

DELHI POLLUTION CONTROL COMMITTEE
DEPARTMENT OF ENVIRONMENT, GOVT. OF NCT OF DELHI
3rd FLOOR, DELHI IT PARK, SHASTRI PARK, DELHI-110053
 visit us at: <https://dpcc.delhigovt.nic.in>



F. No.: DPCC/WMC-II/ OA No. 606/2018/ 2023/ 3124-3149

Dated:10.10.2024

Subject: Minutes of 3rd Meeting of the Solid Waste Monitoring Committee held o 23.09.2024.

Please find enclosed herewith Minutes of 3rd Meeting of the Solid Waste Monitoring Committee (SWMC) to review the progress of Solid Waste Management in Delhi (Progress of various Projects / Action Points of the Action Plan etc.) w.r.t. NGT Case O A. No. 606 / 2018 in the matter of "Compliance of Municipal Solid Waste Management Rules, 2016 and other Environmental Issues" held in the Conference Room of Chief Secretary, GNCTD at 03: 00 PM on 23.09.2024 for urgent necessary action as mentioned in the said minutes.


(D. K. Singh)
 Addl. Director (WMC-II)
 DPCC

Enclosure: As Above

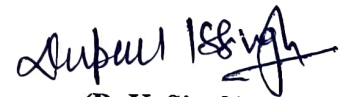
To,

1. Secretary. Ministry of Environment & Forest and Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jorbagh, Road, New Delhi.
2. Secretary, Ministry of Agriculture, Govt. of India, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi.
3. Secretary. Ministry of Housing and Urban Affairs, Nirman Bhawan, Maulana Azad Road, New Delhi-110011.
4. Director General (Forest), Ministry of Environment & Forest and Climate Change, Govt India, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi-110003.
5. Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032.
6. Vice Chairman, Delhi Development Authority, Vikas Sadan, INA, Delhi-110023.
7. Chairman, New Delhi Municipal Council, Palika Kendra, New Delhi-110001.
8. Additional Chief Secretary. Urban Development Department, Govt. of NCT of Delhi, 9th Floor, Delhi Secretariat, I.P. Estate, Delhi-02.
9. Additional Chief Secretary (Industries), Department of Industries, Govt. of NCT of Delhi. 419. Udyog Sadan, FIE Patparganj, Delhi-92.
10. Principal Secretary, (Revenue) cum Divisional Commissioner, 5 Sham Nath Marg, Delhi-54
11. Principal Secretary (Environment & Forest), Govt. of NCT of Delhi, 6th Floor, Delhi Secretariat, I.P. Estate. Delhi-02.
12. Pr. Secretary, Finance Department, Govt. of NCT of Delhi, 4th level, Delhi Secretariat, I.P. Estate, Delhi-02.
13. Pr. Secretary Cum Development Commissioner, Development Department, Govt. of NCT of Delhi, 5/9, Under Hill Road, Delhi-110054.

14. Commissioner, Municipal Corporation of Delhi, 9th Floor, Dr. S.P.M Civic Center, JLN Marg, Delhi-02.
15. Chief Executive Officer, Delhi Cantonment Board, Sadar Bazar, Delhi Cantt. Delhi-110010.

Copy to,

1. Pr. Secretary to Hon'ble Lt. Governor, Delhi, Raj Niwas, Delhi-110054.
2. Secretary to Hon'ble Minister (Env. and Forest), Govt. of NCT of Delhi, 7th Level, Delhi Secretariat, I.P. Estate, Delhi-02
3. Chairman, National Highways Authority of India (NHAI), G 5&6, Dabri Gurgaon Road, Sector 10, Dwarka, Delhi-110075.
4. Directorate General. Central Public Works Department. Ministry of Housing and Urban Affairs, Gol, Nirman Bhawan, New Delhi-110011.
5. Commissioner of Police, Delhi Police Headquarters, Jai Singh Road, New Delhi-110001.
6. Chairman, Delhi Pollution Control Committee, 5th Floor, Delhi Secretariat, I.P. Estate, Delhi-02.
7. Principal Secretary (PWD), Govt. of NCT of Delhi, MSO Building (PWD Head Quarters), ITO, I.P. Estate, Delhi-02.
8. General Manager, Northern Railway. Baroda House, New Delhi, Delhi 110001.
9. Managing Director, Delhi State Industrial & Infrastructure Development Corporation Ltd. N-36, Bombay Life Building, Connaught Circus, New Delhi-110001.
10. Additional Pr. Chief Conservator of Forest, Govt. of NCT of Delhi, A Block, Vikas Bhawan, I.P. Estate, Delhi-110002.
11. Member Secretary, Delhi Pollution Control Committee.
12. Staff Officer to Chief Secretary, Govt. of NCT of Delhi, 5th Level, Delhi Secretariat, L.P. Estate, Delhi – 110002-For kind information to the Chief Secretary, GNCTD.



