



Department of
Environment, GNCTD

Solid Waste Management in Delhi

Action Plan and Timelines



F.No.: DPCC/WMC-II/O.A. No. 606 of 2018/ 2023/ 1931-1962 Dated: 06/04/23

ORDER

Whereas, in pursuance to the directions of Hon'ble National Green Tribunal (NGT) vide order dated 16.02.2023 in OA No. 606/ 2018 regarding Compliance of Municipal Solid Waste Management (SWM) Rules, 2016 and other Environmental Issues, a Solid Waste Monitoring Committee (SWMC) headed by the Hon'ble Lt. Governor, Delhi has been constituted.

1 Judicial Pronouncement - Brief Background

Whereas, Municipal Solid Waste (Management and Handling) Rules, 2000 were notified by the Ministry of Environment Forests and Climate Change (MoEFCC), Government of India (GoI) and later on replaced by SWM Rules, 2016 (notified on 08.04.2016) for proper management of Municipal Solid Waste (MSW) but implementation remains a problem despite clear mention of duties of various stakeholders and authorities in the said SWM Rules, 2016.

And whereas, duties and responsibilities of local authorities of census towns and urban agglomerations are mentioned at Rule 15 and time frame for implementation and creation of necessary infrastructure is given at Rule 22 of SWM Rules, 2016.


And whereas, the issue of MSW Management has been dealt with by the Hon'ble Supreme Court in several proceedings, including cases of Municipal Council, Ratlam vs. Vardhich and [(1980) 4 SCC 162] and B.L. Wadhwa vs Union of India and Ors [(1996) 2 SCC 594]. It has been categorically laid down that clean environment is fundamental right of citizens under Article 21 and it is for the local bodies as well as the State to ensure that public health is preserved by taking all possible steps. For doing so, financial inability cannot be pleaded. The Hon'ble Supreme Court gave directions for proper management of MSW, *inter-alia*, vide orders dated 24.08.2000, 04.10.2004, 15.05.2007 and 19.07.2010.

1.1 Hon'ble Supreme Court also dealt with the Writ Petition No. 888/1996 "Almitra H. Patel vs. Union of India & Ors."

And whereas the Hon'ble Supreme Court also dealt with the Writ Petition No. 888 / 1996 "Almitra H. Patel vs. Union of India & Ors." regarding Solid Waste Management for about 18 years and finally vide order dated 02.09.2014, the matter was transferred to the Hon'ble NGT with the following observations:

"...handling of solid municipal waste is a perennial challenge and would require constant efforts and monitoring with a view to making the municipal authorities concerned accountable, taking note of dereliction, if any, issuing suitable directions consistent with the said Rules and direction incidental to the purpose underlying the Rules such as upgradation of technology wherever possible..."

And whereas after the notification dated 08.04.2016 of SWM Rules, 2016, the Hon'ble NGT vide order dated 22.12.2016 disposed of the aforementioned case (OA No. 199 of 2014 titled



Order of Worthy Chief Secretary, Govt. of NCT of Delhi in respect to Order dated 16.02.2023 of Hon'ble NGT in OA No. 606 / 2018 regarding Compliance of Municipal Solid Waste Management Rules, 2016 and other Environmental Issues.

"Almitra H. Patel vs. Union of India & Ors.") with clear comprehensive directions including the following:

- (i) Every State and Union Territory shall enforce and implement the Solid Waste Management Rules, 2016 in all respects and without any further delay.
- (ii) The directions contained in this judgment shall apply to the entire country. All the State Governments and Union Territories shall be obliged to implement and enforce these directions without any alteration or reservation.
- (iii) All the State Governments and Union Territories shall prepare an action plan in terms of the Rules of 2016 and the directions in this judgment, within four weeks from the date of pronouncement of the judgment. The action plan would relate to the management and disposal of waste in the entire State. The steps are required to be taken in a time bound manner. Establishment and operationalization of the plants for processing and disposal of the waste and selection and specifications of landfill sites which have to be constructed, be prepared and maintained strictly in accordance with the Rules of 2016.
- (iv) The period of six months specified under Rule 6(b), 18, 23 of the Rules of 2016 has already lapsed. All the stakeholders including the Central Government and respective State Governments/UTs have failed to take action in terms thereof within the stipulated period. By way of last opportunity, we direct that the period of six months shall be reckoned w.e.f. 1st January, 2017. There shall be no extension given to any stakeholders for compliance with these provisions any further.

The period of one year specified under Rule 11(f) 12(a), 15(e), 22(1) and 22(2) has lapsed. The concerned stakeholders have obviously not taken effective steps in discharging their statutory obligations under these provisions. Therefore, we direct that the said period of one year shall commence with effect from 1st July, 2017. For this also, no extension shall be provided. Any State or Union Territory which now fails to comply with the statutory obligations as afore indicated shall be liable to be proceeded against in accordance with Section 15 of the Environment (Protection) Act, 1986. Besides that, it would also be liable to pay environmental compensation, as may be imposed by this Tribunal. In addition to this, the senior most officer in-charge in the State Government/Urban Local Body shall be liable to be personally proceeded against for violation of the Rules and orders passed by this Tribunal.

- (v) In Waste to Energy plant by direct incineration, absolute segregation shall be mandatory and be part of the terms and conditions of the contract.
- (vi) The tipping fee, wherever payable to the concessionaire/operator of the facility, will not only be relatable to the quantum of waste supplied to the concessionaire/operator but also to the efficient and regular functioning of the plant. Wherever, tipping fee is related to load of the waste, proper computerised weighing machines should be connected to the online system of the concerned departments and local authorities mandatorily.
- (vii) Wherever, the waste is to be collected by the concessionaire/operator of the facility, there it shall be obligatory for him to segregate inert and C&D waste at source/collection point and then transport it in accordance with the Rules of 2016 to the identified sites.



- (viii) We expect all the concerned authorities to take note of the fact that the Rules of 2016 recognize only a landfill site and not dumping site and to take appropriate actions in that behalf

1.2 OA No. 606 / 2018 before Hon'ble NGT

And whereas, the Hon'ble NGT has been monitoring the compliance of SWM Rules, 2016 and other important environmental issues in OA No. 606 / 2018 and passed orders from time to time, including orders dated 16.01.2019, 11.03.2019 and 30.11.2021. In this matter the Chief Secretaries of all the States are being called for giving status of compliance in their respective states. This matter in respect of Delhi was heard by the Hon'ble NGT on 16.02.2023 in the presence of the Chief Secretary, Government of National Capital Territory of Delhi (GNCTD).

And whereas, vide order dated 16.01.2019, Hon'ble NGT in the instant case directed the Chief Secretaries to file Status / compliance of SWM Rules 2016, other Rules and some of the orders passed for control of water and air pollution.

And whereas, in compliance of this order dated 16.01.2019, an affidavit was filed by Chief Secretary, Delhi before Hon'ble NGT on 08.03.2019 giving status of compliance of SWM Rules, 2016; Construction and Demolition Waste Management Rules, 2016; Plastic Waste Management Rules, 2016; and Bio-Medical Waste Management Rules, 2016.

And whereas, in compliance to the orders dated 16.01.2019 of the Hon'ble NGT in OA No. 606 / 2018, a State Level Committee (SLC) headed by Chief Secretary was constituted vide office order dated 15.02.2020 for a period of six months. Later on, term of the SLC was extended from time to time vide various office orders and last order regarding extension of term of SLC by one year has been issued on 15.02.2023.

And whereas, Special Task Forces (STFs) for each District were constituted by Environment Department, GNCTD vide office order dated 07.03.2019 & 16.04.2019. Subsequently modified office order dated 20.03.2020 was issued constituting revised STFs for each district headed by concerned ADM for creating awareness regarding SWM, river pollution etc. by involving educational, religious and social organizations including local eco-clubs.

And whereas, as per Hon'ble NGT's order dated 11.03.2019, three Model wards / zones / circles in the areas of each Municipal Corporation (North DMC, SDMC, EDMC, DCB & NDMC) were to be made fully compliant within next six months (i.e., by 10.09.2019) and remaining wards / zones / circles were to be made fully compliant in respect of environmental norms within one year of said order (i.e., by 10.03.2020).

And whereas, North DMC, SDMC, EDMC & DCB notified three wards in their areas as model wards. Whole NDMC area (having 14 Circles) has been declared / decided to be developed as model area in respect of compliance with SWM Rules, 2016 and names of Model Wards were displayed on the website of the concerned Municipal Corporations (before unification).



1.3 OA No. 519 / 2019 in the matter of news item published in "The Times of India"
And whereas, vide order dated 17.07.2019, Hon'ble NGT in OA No. 519 / 2019 in the matter of news item published in "The Times of India" titled "Below mountains of trash lie poison lakes" and OA No. 386/2019 in the matter of "Centre for Wildlife and Environment Litigation" Vs "Union of India & Ors" dealt with the issue of legacy waste at the three Dumpsites at Ghazipur, Bhalswa and Okhla in Delhi.

And whereas, in the said matter the Hon'ble NGT has passed detailed order regarding disposal of 'Legacy' waste dumped at Bhalswa, Ghazipur and Okhla Dumpsites and given various directions and Hon'ble NGT directed the Municipal Corporations (before unification) to go for bio mining using trommels instead of capping of the dump sites at Bhalswa, Ghazipur and Okhla.

And whereas, as directed by the Hon'ble NGT, the Committee headed by Chief Secretary, GNCTD was constituted vide order dated 25.07.2019 and ESCROW accounts for North Delhi Municipal Council (North DMC), East Delhi Municipal Council (EDMC) and South Delhi Municipal Council (SDMC) were opened.

And whereas, in pursuance of the order dated 23.03.2020 of the Hon'ble NGT in the above mentioned case, an integrated Special Purpose Vehicle (SPV) headed by Chief Secretary was constituted vide order dated 14.07.2020 for the scientific management, processing and disposal of Legacy Waste in Delhi.

And whereas, as per the said order, a Joint Committee comprising representatives of CPCB, NEERI and IIT Delhi assessed the amount of damage to environment as Rs 449.5 crores, on the three erstwhile Delhi Municipal Councils (DMCs) due to three dumpsites in Delhi.

And whereas, Hon'ble NGT disposed of the above-mentioned case vide order dated 29.01.2021 with following directions:

"Accordingly, we direct the NCT Delhi and the Municipal Corporations concerned to coordinate and execute the work of remediating the legacy waste dump sites for enforcing the rule of law and protection of environment and public health, expeditiously in terms of earlier orders of this Tribunal. Due care has to be taken for preventing fire accidents on the landfill sites and maintaining stability of the dumps. The Chief Secretary, Delhi, may continue to hold meetings for coordination with all the stake-holders, at least once in a month, as earlier directed to device ways and means to expedite the pending work, including coercive measures against those responsible for delay. The CPCB is at liberty to recover the compensation already assessed, with further compensation for continuing damage till compliance of law, following due process of law. The amount of recovered compensation be spent on restoration of environment in Delhi."

And whereas, following timelines for remediation of legacy waste at three dumpsites in Delhi were earlier submitted to Hon'ble NGT on 21.01.2021 by the erstwhile 3 DMCs:

Dumpsite	Timeline for 100% remediation
Ghazipur	September, 2024
Bhalswa	June, 2022
Okhla	March, 2023

And whereas, Rs 245 Crores deposited in the three Escrow Accounts created for Bio-mining of the three Dumpsites in Delhi were released by the Urban Development Department, GNCTD to erstwhile 3 DMCs and the said amount reportedly has already been utilised but the situation has not been improved significantly.

And whereas, the time lines of 5 years given under the Rule 22 of the SWM Rules, 2016 for Bio-remediation of dumpsites is already over and only about 72.41 Lakh Ton (25.86 % of the Total Legacy Waste of 280 Lakh Ton as on July, 2019) has been bio-mined from the three Dumpsites as on 28.02.2023.

1.4 OA No. 288 / 2022 (Case related to Fire Incidents at Ghazipur Dumpsite) and OA No. 300/2022 (Case related to Fire Incidents at Bhalswa)

And whereas, Hon'ble NGT vide Order dated 22.04.2022 in OA No. 288 / 2022 (Case related to Fire Incidents at Ghazipur Dumpsite) and Order dated 27.04.2022 in OA No. 300/2022 (Case related to Fire Incidents at Bhalswa) constituted two Committees both headed by Justice S. P. Garg, former Judge, Delhi High Court with members from CPCB, DPCC, UD Department of GNCTD, concerned DMC, DM, DCP & DDMA.

And whereas, both the Committees headed by Justice S.P. Garg, former Judge, Delhi High Court submitted Interim Reports in above mentioned two cases before the Hon'ble NGT on 31.07.2022 (in case of Ghazipur Dumpsite) & 21.09.2022 (in case of Bhalswa Dumpsite).

And whereas, Hon'ble NGT vide order dated 11.10.2022 in the above mentioned two cases imposed Environmental Compensation of Rs 900 Crores [@ Rs. 300 per MT for 300 Lakh MT of Legacy Waste at three Dumpsites in Delhi) on the GNCTD with other directions as mentioned in the said order.

1.5 Recent order in OA No. 606 / 2018 entitled "Compliance of Municipal Solid Waste Management Rules, 2016 and other Environmental Issues"

And whereas, the Hon'ble NGT again took up the matters of SWM and Sewage Management in Delhi in OA No. 606 / 2018 entitled "Compliance of Municipal Solid Waste Management Rules, 2016 and other Environmental Issues" on 16.02.2023 and after hearing the Chief Secretary, GNCTD passed detailed orders.

And whereas, in the said order, Hon'ble NGT has highlighted the continued failure of the authorities in handling solid waste in spite of repeated orders including the last order dated 11.10.2022 in OA No. 300/2022, and after monitoring of the matter by the Hon'ble Supreme Court and the Hon'ble NGT in the last 27 years, and highlighted that a


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paradigm shift in approach is required, with need for taking urgent measures to ensure that entirety of solid waste generated is simultaneously processed and legacy waste is remediated without any further delay, taking emergent measures.

And whereas, a Solid Waste Monitoring Committee (SWMC) of concerned authorities in Delhi headed by Hon'ble Lieutenant Governor, Delhi, with the Chief Secretary, GNCTD, as Convener has been constituted by the Hon'ble NGT vide said order dated 16.02.2023 for Solid Waste Monitoring consisting of (i) Secretaries of the Urban Development Department, Forest and Environment Department, Agriculture Department, and Finance Department of GNCTD; (ii) Vice Chairman, DDA, (iii) Secretary or his nominee of the Ministry of Agriculture, GoI; (iv) DG Forest or his nominee, MoEF&CC, GoI; (v) Secretary, Ministry of Housing and Urban Affairs or his nominee; (vi) Secretary, MoEF&CC, GoI or his nominee; (vii) Chairman CPCB, Commissioner, Municipal Corporation of Delhi (MCD); and (viii) jurisdictional District Magistrates and DCPs, as members of SWMC.

And whereas, *vide* the said order the abovesaid committee has been asked by the Hon'ble NGT to deal with all issues relating to SWM including **setting up of new waste processing facilities, augmenting existing waste processing facilities and remediation of legacy waste sites.**

And whereas, the Hon'ble NGT *vide* same order asked the SWMC for Solid Waste Monitoring that it may also coordinate with all other departments, to the extent necessary, and may meet physically within one week and take stock of the situation with regard to the directions of the Tribunal, extent of compliance, extent of non-compliance, proposed remedial action for compliance of law, updated plan for compliance of directions, sources of funding, utilization of ring-fenced environment compensation and more as per need, accountability for past failures, methodology for execution of the projects, timelines consistent with the spirit of orders of the Hon'ble Supreme Court and this Tribunal, and the Committee may thereafter continue to meet at least once in every week for next six months so as to achieve tangible results within the said period.

And whereas, the Hon'ble NGT also asked SWMC for Solid Waste Monitoring to consider opening separate dedicated account (including ring-fenced account), hire dedicated subject matter experts, coordinate with and take on board existing departments, agencies and stake holders, civil society, including voluntary organizations and, may also set up its website and place its proceedings on the said website for information of all concerned and also to enable public participation.

And whereas, the Hon'ble NGT further asked SWMC for Solid Waste Monitoring that the timelines prepared be shortened and adhered to with laid down penal consequences against violations, and, officers of rank of Chief Engineers, given responsibility, be named for fixing responsibility for remediation of three sites as well as setting up of waste processing facilities.

And whereas, it was mentioned by Hon'ble NGT that success of the SWMC for Solid Waste Monitoring will be viewed by outcome in terms of reduction of existing legacy waste quantum, reclamation of land and addressing the current gap in generation and treatment of waste and thus targets of the SWMC for Solid Waste Monitoring should be measurable and identifiable.

