

	DELHI POLLUTION CONTROL COMMITTEE DEPARTMENT OF ENVIRONMENT, GOVT. OF NCT OF DELHI 5th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-110006 visit us at: http://dpcc.delhigovt.nic.in
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F.No. DPCC / WMC-II / OA No. 606 of 2018 / 2023 / 74-99

Dated: 18.01.2024

Subject: Minutes of 2nd Meeting of the Solid Waste Monitoring Committee held on 12.12.2023

Please find enclosed herewith Minutes of 2nd Meeting of the Solid Waste Monitoring Committee (SWMC) to review the progress of Solid Waste Management in Delhi 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 12.12.2023 for urgent necessary action as mentioned in the said minutes.


(Dr. K.S Jayachandran)
Special Secy (Env.) Cum
Member Secy, DPCC

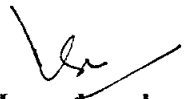
Enclosure: As Above

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. Additional Chief 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, GoI, 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. Staff Officer to Chief Secretary, Govt. of NCT of Delhi, 5th Level, Delhi Secretariat, I.P. Estate, Delhi - 110002 - For kind information to the Chief Secretary, GNCTD.


(Dr. K.S Jayachandran)
Special Secy (Env.) Cum
Member Secy. DPCC

Minutes of the Meeting of the Chief Secretary, GNCTD [2nd Meeting of the Solid Waste Monitoring Committee (SWMC)] to review the progress of Solid Waste Management in Delhi 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 12.12.2023.

Attendance Sheet of the participants is at Annexure-“A”.

Shri Dinesh Yadav, Chief Engineer, 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 first meeting of SWMC on 25.04.2023.

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 Wet Waste is 4400 TPD(40 %) and Dry Waste is 6600 TPD (60 %). Domestic Hazardous Waste is 0.11 TPD (0.001 %). MSW Processing Capacity is 8171 TPD (74 %) and Gap in MSW Processing Capacity is 2829 (26%).

Value Chain of Solid Waste Management comprises of :

- Generation & Segregation [Generation Points–Residential Areas (House Holds), Commercial Areas, Public Areas and Segregation Type – Wet, Dry, Sanitary & Domestic Hazardous Waste]
- Primary Collection(100% Door to Door collection by Private Concessionaires appointed for each zone)
- Secondary Storage [FCTS & Dhalaos, Separation of waste by Rag Pickers deployed by Concessionaires, 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 at Ghazipur, Bhalswa & Okhla 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 54% Segregation of MSW in MCD areas. 75 % segregation of MSW will be achieved by March, 2024 and 100 % segregation of MSW will be achieved by December, 2024.

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 353 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 in these 353 Colonies.

Chief Secretary directed MCD to explore the possibility of replication of Vasant Kunj model for MSW segregation and management through composting in other wards of MCD.

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, 2446 Auto Tippers, 160 Hook Loaders, 291 Mobile Transfer Station (MTS) / RCV (Refuse Compactor Vehicles), 4076 Wheel Barrows, 414 Tricycle Rickshaws and 58 Bin Washer. Zone wise No. of vehicles provided by MCD.

Dashboard has already been developed by the MCD & being self monitored. Dashboard shall be placed in public domain for transparency and community engagement by 31st January, 2024.

Chief Secretary directed MCD to adhere to the timelines given for placing the Dashboard in public domain.

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 1495 Dhalaos, 944 Dhalaos have been closed & put for an alternative use. Now, 551 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 294 operational FCTS, 25 FCTS are proposed and 17 FCTS are under construction.

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 156 MRFs at various locations with total installed capacity of 253 TPD. Out of 156 MRFs, 5 TPD MRF at Dwarka Sector 29 is Automatic, 5 MRFs with total installed capacity of 30 TPD are Semi Automatic and rest 218 are Manual.