(D. K. Singh)
Additional Director(WMC-II)
DPCC

Minutes of the Meeting of the Chief Secretary, GNCTD [3rd Meeting of the Solid Waste Monitoring Committee (SWMC)] to review the progress of Solid Waste Management in Delhi (Progress of various Projects / Action Points of the Action Plan etc.) w.r.t. NGT Case O A. No. 606 / 2018 in the matter of "Compliance of Municipal Solid Waste Management Rules, 2016 and other Environmental Issues" held in the Conference Room of Chief Secretary, GNCTD at 03: 00 PM on 23.09.2024.

Attendance Sheet of the participants is at Annexure-"A".

Dr. Tariq Thomas, Addl. Commissioner, Municipal Corporation of Delhi (MCD) presented the status of Solid Waste Management in MCD including progress of various projects, action taken w.r.t action points of the Action Plan for Solid Waste Management in Delhi prepared by Solid Waste Monitoring Committee (SWMC)] & Order of Chief Secretary, GNCTD dated 06.04.2023 and decisions taken in the 1st meeting of SWMC on 25.04.2023 & 2nd meeting on 12.12.2023.

It was informed that total Municipal Solid Waste (MSW) Generation in the areas under the jurisdiction of MCD [having 12 Zones & 250 Wards] is 11000 Tons per Day (TPD) out of which Bio-degradable (Wet Waste) is 4400 TPD (40 %) and Non Bio-degradable (Dry Waste) is 6600 TPD (60 %). Domestic Hazardous Waste is 0.11 TPD (0.001 %). MSW Processing Capacity is 8073 TPD (73%) and Gap in MSW Processing Capacity is 2927 TPD (27 %). Total MSW Processed is 7200 TPD (65 %) and Gap in MSW Processing is 3800 TPD (35 %) which is being dumped at Ghazipur & Bhalswa Dumpsites.

Solid Waste Management Comprises of:

- Generation & Segregation at Source (57 % Average Segregation achieved by MCD & 90 % by August, 2026)
- Primary Collection(100% Door to Door collection by Private Concessionaires appointed for each zone)
- Secondary Storage [FCTS & Dhalaos, Secondary Transportation by Tippers / Refuse Compactor Vehicles),
- Processing of MSW [Centralised Treatment – Waste to Energy Plants & Compost Plant and Decentralised Treatment - Material Recovery Facilities (MRFs) & Local Composting Units]
- Disposal of remaining MSW at Ghazipur & Bhalswa Dumpsites.

Following are the deliberations and decisions taken in the meeting:

1. 100 % Collection and Segregation of MSW at Source :

Direction (Order Para No. 3.1. & 3.2) –

“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”

Collection : 100 % Door to Door collection of MSW by Private Concessionaires in each zone.

Segregation : Average 57% Segregation of MSW in MCD areas. Timelines for segregation of MSW in MCD areas are : 65 % by February, 2025, 75 % by August, 2025 , 85 % by February, 2026 & 90 % by August, 2026.

Zone wise information of waste generation, collection, segregation at source & transportation provided however ward wise information is yet to be provided by MCD.

Representative of MCD informed that MCD has declared 519 colonies as Zero Waste Colonies which are doing 100% waste segregation at source and in situ composting. Only dry waste is channelized through authorized waste collection agencies in these 519 Colonies.

2. Transportation of MSW:

Direction (Order Para No. 3.4) –

“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”

“Dashboard shall be placed in public domain for transparency and community engagement by 31st July, 2023”.

Representative of MCD informed that all the mechanized vehicles are equipped with GPS. MCD is having 52 Road Sweeper Machines, 2527 Auto Tippers, 222 Hook Loaders, 138 Mobile Transfer Station (MTS), 155 RCV (Refuse Compactor Vehicles), 4076 Wheel Barrows, 1331 Rickshaws and 60 Bin Washer. Zone wise No. of vehicles provided by MCD.

Dashboard has already been developed by the MCD & being self-monitored.

Chief Secretary directed MCD :

(i) To prepare and submit Comprehensive Plan for achieving 100 % segregation & processing of MSW in 30 days.

(ii) Check resolution of Complaints / Grievances on 311 App of MCD particularly w.r.t collection of MSW.

(iii) Publicise Routing of Zones & Timings for collection of MSW so that public can know the time when the vehicle will come for collection of MSW.