2 And whereas, keeping in provision the present status and action plan in this regard as submitted by concerned Departments / Authorities for the purpose of monitoring important parameters for effective Solid Waste Management, the Department wise action plans for solid waste management in Delhi, are at **Annexures 1-19.**

3 And whereas, the following decisions were taken by the SWMC for Solid Waste Monitoring w.r.t. setting up of new waste processing facilities, augmenting existing waste processing facilities and remediation of legacy waste sites and compliance with SWM Rules, 2016:

3.1 100% Segregation of MSW at Source

- a) New Delhi Municipal Council (NDMC) informed that segregation of 100% of MSW at source is done in all the 14 circles under its jurisdiction.
- b) Delhi Cantonment Board (DCB) informed that it achieved 100% segregation in 3 wards and should achieve 100 % segregation in remaining 5 wards by 31st July, 2023.
- c) Municipal Corporation of Delhi (MCD) informed that 50% segregation of MSW is presently being done in all the 250 wards. MCD shall achieve 75% segregation by 31st December, 2023 and achieve 100% segregation by 31st December, 2024. Ward / circle / zone wise generation of MSW is at **Annexure 1** and ward/circle/zone wise timelines for **ensuring** 100% segregation of MSW at source along with responsible officers is at **Annexure 2.**
- d) **Since ward-wise accountability for 100% segregation of MSW at source needs to be ensured, therefore, MCD was directed to submit ward-wise timelines and responsible officers by 15th April, 2023 to the Convener of the SWMC for Solid Waste Monitoring.**

3.2 100% Door to Door Collection of MSW

MCD, NDMC and DCB confirmed 100% Door to Door Collection of MSW in all their wards / circles as per the SWM Rules, 2016. It was directed that 100% collection shall be continuously ensured, without fail. Ward/circle wise details of Door-to-Door Collection of MSW along with responsible officers is at **Annexure 3.** A performance audit shall be completed by 30th September, 2023, as detailed subsequently at para 3.8.4.

3.3 Closure of Dhalaos

- i) It was informed by NDMC and DCB that there are no *dhalaos* existing in their jurisdictional areas, while at the same time *dhalaos* are still operational in MCD areas as secondary storage points, and in order to maintain a garbage free city, these points need to be discouraged for functional and aesthetic reasons.

(ii) MCD submitted that the corporation shall ensure closure of existing 638 *dhalao*s by 31st December 2024 and some *Dhalao*s 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 *dhalao*s planned to be retained shall be submitted by MCD by 15th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring.

(iii) The status of existing *dhalao*s, zone wise along with concerned officers is at **Annexure 3**.

3.4 100 % Transportation of MSW

(i) It was observed that before deciding the number of vehicles for collection, both primary and secondary, it is necessary to assess the amount of waste generated.

(ii) NDMC and DCB informed that sufficient vehicles, 70 and 41 vehicles respectively, are in service with GPS facility for transportation of entire MSW generated in their respective jurisdictional areas.

(iii) MCD informed that it is having 8324 numbers of vehicles in service presently [out of which 2650 vehicles are with Global Positioning System (GPS) facility] for transportation of MSW, which deemed sufficient by the MCD. However, it was observed that there is still a significant number of vehicles which are unmonitored through GPS. The 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 to the Convenor of the SWMC for Solid Waste Monitoring.

(iv) Details of available vehicles and officer responsible for monitoring GPS feed of transportation is at **Annexure 4**.

(v) It was decided that all Urban Local Bodies (ULBs) in Delhi shall ensure that all vehicles must mandatorily have GPS facility and a Central Monitoring Mechanism shall also be instituted to monitor the vehicles movement and scientific disposal of MSW at designated facilities, as per SWM Rules, 2016.

(vi) It was decided that a dashboard shall be placed in public domain for transparency and community engagement by 31st July, 2023.

3.5 Sorting and recovery of recyclables and processing of solid waste

3.5.1 Setting up of Material Recovery Facilities (MRFs)

(i) It was observed that facilities where non-combustible solid waste can be temporarily stored by the ULBs to facilitate segregation, sorting and recovery of various components of waste by informal sector of waste pickers or any other work force engaged for the purpose before the waste is delivered or taken up for its processing or disposal, are essential towards efficient solid waste management.

(ii) It was also observed that at present there are 170 existing Material Recovery Facilities (MRFs) with a capacity of only 317 TPD, consisting of 156 MRFs of 253 TPD with MCD,



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11 MRFs of 50 TPD with DCB and 03 MRFs of 14 TPD with NDMC. Capacity utilization of these facilities is a connected parameter which needs equal attention and accountability.

(iii) It was further observed that there is a probable gap of 3966 TPD (considering 35 % of MSW as recyclable MSW), which needs to be ascertained by the ULBs, so that sufficient MRFs are available for sorting and recovery of all the MSW generated. NDMC & DCB informed that there is no requirement of MRFs in their jurisdictional areas.

(iv) It was further observed that all the three urban local bodies shall get a professional assessment on the requirement of MRFs completed by 30th June, 2023 as per extant rules and regulations.

(v) Details of existing MRFs along with the responsible officers for ensuring 100% capacity utilisation is at **Annexure 5**.

3.5.2 Setting up of processing facilities:

(i) **Existing MSW processing Facilities:** It was informed by the ULBs that presently processing facilities with a capacity of 8229 TPD is available with MCD, NDMC and DCB. Details of the existing MSW processing facilities in respective areas is at **Annexure 6**.

(ii) **Proposed MSW Processing Facilities:** It was observed that setting-up of new MSW processing facilities as well as projects aiming at augmenting existing MSW processing facilities are essential to ensure 100% processing of municipal solid wastes generated and to fill up the existing processing gap. It was informed by the ULBs that an additional capacity of 6470 TPD shall be operationalized by August, 2027 by ULBs. A break up of the additional capacities so planned along with detailed project wise timelines and responsible officers is at **Annexure 7**.

(iii) **Decentralized Waste Processing Facilities by Bulk Waste Generators (Generating more than 100 kg/day)** - As per the Solid Waste Management Rules, 2016, the bio-degradable waste generated by bulk waste generators shall be processed, treated, and disposed of through composting or bio-methanation within the premises as far as possible. The residual waste shall be given to the waste collectors or agency as directed by the local body. DCB informed that there is no Bulk Waste Generator (BWG) in their jurisdictional area. NDMC listed out around 28 BWGs in their jurisdictional area, who have already installed Decentralized Waste Processing Facilities (DWPFs). MCD listed 184 BWGs and informed that they are in the process of data collection of BWGs in all of 12 zones of MCD along with status of DWPFs in such BWGs. It was decided that this data shall be provided by MCD by 30th April, 2023 to the Convenor of the SWMC for Solid Waste Monitoring.

(iv) It was further observed that, in a nutshell, the information is deficient and all the three ULBs i.e., MCD, NDMC and DCB shall have to comprehensively inventorise all the BWGs generating more than 100kg /day in their areas such as Airport, Railway Stations, Metro Stations, ISBTs, APMCs, Gated communities, Universities/ Educational campus, Hospitals / Health Care Establishments, Hotels, Restaurants, Places of Worship, Stadium

/ Sports Complex, Govt. Departments / PSUs, etc. and ensure that they process their bulk waste generated through DWPFs set up within their premises.

- (v) 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. Preliminary details of wards / circles/ zones received as of now are given at **Annexure 8**.

3.6 Legacy waste remediation

3.6.1 Bio-mining of Legacy Waste at 3 Dumpsites

- (i) It was observed that the time lines of 5 years statutorily prescribed under Rule 22 of the SWM Rules, 2016 for bio-remediation of dumpsites have already been breached and only about 72.41 Lakh Ton [25.86% of the total legacy waste of 280 Lakh Ton (as on July, 2019)] has been bio-mined from the three Dumpsites as on 28.02.2023.
- (ii) It was further observed that the timelines for biomining of legacy waste have been continuously revised at various points of time and it is extremely important that the legacy waste dump sites in Delhi are remediated at the shortest possible time with clear responsibilities to curb methane gas, foul smell, and leachate and to release valuable land occupied by such sites.
- (iii) It was also observed that at present 49 trommels of 25,000 TPD capacity are operational at 3 dumpsites. Accordingly, it was decided that MCD shall engage additional 10 trommels (5,200 TPD capacity) by 30th June, 2023. But to achieve the 100% biomining targets within timelines, it was also decided that 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.
- (iv) MCD submitted that bio-mining of legacy wastes would be completed by May, 2024. Details of the officers responsible for achieving 100% biomining within timelines are at **Annexure 9**.
- (v) 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.



3.6.2 Disposal / Utilization of Inert, C&D waste, and RDF generated from Bio-mining of Legacy Waste

- (i) One of the crucial links in management of remediation work based on bio-mining and bio-remediation is the utilization and disposal of rejects like inert, RDF, and stabilized bio-earth. Segregated fractions and components shall be safely utilized and disposed.
- (ii) It was informed by MCD that inert amounting to 55-75% (estimated) of entire legacy waste shall be generated out of biomining. MCD was accordingly directed to ensure 100% disposal/ utilization of inert generated from Bio-mining of Legacy Waste including the legacy waste dumped below the ground level through NHAI, CPWD, PWD and other construction agencies including MCD. Details of disposal / utilization of inert material to be generated and responsible officers are at **Annexure 10**.
- (iii) It was informed by MCD that C&D waste amounting to 10-20% (estimated) of entire legacy waste shall be generated out of biomining. MCD was accordingly directed to ensure 100% disposal/ utilization of C&D Waste generated from Bio-mining of legacy waste through NHAI, CPWD, PWD and other construction agencies including MCD. Details of disposal / utilization of C&D Waste to be generated and responsible officers are at **Annexure 11**.
- (iv) It was informed by MCD that RDF amounting to 05 - 20% (estimated) of entire legacy waste shall be generated out of biomining. MCD was accordingly directed to ensure 100% utilization of RDF generated from Bio-mining of Legacy waste through existing Waste to Energy Plants in Delhi & in Neighbouring States and Cement Factories etc. Details along with responsible officers are at **Annexure 12**.

3.6.3 Treatment of Leachate generated from 3 Dumpsites

- (i) It was observed that there is no provision presently for treatment of leachate generated from three dumpsites in Delhi, and that Hon'ble Courts consistently pointed out that leachate should be controlled and treated scientifically.
- (ii) It was therefore decided that 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.

3.6.4 Prevention of Fire Incidents at Dumpsites

- (i) It was decided that MCD shall take necessary action for prevention of fire Incidents at the three Dumpsites and ensure that there is no fire incident in future particularly in summer season as per the recommendations of the Joint Committee Headed by Hon'ble Justice (Retd) Sh. S.P. Garg and orders passed by the Hon'ble NGT in OA No. 300 / 2022 and OA No. 288 / 2022.



- (ii) It was further observed that a hotter than normal summer is predicted by IMD during this year, therefore, MCD shall duly factored in the same while taking the above mentioned action.
- (iii) Details of preventive measures (CCTV Cameras, Fire Tenders/ Water Tankers/ Manpower for vigilance etc.) available in place and proposed along with responsible officers is at **Annexure 13**.

3.6.5 Existing and Proposed Engineered Sanitary Land Fill

- (i) It was observed that at present there is only one operational Engineered Sanitary Landfill at Bawana for final disposal of inerts of WtE/processing facilities and construction of the second Engineered Sanitary Land Fill facility is under progress at Tehkhand.
- (ii) It was decided that MCD shall complete commissioning of the Tehkhand facility by 31st July, 2023.
- (iii) Details and responsible officer are at **Annexure 14**.

3.7 Management of Other Wastes

3.7.1 100% Collection, Transportation & Disposal of Domestic Hazardous Waste and Sanitary Waste

- (i) It was observed that around 34.5 TPD of **Domestic Hazardous Waste** is being generated in Delhi which is around 0.3 % of MSW generation. As per Rule 15(j) of the Solid Waste Management Rules, 2016 safe storage and transportation of domestic hazardous waste to hazardous waste disposal facility shall be ensured by ULBs.
- (ii) NDMC informed that they have system of collection for Domestic Hazardous Waste and Sanitary waste on daily basis during day-to-day collection through compartmentalized vehicles in each sanitation circles and that Dry waste is further segregated at WTE plant.
- (iii) DCB informed that 100% Sanitary and Bio-medical waste is handed over to a Common Biomedical Waste Treatment Facility (CBWTF) for disposal and not to hazardous waste disposal facility. 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.
- (iv) It was decided that 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 bio-medical waste at CBWTF and other domestic hazardous waste at the TSDF for Hazardous Waste at Bawana by 31st July, 2023.
- (v) Zone/ Ward / Circle Wise details of quantum of Sanitary Waste and Domestic Hazardous Waste generation and Timelines for 100% Collection, Transportation & Disposal of Sanitary Waste and Domestic Hazardous Waste at the designated Authorised Facilities in Delhi along with the responsible officers is at **Annexure 15**.



3.7.2 100 % Collection, Transportation & Disposal of Street Sweepings and Silt Removed / Collected from the Surface Drains

- (i) ULBs informed that 429 TPD of Street Sweepings, including MRS dust and drain silt, is generated in Delhi, which is currently been disposed at the three dumpsites, Okhla and Badapur by MCD, NDMC and DCB respectively. Since street sweeping or dust and silt removed from the surface drains are "inerts" which are not bio-degradable, recyclable or combustible; their disposal needs to be planned accordingly.
- (ii) It was decided that 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.
- (iv) Ward/Circle/Zone wise details of quantum of Street Sweepings and Silt Removed / Collected from the Surface Drains along with the responsible officers is at **Annexure 16**.

3.7.3 100 % Collection, Transportation & Recycling/Processing of Plastic Waste

- (i) It was observed that 1113.2 TPD of plastic waste is generated in Delhi which is about 10% of MSW generation. NDMC (9.25 TPD) and DCB (4 TPD) are recycling/ processing 100% of plastic waste generated in their area of jurisdiction, whereas MCD is recycling/ processing only 78% of plastic waste generated (about 858 TPD of 1100 TPD). Therefore, it was decided that MCD shall ensure 100 % processing / recycling of plastic waste by June, 2024.
- (ii) It was further decided that MCD should effectively ensure 100% Collection, Transportation, recycling/ processing of Plastic Waste in its area of jurisdiction as per the provisions of the Plastic Waste Management Rules and SWM Rules, 2016 and make necessary arrangements in this regard.
- (iii) Details of ward/ circle/ zone wise quantum of plastic waste generation, collection, transportation & recycling / processing / gaps in Delhi and timelines for 100% processing / recycling of plastic waste along with the responsible officers is at **Annexure 17**.

3.7.4 100% Collection, Transportation & Recycling/Processing of Dairy Waste

- (i) It was observed that as per the "Guidelines for Environmental Management of Dairy Farms and Gaushalas" by Central Pollution Control Board (CPCB), July, 2020, local bodies should carry out inventory of the dairy farms and gaushalas located in their jurisdiction in the modified inventory proforma of abovesaid guidelines, and the same should be updated and shared with the concerned State Pollution Control Boards (SPCBs) / Pollution Control Committees (PCCs) on annual basis (calendar year wise).
- (ii) NDMC and DCB informed that there is no dairy functioning in their jurisdictional area.
- (iii) It was observed that 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 abovesaid 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.

3.7.5 100% Collection, Transportation & Processing/ Disposal of Horticultural Waste

- (i) It was reported by NDMC & DCB that around 10.6 TPD of horticultural waste is generated under their jurisdiction and that NDMC (6.6 TPD) and DCB (4 TPD) are processing 100% of the horticultural waste generated in their respective areas of jurisdiction.
- (ii) It was informed that the horticultural waste generated in MCD area is reported as 3 TPD, which prima-facie appears to be erroneous and hence it was decided that 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.
- (iii) Ward/circle wise details of horticultural waste generation, collection, and processing in NDMC and DCB along with the responsible officers is at **Annexure 18**.

3.7.6 100 % Collection, Transportation & Processing/Disposal of Slaughter House Waste

- (i) It was reported by MCD and DCB that around 4.77 TPD of slaughter house waste [Buffaloes Goats, Poultry, Fisheries etc.] is generated in Delhi. There is no slaughter house waste been generated in NDMC area, whereas DCB and MCD (0.075 TPD and 4.7 TPD respectively) are processing 100% slaughter house waste generated in their areas of jurisdiction.
- (ii) Details of slaughter house waste generation, collection, and processing along with officers responsible for collection, transportation & processing / disposal as per environmental norms is at **Annexure 19**.