.. proposal for the policy to construct MRF is under process. MCD has assessed the requirement of 8 No. of MRF of 110 TPD capacity at different locations based on land availability. Additionally, industrial areas are being explored for setting up of MRFs in vacant plots through the joint survey with DSIIDC, DDA and MCD.

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”

“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”

Representative of MCD informed that there are 551 No. of Bulk Waste Generators out of which 349 are having on site waste management / self utilizing the waste. Zone wise No. of BWGs and Type of BWGs alongwith their Nos provided by MCD.

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, 156 MRFs with total installed capacity of 253 TPD. Total installed capacity of MSW Processing Facilities & MRFs are 8171 TPD (74 %) against the total MSW generation of 11000 TPD.

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 **6 MSW Processing Facilities with total installed capacity of 7402 TPD** [2 New Waste to Energy Plants at Narela – Bawana (3000 TPD by 2026) & Ghazipur (2000 TPD by 2027), Expansion of existing WtE of 1950 TPD at Okhla to 2950 TPD by 2025, Expansion of existing WtE of 2000 TPD at Tekhand to 3000 TPD by 2026, One Bio-CNG Plant of 300 TPD at Okhla by June, 2024 , One Compressed Bio- Gas (CBG) Plant of 100 TPD at Ghogha Dairy by 2024 and Two Composters of 1 TPD each at Vishwas Nagar & New Ashok Nagar by January,2024] **are proposed to be constructed / installed by 2027 which will fill the Gap of 2829 TPD between MSW generation and processing at present.**

Commissioner MCD informed that for New Waste to Energy Plant at Narela – Bawana, permission for shifting of Transmission Line has been obtained from Power Company however 8 to 10 months time may be taken for shifting the Transmission Line from the project site. There is also matter pending before the Hon`ble Supreme Court regarding power tariff. It was informed that though Waste to Energy Plant at Ghazipur is operating however it is not operating at full capacity and taking about 500 to 600 TPD MSW against the installed capacity of 1300 TPD.

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 since October, 2023 and Timeline for completion of Goyla Dairy (215 TPD) & Ghogha Dairy (290 TPD) is March, 2024. These are mainly for the Waste generated from Dairies and not included in total MSW Generation of 11000 TPD.

One Engineered Sanitary Landfill (SLF) (Area 22.88 Acres) at Tehkhand is under construction and Timeline for completion is December, 2023). It was informed that the ESLF is being developed for disposal of about 12 – 13 Lakh MT of Ash generated from the Waste to Energy Plants at Okhla & Tehkhand and may last for 4- 5 years.

It was also informed by the Representative of MCD that as per projection, MSW generation will increase from 11000 TPD in 2023 to 20,000 TPD by 2041 (as per MPD 2041). To meet the increase in waste generation, MCD has proposed to setup 2 additional WTE Plants of 5000 TPD capacity by 2027. Therefore total MSW processing capacity by 2027 will be 20573 TPD [8171 TPD (Present Capacity) + 7402 TPD (Additional Capacity by 2027) + 5000 TPD (Additional Capacity by 2027)] which will be sufficient for next 10 years. Setting up of New MSW Processing Facilities are subject to the land availability from DDA.

Chief Secretary directed MCD to explore the possibility of enhancing the capacity of ESLF being developed at Tehkhand and adhere to the Timelines provided for the proposed Waste Processing Facilities.

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

(i) Illegal Dumping of MSW/Garbage

Representative of MCD informed that MCD has identified 230 No. of GVPs which have been removed during Swachh Survekshan 2023. Regular watch is being done at the hotspots of illegal dumping of MSW / Garbage / Malba to check their reoccurrence. During “Swachhata Hi Seva Drive” from 15th Sept to 2nd Oct 2023, Approx. 500 No. of locations covered in all 250 wards. There are designated C&D waste dumping sites for disposal of malba by general public for reducing illegal dumping of C&D waste.