Chief Secretary directed DPCC to verify the collection, segregation, transportation & processing of MSW.

3. Secondary Storage / Material Recovery Facilities (MRFs):

Direction (Order Para No. 3.3) –

“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.”

Dhalaos - Out of total 1496 Dhalaos, 970 Dhalaos have been closed & put for an alternative use. Now, 515 Dhalaos are operational and will be kept for the setting up of small MRFs for storage of sweeping waste & silt (250 Dhalaos), FCTS etc. and other small waste processing facilities.

Fixed Compactor Transfer Station (FCTS)

There are 301 operational FCTS.

Material Recovery Facilities (MRFs)

Direction (Order Para No. 3.5.1) –

“Urban local bodies shall get a professional assessment on the requirement of MRFs completed by 30th June, 2023 as per extant rules and regulations”

Representative of MCD informed that presently there are 157 MRFs at various locations with total installed capacity of 260 TPD. Out of 157 MRFs, One MRF of 5 TPD at Dwarka Sector 29 is Automatic, 6 MRFs with total installed capacity of 37 TPD are Semi-Automatic and Rest 150 MRFs with total capacity of 218 TPD are Manual.

Representative of MCD informed that MCD has assessed the requirement for additional MRFs (in selected wards of zones) including industrial areas for which land is being sought from DDA.

Chief Secretary directed MCD to ensure that all the existing MRFs are functional and DDA to allocate land to MCD in industrial areas as identified by the Joint Team. MCD to pursue DDA in this regard.

4. Bulk Waste Generators (BWGs):

Direction (Order Para No. 3.5.2) –

“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”

Representative of MCD informed that there are 2923 Bulk Waste Generators out of which 738 BWGs are having on site wet waste composting with processing of 110 TPD. It is proposed that by May, 2025, May, 2026 & May, 2027 there will be additional 250 BWGs with total 75 TPD processing capacity in each year making total additional 750 BWGs with total additional 225 TPD processing capacity by May, 2027.

Representative of MCD informed that 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

Chief Secretary directed MCD to prepare SOP for Zero Waste Colonies and circulate the same among RWAs of all the colonies within 30 days.

DPCC to grant Consent to Operate to the BWGs only after installation of on site wet waste processing facility (Composting / Organic Waste Converter / Bio-Methanation Plant etc.).

5. MSW Processing Facilities:

(i) Existing MSW Processing Facilities

Representative of MCD informed that there are four operational Waste to Energy Plants at Okhla, Bawana, Ghazipur & Tehkhand. Besides these WTEs there is one Compost Plant / Facility in the Integrated MSW Processing Facility at Bawana. There are 20 Composters of 1 TPD each at various locations, 211 Decentralised Compost Pits at various locations of total 543 TPD Capacity, 157 MRFs with total installed capacity of 260 TPD. Total installed capacity of MSW Processing Facilities & MRFs are 8073 TPD (73 %) against the total MSW generation of 11000 TPD in MCD.

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.

(ii) Proposed MSW Processing Facilities

Representative of MCD informed that as per projection, MSW generation will increase from 11000 TPD in 2023 to 20,000 TPD by 2041 (as per MPD - 2041) and to meet the increase in waste generation 7 MSW Processing Facilities with total installed capacity of 7750 TPD [2 New Waste to Energy Plants at Narela – Bawana (3000 TPD by June, 2027) & Ghazipur (2000 TPD by Dec, 2027), Expansion of existing WtE of 1950 TPD at Okhla to 2950 TPD by June, 2026, Expansion of existing WtE of 2000 TPD at Tekhand to 3000 TPD by Dec, 2026, One Bio-CNG Plant of 300 TPD at Okhla by June, 2025, One Compressed Bio- Gas (CBG) Plant of 100 TPD at Ghogha Dairy by March, 2025 and One Compressed Bio Gas (CBG) Plant of 350 TPD at Ghazipur by Dec, 2026] are proposed to be constructed / installed by 2027 which will fill the Gap of 2927 TPD between MSW generation and processing by MCD at present.

Besides above MSW Processing Facilities there are three Bio Gas / Bio-CNG Plants proposed for Dairy Waste Management. Bio-CNG Plant at Nangli Dairy (215 TPD) is under test commissioning and Timeline for completion of Goyla Dairy (215 TPD) & Ghogha Dairy (290 TPD) is March, 2025. These are mainly for the Waste generated from Dairies and not included in total MSW Generation of 11000 TPD.

One Engineered Sanitary Landfill (SLF) at Tehkhand has already commissioned on 12.03.2024. It was informed that the ESLF is has been developed for disposal of Ash generated from the Waste to Energy Plants at Okhla & Tehkhand.