3.8 Other decisions taken by SWMC for Solid Waste Monitoring

3.8.1 Meetings of the SWMC for Solid Waste Monitoring

SWMC for Solid Waste Monitoring decided that an alternate weekly meeting may be chaired by the Chief Secretary / Convener of SWMC for Solid Waste Monitoring (physical-cum-virtual meeting) and that Hon'ble Lt. Governor will take fortnightly meeting (physical meeting only).



3.8.2 Assessment of Solid waste generation

- (i) It was observed that the quantum of solid waste generation reported by MCD remained about 11000 TPD since 2020 and has not been re-assessed regularly as per guidelines of Swachh Bharat Mission.
- (ii) Therefore, it was decided that assessment and characterisation of wastes should be conducted by all ULBs by 31st July, 2023 in order to optimise processing and reduce materials disposed in the landfill. Waste quantification assessment on a regular basis, would be an important indicator for monitoring the collection efficiency of the ULB. During assessment, the solid waste generation in respective areas of ULBs in terms of various types of solid waste mentioned in the SWM Rules, 2016 shall form the basis of assessment.
- (iii) It was also decided that a 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.

3.8.3 Computerised weighing of MSW

- (i) It was observed that the tipping fee, wherever payable to the concessionaire / operator of the facility, will not only be relatable to the quantum of waste supplied to the concessionaire / operator but also to the efficient and regular functioning of the plant.
- (ii) Therefore, it was decided that 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.

3.8.4 Third Party Audit of solid waste management and compliance with the SWM Rules, 2016.

- (i) It was decided that MCD, NDMC and DCB shall also 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.
- (ii) It was further decided that MCD, NDMC and DCB shall award the work within a fortnight and shall complete the audit by 30th September, 2023.

3.8.5 Use of reclaimed land occupied by legacy waste sites

It was decided that reclaimed land occupied by legacy waste sites shall be used as per the order dated 16.02.2023 of Hon'ble NGT in OA No. 606/2018 and briefed below:



- (i) One-third of land occupied by legacy dump sites (on reclamation) needs to be reserved for dense forest and in the process of afforestation, Compensatory Afforestation Fund Management and Planning Authority (CAMPA) Funds can be utilized in accordance with the provisions of Compensatory Afforestation Fund Management and Planning Authority Act, 2016 (CAMPA Act).
- (ii) Further, one-third of reclaimed land out of the said dump site needs to be reserved for integrated waste management facilities.
- (iii) Remaining one-third of reclaimed land can be used for any other purpose, consistent with the above purposes, including a part of it being utilized for monetizing, if funding is required for tackling the legacy waste.
- (iv) It may not be necessary to search for new lands for waste processing facilities if facilities are set-up at on reclaimed land.

It was, therefore, decided that 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 Convener of the SWMC for Solid Waste Monitoring.

3.8.6 Assessment of construction and demolition waste generated:

- (i) It was observed that the quantum of construction and demolition (C&D) waste generated in Delhi as per the annual report of 2021-22 is about 3500 TPD which is almost same since 2019. As per the C&D Waste Management Rules, 2016, local bodies shall keep track of the generation of C&D waste within its jurisdiction and establish a data base and update once in a year.
- (ii) Since it is very essential that regular assessment of C&D waste generated is done using up to date waste quantification methodologies through expert institution reputed in the field, so that entire generation in Delhi is effectively processed and the serious problems posed by unprocessed C&D waste is addressed holistically particularly in residential, institutional, industrial or commercial construction hotspots, therefore, it was decided that 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 Convener of the SWMC for Solid Waste Monitoring.

3.8.7 Solid Waste Management in Industrial Areas

- (i) It has been observed that Solid Waste Management in Industrial Areas (planned industrial areas as well as redevelopment industrial areas) is not being addressed properly due to lack of clarity in the Solid Waste Management Rules, 2016 particularly the management of general solid waste (other than hazardous waste, e-waste, battery waste etc.) generated from the industries operating the various industrial areas in Delhi and the agency responsible for management of general solid waste.



- (ii) SWMC for Solid Waste Monitoring decided to constitute a 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 solid waste (other than hazardous waste, e-waste, battery waste etc.) management 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.

3.8.8 Monitoring of projects through Delhi's e-Samiksha Dashboard - SWMC for Solid Waste Monitoring also decided that IT Department of GNCTD shall add all the above-mentioned actionable points on Delhi's e-Samiksha Dashboard for the purpose of monitoring. It was further decided that such Dash Board shall be made operational within a fortnight.

3.8.9 Committee to identify and hand over land to ULBs

SWMC for Solid Waste Monitoring decided to constitute a 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.

3.8.10 Campaign for Awareness and Involvement of Public

- (i) SWMC for Solid Waste Monitoring decided that the MCD, NDMC, DCB and Environment Department of GNCTD shall initiate an IEC campaign for awareness as well as involvement of the public at large in this initiative to manage solid waste sustainably.
- (ii) A detailed IEC plan in this regard including an annual calendar of IEC activities shall be submitted by all agencies to the Convener of this SWMC within a fortnight, including mechanisms for implementation and monitoring of IEC identifying the key behaviours in segregation of solid waste; messages to be used for these key behaviours; stakeholder groups to be addressed; the medium through which these messages will be conveyed; and influencers who will communicate these messages, employing an appropriate channel mix of mass media, print, outdoor publicity, capacity building/awareness workshops, competitions, and digital media.
- (iii) It was also decided that Special Task Forces (STFs) for each District constituted by Environment Department, GNCTD vide office order dated 20.03.2020 for awareness generation as well as community engagement, headed by concerned ADMs, shall create awareness regarding all aspects of solid waste management by involving educational, religious and social organizations including local eco-clubs.



- (iv) It was further decided that office of the Divisional Commissioner shall compile monthly reports and submit the same regularly to the Convener of the SWMC for Solid Waste Monitoring.

3.8.11 Enforcement of byelaws

- (i) It was observed that State Policy and Solid Waste Management Strategy for Delhi has been notified by Urban Development Department, GNCTD on 03.11.2017. Further, Bye-laws for Solid Waste Management have already been notified on 15.01.2018 in respect of all the ULBs (MCD, NDMC and DCB) in Delhi. However, provisions of these bye laws are yet to be enforced by the ULBs in their area of jurisdiction.
- (ii) Therefore, SWMC for Solid Waste Monitoring decided that the Secretary, Urban Development Department, GNCTD shall ensure enforcement of these bye laws by the ULBs and submit monthly reports only in digital mode (first week of every month) in this regard to the Convener of the SWMC for Solid Waste Monitoring.

3.8.12 Responsibilities and Liabilities

To ensure clarity in ownership of work, clear responsibilities, complete adherence to deadlines and the accountability of officers directly dealing with it, it was decided that the Nodal officers with respect to each project shall be personally responsible for ensuring completion of the project within the above-mentioned timelines, and any failure of such nodal officer to ensure execution of the projects / works / responsibilities within the timeline will make such nodal officer liable for disciplinary as well as criminal proceedings for wilful disobedience of the orders passed by the Hon'ble Courts, the SWMC for Solid Waste Monitoring and also for criminal disregard towards their failure to discharge their constitutional obligation to the citizens to provide clean environment by effective solid waste management in Delhi.

3.8.13 Setting up of Secretariat of SWMC for Solid Waste Monitoring

- (i) It was observed that Hon'ble NGT asked SWMC for Solid Waste Monitoring to consider opening separate dedicated account (including ring-fenced account), hire dedicated subject matter experts, coordinate with and take on board existing departments, agencies and stake holders, civil society, including voluntary organizations and, may also set up its website and place its proceedings on the said website for information of all concerned and also to enable public participation.
- (ii) It was therefore decided to set-up a Secretariat of SWMC for Solid Waste Monitoring so that appropriate measures in a timely manner can be taken up by the SWMC for Solid Waste Monitoring and for this purpose it was decided that DPCC shall engage at least three personnel (not below the rank of Joint Secretary to the GNCTD / Under Secretary to the Govt. of India – Level 11 post under 7th CPC) within a months' time and that further manpower including consultants and young professionals may be engaged by DPCC through Broadcast Engineering Consultants India Limited (BECIL), a Govt. of India Enterprise under the Ministry of Information and Broadcasting, or any other agency of the Government of NCT of Delhi.



- (iii) It was also decided that DPCC shall engage 2 electric four wheelers and 4 electric two wheelers to constitute dedicated mobile monitoring teams with in-vehicle monitoring and tracking systems for enhanced capabilities in terms of efficient mobility for monitoring purposes.

4 Order

Now, therefore, the SWMC for Solid Waste Monitoring ordered accordingly and directed that a copy of this order be also placed before Hon'ble NGT.


(Naresh Kumar)

Chief Secretary, Govt. of NCT of Delhi
Convener of SWMC for Solid Waste Monitoring

Enclosures: As above

Copy for taking necessary action to:

1. Chairman, Delhi Pollution Control Committee, 5th Floor, Delhi Secretariat.
2. Vice Chairman, Delhi Development Authority, Vikas Sadan, INA, Delhi.
3. Secretary, Department of Information Technology, Govt. of NCT of Delhi, 9th Floor, Delhi Secretariat.
4. Principal Secretary (Environment & Forest), Govt. of NCT of Delhi, 6th Floor, Delhi Secretariat.
5. Principal Secretary (PWD), Govt. of NCT of Delhi, 5th Floor, Delhi Secretariat.
6. Pr. Secretary, Irrigation & Flood Control Deptt. Govt. of NCT of Delhi, L. M. Bundh, Shastri Nagar, Delhi.
7. Chairman, New Delhi Municipal Council, Palika Kendra, New Delhi.
8. Pr. Secretary (Revenue) cum Divisional Commissioner, Govt. of NCT of Delhi, 5 Sham Nath Marg, Delhi.
9. Commissioner, Municipal Corporation of Delhi, 9th Floor, Dr. S.P.M Civic Center, JLN Marg, Delhi.
10. Commissioner of Industries, Govt. of NCT of Delhi, 419, Udyog Sadan, FIE Patparganj, Delhi.
11. Pr. Secretary, Urban Development Department, Govt. of NCT of Delhi, 9th Floor, Delhi Secretariat.
12. Managing Director, Delhi State Industrial & Infrastructure Development Corporation Ltd. N-36, Bombay Life Building, Connaught Circus, New Delhi.
13. Chief Executive Officer, Delhi Cantonment Board, Sadar Bazar, Delhi Cantt. Delhi.
14. Chief Executive Officer, Delhi Urban Shelter Improvement Board (DUSIB), Punarwas Bhawan, I.P. Estate, New Delhi

Copy for information to:

1. Pr. Secretary to Hon'ble Lt. Governor, Govt of NCT of Delhi.
2. Addl. Secretary to Hon'ble Chief Minister, Govt of NCT of Delhi.
3. Secretary to Hon'ble Minister (Environment & Forests), Govt of NCT of Delhi.

4. Secretaries to Hon'ble Ministers, Govt. of NCT of Delhi.
5. Secretary, Ministry of Jal Shakti, Govt. of India, Shram Shakti Bhawan, New Delhi.
6. Secretary, Ministry of Environment & Forest and Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi.
7. Secretary, Ministry of Agriculture, Govt. of India, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi.
8. Secretary, Ministry of Housing and Urban Affairs, Nirman Bhawan, Maulana Azad Road, New Delhi.
9. Chairman, National Highways Authority of India (NHAI), Dwarka, New Delhi.
10. Director General (Forest), Ministry of Environment & Forest and Climate Change, Govt India, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi.
11. Commissioner of Police, Delhi Police Headquarters, Jai Singh Road, New Delhi.
12. Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi.
13. Pr. Secretary, Finance Department, Govt. of NCT of Delhi, 4th level, Delhi Secretariat, I.P. Estate, Delhi.
14. Pr. Secretary Cum Development Commissioner, Development Department, Govt. of NCT of Delhi, 5/9, Under Hill Road, Delhi.
15. Directorate General, Central Public Works Department, Ministry of Housing and Urban Affairs, Gol, Nirman Bhawan, New Delhi.
16. Director General, National Mission for Clean Ganga, 1st Floor, Major Dhyan Chand, National Stadium, India Gate, New Delhi.
17. All District Magistrates of 11 Revenue Districts in Delhi.
18. All DCPs, Govt. of NCT of Delhi.


6/4/23

Chief Secretary, Govt. of NCT of Delhi
Convener of SWMC for Solid Waste Monitoring



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Monitoring Parameters with respect to Order dated 16.02.2023 of Hon'ble NGT in OA No. 606 / 2018 regarding Compliance of Municipal Solid Waste Management Rules, 2016 and other Environmental Issues

Important Parameters for Municipal Solid Waste Management in Delhi:

1. Management of 100 % Municipal Solid Waste (MSW) Generated [Gap in Processing - 3529 (31 %)]

Population of Delhi	2.1 Crore
MSW Generation	11328 TPD
No. of Urban Local Bodies	03 [MCD, NDMC & DCB]
No. of Municipal Wards / Circles in Delhi	272 (MCD- 250 Wards + NDMC - 14 Circles +: DCB - 8 Wards)

2. MSW Generation, Processing and Gaps (Status As on 28.02.2023)

Generation (in TPD) (1)	Total Capacity of Existing MSW Processing Facilities (in TPD) + MRF (2)	Processing of Fresh MSW + MRF (in TPD) (3)	Gap in Processing Capacity (in TPD) (4) = (1)-(2)	Gap in Processing (in TPD) (5) = (1)-(3)	Additional Proposed Capacity of Facilities by August, 2027 (in TPD)	Total Capacity of Facilities by August, 2027 (in TPD)
11328	8228.875 (72.64%)	7802.255 (68.88 %)	3099.125 (27.36%)	3525.74 (31.12%)	6470 TPD	14698.875 TPD (129.68%)

3. MSW Generation and 100 % Segregation at Source (Status as on 28.02.2023) (Details at Annexure-1 and Annexure 2)

S.No.	Particular	MCD	Timelines for 100 % Segregation by MCD	NDMC	DCB
1	No. of Wards having 100 % segregation	12	Dec, 2024	All 14 Circles (Achieved)	Achieved in 3 wards
2	No. of Wards having 80-99 % segregation	70			July, 2023 for remaining 5 wards
3	No. of Wards having 60-79 % segregation	12			
4	No. of Wards having 40-59 % segregation	81			
5	No. of Wards having 20-39 % segregation	46			
6	No. of Wards having less than 20 % segregation	29			
	Total	250		14	8

4. 100 % Door to Door Collection of MSW (Status as on 28.02.2023) (Ward wise details of Dhalaos and FCTS at Annexure-3)

Particulars	Status	Timelines for 100 % Collection
No. of Wards / Circles having 100% door to door collection	272 (All)	Achieved

5. Closure of Dhalaos (In NDMC & DCB Areas there is No Dhalaos)

[Ward Wise List of Dhalaos along with Status and Timelines for Closure / other use is at **Annexure - 3)**

Particulars	No	Timelines for Closure / other use
Existing Dhalaos of MCD	638	December, 2024 Minimum no. of Dhalaos will be kept for disposal of silt and street sweeping waste after meeting this timeline of December 2024

6. 100 % Transportation of MSW (Ward wise Details at Annexure-4)

Particulars	Status		
	MCD	NDMC	DCB
No. of Vehicles in service	8324	70	41
No. of Vehicles in service with GPS	2650	70	41
Additional No. of Vehicles required	0	0	0

7. Setting up of Material Recovery Facilities (MRFs) [Probable Gap - 3648 TPD]

[3965 TPD (35 % of Total MSW of 11328 TPD) - 317 TPD (Capacity of Existing MRFs)] (Details of Existing MRFs is at **Annexure - 5** and Proposed MRFs along with Timelines is at **Annexure - 6**)

i. Existing Material Recovery Facilities (MRFs)

S.No	Local Body	MRFs	
		Total (Nos)	Total Capacity (in TPD)
1	MCD	156	253
2	NDMC	03	14
3	DCB	11	50
Total		170	317

ii. Proposed Material Recovery Facilities (MRFs)

S.No	Location	No	Capacity (in TPD)	Status/ Timelines for Commissioning
1	Kartavya Path (NDMC)	01	1	Identification of site, finalisation of Vendor for O & M has been done

8. Existing MSW processing facilities (Excluding MRFs) with ULBs is of 8229 TPD list is annexed at Annexure-6. Proposed MSW Processing Facilities [Total Capacity Addition - 6470 TPD by August, 2027] Annexure 7).