(ii) Cleaning of Railway Lines

Representative of MCD informed that joint survey has been carried out by MCD and Railway officers in compliance of directions of NHRC. The quantity of MSW lying on 105 kilometer of Railway Track in Delhi was assessed as 31989 MT in June, 2023. A special drive is being undertaken to remove complete legacy waste from Azadpur to Narela in coordination with Railway Department under the supervision of NHRC. About 9106 MT of MSW has been lifted till 30.11.2023. Remaining 22883 MT will be lifted by March, 2024. It was informed that cost of removal of MSW from the railway tracks is to be shared by Railways and MCD in the ratio of 70: 30.

Representative of Railway told that since the MSW is generated and thrown by the residents of Jhuggies located nearby the Railway Lines in Delhi DUSIB should also be involved in removal of MSW from the Railway Tracks.

Chief Secretary directed that since DUSIB does not have required infrastructure for MSW management therefore MCD & Railway to continue the drive and complete the removal of MSW from the Railway Tracks in Delhi by March, 2024. After removal / clearing the waste from the Railway Tracks, Railways to protect its Railway Tracks in Delhi by providing Fencing.

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 at Tehkhand which will cater to 2 Zones (Central & South).

Representative of MCD also informed that there are 148 Designated C&D Waste Dumping sites for the general public. Out of these 148 Designated C&D Waste Dumping sites, Approx. 55 No. of sites have been provided with GI barricading sheets, LED sign boards and sprinklers etc. in order to combat dust pollution. MCD has made compulsory use of recycled C&D products in all the construction / civil works as per C&D Waste Management Rules.

Pilot project was initiated by MCD in 10 wards of West Zone from 14th May to 13th August, 2023 to reduce air pollution from C&D waste. Same will be replicated in other zones also.

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. 57500 Nos. of sanitation workers deputed in various wards under jurisdiction of MCD. 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. Pilot project in Janak Puri South Model Ward wherein sweeping starts before 6 AM and deployed adequate no. of vehicles to Safai Karamcharies with route optimization & close monitoring at SS level.

93416 MT Silt removed from drains above 4 feet and 90083 MT Silt removed from drains below 4 feet in the period of 1st October, 2022 to 31 July 2023.

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 Campaigns, Notification of PWM Bye-Laws, 2023, 100 Days to Beat Plastic Campaign, Intensive Public Awareness drives through various media, Engagement of RWAs, NGOs, WMAs for usage of SUP alternatives, Setup of Waste Processing Facilities – WtE and MRF, Plastic Roads, RRR Centres, Vikalp Stores, PET Bottle Crusher machines)

Chief Secretary directed MCD to ensure management of Plastic Waste including its Recycling & Processing as per the provisions of Plastic Waste Management Rules , 2016 as amended to date.

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 inventory of dairy farms and gaushalas has been completed. MCD has 8 No. of dairy colonies. MCD has done assessment of all dairy farms and gaushalas located in their Jurisdiction for which 3 Biogas / Bio-CNG Plants at Ghoga, Nangli and Goyla are under construction. Bio-CNG Plant at Nangli Dairy (215 TPD) is under test commissioning since October, 2023 and Timeline for completion of Goyla Dairy (215 TPD) & Ghogha Dairy (290 TPD) is March, 2024

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 that there is 70 TPD of Horticulture Waste generation & collection out of which 50 TPD is processed/ composted at 43 centres (Green Waste Management Centres). Timeline for 100 % processing of Horticultural Waste is December, 2024.

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 pointed out that there is no FCTS in Rohini area and MCD to provide details to DDA.

Chief Secretary directed MCD to pursue DDA regarding allotment of land for MRFs in the industrial areas.

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 proposal to undertake assessment & characterization of MSW in MCD Jurisdiction is under planning stage.

Regarding placing the Portal / Website in public consumption , it was informed by the MCD representative that Dashboard shall be placed in public domain for transparency and community engagement by 31st January, 2024.

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 MCD has engaged ASCI for performance audit of waste management. The work is in progress and likely to be completed by 31.12.2023.

