TPD	8
Dense Forest around the boundary wall*		10
Total		62

*This land would be utilized for compensatory plantation / afforestation



Future Mapping - BHALSWA

Bhalswa Dumpsite

Facility	Capacity	Area (in Acres)
ESLF	20 Lakh Cum	52
Biomethana tion/ WtE	500 TPD/2000 TPD	10
Dense Forest around the boundary wall*		8
TOTAL		70

*This land would be utilized for compensatory plantation / afforestation



Ghazipur Dumpsite

Facility	Capacity	Area (in Acres)
ESLF	10 Lakh Cum	27
WTE Plant	2000 TPD	15
Biomethanation/ Bio-CNG	500 TPD	10
C&D Waste Processing Plant	1000 TPD	8
Dense Forest around the boundary wall*		10
Total		70

*This land would be utilized for compensatory plantation / afforestation

Treatment of Leachate generated from 3 Dumpsites

Order Para No. 3.6.3

Direction	Timeline	Status
MCD should ensure treatment of leachate as per prescribed standards by providing sufficient capacity of leachate treatment facility. Details regarding quantity of leachate discharged and Leachate Treatment Plants (LTP) (in KLD) sufficient to treat the entire leachate generated at the dumpsites, along with the completion timelines and responsible officers be submitted by MCD by 30th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring.	30th April, 2023	Cases for AA&E/S for Leachate Treatment Plants of 100 KLD capacity at Bhalswa is under approval stage. Further, for Ghazipur, it is proposed to provide leachate storage tanks from where leachate would be transported to LTP at Tekhand for treatment. Work order for construction of storage tanks has been issued and work is under progress

SOP has been issued for preventive measures to be taken at all the 3 Dumpsites for no fire incidents. The following measures have been implemented which are as under:

1. Sufficient fire-fighting equipment are available at the dumpsite.
2. The patrolling staff deployed shift-wise for strict watch and ward round the clock at the dumpsite.
3. Delhi Fire Service department is also informed immediately on noticing the fire at site.
4. Deployed the Heavy Earth Moving Machinery (HEMM) at vulnerable locations
5. Perforated pipes have been inserted in fresh MSW dumped to release the methane gas from the dumpsite.
6. There is complete restrictions on carriage of prohibited items to the dumpsite and penalty is imposed for non-compliance as per DMC act.
7. Disposal of RDF and combustible material is being done from the dumpsite.
8. The water tankers /sprinklers remain deployed round the clock, and water is sprinkled regularly.
9. Only authorized staff /persons are permitted to enter the dumpsite premises. Any trespassing is reported to the Police for action.

1. Daily Covering of garbage by providing the layer of malba / earth.
2. Providing a terrace-type approach to different areas by stepping
3. Written instructions to the field staff of all levels managing the SLF site not to allow fire or burning of garbage at the dumpsite.
4. Dedicated fire tender by DFS from their nearest Fire stations.
5. CCTV surveillance.
6. Deployment of manpower resource including supervisory staff.
7. Separate designated area for dumping of fresh MSW.

With these measures in place, MCD was able to avoid fire incidences even during the 46-days of extreme heat wave in May-June 2024, when temperatures often exceeded 45°C and even reached as high as 49.2°C on multiple days.

Committee to identify and hand over land to ULBs

Direction	Timeline	Status
Committee under Chairmanship of Divisional Commissioner, Revenue Department of GNCTD, consisting of Pr. Secretary, Environment and Forest; VC, DDA; Commissioner MCD with Secretary, Urban Development as member convener to resolve all land related matters (like identification and handing over land to ULBs for setting up of material recovery and processing facilities, etc.). This Committee shall ensure identification and handing over the requisite land parcels to ULBs, as the case may be, by 30th April, 2023.	30th April, 2023	1. In principle approval for allocation of 10 acres at Ghazipur Pocket “C” Integrated Freight Complex has been given by DDA. In this regard, it is proposed to sign MOU with IGL for setting up of CBG plant of 350 TPD capacity. However, the Change of Land Use (CLU) and allotment from DDA is awaited. 2. Request for allocation of 49 Acre land in “O” Zone for compensatory afforestation to enable MCD to obtain tree cutting permission for setting up of E-SLF at Sultanpur Dabas.

Order Para No. 3.8.13

Direction	Status
Action Points of the order dated 06.04.2023 and Action Plan of Solid Waste Management have been uploaded on the E-Samiksha Portal of Delhi under the head “Solid Waste Management in Delhi”. Nodal officers to update the progress w.r.t action points on monthly basis by 15th Day of the month.	MCD submits monthly ATR on E-Samiksha Portal in prescribed format by 15th of every month including Action Taken Report on points mentioned in Order dated 06.04.2023 of Chief Secretary and Minutes of 1st Meeting of SWMC held on 25.04.2023

Let's Segregate – Let's Recycle

Make City Swachh and Green