S.No.	Proposed Processing Facilities	Capacity Addition (in TPD)	Status	Timelines
(A)	Waste to Energy Plants (Total Capacity Addition - 6000 TPD by August, 2027)			
1	New WTE at Narela - Bawana	3000	<ul style="list-style-type: none"> Regional Centre for Urban & Environmental Studies (RCUES), Lucknow has been engaged for providing Transaction Advisory Services for setting up of WTE of 25 MW capacity at Narela -Bawana. Bids have been received for selection of Concessionaire through tariff-based bidding process. Petition has been filed in DERC for adoption of lowest levelized tariff. Last hearing held on 17.02.2023 and orders reserved. 	August, 2026
2	New WTE at Ghazipur	2000	Administrative Approval for this project has been accorded by the Special Officer, MCD. Tender document is being prepared.	August, 2027
3	Expansion of Existing WTE at Okhla (from 23 MW to 40 MW & from 2000 TPD to 4000 TPD)	1000	Public Hearing held on 16.08.2022. Environmental Clearance granted by MoEF&CC on 09.01.2023.	December, 2024

8. Existing MSW processing facilities (Excluding MRFs) with ULBs is of 8229 TPD list is annexed at Annexure-6. Proposed MSW Processing Facilities [Total Capacity Addition - 6470 TPD by August, 2027] Annexure 7).

S.No.	Proposed Processing Facilities	Capacity Addition (in TPD)	Status	Timelines
B	Bio CNG / Bio-Gas Plants (Total Capacity Addition - 400 TPD by December, 2024)			
4	Bio CNG Plant at Okhla	300	<ul style="list-style-type: none"> • Augmentation of capacity of Centralised Compost Plant of 200 TPD by 100 TPD and conversion into Bio-CNG Plant. • Work is under process. Demolition of existing structure is being done. • Present Progress- 10 %. 	June, 2024
5	Compressed Bio-gas Plant at Ghogha Dairy	100	<ul style="list-style-type: none"> • MoU signed with IGL on 04.01.2022 for setting up of the CBG Plant at Ghogha Dairy • 3 Acre land has been identified. • IGL has awarded the work 	December, 2024

8. Existing MSW processing facilities (Excluding MRFs) with ULBs is of 8229 TPD list is annexed at Annexure-6. Proposed MSW Processing Facilities [Total Capacity Addition - 6470 TPD by August, 2027] Annexure 7).

S.No.	Proposed Processing Facilities	Capacity Addition (in TPD)	Status	Timelines
C	Decentralized Compost Plants/OWC (Total Capacity Addition - 70 TPD by Dec, 2023)			
6.	One Compost Plant at Vishwas Nagar	1	Work is under progress	June, 2023
7	One Compost Plant at New Ashok Nagar	1	Work is under progress	June, 2023
8	3 Sorting cum Composter Plants of (20 TPD each) at Kirby Place, Delhi Cantt	60	Board has approved installation of 03 Nos. Of Sorting-Cum-Composting Machine. Procurement of machines will be initiated after finalization of necessary infrastructure and other arrangements.	July, 2023
9	8 Organic waste converter (OWC) of 1 TPD each in NDMC Area	8	Identification of site, finalisation of Vendor for O & M has been done for 1 site at Kartvya Path. 7-Notices for installation of OWC have been sent	Dec, 2023
D	Biogas plant/ Bio- methanation plant for Dairy Waste (Dec, 2023)			
1	Goyla Dairy	215	<ul style="list-style-type: none"> Cattle dung utilized by the cattle owners for preparing dung cakes Used as manure by the nearby farmers 	Sep, 2023
2	Ghoga Dairy	290		Dec, 2023
3	Nangli Dairy	215		Apr, 2023

9. Decentralized Waste Processing Facilities (DWPFs) by Bulk Waste Generators (BWG) (Generating more than 100kg /day)

(Ward Wise List of Bulk Waste Generators along with Timelines and Action plan for installation of DWPFs is at **Annexure – 8**)

S.No	Particular	MCD	NDMC	DCB
1	Major BWGs (No)	184	28	No bulk waste generator within the jurisdiction of Delhi Cantonment Board.
2	Quantum of Waste Generation (in TPD)	25.2	9.43	
3	DWPFs Installed (No)	The data collection is under process from all 12 Zones	28	
4	Capacity (in TPD)		17.9	
5	Gap (No)		0	
6	Timelines for All BWGs to install DWPFs		NA	

10. Bio-mining of Legacy Waste at 3 Dumpsites (Status as on 28.02.2023) (Details at Annexure – 9)

Dumpsite	Legacy Waste at Dumpsites (July 2019) Lakh Ton	Legacy Waste Processed till 28.02.23	Legacy Waste at Dumpsites including fresh MSW dumped in Lakh Ton as per the volumetric assessment in June-2022 through Drone Survey*	Quantity of fresh MSW dumped from July 2022 to 28.02.2023 3 (Lakh MT)	Total Quantity of Legacy Waste Bio-mined from July 2022 to 28.02.2023 (Lakh MT)	Balance Quantity of Waste at Dumpsite* * (Lakh MT)	Biomining Timeline (Legacy plus fresh waste)		
							50 %	75 %	100 %
Ghazipur	140	17.14	85	4.96	11.5	78.46	Aug-23	Feb-24	May-24
Okhla	60	25.62	45	5.17	7.5	42.67			
Bhalaswa	80	29.65	73	5.11	4.95	73.16			
Total	280	72.41	203	15.24	23.95	194.29			

Note: * Drone survey had taken the Qty above the ground level

**Legacy waste above the ground level only

As per NGT order dated 16.02.2023 data regarding solid waste management is incomplete as quantity of legacy waste does not mention the current data. NGT has estimated the legacy waste added in the last three years roughly 50 lakh MT and total legacy waste is more than 330 lakh MT.

11. Trommels operational for Bio-mining of Legacy Waste at 3 Dumpsite (Details at Annexure – 9)

Dumpsite	Operational Trommels	Capacity of Trommels (in TPD)	Capacity utilization of Trommels (in TPD and %)	No. of Additional Trommels proposed to achieve timelines	Timelines for engagement of Additional Trommels to achieve timelines
Ghazipur	22	8800	100 %	4 (1600 TPD)	June-23
Okhla	9	9000	100 %	2 (20 TPD)	
Bhalaswa	18	7200	100 %	4 (16 TPD)	
Total	49	25000		10 (5200 TPD)	

12. Disposal/Utilization of Inert Generated from Bio-mining of Legacy Waste (Details at Annexure – 10)

Dumpsite	Inert generated from bio mining and lying undisposed (as on 28.02.2023) in Lakh Ton	Estimated Inert Generation from Bio-mining of Legacy Waste (Lakh Ton) till biomining timelines	Available Disposal Sites	Proposed Disposal Sites	Utilization Status (Lakh Ton / %)
Ghazipur	0.2	65-70% of total legacy waste	The MCD has awarded integrated work of Bio-mining and disposal of bio-mined fractions. The concessionaire is responsible to achieve targets of disposal. MCD is facilitating the agency to liason with all prospective departments. Presently, inert fractions is being disposed off at NHAI's project sites, afforestation grounds, low lying pits /plots etc.		100%
Okhla	0	70-75% of total legacy waste			
Bhalaswa	0.1	55-65% of total legacy waste			

13. Disposal / Utilization of C&D Generated from Bio-mining of Legacy Waste (Details at Annexure - 11)

Dumpsite	C&D waste generated from bio mining and lying undisposed (as on 28.02.2023) in Lakh Ton	Estimated C&D waste Generation from Bio-mining of Legacy Waste (Lakh Ton) till biomining timelines	Available Disposal Sites	Proposed Disposal Sites	Utilization Status (Lakh Ton / %)
Ghazipur	0.1	10-15% of total legacy waste	<ul style="list-style-type: none"> C&D generated from the bio mining is being disposed off by the Concessionaire. C&D generated from bio-mining is being disposed off at NHA's project site. Low lying areas & privates plots 		100%
Okhla	1.0	20% of total legacy waste			
Bhalaswa	0.1	12% of total legacy waste			

14. Utilization of RDF generated from Bio-mining of Legacy Waste (Details at Annexure-12)

Dumpsites	RDF generated from bio mining and lying undisposed (as on 28.02.2023) in Lakh Ton	Estimated RDF Generation from Bio-mining of Legacy Waste (Lakh Ton) till biomining timelines	Available Utilization Status (WTE / Cement Factories etc.)	Proposed utilization in (WTE / Cement Factories etc.)	Utilization Status (Lakh Ton / %)
Ghazipur	0.24	15-20% of total legacy waste	<ul style="list-style-type: none"> Cement Plants Disposal of RDF in Processing facility at Ghaziabad 		3%
Okhla	0.2	5-10% of total legacy waste	<ul style="list-style-type: none"> Disposal of RDF at paper mill in Shamli More industries are being approached for utilisation of RDF 		3%
Bhalaswa	0.2	10% of total legacy waste	<ul style="list-style-type: none"> JK cement Chittorgarh-Rajasthan Nitika papers mill Shamli-U.P 		18%

15. Use of reclaimed land occupied by legacy waste sites as per order dated 16.02.2023 of Hon'ble NGT in OA No. 606/2018.

- i. One third of land occupied by legacy dump sites (on reclamation) needs to be reserved for dense forest and in the process of afforestation, Campa Funds can be utilized in accordance with the provisions of Compensatory Afforestation Fund Management and Planning Authority Act, 2016 (CAMPA Act).
- ii. One third of reclaimed land out of the said dump site needs to be reserved for integrated waste management facilities.
- iii. Remaining one third can be used for any other purpose, consistent with the above purposes, including a part of it being utilized for monetizing, if funding is required for tackling the legacy waste.
- iv. It may not be necessary to search for new lands for waste processing facilities if facilities are set up at on reclaimed land.
- v. Time for clearing legacy waste by May 2024 be shortened.

16. Prevention of Fire Incidents at Dumpsites (Details at Annexure- 13)

Dumpsite	CCTV Cameras			Water Tankers			Manpower for vigilance			No. of Temperature Sensors Installed
	Available	Proposed	Timelines	Available	Proposed	Timelines	Available	Proposed	Timelines	
Ghazipur	22	10	Apr, 23	4	0	-	6	4	Apr, 23	1
Okhla	35	0	-	4	0	-	6	0	-	0
Bhalaswa	31	-	-	4	0	-	6	4	Apr, 23	1

17. Existing and proposed Engineered Sanitary Land Fill (Details at Annexure-14)

Location	Status	Timelines
Bawana	Operational	-
Tehkhand	Progress: 42 %	July, 2023

18. 100 % Collection, Transportation & Disposal of Domestic Hazardous Waste and Sanitary Waste

(Ward Wise quantum of Sanitary Waste and Domestic Hazardous Waste generation and Timelines for 100 % Collection, Transportation & Disposal of Sanitary Waste and Domestic Hazardous Waste at the designated Authorised Facilities in Delhi is at **Annexure - 15**)

S.No	Particular	MCD	NDMC	DCB
1	CFL Bulbs, Tube Lights, Discarded Paint Drums, Pesticides Cans, used Batteries etc. (in TPD)	11	0.72	0.05
2	Expired Medicines, Broken Mercury Thermometers, used Needles and Syringes and Contaminated gauge, etc., generated at the household level (in TPD)	Biomedical Waste is collected only from healthcare facilities in MCD. As per the rules, ULB is not responsible to collect biomedical waste from the households.		0.016
3	Sanitary Waste (Used Diapers, Sanitary Towels / Napkins etc as mentioned in SWM Rules, 2016) (In TPD)	22	0.75	0.005
4	Timelines for 100 % Collection, Transportation & Disposal of above mentioned Domestic Hazardous Waste at the TSDF for Hazardous Waste at Bawana & Bio-medical Waste at the 2 Common Biomedical Waste Treatment Facilities in Delhi	DHW and Sanitary Waste is sent to WTE Plants as per the rules.		July, 2023

19. 100 % Collection, Transportation & Disposal of Street Sweepings and Silt Removed / Collected from the Surface Drains

(Ward Wise List of Street Sweepings and Silt Removed / Collected from the Surface Drains and Timelines for 100 % Collection, Transportation & Disposal at the designated sites in Delhi is at **Annexure - 16**)

S.No	Particular	MCD	NDMC	DCB	Total
1	Street Sweepings and MRS machine Sweeping (in TPD)	156	7.45	0.05	163.5
2	Silt Removed / Collected from Surface Drains (in TPD)	263	0	1.5	264.5
3	Timelines for 100 % Collection, Transportation & Disposal of Street Sweepings and Silt Removed / Collected from the Surface Drains	Complied	-	Complied	

20. 100 % Collection, Transportation & Recycling/Processing of Plastic Waste

(Ward Wise Quantum of Plastic Waste generation, Collection, Transportation & Recycling/Processing/ Disposal in Delhi is at **Annexure - 17**)

S.No	Particular	MCD	NDMC	DCB	Total
1	Plastic Waste Generation (in TPD)	1100	9.25	4	1113.25
2	Plastic Waste Collection & Transportation (in TPD)	1100	9.25	4	1113.25
3.	Plastic Waste Recycling/Processing/ (in TPD)	858	9.25	4	871.25
4.	Gap in Processing/recycling of Plastic waste (in TPD)	242	0	0	242
5.	Timelines for 100 % Collection, Transportation & Processing of Plastic Waste	June 2024	-	-	

21. 100 % Collection, Transportation & Processing/Disposal of Horticultural Waste

(Ward Wise Quantum of Horticultural Waste Generation, Collection, Transportation & Processing/ Disposal is at **Annexure - 18**)

S.No	Particular	NDMC	DCB	Total
1.	Horticultural Waste Generation (in TPD)	6.6	4	13.6
2.	Horticultural Waste Collection & Transportation (in TPD)	6.6	4	13.6
3.	Horticultural Waste Processing (in TPD)	6.6	4	12.3
4.	Gap in processing of Horticulture waste (in TPD)	0	0	1
5.	Timelines for 100 % Processing of Horticultural Waste	-	-	-

22. 100 % Collection, Transportation & Processing/Disposal of Slaughter House Waste [Buffaloes Goats, Poultry, Fisheries etc.]