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 30.11.2023)

Dumpsite	Quantity of Legacy Waste Dumped (July, 2019) (Lakh Ton)	Total Quantity of Legacy Waste Bio-mined (Since Oct, 2019 to 30.11.2023) (Lakh Ton)	Total Quantity of Legacy Waste Bio-mined in November, 2023 (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 30.11.2023 (Lakh Ton)	Total Quantity of Legacy Waste Bio-mined from July,22 to 30.11.2023 (Lakh Ton)	Balance Quantity of Waste at Dumpsite (Lakh Ton)	No. of Trommels Operational	Revised Timeline for 100% Remediation (Earlier Timeline – May, 2024)
Bhalaswa	80	50.98 (63.73 %) (3349.54 TPD)	2.37 (7900 TPD)	73	12.65 (2442.08TPD)	26.11 (5040.54TPD)	59.54	22	2024
Ghazipur	140	21.56 (15.4 %) (1416.56 TPD)	0.04 (133.3 TPD)	85	9.13 (1762.55TPD)	10.30 (1988.42TPD)	83.83	25	2024
Okhla	60	35.90 (59.83 %) (2358.74 TPD)	1.07 (3566.7 TPD)	45	8.13 (1569.5 TPD)	17.59 (3395.75TPD)	35.54	11	2024
Total	280	108.44 (38.73%) (7124.84 TPD)	3.48 (11600 TPD)	203	29.91 (5774.13 TPD)	54.00 (10424.71 TPD)	178.91	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 (NHA land near NTPC Eco Park, NHAI Meethapur 1, UER 2), Eco Park, private land and Ravali, Reliance Road (UP), Low lying areas such as Narela, Rohini Sector 23 & 18, SSBDK, 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 (NHA 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

- Erstwhile DMCs submitted funding proposals for legacy waste remediation under SBM (U) 2.0.
- MoHUA sanctioned legacy waste remediation proposals of 3 Dumpsites for Rs. 776.47 Crores on 27th March 2022 and later revised to Rs. 1154 Crores in August, 2022
- 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
- Developed Real Time Monitoring Dashboard for Remediation of Dumpsites.
- Presently, approx. **18000-22000 TPD** from all three dumpsites being biominced on daily basis which has never been achieved by any of the cities in India.
- MCD has invited bids for 30 lakh MT for Ghazipur dumpsite and 20 Lakh MT for Okhla dumpsite, to expedite the Bio-mining process
- Out of three dumpsites, now, no fresh MSW is being dumped at Okhla dumpsite. There is plan to stop the fresh waste at Ghazipur and Bhalswa by 2027.
- Initially, the height of all three dumpsites was 50-60 meters. Now, the height has been reduced by approx. 10-15 meters at various location at all three dumpsites.

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 AA & E/S for Leachate Treatment Plants of 100 KLD capacity at Bhalswa and Ghazipur are under process as fresh waste is being dumped at these 2 sites only.

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: | (a) ESLF(Capacity 17 Lakh Cubic Meter) | – 44 Acres |
| (Total Area 62 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: | (a) ESLF(Capacity 20 Lakh Cubic Meter) | -- 52 Acres |
| (Total Area 70 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: | (a) ESLF(Capacity 10 Lakh Cubic Meter) | – 27 Acres |
| (Total Area 70 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. All three dumpsites have nearby fire stations.

Measures taken at the 3 Dumpsites are briefed in following Table :

S.No.	Particulars	Okhla	Bhalswa	Ghazipur
1	No. of Perforated Pipes for Methane / CO Measurement	-	11	12
2	No. of Cameras	30	31	10
3	Manpower Deployed	06	10	06
4	Water Sprinklers	06	02	01
5	Anti Smog Guns	09	02	01
6	Fire Extinguisher	35	10	25

Due to the above measures during the current year, only one major fire at Ghazipur Dumpsite occurred as compared to the 5 No. of fire incidents reported 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 MCD has requested for expeditious allotment of 4 Acre land at Ghazipur Pocket “C” Integrated Freight Complex for Bio-methanation Plant and consider the allotment of 6 Acres parcel land for MCD.