Chief Secretary directed MCD to pursue and expedite the matter regarding proposed MSW facilities within the Timelines proposed by MCD.

6. Illegal Dumping of MSW/Garbage and Cleaning of Railway Lines:

(i) Illegal Dumping of MSW/Garbage

Representative of MCD informed that MCD will convert 84 Nos. of identified GVPs into beautification spots in Swachh Survekshan 2024. Its an on-going process by all zones to continuously remove / close the targeted GVPs. The regular watch is being done at the hotspots of illegal dumping of MSW / Garbage / Malba to check their reoccurrence. Designated C&D waste dumping sites for disposal of malba by general public for reducing illegal dumping of C&D waste. It was inform that Aruna Asif Road is also a GVP.

(ii) Cleaning of Railway Lines :

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

Chief Secretary directed that MCD & Railway to continue the drive and complete the removal of MSW from the Railway Tracks in Delhi at the earliest . After removal / clearing the waste from the Railway Tracks, Railways to protect its Railway Tracks in Delhi by providing Fencing.

7. C&D Waste Assessment and Management:

Direction (Order Para No. 3.8.6) –

“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”.

Representative of MCD informed that Delhi produces approx. 6000 TPD of C&D Waste. MCD has setup four Nos. of C&D Waste Processing Facilities with total installed capacity of 5000 TPD (Burari - 2000 TPD, Bakkarwala – 1000 TPD, Ranikhera – 1000 TPD & Shastri Park – 1000 TPD) to cater C&D Waste generated from 12 Zones of MCD. Besides these 4 C&D Waste Processing Facilities there is one C&D Waste Processing Facility of 150 TPD of DMRC at Mundka. One C&D Waste Processing Facility of 1000 TPD is also proposed in 7 acres of reclaimed land at SLF Okhla for which bids have been received and are under evaluation. There are 106 C&D waste dumping sites for the general public. Out of these 106 sites, 45 no. of sites have been provided with GI barricading sheets, LED sign boards and sprinklers etc. in order to combat dust pollution. MCD is complying with advisory of using recycled C&D products in all the construction/ civil works as per C&D Waste Management Rules, 2016

Chief Secretary directed that MCD & DPCC to check the designated 106 Dumping Sites for C&D Waste dumping by the contractors.

Govt. Agencies / Departments to expedite the lifting / off take of C & D Waste Products from the existing C&D Waste Processing Facilities in Delhi to meet their Targets fixed by MoHUA for year 2024 -2025.

For Trade off between requirement of C&D Waste by the Agencies / Departments, MCD can develop a portal facilitating direct buy.

8. Domestic Hazardous Waste & Sanitary Waste Management :

Direction (Order Para No. 3.7.1) –

“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”

“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”

Representative of MCD informed that Domestic Hazardous Waste and Sanitary Waste is collected in separate black box attached to auto tippers and sent to WTE Plants.

Chief Secretary directed MCD to ensure disposal of Domestic Hazardous Waste & Sanitary Waste Management as per the provisions of SWM Rules, 2016 and as per the order dated 06.04.2023 & Action Plan of SWMC.

9. Street Sweeping and Drain Silt Management:

Direction (Order Para No. 3.7.2) –

“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”

Representative of MCD informed that MCD has a total length of 15582 km colony roads (in terms 12 feet width) which is swept by approx. 57000 Nos. of sanitation workers. In market/ commercial areas it is done twice daily. MCD has 52 Nos. of Mechanical Road Sweepers using treated STP water and equipped with GPS system. Approx. 1700 km of road length is swept with an average of 30-35 km per day on PWD roads. Approx. 150 MT per day dust collected by all 52 MRSMs is being dumped at designated sites. 18 Nos. of new MRSMs are under procurement. Sweeping waste is deposited at separate RC bins at Dhalaos & FCTS for its final disposal.

85315.56 MT Silt removed from drains above 4 feet in the period of 16.01 2024 to 05.08.2024. and 78457 MT Silt removed from drains below 4 feet in the period of 01.01 2024 to 05.08.2024.

10. Plastic Waste Management (Order Para No. 3.7.3) :

Representative of MCD informed that Plastic Waste Generation is 10% of Total MSW Generation i.e 1100 TPD and there is 100 % collection of Plastic Waste 858 TPD of Plastic Waste is Recycled / Processed which 78 % of total Plastic Waste generated. There is a gap of 242 TPD in Recycling/ Processing of Plastic Waste.