(Quantum of Slaughter House Waste Generation, Collection, Transportation & Processing/Disposal in Delhi is at **Annexure - 19**)

S.No	Particular	MCD	NDMC	DCB
1	Slaughter House Waste Generation (in TPD)	4.7	No Slaughter Houses in NDMC area	0.075
2.	Slaughter House Waste Collection & Transportation (in TPD)	Blood is transported through blood processing plant to make blood meal. However, bone & other tissues are transported through tractor trolley at Rendering Plant to make MBM, Tallow (non-edible fat)		0.075
3.	Slaughter House Waste Processing through Bio-methanation Plant (in TPD)	One big Rendering Plant of Capacity 20 MT per shift at Ghazipur. One small Rendering Plant, Ghazipur of capacity 200-250 dead animals per day.		0.075
4.	Gap in processing of Slaughter House Waste (in TPD)	0		Nil
5.	Timelines for 100 % Processing of Slaughter House Waste	-		-

Annexure - 1



Municipal Solid Waste Generation

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Annexure-1

Zone Wise MSW Generation : Municipal Corporation of Delhi											
SI No	Zone Name	No. of Wards	No. of Households	Population	MSW Generation (TPD)	Wet Waste Generation (TPD)	Dry Waste Generation		Domestic Hazardous Waste (broken tubelight, led bulbs, sanitary napkins etc. (TPD)	Nodal Officer	Name of EE and Division
							Non Recyclable (TPD)	Recyclable (TPD)			
1	Central Zone	25	396120	1584479	1000	400	480	120	3	SE DEMS Central Zone	EE DEMS Central Zone
2	City SP Zone	12	151233	604933	950	380	456	114	2.85	SE DEMS City SP Zone	EE DEMS City SP Zone
3	Civil Line Zone	15	334485	1337940	800	320	384	96	2.4	SE DEMS Civil Line Zone	EE DEMS Civil Line Zone
4	Karol Bagh Zone	13	226120	904480	850	340	408	102	2.55	SE DEMS Karol Bagh Zone	EE DEMS Karol Bagh Zone
5	Keshavpuram Zone	15	275904	1103615	800	320	384	96	2.4	SE DEMS Keshavpuram Zone	EE DEMS Keshavpuram Zone
6	Najafgarh Zone	22	366556	1466223	900	360	432	108	2.7	SE DEMS Najafgarh Zone	EE DEMS Najafgarh Zone
7	Narela Zone	16	761763	3047052	500	200	240	60	1.5	SE DEMS Narela Zone	EE DEMS Narela Zone
8	North Shahdara Zone	35	508937	2035747	1250	500	600	150	3.75	SE DEMS Shah North Zone	EE DEMS Shah North Zone
9	Rohini Zone	23	504253	2017010	950	380	456	114	2.85	SE DEMS Rohini Zone	EE DEMS Rohini Zone
10	South Shahdara Zone	26	501622	2006488	1200	480	576	144	3.6	SE DEMS Shah South Zone	EE DEMS Shah South Zone
11	South Zone	23	364906	1459624	900	360	432	108	2.7	SE DEMS South Zone	EE DEMS South Zone
12	West Zone	25	425934	1703735	900	360	432	108	2.7	SE DEMS West Zone	EE DEMS West Zone
	TOTAL	250	48,17,832	192,71,326	11000	4400	5280	1320	33		

Annexure-1

Circle Wise MSW Generation : New Delhi Municipal Council

S. No.	Circle Name	Circle No.	No. of Households	Population	MSW Generation (TPD)	Wet Waste Generation (TPD)	Dry Waste Generation (TPD)	Domestic Hazardous Waste (broken tubelight, led bulbs, sanitary napkins etc. (TPD)	Nodal Officer (Chief Engineer/Zonal Officer)	Name of EE and Division(Name of Sanitary Inspector)
1	Connaught Place	Circle 1	192	960	25.882	5.304	20.578	0.151	Dr. Vijay Patel (S.M.O)	Sh. Sri Kishan Yadav Sh. Rakesh Kumar Sharma Sh. Jal Singh Meena
2	Gole Market	Circle 2	3300	16500	14.694	3.011	11.683	0.086	Dr. Gunjan Sahai (CMO)	Sh. Nishant
3	DIZ Area	Circle 3	6437	32185	29.743	6.095	23.648	0.174	Dr. Vijay Patel (S.M.O)	Ms. Seema Shekhawat Sh. Amit Kumar
4	North Avenue Talkatora Road	Circle 4	2831	14155	12.563	2.574	9.989	0.073	Dr. Vijay Patel (S.M.O)	Sh. Sunil Verma Sh. Sunil Kumar
5	Bengali Market	Circle 5	2400	12000	15.528	3.182	12.346	0.09	Dr. S. Srivastava (C.M.O)	Sh. Sher Singh Sh. M.P.S Sethi
6	Khan Market	Circle 6	1584	7920	7.761	1.59	6.171	0.045	Dr. S. Srivastava (C.M.O)	Sh. Vijay Sharma Sh. Krishan Kumar
7	Lok Kalyan Marg and PM House	Circle 7	1932	9660	9.579	2.758	6.821	0.049	Dr. S. Srivastava (C.M.O)	Sh. Rakesh Kumar Gondia Sh. Rajender Singh
8	Lodhi Colony	Circle 8	1840	9200	10.784	3.8	6.984	0.051	Dr. S. Srivastava (C.M.O)	Sh. Ram Pal Yadav Sh. Kanhaiya Lal
9	Jor Bagh	Circle 9	4300	21500	18.931	3.879	15.052	0.11	Dr. S. Srivastava (C.M.O)	Sh. Gopi Chand Sh. N.S. Bhati
10	Chanakya Puri	Circle 10	8099	40495	37.417	8.614	28.803	0.212	Dr. Vijay Patel (S.M.O)	Sh. Mahesh Kumar Dhiryan Sh. Jitender Avtar
11	Sarojini Nagar	Circle 11	7439	37195	37.379	7.66	29.719	0.219	Dr. Gunjan Sahai (CMO)	Sh. Tulsi Ram Sharma Sh. R.S. Meena
12	Moti Bagh	Circle 12	2200	11000	11.968	3.247	8.721	0.063	Dr. Gunjan Sahai (CMO)	Sh. Parvez Khan Sh. Ashok Kumar Sharma
13	Laxmi Bai Nagar	Circle 13	4197	20985	20.619	4.02	16.599	0.114	Dr. Gunjan Sahai (CMO)	Sh. Naveen Kumar Sh. Anil Kumar
14	Tilak Marg	Circle 14	650	3250	3.347	0.588	2.759	0.033	Dr. Gunjan Sahai (CMO)	Sh. Rameshwar Dayal Sh. K.L. Sharma
	Total	14	47,401	2,37,005	256.195	56.322	199.873	1.47		

Ward Wise MSW Generation : Delhi Cantonment Board

SI No	Ward Name	Ward No.	No. of Households	Population	MSW Generation (TPD)	Wet Waste Generation (TPD)	Dry Waste Generation		Domestic Hazardous Waste (broken tubelight, led bulbs, sanitary napkins etc. (TPD)	Nodal Officer (Chief Engineer)	Name of EE and Division
							Non Biodegradable (TPD)	Biodegradable (TPD)			
1	Naraina	1	1572	4816	6	3	1	2	0.013	Gyanendra Pal Singh, OIC Sanitation	
2	Uri Enclave	2	480	3218	4	2	0	2	0.001		
3	Shastri Bazar	3	482	68558	20	10	2	8	0.002		
4	Subrato Park	4	356	1633	2	1	0	1	0.002		
5	Village Jharera	5	2519	10028	14	7	1	6	0.019		
6	East Mehram Nagar	6	1011	6667	10	5	1	4	0.003		
7	Village Old Nangal	7	1387	7603	8	4	1	3	0.004		
8	Sadar Bazar	8	1333	7828	8	4	1	3	0.027		
	TOTAL		91,40	1,10,351	72	36	7	29	0.071		

Grand Total (MCD, NDMC, DCB)	No of wards/cirles	No. of Households (Lakhs)	Population (Lakhs)	MSW Generation (TPD)	Wet Waste Generation (TPD)	Dry Waste Generation (TPD)	Domestic Hazardous Waste (broken tubelight, led bulbs, sanitary napkins etc. (TPD)
	272	48.74373	196.18682	11,328	4,492	6836	34.54

Annexure - 2



100 % Segregation at Source

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Zone wise 100% Segregation at Source : Municipal Corporation of Delhi

SI No	Zone Name	No. of Wards	No. of Households	Population	Present status of Segregation (%)	50 % Segregation Compliance Timeline	75 % Segregation Compliance Timeline	100 % Segregation Compliance Timeline	Nodal Officer	Name of EE and Division
1	Central Zone	25	396120	1584479	50%	Achieved	Dec-23	Dec-24	SE DEMS Central Zone	EE DEMS Central Zone
2	City SP Zone	12	151233	604933					SE DEMS City SP Zone	EE DEMS City SP Zone
3	Civil Line Zone	15	334485	1337940					SE DEMS Civil Line Zone	EE DEMS Civil Line Zone
4	Karol Bagh Zone	13	226120	904480					SE DEMS Karol Bagh Zone	EE DEMS Karol Bagh Zone
5	Keshavpuram Zone	15	275904	1103615					SE DEMS Keshavpuram Zone	EE DEMS Keshavpuram Zone
6	Najafgarh Zone	22	366556	1466223					SE DEMS Najafgarh Zone	EE DEMS Najafgarh Zone
7	Narela Zone	16	761763	3047052					SE DEMS Narela Zone	EE DEMS Narela Zone
8	North Shahdara Zone	35	508937	2035747					SE DEMS Shah North Zone	EE DEMS Shah North Zone
9	Rohini Zone	23	504253	2017010					SE DEMS Rohini Zone	EE DEMS Rohini Zone
10	South Shahdara Zone	26	501622	2006488					SE DEMS Shah South Zone	EE DEMS Shah South Zone
11	South Zone	23	364906	1459624					SE DEMS South Zone	EE DEMS South Zone
12	West Zone	25	425934	1703735					SE DEMS West Zone	EE DEMS West Zone
		250	48,17,832	192,71,326						

Circle wise 100% Segregation at Source : New Delhi Municipal Council

SI No	Circle Name	Circle No.	No. of Households	Population	Present status of Segregation (%)	50 % Segregation Compliance Timeline	75 % Segregation Compliance Timeline	100 % Segregation Compliance Timeline	Nodal Officer (Chief Engineer/Zonal Officer)	Name of EE and Division (Name of Sanitary Inspector)
1	Connaught Place	Circle 1	192	960	100%	Not Applicable	Not Applicable	Achieved	Dr. Vijay Patel (S.M.O)	Sh. Sri Kishan Yadav Sh. Rakesh Kumar Sharma Sh. Jal Singh Meena
2	Gole Market	Circle 2	3300	16500					Dr. Gunjan Sahai (CMO)	Sh. Nishant
3	DIZ Area	Circle 3	6437	32185					Dr. Vijay Patel (S.M.O)	Ms. Seema Shekhawat Sh. Amit Kumar
4	North Avenue Talkatora Road	Circle 4	2831	14155					Dr. Vijay Patel (S.M.O)	Sh. Sunil Verma Sh. Sunil Kumar
5	Bengali Market	Circle 5	2400	12000					Dr. S. Srivastava (C.M.O)	Sh. Sher Singh Sh. M.P.S Sethi
6	Khan Market	Circle 6	1584	7920					Dr. S. Srivastava (C.M.O)	Sh. Vijay Sharma Sh. Krishan Kumar
7	Lok Kalyan Marg and PM House	Circle 7	1932	9660					Dr. S. Srivastava (C.M.O)	Sh. Rakesh Kumar Gondia Sh. Rajender Singh
8	Lodhi Colony	Circle 8	1840	9200					Dr. S. Srivastava (C.M.O)	Sh. Ram Pal Yadav Sh. Kanhaiya Lal
9	Jor Bagh	Circle 9	4300	21500					Dr. S. Srivastava (C.M.O)	Sh. Gopi Chand Sh. N.S. Bhati
10	Chanakya Puri	Circle 10	8099	40495					Dr. Vijay Patel (S.M.O)	Sh. Mahesh Kumar Dhiryan Sh. Jitender Avtar
11	Sarojini Nagar	Circle 11	7439	37195					Dr. Gunjan Sahai (CMO)	Sh. Tulsi Ram Sharma Sh. R.S. Meena
12	Moti Bagh	Circle 12	2200	11000					Dr. Gunjan Sahai (CMO)	Sh. Parvez Khan Sh. Ashok Kumar Sharma
13	Laxmi Bai Nagar	Circle 13	4197	20985					Dr. Gunjan Sahai (CMO)	Sh. Naveen Kumar Sh. Anil Kumar
14	Tilak Marg	Circle 14	650	3250					Dr. Gunjan Sahai (CMO)	Sh. Rameshwar Dayal Sh. K.L. Sharma
	Total	14	47,401	2,37,005						

Ward wise 100% Segregation at Source : Delhi Cantonment Board

SI No	Ward Name	Ward No.	No. of Households	Population	Present status of Segregation (%)	50 % Segregation Compliance Timeline	75 % Segregation Compliance Timeline	100 % Segregation Compliance Timeline	Nodal Officer (Chief Engineer)	Name of EE and Division
1	Naraina	1	1572	4816	90%	NA	NA	July, 2023	Gyanendra Pal Singh, OIC Sanitation	
2	Uri Enclave	2	480	3218	100%			NA		
3	Shastri Bazar	3	482	68558	100%			July, 2023		
4	Subrato Park	4	356	1633	100%			July, 2023		
5	Village Jharera	5	2519	10028	90%			July, 2023		
6	East Mehram Nagar	6	1011	6667	90%			July, 2023		
7	Village Old Nangal	7	1387	7603	95%			July, 2023		
8	Sadar Bazar	8	1333	7828	90%			July, 2023		
	Total		9140	110351						

Annexure - 3



100 % Door to Door Collection of MSW

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Annexure-3

100 % Door to Door Collection of MSW : Municipal Corporation of Delhi

SI No	Zone Name	No. of Wards	MSW Generation (TPD)	MSW Collection (TPD)	Operational Dhalaos (Nos)	Dhalaos Capacity (Tons)	Timelin e for Closur e of Dhalaos/Alternate Use	Proposed Alternative use	Officer responsible for closure of Dhalaos within timelines	No. of Operational FCTS	FCTS Capacity (Tons)	No. of FCTS under construction	No. of Additional FCTS Required	Timelin e to add additional FCTS	Nodal Officer	Name of EE and Division
1	Central Zone	25	1000	1000	138	Variable capacity of Dhalaos depending on the site area and incoming waste	No timelin e shall be given	44	SE DEMS Central Zone	18	944	0	0	Dec-23	SE DEMS Central Zone	EE DEMS Central Zone
2	City SP Zone	12	950	950	37			76	SE DEMS City SP Zone	15	1521	3	0		SE DEMS City SP Zone	EE DEMS City SP Zone
3	Civil Line Zone	15	800	800	19			40	SE DEMS Civil Line Zone	23	615	3	0		SE DEMS Civil Line Zone	EE DEMS Civil Line Zone
4	Karol Bagh Zone	13	850	850	51			31	SE DEMS Karol Bagh Zone	11	286	2	0		SE DEMS Karol Bagh Zone	EE DEMS Karol Bagh Zone
5	Keshavpuram Zone	15	800	800	16			107	SE DEMS Keshavpuram Zone	37	855	0	0		SE DEMS Keshavpuram Zone	EE DEMS Keshavpuram Zone
6	Najafgarh Zone	22	900	900	46			15	SE DEMS Najafgarh Zone	23	1150	1	0		SE DEMS Najafgarh Zone	EE DEMS Najafgarh Zone
7	Narela Zone	16	500	500	68			18	SE DEMS Narela Zone	5	900	11	0		SE DEMS Narela Zone	EE DEMS Narela Zone
8	North Shahdara Zone	35	1250	1250	27			31	SE DEMS Shah North Zone	18	458	0	5		SE DEMS Shah North Zone	EE DEMS Shah North Zone
9	Rohini Zone	23	950	950	40			50	SE DEMS Rohini Zone	25	585	2	1		SE DEMS Rohini Zone	EE DEMS Rohini Zone
10	South Shahdara Zone	26	1200	1200	49			3	SE DEMS Shah South Zone	21	293	5	0		SE DEMS Shah South Zone	EE DEMS Shah South Zone
11	South Zone	23	900	900	109			50	SE DEMS South Zone	28	704	1	1		SE DEMS South Zone	EE DEMS South Zone
12	West Zone	25	900	900	38			56	SE DEMS West Zone	39	544	0	6		SE DEMS West Zone	EE DEMS West Zone
		250	11000	11000	638			521		263	8855	28	13			

Alternative Use of Dhalaos: Municipal Corporation of Delhi

S.No.	Alternative Use of Dhalaos	Numbers
1	Amul Booth	85
2	Attendance Shelter/ SI Office/Store	122
3	FCTS	82
4	MRF	95
5	EV Charging Point	8
6	NGO/RWA	16
7	RP Cell	0
8	Library	13
9	Senior Citizen Recreation Centre	11
10	Merged in Parks	2
11	Telephone Tower	1
12	Outsourced CSR	10
13	Neki ki Deewar	6
14	Damaged/ Closed	45
15	Composting Pit/ Other	25
TOTAL		521

Proposed Alternative Use of Dhalaos	Numbers
Amul Booth	19
Attendance Shelter/SI Office/Store	40
FCTS	5
MRF	3
EV Charging Point	11
NGO/RWA	0
RP Cell/other	5
TOTAL	83