MCD has also requested for allocation of 49 Acre land in “O” Zone for compensatory afforestation to enable MCD to obtain tree cutting permission for setting up of ESLF at Sultanpur Dabas.

Chief Secretary directed Committee and MCD 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.

Chief Secretary 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 first meeting of SWMC on 25.04.2023 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

Sub : Meeting of Chief Secretary, GNCTD to Review of the Progress w.r.t Solid Waste Management in Delhi w.r.t NGT Case OA. No. 606/2018]

Venue: Conference Room of Chief Secretary, GNCTD at 5th Floor, Delhi Secretariat

Date : 12.12.2023

Time: 3:00PM

S. No.	Name of Officer	Designation & Department	Mobile No.	Email ID	Signature
1	V.S. RANA	Addl DRM RLYS			10/12/23
2	I.M. Poddma Kumar	Br. Architect project.	9560416452		9/12/23
3	Sanjeev Mittal	MD, DSII DC	9650072238		Kan
4	Dr Deepak Mittal	MDH / NDMC	8130698279		de
5	Dr S. Srivastava	CHO / NDMC	9811547118		SS -
6	Danya Dinda	Director / CPCL	9868262316		Dy.
7	COL JAGDISH PRASAD	DCB	9412282100		Jagdish
8	Veronica	Asst. Architect	9953370894		Veronica
9	K.C. Surrender	Spl. Secy, UD	9540335959		K.C. Surrender
10	PARAS CHANDRA	GrDME/PAENHM Staff (NR)	9717631401		Paras
11	Arun K. Singh	Jr DSN / 3/D4 N. Railway	9717631246		Arun K. Singh
12	Kamal Gupta	Dir/IL, DDA	8149323861		Kamal Gupta
13	ANIL K. SINGH	Asst. Secretary G&F	9999233373	senv@nic.in	12/12/23
14	Sayachandran	MS-DPCE	94205766		Sayachandran
15	ABHINAV KUMAR	DCF (NR), DDFW	8974131911	defhq.gnetd@ gov.in	Abhinav Kumar
16	D. K. Singh	SEE, DPCL	9717593512	dk.singh.dpce @gmail.com	D.K. Singh

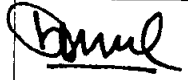
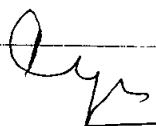
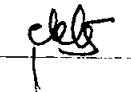
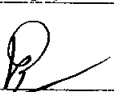
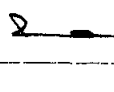
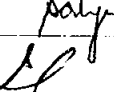
ATTENDANCE SHEET

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Venue: Conference Room of Chief Secretary, GNCTD at 5th Floor, Delhi Secretariat

Date : 12.12.2023

Time: 3:00PM

S. No.	Name of Officer	Designation & Department	Mobile No.	Email ID	Signature
17	PARMADITYA	JELP/Conty Delhi police	9818099022	—	
18	Vikas Rana	CE (OP) PWD	9999445340	ce.pwd@delhi.gov.in	
19	Sumit Tyagi	E-14-C DSIIDC	9777788855		
20	Dinesh Yadav	CB, MCD	9717788595		
21	Ekta Gupta	Consultant MCD	9711189422		
22	MANOJ KUMAR	CE (PWD) South Zone	9811064431		
23	Sandeep Goyal	DEN/Estate/N-PLY	9717637213		
24	Gyanesh Bhatt	Commissioner MCD			
25	M. Gupha	ACS (UD)			
26	Satyendra Kumar	Director MoEFCC	9414022080	satyendra.kumar07@nic.in	
27	M. I. Siddiqui	ACC DPCC	9717593535	misa65@delhi.gov.in	
28	Dr. K. S. Jayachandran	Sp. Secy (Env) Cum MS, DPCC			
29					
30					
31					
32					