Initiatives taken by MCD for Plastic Waste Management were informed (CLTF Constitution, Plastic Waste Monitoring Dashboard, Enforcement Drives, 100 Days to Beat Plastic Campaigns, Students vs Plastic toolkit, Intensive IEC Activities, Engagement of RWAs, NGOs, WMAs for promoting SUP alternatives, Setup of MRFs, Plastic Roads, RRR Centres, Vikalp Stores, PET Bottle Crusher machines, Wide publicity through social media.)

Chief Secretary directed MCD to ensure proper management of Plastic Waste including its Recycling & Processing as per the provisions of Plastic Waste Management Rules, 2016 as amended to date, focusing particularly at the Ward / Colony Level to have more impact.

11. Dairy Waste Management:

Direction (Order Para No. 3.7.4) –

“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”

Representative of MCD informed that there are 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. Bio-CNG Plant at Nangli Dairy (215 TPD) is under test commissioning and Timeline for completion of Goyla Dairy (215 TPD) & Ghogha Dairy (290 TPD) is March, 2025.

Chief Secretary directed MCD to adhere to the timelines given for completion of the Bio-CNG Plants at Nangli Dairy, Goyala Dairy & Ghoga Dairy and comply the directions in the order dated 06.04.2023 & Action Plan of SWMC.

12. Horticulture Waste Management:

Direction (Order Para No. 3.7.5) –

“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”

Representative of MCD informed regarding Horticulture Waste Management from April 2023 to July 2024. Quantity of green waste collected is 2100 MT & Quantity of compost produced is 530 MT.

13. Solid Waste Management in Industrial Areas:

Direction (Order Para No. 3.8.7) –

“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.”

Representative of MCD informed that joint inspection by MCD, DSIIDC & DDA to identify the vacant plots for establishing MRFs in industrial areas has been carried out and 9 suitable sites have been identified. DDA has been requested to allot proposed lands to construct MRF in the industrial areas. No land is available in Lawrence Road Indl. Area, Okhla Phase III, Flatted Factory Complex at Okhla, FIE Complex, Nangloi Industrial Area, Patparganj Indl. Area, Jhilmil Indl. Area, Mayapuri Phase I & II Indl. Areas.

Chief Secretary enquired whether land is available with CETPs in the industrial areas which can be used for providing MRFs. MD, DSIIDC informed that he will check and inform in this regard.

Chief Secretary directed DDA to allocate land to MCD in the industrial areas as identified by the Joint Team and MCD to pursue DDA in this regard. DSIIDC to check for availability of land in the CETPs for providing MRFs.

14. Assessment of Solid Waste Generation:

Direction (Order Para No. 3.8.2) –

“Assessment and characterisation of wastes should be conducted by all ULBs by 31st July, 2023”

“Portal / website to be put in place showing daily generation, collection, recycling, processing, and disposal at SLF/Dumpsite of MSW by 30th June, 2023, and link of the same shall be made available to public consumption and encourage community participation. The online feed shall also be made available to Urban Development Department of GNCTD, DPCC and CPCB”.

Representative of MCD informed that MoHUA is undertaking the study for Characterization of Solid Waste in entire Country including Delhi.

Chief Secretary directed MCD to carry out waste Assessment and Characterization instead of depending upon MoHUA.

15. Computerised weighing of MSW:

Direction (Order Para No. 3.8.3) –

“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.”

Representative of MCD informed that all dumpsites and centralized waste processing facilities are equipped with RFID system for real time monitoring data of all vehicles.

16. Third Party Audit of Solid Waste Management:

Direction (Order Para No. 3.8.4) –

“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.”

Representative of MCD informed that 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.

Chief Secretary directed MCD that Public should be in supervisory role and data / information regarding MSW collected , processed etc. by the concessionaire should be in Public Domain on the website of MCD.

17. Awareness Campaigns:

Direction (Order Para No. 3.8.10) –

“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.”

Representative of MCD informed that each zonal level concessionaire submits 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.

18. Bio-mining of Legacy Waste:

Direction (Order Para No. 3.6.1) –

“MCD shall engage additional 10 trommels (5,200 TPD capacity) by 30th June, 2023.

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.

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.”