Annexure-3

100 % Door to Door Collection of MSW : New Delhi Municipal Council

SI No	Circle Name	Circle No.	MSW Generation (TPD)	MSW Collection (TPD)	No. of Operational Dhalaos	No. of Operational FCTS	Nodal Officer(Chief Engineer/Zonal Officer)	Name of EE and Division(Name of Sanitary Inspector)
1	Connaught Place	Circle 1	25.882	25.858	Not Applicable		Dr. Vijay Patel (S.M.O)	Sh. Sri Kishan Yadav Sh. Rakesh Kumar Sharma Sh. Jal Singh Meena
2	Gole Market	Circle 2	14.694	14.54			Dr. Gunjan Sahai (CMO)	Sh. Nishant
3	DIZ Area	Circle 3	29.743	29.716			Dr. Vijay Patel (S.M.O)	Ms. Seema Shekhawat Sh. Amit Kumar
4	North Avenue Talkatora Road	Circle 4	12.563	12.553			Dr. Vijay Patel (S.M.O)	Sh. Sunil Verma Sh. Sunil Kumar
5	Bengali Market	Circle 5	15.528	15.514			Dr. S. Srivastava (C.M.O)	Sh. Sher Singh Sh. M.P.S Sethi
6	Khan Market	Circle 6	7.761	7.675			Dr. S. Srivastava (C.M.O)	Sh. Vijay Sharma Sh. Krishan Kumar
7	Lok Kalyan Marg and PM House	Circle 7	9.579	8.571			Dr. S. Srivastava (C.M.O)	Sh. Rakesh Kumar Gondia Sh. Rajender Singh
8	Lodhi Colony	Circle 8	10.784	9.176			Dr. S. Srivastava (C.M.O)	Sh. Ram Pal Yadav Sh. Kanhaiya Lal
9	Jor Bagh	Circle 9	18.931	18.915			Dr. S. Srivastava (C.M.O)	Sh. Gopi Chand Sh. N.S. Bhati
10	Chanakya Puri	Circle 10	37.417	36.194			Dr. Vijay Patel (S.M.O)	Sh. Mahesh Kumar Dhiryan Sh. Jitender Avtar
11	Sarojini Nagar	Circle 11	37.379	37.345			Dr. Gunjan Sahai (CMO)	Sh. Tulsi Ram Sharma Sh. R.S. Meena
12	Moti Bagh	Circle 12	11.968	11.149			Dr. Gunjan Sahai (CMO)	Sh. Parvez Khan Sh. Ashok Kumar Sharma
13	Laxmi Bai Nagar	Circle 13	20.619	19.601			Dr. Gunjan Sahai (CMO)	Sh. Naveen Kumar Sh. Anil Kumar
14	Tilak Marg	Circle 14	3.347	2.969			Dr. Gunjan Sahai (CMO)	Sh. Rameshwar Dayal Sh. K.L. Sharma
	Total	14	256.195	249.776				

100 % Door to Door Collection of MSW : Delhi Cantonment Board

SI No	Ward Name	Ward No.	MSW Generation (TPD)	MSW Collection (TPD)	Operational Dhalaos (Nos)	No. of Operational FCTS	FCTS Capacity (Tons)	No. of Additional FCTS Required	Timeline to add additional FCTS	Nodal Officer (Chief Engineer)	Name of EE and Division
1	Naraina	1	6	6	Not Applicable	Nil	NA	Nil	NA	Gyanendra Pal Singh, OIC Sanitation	
2	Uri Enclave	2	4	4		Nil	NA	Nil	NA		
3	Shastri Bazar	3	20	20		Nil	NA	Nil	NA		
4	Subrato Park	4	2	2		Nil	NA	Nil	NA		
5	Village Jharera	5	14	14		Nil	NA	Nil	NA		
6	East Mehram Nagar	6	10	10		Nil	NA	Nil	NA		
7	Village Old Nangal	7	8	8		Nil	NA	Nil	NA		
8	Sadar Bazar	8	8	8		1	40	Nil	NA		
	Total	8	72	72		1	40				

Annexure - 4



100 % Transportation of MSW

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100 % Transportation of MSW : Municipal Corporation of Delhi

SI No	Zone Name	No. of Wards	MSW Generation (TPD)	MSW Collection (TPD)	Total No. of Operational Vehicles available	Avg. Capacity of Operational Vehicles per vehicle per trip	Total No. of Operational Vehicles available in service with GPS	Officer responsible for monitoring GPS feed of transportation	Additional Vehicles required	Total Capacity of Additional Vehicles (Tons)	TimeLine to add Additional Vehicles	Nodal Officer	Name of EE and Division
1	Central Zone	25	1000	1000	1561		487	IT DEPT, Command Control Centre	0	0	NA	SE DEMS Central Zone	EE DEMS Central Zone
2	City SP Zone	12	950	950	54		14		0	0	NA	SE DEMS City SP Zone	EE DEMS City SP Zone
3	Civil Line Zone	15	800	800	294		82		0	0	NA	SE DEMS Civil Line Zone	EE DEMS Civil Line Zone
4	Karol Bagh Zone	13	850	850	526	1. Auto tipper - 1.75 cum & 1.8 cum	256		0	0	NA	SE DEMS Karol Bagh Zone	EE DEMS Karol Bagh Zone
5	Keshavpuram Zone	15	800	800	525	2. MTS - 14 cum & 18 cum	87		0	0	NA	SE DEMS Keshavpuram Zone	EE DEMS Keshavpuram Zone
6	Najafgarh Zone	22	900	900	689	3. Hook Loader - 10.5 cum & 16 cum	357		0	0	NA	SE DEMS Najafgarh Zone	EE DEMS Najafgarh Zone
7	Narela Zone	16	500	500	754	4. RCV - 10 cum, 14 cum & 18 cum	17		0	0	NA	SE DEMS Narela Zone	EE DEMS Narela Zone
8	North Shahdara Zone	35	1250	1250	812	5. Cycle Rikshaw - 150 kg	279		0	0	NA	SE DEMS Shah North Zone	EE DEMS Shah North Zone
9	Rohini Zone	23	950	950	691	6. Bin Washer - 2000 ltrs	112		0	0	NA	SE DEMS Rohini Zone	EE DEMS Rohini Zone
10	South Shahdara Zone	26	1200	1200	816	7. TATA 407(Silt Vehcile) - 2.5 cum	283		0	0	NA	SE DEMS Shah South Zone	EE DEMS Shah South Zone
11	South Zone	23	900	900	1085	8. E-Rickshaws - 200 Kg	348		0	0	NA	SE DEMS South Zone	EE DEMS South Zone
12	West Zone	25	900	900	517	9. Mechanized Sweeping Machines - 4.5 cum & 6.5 cum	328		0	0	NA	SE DEMS West Zone	EE DEMS West Zone
		250	11000	11000	8324		2650		0	0			

Annexure-4

100 % Transportation of MSW : New Delhi Municipal Council

SI No	Circle Name	Circle No.	MSW Generation (TPD)	MSW Collection (TPD)	Total No. of Operational Vehicles available	Total Capacity of Operational Vehicles (Tons)	Total No. of Operational Vehicles available in service with GPS	Officer responsible for monitoring GPS feed of transportation	Additional Vehicles required	Nodal Officer (Chief Engineer/Zonal Officer)	Name of EE and Division (Name of Sanitary Inspector)
1	Connaught Place	1	25.882	25.858	5	12	5	Ayyad Khan	Not at present	Dr. Vijay Patel (S.M.O)	Sh. Sri Kishan Yadav Sh. Rakesh Kumar Sharma Sh. Jal Singh Meena
2	Gole Market	2	14.694	14.54	3	7	3	Ayyad Khan		Dr. Gunjan Sahai (CMO)	Sh. Nishant
3	DIZ Area	3	29.743	29.716	6	13	6	Ayyad Khan		Dr. Vijay Patel (S.M.O)	Ms. Seema Shekhawat Sh. Amit Kumar
4	North Avenue Talkatora Road	4	12.563	12.553	4	11	4	Ayyad Khan		Dr. Vijay Patel (S.M.O)	Sh. Sunil Verma Sh. Sunil Kumar
5	Bangali Market	5	15.528	15.514	5	17	5	Ayyad Khan		Dr. S. Srivastava (C.M.O)	Sh. Sher Singh Sh. M.P.S Sethi
6	Khan Market	6	7.761	7.675	5	12	5	Ayyad Khan		Dr. S. Srivastava (C.M.O)	Sh. Vijay Sharma Sh. Krishan Kumar
7	Lok Kalyan Marg and PM House	7	9.579	8.571	5	17	5	Ayyad Khan		Dr. S. Srivastava (C.M.O)	Sh. Rakesh Kumar Gondia Sh. Rajender Singh
8	Lodhi Colony	8	10.784	9.176	5	17	5	Ayyad Khan		Dr. S. Srivastava (C.M.O)	Sh. Ram Pal Yadav Sh. Kanhaiya Lal
9	Jor Bagh	9	18.931	18.915	4	11	4	Ayyad Khan		Dr. S. Srivastava (C.M.O)	Sh. Gopi Chand Sh. N.S. Bhati
10	Chanakya Puri	10	37.417	36.194	6	18	6	Ayyad Khan		Dr. Vijay Patel (S.M.O)	Sh. Mahesh Kumar Dhiryar Sh. Jitender Avtar
11	Sarojini Nagar	11	37.379	37.345	4	11	4	Ayyad Khan		Dr. Gunjan Sahai (CMO)	Sh. Tulsi Ram Sharma Sh. R.S. Meena
12	Moti Bagh	12	11.968	11.149	4	11	4	Ayyad Khan		Dr. Gunjan Sahai (CMO)	Sh. Parvez Khan Sh. Ashok Kumar Sharma
13	Laxmi Bai Nagar	13	20.619	19.601	3	7	3	Ayyad Khan		Dr. Gunjan Sahai (CMO)	Sh. Naveen Kumar Sh. Anil Kumar
14	Tilak Marg	14	3.347	2.969	3	10	3	Ayyad Khan		Dr. Gunjan Sahai (CMO)	Sh. Rameshwar Dayal Sh. K.L. Sharma
15	Backup	Backup	-	-	5	17	5	Ayyad Khan		-	-
16	Transfer station (waste transportation wagons)	Transfer station (waste transportation wagons)	-	-	3	60	3	Ayyad Khan		-	-
			256.195	249.776	70	251	70				

100 % Transportation of MSW : Delhi Cantonment Board

SI No	Ward Name	Ward No.	MSW Generation (TPD)	MSW Collection (TPD)	Total No. of Operational Vehicles available	Total Capacity of Operational Vehicles (Tons)	Total No. of Operational Vehicles available in service with GPS	Officer responsible for monitoring GPS feed of transportation	Additional Vehicles required	Total Capacity of Additional Vehicles (Tons)	Timeline to add Additional Vehicles	Nodal Officer (Chief Engineer)	Name of EE and Division
1	Naraina	1	6	6	4	8	21	Sachin Kumar JE (Mechanical)	Nil	NA	NA	Gyanendra Pal Singh, OIC Sanitation	
2	Uri Enclave	2	4	4	4	8			Nil	NA	NA		
3	Shastri Bazar	3	20	20	8	20			Nil	NA	NA		
4	Subrato Park	4	2	2	2	4			Nil	NA	NA		
5	Village Jharera	5	14	14	8	18			Nil	NA	NA		
6	East Mehram Nagar	6	10	10	5	12			Nil	NA	NA		
7	Village Old Nangal	7	8	8	5	12			Nil	NA	NA		
8	Sadar Bazar	8	8	8	5	10			Nil	NA	NA		
	Total	8	72	72	41	92	21						

Annexure - 5



Sorting & Recovery of Recyclables

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Sorting & Recovery of Recyclables : Material Recovery Facilities : Municipal Corporation of Delhi

Sl No	Ward Name	Ward No.	Name/ Location of MRF	Latitude	Longitude	Type of MRF (Manual /Semi Automatic/ Automatic Sorting)	Capacity (in TPD)	Present Utilization (%)	100 % Capacity Utilization Timeline	Quantum of Non Recyclable Waste Recovered (TPD)	Quantum of Recyclable Waste Recovered (TPD)	Disposal of Non- Recyclable Waste (Name of Authorized Agency etc.)	Disposal of Recyclable Waste (Name of Authorized Agency etc.)	Nodal Officer	Officer responsible for recovery as per SWM Rules
1	Geeta Colony	210	Geeta Colony	28.657093	77.264595	Semi-Automatic	2	100%		1.4	0.4	WTE Plant	IPCA, BLS Ecotech and Suppliers	SE DEMS Shah South Zone	EE DEMS Shah South Zone
2	Patparganj	197	Patparganj Industrial area Opp. Hasanpur Depot	28.636383	77.306114	Semi-Automatic	3	100%		1.4	0.3	WTE Plant	IPCA, BLS Ecotech and Suppliers	SE DEMS Shah South Zone	EE DEMS Shah South Zone
3	Dilshad Colony	217	Dilshad Colony near Suraksha Nursing Home	28.657093	77.264595	Semi-Automatic	2	100%		1.4	0.4	WTE Plant	IPCA, BLS Ecotech and Suppliers	SE DEMS Shah North Zone	EE DEMS Shah North Zone
4	Dwarka -C	130	Dwarka Sector-29	28.552698	77.021095	Automatic	5	80%	Jun-23	NA	5.3	NA	1. Trashonomy Private Limited (Plastic). 2. Shree Sidhali Paper Mill Private Limited (Paper/Cardboard). 3. Shiva Taxfabs Limited (PET).	SE DEMS Najafgarh Zone	EE DEMS Najafgarh Zone
5	Raghubir Nagar	94	Raghubir Nagar	28°39'30.9"N	77°06'30.8"E	Semi-Automatic	15	100%		1	20	Nearby Brick Manufacturing Unit	Excellent Waste Management Bawana	SE DEMS West Zone	EE DEMS West Zone
6	Karam Pura	89	Zakhira	28.668316	77.166369	Semi-Automatic	8	100%		0.01	5.8		GEM Enviro Pvt Ltd	SE DEMS Karol Bagh Zone	EE DEMS Karol Bagh Zone
7	MCD		150 No.. at various FCTS/ Dhalaos at various locations			Manual	218	100%		174	44	WTE Plant	Big Kabadiwalas/ Rag Pickers/ Plastic industries by Zonal Level Concessionaires	SE DEMS of Zone	EE DEMS of Zone

Sorting & Recovery of Recyclables : Material Recovery Facilities : New Delhi Municipal Council

Sl No	Circle Name	Circle No.	Name/Location of MRF	Latitude	Longitude	Type of MRF (Manual /Semi Automatic/ Automatic Sorting)	Capacity (in TPD)	Present Utilization (%)	100 % Capacity Utilization Timeline	Quantum of Non Recyclable Waste Recovered (TPD)	Quantum of Recyclable Waste Recovered (TPD)	Disposal of Non-Recyclable Waste (Name of Authorized Agency etc.)	Disposal of Recyclable Waste (Name of Authorized Agency etc.)	Nodal Officer (Chief Engineer)	Officer responsible for recovery as per SWM Rules
1	Lodhi Colony	8	Opposite Palika Niwas			Manual	4.5	100	Achieved	Nil	4.5	NA	Chintan	Dr. Shakuntala Srivastava	Kahaniya Lal
2	Chanakya puri	10	Kautilya marg			Manual	4.5	100	Achieved	Nil	4.5	NA	Chintan	Dr. Vijay Patel	Jitendra
3	Laxmi Bai Nagar	13	Transfer station opp. JP Trauma centre			Semiautomatic	5	100	Achieved	Nil	5	NA	Metro	Dr. Gunjan Sahai	Jijhaniya

Sorting & Recovery of Recyclables : Material Recovery Facilities : Delhi Cantonment Board

Sl No	Ward Name	Ward No.	Name/Location of MRF	Latitude	Longitude	Type of MRF (Manual /Semi Automatic/ Automatic Sorting)	Capacity (in TPD)	Present Utilization (%)		100 % Capacity Utilization Timeline	Quantum of Non Recyclable Waste Recovered (TPD)	Quantum of Recyclable Waste Recovered (TPD)	Disposal of Non-Recyclable Waste (Name of Authorized Agency etc.)	Disposal of Recyclable Waste (Name of Authorized Agency etc.)	Nodal Officer (Chief Engineer)	Officer responsible for recovery as per SWM Rules
1	Sadar Bazar	8	Tigris Road	28.59307	77.122043	Manual	40	60%	24	July,2023	1	3	1. M/s E3 waste Solutions Pvt Ltd. 2. Waste to Energy Plant, Okhla	1. Integrated Rag Pickers 2. Cement Factory	Gyanendra Pal Singh, OIC Sanitation	Gyanendra Pal Singh, OIC Sanitation
2	Sadar Bazar	8	Dhobhi Ghat,Sadar Bazar	28.591101	77.120474	Manual	1	100		NA	1	0.3				
3	Shastri Bazar	3	Near Gopinath Circle	28.597428	77.132464	Manual	1	100		NA	0.5	0.2				
4	Naraina	1	Near HP Petrol Pump	28.62476	77.1348	Manual	1	100		NA	0.2	0.3				
5	Naraina	1	Near Subway	28.61908	77.13604	Manual	1	100		NA	0.2	0.4				
6	Village Old Nangal	7	Near Peer Baba	28.605193	77.115296	Manual	1	100		NA	0.3	0.5				
7	Village Jharera	5	Near Barat Ghar	28.580901	77.141756	Manual	1	100		NA	0.4	0.3				
8	Village Jharera	5	Near Pond	28.580902	77.141758	Manual	1	100		NA	0.5	0.2				
9	Mehram Nagar	5	Near CB Park	28.565884	77.124972	Manual	1	100		NA	0.5	0.3				
10	East Mehram Nagar	6	Near Balmiki Mandir	28.561628	77.126162	Manual	1	100		NA	0.5	0.3				
11	Shastri Bazar	3	Near Bank of Baroda	28.598212	77.135187	Manual	1	100		NA	0.5	0.2				