Status of Bio-Mining of Legacy Waste at 3 Dumpsites at Okhla, Ghazipur & Bhalaswa (As on 05.09.2024)

Dumpsite	Quantity of Legacy Waste Dumped (July, 2019) (Lakh Ton)	Total Quantity of Legacy Waste Bio-mined (Since Oct, 2019 to 05.09.2024) (Lakh Ton)	Legacy Waste (Volumetric Assessment* through Drone in June, 2022) *Above Ground (Lakh Ton)	Quantity of Fresh MSW/ Silt /Malba dumped from July 2022 to 05.09.2024 (Lakh Ton)	Total Quantity of Legacy Waste Bio-mined from July,22 to 05.09.2024 (Lakh Ton)	Balance Quantity of Waste at Dumpsite (Lakh Ton)	No. of Trommels Operational	Revised Timeline for 100% Remediation (Earlier Timeline – May, 2024)
Bhalswa	80	71.17 (88.96%)	73	21.44	46.78	47.66	22	Dec, 2028*
Ghazipur	140	27.00 (19.29%)	85	13.59	15.99	82.60	25	Dec, 2028*
Okhla	60	48.72 (81.2%)	45	15.16	30.55	29.61	11	Dec, 2028*
Total	280	146.89 (52.46%)	203	50.19	93.32	159.87	58	

Presently total capacity of Bio-mining of Legacy waste per day at the three Dumpsites are as follows:

- (i) Okhla – 11500 TPD (ii) Bhalswa – 10500 TPD (iii) Ghazipur – 8800 TPD

Representative of MCD informed that Fractions recovered after screening of Bio-mined Legacy Waste are (i) Inert Waste -70 to 75 % (ii) Refuse Derived Fuel (RDF) –5 to 10 % (iii) C&D Waste –15 to 20 %

Disposal Points for Bio-mined Inert Waste, Refuse Derived Fuel (RDF) and C&D Waste are as follows:

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 Sector 23 & 18, SSBKD, Singhu Border, Swaroop Nagar.

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

C&D Waste - 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 such as Rohini Sector 18 & 23, Singhu Border, Alipur, Narela, Swaroop Nagar.

Interventions by MCD in Legacy Waste Management

- The Erstwhile Municipal Delhi Corporations have submitted the funding proposals for legacy waste remediation under SBM (U) 2.0.
- 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

- (iii) 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
- (iv) Developed Real Time Monitoring Dashboard for Remediation of Dumpsites
- (v) Approx. 15000 - 20000 TPD from all three dumpsites have been biominced on daily basis in the last 1.5 year which has never been achieved by any of the cities in India.
- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) Bids reinvited for integrated biomining work at all three dumpsites for total quantity 80 Lakh MT (extendable by another 40 Lakh MT)
- (x) 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
- (xi) MCD has requested DDA to allot sufficient land for decentralized waste processing plants in each ward in MPD 2041

Chief Secretary directed MCD to expedite the Bio-mining of Legacy Waste at the three Dumpsites and dispose the Bio-mined fractions at the earliest and comply the directions in the order dated 06.04.2023 & Action Plan of SWMC.

19. Treatment of Leachate generated from 3 Dumpsites:

Direction (Order Para No. 3.6.3) –

“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.”

Representative of MCD informed that cases for 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

20. End Use of Reclaimed Dumpsites:

Direction (Order Para No. 3.8.5) –

“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.”

Representative of MCD informed that MCD has prepared future plan for SWM and utilization of reclaimed dumpsites and submitted to MoHUA and DDA for further necessary action. Based on the directions of the Hon’ble NGT in OA No. 300 / 2022 and 288 / 2022 in the order dated 16.02.2023 and considering the future requirement of MCD to process the municipal solid waste, an action plan has been prepared to setup various types of waste processing facilities on the reclaimed land of dumpsites.

Proposed utilization of reclaimed dumpsites are as follows:

(i) Okhla Dumpsite: (Total Area 62 Acres)	(a) ESLF(Capacity 17 Lakh Cubic Meter)	– 44 Acres
	(b) C&D Waste Processing Plant (1000 TPD)	– 08 Acres
	(c) Dense Forest around the boundary wall (for compensatory plantation / afforestation)	– 10 Acres
(ii) Bhalswa Dumpsite: (Total Area 70 Acres)	(a) ESLF(Capacity 20 Lakh Cubic Meter)	– 52 Acres
	(b) Bio-methanation / WtE Plant (500 TPD / 2000 TPD)	– 10 Acres
	(c) Dense Forest around the boundary wall (for compensatory plantation / afforestation)	– 08 Acres
(iii) Ghazipur Dumpsite: (Total Area 70 Acres)	(a) ESLF(Capacity 10 Lakh Cubic Meter)	– 27 Acres
	(b) WtE Plant (2000 TPD)	– 15 Acres
	(c) Bio-methanation / Bio-CNG (500 TPD)	– 10 Acres
	(d) C&D Waste Processing Plant (1000 TPD)	– 08 Acres
	(e) Dense Forest around the boundary wall (for compensatory plantation / afforestation)	– 10 Acres

Chief Secretary directed MCD to pursue the matter with MoHUA for approval on the proposed utilization of reclaimed dumpsites and develop dense Forest around the boundary wall in consultation with Forest Department, GNCTD.

21. Dumpsite Fire Control:

Representative of MCD informed that MCD has issued SOP 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:

- (i) Sufficient fire-fighting equipment are available at the dumpsite.
- (ii) The patrolling staff deployed shift-wise for strict watch and ward round the clock at the dumpsite.
- (iii) Delhi Fire Service department is also informed immediately on noticing the fire at site.
- (iv) Deployed the Heavy Earth Moving Machinery (HEMM) at vulnerable locations
- (v) Perforated pipes have been inserted in fresh MSW dumped to release the methane gas from the dumpsite.
- (vi) There is complete restrictions on carriage of prohibited items to the dumpsite and penalty is imposed for non-compliance as per DMC act.
- (vii) Disposal of RDF and combustible material is being done from the dumpsite.
- (viii) The water tankers /sprinklers remain deployed round the clock, and water is sprinkled regularly.
- (ix) Only authorized staff /persons are permitted to enter the dumpsite premises. Any trespassing is reported to the Police for action.
- (x) Daily Covering of garbage by providing the layer of malba / earth.
- (xi) Providing a terrace-type approach to different areas by stepping
- (xii) Written instructions to the field staff of all levels managing the SLF site not to allow fire or burning of garbage at the dumpsite.
- (xiii) Dedicated fire tender by DFS from their nearest Fire stations.
- (xiv) CCTV surveillance.
- (xv) Deployment of manpower resource including supervisory staff.

- (xvi) Separate designated area for dumping of fresh MSW.

Representative of MCD informed that 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.

Due to the above measures during the current year, only one major fire incident occurred at Ghazipur Dumpsite on 20th / 21st April, 2024 as compared to 5 No. of fire incidents in 2022.

Chief Secretary directed MCD to continue the measures taken and ensure that there is no fire incident at the three Dumpsites in future and comply the directions in the order dated 06.04.2023 & Action Plan of SWMC.

22. Committee to identify and hand over land to ULBs:

Direction (Order Para No. 3.8.9) –

“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.”

Representative of MCD informed that in principle approval for allocation of 10 acres at Ghazipur Pocket “C” Integrated Freight Complex has been given by DDA. 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. MCD has also requested DDA 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 .

Chief Secretary directed Committee, MCD & DDA to take urgent necessary action for allotment of land for MSW Processing facilities in Delhi.

23. Monitoring through E-Samiksha Portal:

Direction (Order Para No. 3.8.13) –

“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.

Representative of MCD informed that MCD submits monthly Action Taken Report on the 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.

24. Representative of NDMC made presentation before the SWMC and the same is briefed below.

- Total MSW Generation in NDMC Area - 280 TPD (Wet Waste 80 TPD
- & Dry Waste 200 TPD).
- In all 14 Circles in NDMC, Waste Collection is 100% & NDMC has achieved more than 90% segregation at source.

- There is no Dhalao in NDMC area.
- All MSW Generated in NDMC Area is processed through Waste to Energy Plant at Okhla and De-Centralized Waste Processing Facilities including 05 Biomethnation Plant (Total Capacity 07 TPD), 01 Community Composting (Total Capacity 05 TPD), 27 Organic Waste Converter (Total Capacity 10 TPD), 46 Compost Pits (Total Capacity 15 TPD).
- For Domestic Hazardous Waste Disposal (0.7 TPD), NDMC has arrangement with TSDF at Bawana.
- Sanitary Waste (0.06 TPD) is collected in Auto Tippers and at transfer Station Sanitary Waste is disinfected with Sodium Hypochlorite Solution and taken to WtE Plant at Okhla for incineration.
- There are 70 No. of Vehicles fitted with GPS for collection of MSW.
- There are 30 BWGs (17 TPD Waste Generation) and 35 De-Centralized Waste Processing Facilities have been installed. Bhawans in NDMC area also BWGs.
- Plastic Waste Generation is 24.95 TPD which is Collected & Recycled / Processed.
- Horticulture Waste Generation in large gardens is 6.6 TPD which is processed in large garden.
- Processing of Horticulture Waste from roadside and roundabouts is being done at Waste to Energy / Compost Plant Okhla.
- All C&D Waste Generated is disposed at the C&D Waste Processing Facilities at Shastri Park.
- There are 8 MRFs (Total Capacity 12 TPD).
- A comprehensive multi-media strategy aimed at fostering behavioral change and citizen engagement which include variety of physical awareness activities, such as street plays, focused group discussions, interpersonal communication, and webinars with Resident Welfare Associations (RWAs) and Market Traders Associations (MTAs).