Annexure - 6



100% Processing of MSW: Existing Facilities

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Annexure-6

100% Processing of MSW Generated (Including WTE's, Bio methanation Plants/Bio-CNG, Bio-Gas, Compost Plants, Compost Pits, Organic Waste Convertors etc) (Excluding MRFs) : Municipal Corporation of Delhi														
SI No	Name of MSW Processing Facilities	Nos.	Location	Latitude	Longitude	Type of Facility (WtE/Compost/Bio-CNG/Bio-methanation/Bio-Gas/OWC)	Date of Commissioning	Capacity (in TPD)	Present Utilization Capacity (%)	100 % Capacity Utilization Timeline	Utilization of End Products (Compost, BioGas/ CNG)/ Rejects (Inerts)		Nodal Officer	Name of EE and Division
											Quantity (MT/ Day)	End User/Disposal site (Organization etc)		
1	Waste to Energy Plant	1	Okhla	28.55359572	77.2806721	Waste to Energy Plant	2012	1950	100	-	390	SLF okhla & Tajpur pahadi site	SE (SLF)Okhla	EE(SLF)/Okhla
2	Waste to Energy Plant	1	Bawana	28.79808411	77.0673625	Waste to Energy Plant	2017	2500	100	-	500	Brick Manufacturing Unit	SE (SLF) Bhalswa	EE DEMS HQ
3	Waste to Energy Plant	1	Tehkhand	28.50914170	77.2815751	Waste to Energy Plant	2022	2000	100	Jun-23	400	SLF okhla & Tajpur pahadi site	SE (SLF)Okhla	EE(WtE)
4	Waste to Energy Plant	1	Ghazipur	28.37215	77.19251	Waste to Energy Plant	2017	1300	95	-	260	Ghazipur Dumpsite	SE (SLF) Ghazipur	EE(SLF) Ghazipur
5	Composter	20	Various locations in MCD	-	-	Composter	-	20	100	-	20	Compost for free to RWAs/ Parks/ Horticulture Dept	SE(DEMS) of Zone	EE(DEMS)/ of Zone
6	Local Composting Units	211	Various locations in MCD	-	-	Local Composting Units	-	543	100	100	100	Horticulture Dept	SE(DEMS) of Zone	EE(DEMS)/ of Zone
	Total	235						8313	595	45178	1670			

Annexure-6

100% Processing of MSW Generated (Including WTE's, Bio methanation Plants/Bio-CNG, Bio-Gas, Compost Plants, Compost Pits, Organic Waste Convertors etc) (Excluding MRFs) : New Delhi Municipal Council													
Sl No	Name of MSW Processing Facilities	Location	Latitude	Longitude	Type of Facility (WtE/Compost/Bio-CNG/Bio-methanation/Bio-Gas/OWC)	Date of Commissioning	Capacity (in TPD)	Present Utilization Capacity (%)	100 % Capacity Utilization Timeline	Utilization of End Products (Compost, BioGas/ CNG)/ Rejects (Inerts)		Nodal Officer (Zonal Officer)	Name of Sanitary Inspector
										Quantity (MT)	End User/Disposal site (Organization etc)		
1	OWC, Shangri-La Eros Hotel	Shangri La Eros Hotel, 19, Ashoka Road, Connaught Place, New Delhi-110001	28.6212	77.218	OWC	2013	0.4	10	As per the present quantum of waste generation, the decentralised waste processing unit is being utilised completely. It also has the capacity to process further waste in case the the generation exceeds the present quantum.	0.03	Self Utilized by the entity/ULB		
2	OWC, The Imperial Hotel	Janpath Road, CP	28.6254	77.2172	OWC	2013	0.6	44		0.03			
3	OWC, The Royal Plaza Hotel	19, Ashoka Road	28.622	77.2174	OWC	2018	0.45	11		0.086			
4	OWC, Gurudwara Bangla Sahib	Gurudwara Bangla Sahib	28.6267	77.2103	OWC	2018	0.2	65		0.07			
5	OWC, The Metropolitan Hotel	Bangla Sahib Marg	28.6313	77.2077	OWC	2010	0.5	30		0.009	Self Utilized by the entity/ULB		
6	OWC, Birla Mandir	Mandir Marg	28.6326	77.1976	OWC	2016	0.1	50		0.005			
7	OWC, The Connaught by Taj	37, Shaheed Bhagat Singh Marg, Shivaji Stadium, Connaught Place	28.6324	77.2131	OWC	2020	0.2	45		0.005			
8	OWC, Le Meridian Hotel	Janpath Road, CP	28.6185	77.218	OWC	2013	1	16		0.045			
9	OWC, The Lalit Hotel	Barakhamba Road	28.6315	77.2265	OWC	2012	0.4	77		0.0125		Self Utilized by the entity/ULB	
10	OWC, Taj Mahal Hotel	No. 1, man Singh road, New Delhi-110011	28.6049	77.224	OWC	2016	0.2	8		0.009			
11	OWC, Ambassador Hotel (Taj Vivanta Hotel)	Sujan Singh Park, Subramania Bharti Marg	28.602	77.2287	OWC	2020	0.1	80		0.018			
12	OWC, Hotel Claridges	Hotel Claridges	28.6001	77.216	OWC	2013	0.1	75		0.055			
13	OWC, Oberoi Hotel	The Oberoi, Dr. Zakir Hussain Marg	28.5961	77.2393	OWC	2013	0.4	34		0.07	Self Utilized by the entity/ULB		
14	OWC, Delhi Golf Club	Dr. Zakir Hussain Road, New Delhi-110003	28.5972	77.238	OWC	2020-21	0.4	3		0.9			
15	OWC, AAI Club	B-1 Bungalow old area Safdarjung Airport New Delhi	28.5818	77.202	OWC	2018	0.05	50		0.015			
16	OWC, ITC Maurya Hotel	Near IIC Maurya, 110021	28.5967	77.1741	OWC	2007	1	48		0.12			

Annexure-6

100% Processing of MSW Generated (Including WTE's, Bio methanation Plants/Bio-CNG, Bio-Gas, Compost Plants, Compost Pits, Organic Waste Convertors etc) (Excluding MRFs) : New Delhi Municipal Council													
Sl No	Name of MSW Processing Facilities	Location	Latitude	Longitude	Type of Facility (WtE/Compost/Bio-CNG/Bio-methanation/Bio-Gas/OWC)	Date of Commissioning	Capacity (in TPD)	Present Utilization Capacity (%)	100 % Capacity Utilization Timeline	Utilization of End Products (Compost, BioGas/ CNG)/ Rejects (Inerts)		Nodal Officer (Zonal Officer)	Name of Sanitary Inspector
										Quantity (MT)	End User/Disposal site (Organization etc)		
17	OWC, Samrat Hotel	50-B, Kautilya Marg Near PM House, New Delhi-110021	28.596	77.1967	OWC	2015-16	0.075	100	As per the present quantum of waste generation, the decentralised waste processing unit is being utilised completely. It also has the capacity to process further waste in case the the generation exceeds the present quantum.	0.01	Self Utilized by the entity/ULB		
18	OWC, The Ashok Hotel	50B, Diplomatic Enclave, Chanakya Puri, Ne Delhi-110021	28.5968	77.1961	OWC	2015	0.13	42		0.016			
19	OWC, Chanakya Mall	The Chanakya Mall, Opp. - Post Office, Chanakya Puri, New Delhi-110021	28.5841	77.1908	OWC	2017	0.2	45		0.055			
20	OWC, Leela Palace Hotel	The Leela Palace Hotel, Netaji Nagar, New Delhi-110023	28.5806	77.1893	OWC	2012	0.5	100		0.137			
21	OWC, NBCC East Kidwai Nagar Complex	NBCC East Kidwai Nagar Complex	28.5731	77.2149	OWC	2018	0.5	40		0.2	Self Utilized by the entity/ULB		
22	OWC, Power Finance Commission	Urjanidhi, I, B.K Lane Connaught Place, New Delhi-110001	28.6315	77.2243	OWC	2018	0.05	100		0.025			
23	OWC, Nirman Bhawan	Nirman Bhawan, Maulana Azad Road	28.612	77.2141	OWC	2018	0.1	30		0.01			
24	OWC, Safdarjung Hospital	VMMC and Safdarjung Hospital, New Delhi	28.5662	77.2043	OWC	2017	2	63		0.192			
25	OWC, New Moti Bagh	GPRA Complex, New Moti Bagh, New Delhi	28.5813	77.1879	OWC	2013	1.5	46		0.94		Self Utilized by the entity/ULB	
26	OWC, Bharti Nagar	Near STP, Bharti Nagar	28.5921	77.2301	OWC	2021	1	24		0.2			
27	OWC, Madhumalimaye Marg Chanakyapuri	Madhumalimaye Marg, Chanakyapuri	28.5812	77.2011	OWC	2018	1	33		0.2			
28	OWC, Raja Bazaar	Raja Bazaar	28.631	77.2097	OWC	2019	1	44		0.2			
29	OWC, Sangli Mess	Sangli Mess	28.6213	77.2339	OWC	2019	1	45		0.2			
30	Sangli Apartment Compost Pit	Sangli Apartment, Near Princess Park	28.6193	77.2334	Community Composting Pit	2018	0.05	46	0.008	Self Utilized by the entity/ULB			
31	BG, Gymkhana Club	Delhi Gymkhana Club, 2, Safdarjung Road New Delhi-110011	28.5973	77.2064	Bio-Gas Plant	2015	1	40	30 cubic metre/Day				
32	BG, India International Centre	India International Centre, 40, Max Mueller Marg, Lodhi Road, Delhi	28.5931	77.2215	Bio-Gas Plant	2019	0.5	20	10 cubic metre/Day				

Annexure-6

100% Processing of MSW Generated (Including WTE's, Bio methanation Plants/Bio-CNG, Bio-Gas, Compost Plants, Compost Pits, Organic Waste Convertors etc) (Excluding MRFs) : New Delhi Municipal Council													
Sl No	Name of MSW Processing Facilities	Location	Latitude	Longitude	Type of Facility (WtE/Compost/Bio-CNG/Bio-methanation/Bio-Gas/OWC)	Date of Commissioning	Capacity (in TPD)	Present Utilization Capacity (%)	100 % Capacity Utilization Timeline	Utilization of End Products (Compost, BioGas/ CNG)/ Rejects (Inerts)		Nodal Officer (Zonal Officer)	Name of Sanitary Inspector
										Quantity (MT)	End User/Disposal site (Organization etc)		
33	BG, ITC Maurya	Near ITC Maurya, 110021	28.5967	77.1741	Bio-Gas Plant	2016	1	70	As per the present quantum of waste generation, the decentralised waste processing unit is being utilised completely. It also has the capacity to process further waste in case the the generation exceeds the present quantum.	140 cubic metre/Day	Self Utilized by the entity/ULB		
34	BG, NBCC East Kidwai Nagar	NBCC East Kidwai Nagar Complex	28.5729	77.2148	Bio-Gas Plant	2018	3	50		25 cubic metre/Day			
35	BG, Taj Palace Hotel	2, Sardar Patel Marg, New Delhi-110021	28.5951	77.1706	Bio-Gas Plant	2017	1	10		32 cubic metre/Day			
36	BG, The Park Hotel	15, The Parliament Street, The Park Hotel	28.6293	77.2163	Bio-Gas Plant	2015	1	10		0.006 cubic metre/Day			
37	WTE Plant Okhla	Ma Anandmayee Marg Tugalkabad Okhla Timarpur Okhla Waste Management Comapny Ltd, behind CRRM Mathur Road Okhla New Delhi	28.5088	77.2798	WTE	2012	450* (facility is with MCD)	60		405.38 MW/day	Self Utilized by the entity/ULB		
38	Compost Plant Okhla	Ma Anandmayee Marg Tugalkabad Okhla Timarpur Okhla Waste Management Comapny Ltd, behind CRRM Mathur Road Okhla New Delhi	28.5088	77.2798	Compost Plant	2018	60* (facility is with MCD)	42		0.1			
Total							22.705						

100% Processing of MSW Generated (Including WTE's, Bio methanation Plants/Bio-CNG, Bio-Gas, Compost Plants, Compost Pits, Organic Waste Convertors etc) (Excluding MRFs) : Delhi Cantonment Board													
Sl No	Name of MSW Processing Facilities	Location	Latitude	Longitude	Type of Facility (WtE/Compost/Bio-CNG/Bio-methanation/Bio-Gas/OWC)	Date of Commissioning	Capacity (in TPD)	Present Utilization Capacity (%)	100 % Capacity Utilization Timeline	Utilization of End Products (Compost, BioGas/ CNG)/ Rejects (Inerts)		Nodal Officer (Chief Engineer)	Name of EE and Division
										Quantity (MT)	End User/Disposal site (Organization etc)		
1	Sorting cum Composting Machine	Tigris Road, Sadar Bazar, Delhi Cantt	28.592338	77.121371	Composting	01.07.2022	20	100	NA	2	DCB	Gyanendra Pal Singh, OIC Sanitation	
2	Food Composter	Tigris Road, Sadar Bazar, Delhi Cantt	28.59307	77.122043	Composting	20.05.2018	0.175	100	NA	0.2	DCB		
Total							20.175						

Annexure - 7



100% Processing of MSW: Proposed Facilities

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Status of Proposed Processing Facilities (WTE's, Bio methanation Plants/Bio-CNG, Bio-Gas, Compost Plants, Compost Pits, Organic Waste Convertors etc.) : Municipal Corporation of Delhi

SI No	Name of Facility	Location	Number of Plant	Latitude	Longitude	Type of Facility (WtE/Compost/Bio-CNG/Dairy Waste Plant etc.)	Capacity (in TPD)	Physical Progress (%)	Financial Progress (%)	Present Status	Timeline	Nodal Officer	Name of EE and Division
1	Waste to Energy Plant	Narela Bawana	1	28.795450	77.063014	Waste to Energy Plant	3000	0	0	Matter pending in DERC for adoption of tariff.	Aug-26	SE (DEMS) HQ	EE (WtE) HQ
2	Waste to Energy Plant	Ghazipur	1	28.624553	77.327831	Waste to Energy Plant	2000	0	0	TEFR is under preparation.	Aug-27	SE (DEMS) HQ	EE (WtE) HQ
3	Expansion of existing WtE of 1950 TPD to 2950 TPD	Okhla	1	28.553596	77.280672	Waste to Energy Plant	1000	0	0	Environmental Clearance has been issued.	Dec, 2024	SE (SLF) Okhla	EE (SLF) Okhla
4	Bio CNG Plant	Okhla	1	28.552924	77.282651	Bio CNG Plant	300 (From existing compost plant of 200 TPD to 300 TPD)	10%	-	-	Jun-24	SE (SLF) Okhla	EE (SLF) Okhla
6	Compressed Bio Gas (CBG) Plant	Ghogha Dairy	1	28.817811	77.059679	Compressed Bio Gas (CBG) Plant	100	0	0	IGL has awarded the work	Dec, 24	SE (DEMS) HQ	EE (WtE) HQ
7	Decentralised Composter Plants	Vishwas Nagar	1			Composter	1	-	-	-	Jun-23	SE (DEMS) of Zone	
		New Ashok Nagar	1			Composter	1	-	-	-	Jun-23	SE (DEMS) of Zone	
Total			7				6402						

Annexure-7

Status of Proposed Processing Facilities (WTE's, Bio methanation Plants/Bio-CNG, Bio-Gas, Compost Plants, Compost Pits, Organic Waste Convertors etc.) : New Delhi Municipal Council

SI No	Name of Facility	Location	Latitude	Longitude	Type of Facility (WtE/Compost/Bio-CNG/Dairy Waste Plant etc.)	Capacity (in TPD)	Present Status	Financial Progress (%)	Timeline	Nodal Officer (Chief Engineer)	Name of EE and Division
1	Kartvya Path	North of Kartvya path			OWC	1	In process			CPWD	
2	PSOI	Chanakyapuri			OWC	1					
3	CSOI	Chanakyapuri			OWC	1					
4	Rakab Ganj Gurudwara	North Avenue			OWC	1					
5	AIIMS	Near INA			OWC	1					
6	RML	near Gole Market			OWC	1					
7	Lady Hardinge	Opp. Shivaji Stadium			OWC	1					
8	St. Colombus	Bhaivir sing road			OWC	1					
	Total	8				8					