25. Representative of DCB made presentation before the SWMC and the same is briefed below.

- Total MSW Generation in DCB Area - 62 TPD (Wet Waste 28 TPD & Dry Waste 30 TPD).
- For Domestic Hazardous Waste Disposal (0.04 TPD), DCB has arrangement with TSDF at Bawana.
- In all 8 Wards in DCB, Waste Collection is 100%.
- Segregation of waste in all eight wards has been achieved upto 90% in Civil pockets and 70% in Army pockets. It is expected that 100% segregation will be achieved by December, 2024.
- There is No BWG in DCB area.
- Plastic Waste Generation is 4 TPD which is Collected & Recycled / Processed.
- All C&D Waste Generated in disposed at the C&D Waste Processing Facilities at Shastri Park.
- There is no Dhalaos in DCB area.
- There are 11 MRFs (Total Capacity 50 TPD) in DCB area.
- 100% Sanitary & Bio-medical waste is handed over to a Common Bio Medical Waste Treatment Facility (CBWTF) for scientific disposal.
- Delhi Cantonment Board has executed agreement with M/s Re-sustainability IWM Solution Ltd. For disposal of Domestic Hazardous Waste at Bawana w.e.f. 01.07.2023. Accordingly, the waste is processed at the said plant.
- A web page showing daily generation, collection, recycling, processing and disposal of MSW is functional and available on the official website of DCB.
- The third party audit of SWM has been completed by M/s National Productivity Council and report in this regard has been submitted.

Chief Secretary directed all the concerned departments and three Urban Local Bodies (MCD, NDMC & DCB) to inform regarding improvement on the various issues since 1st meeting of SMWC on 25.04.2023 and future plan within 30 days.

Chief Secretary also directed all the concerned departments and three Urban Local Bodies (MCD, NDMC & DCB) to ensure compliance with respect to the action points mentioned in the "Action Plan for Solid Waste Management in Delhi" prepared by Solid Waste Monitoring Committee, order of Chief Secretary, GNCTD dated 06.04.2023, decisions taken in the 1st meeting of SWMC on 25.04.2023, 2nd meeting on 12.12.2023 & above mentioned decisions taken in the 3rd meeting on 23.09.2024 and upload the information, Action Taken Reports & progress of various projects on the E-Samiksha Portal of Delhi by 15th day of every month.

Meeting ended with a vote of thanks to the Chair.

ATTENDANCE SHEET

Subject : 3rd Meeting of Solid Waste Monitoring Committee (SWMC) by Chief Secy., GNCTD for to review the progress of various projects / action points of the Action Plan, Action Taken w.r.t orders of Chief Secretary Delhi dated 06.04.2023 and decisions taken in the 1st meeting of SWMC held on 25.04.2023 & 2nd meeting held on 12.12.2023.

Date: 23.09.2024

Time: 3:00 PM

Venue : Conference Room of Chief Secretary at Level 5, Delhi Secretariat, Delhi-110002.

S.No.	Name of Officer	Designation & Department	Mobile No.	Email	Signature
1	Satyendra Kumar	Director, MoEFCC	9414022080	satyendra.kumar@nic.in	SK
2	PARMADITYA	JECP/ CENTRAL Ramp	9818099022	-	Parmaditya
3	Dinesh Yadav	CE, MCD	9717788595		Dinesh
4	Dr. Faiz Thomas	AB/Comm, MCD	9436803348	-	Dr. Faiz Thomas
5	K. PRADHAN	SE, PWD	9437171398		K. Pradhan
6	Ekta Gupta	Consultant MCD	9711185422	se2demsc@ gmail.com	Ekta
7	Mang Verma	SE MCD	9717786904	SEDEMS HR MCD@GMAIL.COM	Mang Verma
8	COL JAGDISH PRASAD	DCB Tech Advisor	9412282100		Col Jagdish Prasad
9	Anemika	DefCC) DRW	830979292		Anemika
10	H. P. SINGH	DRW to Agri DARE FW Sr. Consultant	9810883055		H. P. Singh
11	K.C. Suvender	Spl. Secy. UD	9540335959		K.C. Suvender
12	Nikhil Kumar	Secy & RB	9891313551		Nikhil Kumar
13	Jayachandran	MS	9412057684		Jayachandran
14	Sandeep Mittal	MD, D&ID	9650072232		Sandeep Mittal
15	Ruhel Dugg	Commissioner LD, DDA	9464840002		Ruhel Dugg

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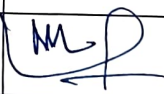
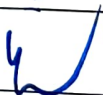
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S.No.	Name of Officer	Designation & Department	Mobile No.	Email	Signature
1					
2					
3					
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