Status of Proposed Processing Facilities (WTE's, Bio methanation Plants/Bio-CNG, Bio-Gas, Compost Plants, Compost Pits, Organic Waste Convertors etc.) : Delhi Cantonment Board

SI No	Name of Facility	Location	Latitude	Longitude	Type of Facility (WtE/Compost/Bio-CNG/Dairy Waste Plant etc.)	Capacity (in TPD)	Present Status	Financial Progress (%)	Timeline	Nodal Officer (Chief Engineer)	Name of EE and Division
1	03 Nos. Sorting cum Composting Machine	Kirby Place Hutments	28.60434	77.121328	Composting	60 (20 each)	Board has approved installation of 03 Nos. Of Sorting-Cum-Composting Machine. Procurement of machines will be initiated after finalization of necessary infrastructure and other arrangements.	0	Jul, 23	Gyanendra Pal Singh, OIC Sanitation	

Annexure - 8



Bulk Waste Generators

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Bulk Waste Generators (BWG) (Generating more than 100kg / day) and Decentralized Waste Processing Facilities (DWPFs): Municipal Corporation of Delhi									
S.No.	Zone Name	No. of Wards	No. of Bulk Waste Generator	Quantum of MSW Generation (in KG/ day)	Status of DWPFs (Yes/No)	Capacity of DWPFs (TPD)	Timeline for Installation of DWPFs	Nodal Officer	Name of EE and Division
1	Central Zone	25	8	1720	The data collection is under process from all 12 Zones			SE DEMS Central Zone	EE DEMS Central Zone
2	City SP Zone	12	15	1650				SE DEMS City SP Zone	EE DEMS City SP Zone
3	Civil Line Zone	15	21	2120				SE DEMS Civil Line Zone	EE DEMS Civil Line Zone
4	Karol Bagh Zone	13	17	1700				SE DEMS Karol Bagh Zone	EE DEMS Karol Bagh Zone
5	Keshavpuram Zone	15	45	4500				SE DEMS Keshavpuram Zone	EE DEMS Keshavpuram Zone
6	Najafgarh Zone	22	17	3070				SE DEMS Najafgarh Zone	EE DEMS Najafgarh Zone
7	Narela Zone	16	15	1500				SE DEMS Narela Zone	EE DEMS Narela Zone
8	North Shahdara Zone	35	0	0				SE DEMS Shah North Zone	EE DEMS Shah North Zone
9	Rohini Zone	23	16	2491				SE DEMS Rohini Zone	EE DEMS Rohini Zone
10	South Shahdara Zone	26	11	1100				SE DEMS Shah South Zone	EE DEMS Shah South Zone
11	South Zone	23	11	4430				SE DEMS South Zone	EE DEMS South Zone
12	West Zone	25	8	895				SE DEMS West Zone	EE DEMS West Zone
TOTAL		250	184	25176					

Bulk Waste Generators (BWG) (Generating more than 100kg / day) and Decentralized Waste Processing Facilities (DWPFs): New Delhi Municipal Council										
SI No	Name of Bulk Waste Generator	Category (Gated Society/Govt Institution/Hotel/Restaurant etc. as per SWM Rules)	Circle Name	Circle No.	Quantum of MSW Generation (TPD)	Status of DWPFs (Yes/No)	Capacity of DWPFs (TPD)	Timeline for Installation of DWPFs	Nodal Officer (Zonal Officer)	Name of Sanitary Inspector
1	Hotel Taj Palace	Hotels & Restaurants	Chanakya Puri	10	0.051	Yes	0.75	As per the present quantum of waste generation, the decentralised waste processing unit is being utilised completely. It also has the capacity to process further waste in case the generation exceeds the present quantum.		
2	Samrat Hotel	Hotels & Restaurants	Chanakya Puri	10	0.051	Yes	0.075			
3	Chanakya Mall	Malls/Cinema Buildings	Chanakya Puri	10	0.217	Yes	0.2			
4	Hotel Leela Palace	Hotels & Restaurants	Moti Bagh	12	0.113	Yes	0.5			

Bulk Waste Generators (BWG) (Generating more than 100kg / day) and Decentralized Waste Processing Facilities (DWPFs): New Delhi Municipal Council										
SI No	Name of Bulk Waste Generator	Category (Gated Society/Govt Institution/Hotel/Restaurant etc. as per SWM Rules)	Circle Name	Circle No.	Quantum of MSW Generation (TPD)	Status of DWPFs (Yes/No)	Capacity of DWPFs (TPD)	Timeline for Installation of DWPFs	Nodal Officer (Zonal Officer)	Name of Sanitary Inspector
5	Shangri La Eros Hotel	Hotels & Restaurants	Connaught Place	1	0.184	Yes	0.4	As per the present quantum of waste generation, the decentralised waste processing unit is being utilised completely. It also has the capacity to process further waste in case the generation exceeds the present quantum.		
6	The Park Hotel	Hotels & Restaurants	Connaught Place	1	0.069	Yes	1			
	BG, The Park Hotel	Hotels & Restaurants	Connaught Place	1		Yes	1			
7	Royal Plaza	Hotels & Restaurants	Connaught Place	1	0.006	Yes	0.45			
8	NBCC East Kidwai Nagar Complex	RWAs	Laxmi Bai Nagar	13	0.875	Yes	0.5			
	BG, NBCC East Kidwai Nagar Complex	RWAs	Laxmi Bai Nagar	13		Yes	3			
9	The Imperial	Hotels & Restaurants	Connaught Place	1	0.387	Yes	0.6			
10	Bangla Sahib Gurudwara	Educational Institutes	Connaught Place	1	0.05	Yes	0.2			
11	Birla Mandir	Tourist Areas	Diz Area	3	0.016	Yes	0.1			
12	Metropolitan	Hotels & Restaurants	Diz Area	3	0.144	Yes	0.5			
13	Le Meridian	Hotels & Restaurants	North Avenue Talkatora Road	4	0.19	Yes	1			
14	The Lalit Hotel	Hotels & Restaurants	Bengali Market	5	0.367	Yes	0.4			
15	Power Finance Corporation	Offices	Bengali Market	5	0.051	Yes	0.05			
16	The Taj mahal	Hotels & Restaurants	Khan Market	6	0.136	Yes	0.2			
17	Nirman Bhawan	Offices	Lok Kalyan Marg And Pm House	7	0.051	Yes	0.1			

Bulk Waste Generators (BWG) (Generating more than 100kg / day) and Decentralized Waste Processing Facilities (DWFs): New Delhi Municipal Council										
SI No	Name of Bulk Waste Generator	Category (Gated Society/Govt Institution/Hotel/Restaurant etc. as per SWM Rules)	Circle Name	Circle No.	Quantum of MSW Generation (TPD)	Status of DWFs (Yes/No)	Capacity of DWFs (TPD)	Timeline for Installation of DWFs	Nodal Officer (Zonal Officer)	Name of Sanitary Inspector
18	India International Centre (IIC)	Hotels & Restaurants	Lodhi Colony	8	0.071	Yes	0.5	As per the present quantum of waste generation, the decentralised waste processing unit is being utilised completely. It also has the capacity to process further waste in case the generation exceeds the present quantum.		
19	Ambassador Hotel	Hotels & Restaurants	Khan Market	6	0.11	Yes	0.1			
20	Delhi Gym Khana Club	Hotels & Restaurants	Lok Kalyan Marg And Pm House	7	0.31	Yes	1			
21	The Connaught by Taj	Hotels & Restaurants	Diz Area	3	0.15	Yes	0.2			
22	Delhi Golf Club	Hotels & Restaurants	Lodhi Colony	8	0.09	Yes	0.4			
23	Safdurjung Hospital	Hospitals/Nursing Homes	Laxmi Bai Nagar	13	5.42	Yes	2			
24	Hotel Claridges	Hotels & Restaurants	Lok Kalyan Marg And Pm House	7	0.008	Yes	0.1			
25	Oberoi Hotel	Hotels & Restaurants	Lodhi Colony	8	0.138	Yes	0.4			
26	AAI Club	Hotels & Restaurants	Jor Bagh	9	0.051	Yes	0.05			
27	ITC Maurya Hotel	Hotels & Restaurants	Chanakya Puri	10	0.071	Yes	1			
	BG, ITC Maurya	Hotels & Restaurants	Chanakya Puri	10		Yes	1			
28	The Ashoka Hotel	Hotels & Restaurants	Chanakya Puri	10	0.057	Yes	0.13			
	Total				9.434		17.905			

Annexure - 9



Bio-mining of Legacy Waste

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Bio-mining of Legacy Waste at 3 Dumpsites : Municipal Corporation of Delhi

Name of Dumpsite	Legacy Waste Present at Site July, 2019 in Lakh Tons	Legacy Waste Processed till 28.02.2023	Legacy Waste at Dumpsites including fresh MSW dumped in Lakh Ton as per the volumetric assessment in June-2022 through Drone Survey*	Quantity of fresh MSW dumped from July 2022 to 28.02.2023 (Lakh MT)	Total Quantity of Legacy Waste Bio-mined from July 2022 to 28.02.2023 (Lakh MT)	Balance Quantity of Waste at Dumpsite (Lakh MT)	No. of Trommels working at Dumpsite	Biomining Timeline (Legacy plus fresh waste)			Nodal Officer	Name of EE and Division responsible for Biomining as per timelines
								50%	75%	100%		
Ghazipur	140	17.14	85	4.96	11.5	78.46	22	Aug-23	Feb-24	May-24	SE (SLF) Ghazipur	EE (SLF) Ghazipur
Okhla	60	25.62	45	5.17	7.5	42.67	9	Aug-23	Feb-24	May-24	SE (SLF) Okhla	EE (SLF) Okhla
Bhalaswa	80	29.65	73	5.11	4.95	73.16	18	Aug-23	Feb-24	May-24	SE (SLF) Bhalaswa	EE (SLF) Bhalaswa
Total	280	72.41	203	15.24	23.95	194.29	49					

* Drone survey had taken the qty above the ground level

Name of Dumpsite	No. of Trommels working at Dumpsite	Capacity of Trommels engaged at Dumpsite (in TPD)	No. of Additional Trommels proposed to achieve timelines	Capacity of Additional Trommels proposed (TPD)	Timeline for engagement of additional Trommels to achieve timelines	Nodal Officer	Name of EE and Division responsible for Biomining as per timelines
Ghazipur	22	8800	4	1600	Jun-23	SE (SLF) Ghazipur	EE (SLF) Ghazipur
Okhla	9	9000	2	2000	Jun-23	SE (SLF) Okhla	EE (SLF) Okhla
Bhalaswa	18	7200	4	1600	Jun-23	SE (SLF) Bhalaswa	EE (SLF) Bhalaswa
Total	49	25000	10	5200			

Annexure - 10



LW-Disposal/Utilization of Inert Generated
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Disposal / Utilization of Inert Generated from Bio-mining of Legacy Waste : Municipal Corporation of Delhi								
Name of Dumpsite	Waste at Dumpsites (as on 28.02.2023) in Lakh Ton	Inert generated from bio mining and lying undisposed (as on 28.02.2023) in Lakh Ton	Estimated Inert Generation from Bio-mining of Legacy Waste (Lakh Ton) till biomining timelines	Utilization Status of Generated Inert (Tons/ %)	Name of Disposal sites available with capacity (in Lakh Tons)	Proposed sites for disposal with capacity (in Lakh Tons)	Nodal Officer	Name of EE and Division
Ghazipur	78.46	0.2	65-70% of total legacy waste	100%	The MCD has awarded integrated work of Bio-mining and disposal of bio-mined fractions. The concessionaire is responsible to achieve targets of disposal. MCD is facilitating the agency to liason with all prospective departments. Presently, inert fractions is being disposed off at NHA's project sites , afforestation grounds, low lying pits /plots etc.	The MCD has awarded integrated work of Bio-mining and disposal of bio-mined fractions. The concessionaire is responsible to achieve targets of disposal. MCD is facilitating the agency to liason with all prospective departments. Presently, inert fractions is being disposed off at NHA's project sites , afforestation grounds, low lying pits /plots etc.	SE(SLF) Ghazipur	EE(SLF) Ghazipur
Okhla	42.67	0	70-75% of total legacy waste	100%			SE(SLF) Okhla	EE(SLF) Okhla
Bhalswa	73.16	0.1	55-65% of total legacy waste	100%			SE(SLF) Bhalswa	EE(SLF) Bhalswa

Annexure - 11



LW-Disposal/Utilization of C&D Waste Generated

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Status of Disposal of C&D waste from Biomining of Legacy Waste : Municipal Corporation of Delhi

Name of Dumpsite	Waste at Dumpsites (as on 28.02.2023) in Lakh Ton	C&D waste generated from bio mining and lying undisposed (as on 28.02.2023) in Lakh Ton	Estimated C&D waste Generation from Bio-mining of Legacy Waste (Lakh Ton) till biomining timelines	Utilization Status of Generated C&D waste (Tons/ %)	Name of Disposal sites available with capacity (in Lakh Tons)	Proposed sites for disposal with capacity (in Lakh Tons)	Nodal Officer	Name of EE and Division
Ghazipur	78.46	0.1	10-15% of total legacy waste	100%	1. C&D generated from the bio mining is being disposed off by the Concessionaire. 2. C&D generated from bio-mining is being disposed off at NHA's project site. Low lying areas & privates plots	1.C&D generated from the bio mining is being disposed off by the Concessionaire 2. C&D generated from bio-mining is being disposed off at NHA's project site. Low lying areas & privates plots	SE(SLF) Ghazipur	EE(SLF) Ghazipur
Okhla	42.67	1.0	20% of total legacy waste	10%			SE(SLF) Okhla	EE(SLF) Okhla
Bhalswa	73.16	0.1	12% of total legacy waste	100%			SE(SLF) Bhalswa	EE(SLF) Bhalswa

Annexure - 12



LW-Disposal/Utilization of RDF Generated

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Status Disposal of RDF from Biomining of Legacy Waste : Municipal Corporation of Delhi

Name of Dumpsite	Waste at Dumpsites (as on 28.02.2023) in Lakh Ton	RDF generated from bio mining and lying undisposed (as on 28.02.2023) in Lakh Ton	Estimated RDF Generation from Bio-mining of Legacy Waste (Lakh Ton) till biomining timelines	Utilization Status of Generated RDF (Tons/ %)	Name of plants (WtEs & Cement etc.) available for disposal with capacity (in Lakh Tons)	Proposed Plants (WtEs & Cement etc.) for disposal with capacity (in Lakh Tons)	Nodal Officer	Name of EE and Division
Ghazipur	78.46	0.24	15-20% of total legacy waste	3%	1. Cement Plants 2. Disposal of RDF in Processing facility at Ghaziabad	1. Cement Plants 2. Disposal of RDF in Processing facility at Ghaziabad	SE(SLF)Ghazipur	EE(SLF)Ghazipur
Okhla	42.67	0.2	5-10% of total legacy waste	3%	1. Disposal of RDF at paper mill in Shamli 2. More industries are being approached for utilisation of RDF	1. Disposal of RDF at paper mill in Shamli 2. More industries are being approached for utilisation of RDF	SE(SLF)Okhla	EE(SLF)Okhla
Bhalswa	73.16	0.2	10% of total legacy waste	18%	1) JK cement Chittorgarh-Rajasthan 2) Nitika papers mill Shamli-U.P	1) JK cement Chittorgarh-Rajasthan 2) Nitika papers mill Shamli-U.P	SE(SLF)Bhalswa	EE(SLF)Bhalswa

Annexure - 13



Prevention of Fire Incidents at Dumpsites

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Prevention of Fire Incidents at Dumpsites

Name of Dumpsite	Manpower Deployed for Vigilance (Nos)	Additional Manpower required for ensuring Zero Landfill fires	Timeline for engagement of additional manpower required	Nodal Officer	Name of EE and Division
Ghazipur	6	4	Apr-23	SE(SLF)Ghazipur	EE(SLF)Ghazipur
Okhla	6	0	NA	SE(SLF)Okhla	EE(SLF)Okhla
Bhalaswa	6	4	Apr-23	SE(SLF)Bhalaswa	EE(SLF)Bhalaswa

Name of Dumpsite	CCTV Cameras Installed (Nos)	CCTV Cameras assessed to be required for full coverage of the site (Nos)	Timeline for installation of CCTV cameras required	Nodal Officer	Name of EE and Division
Ghazipur	22	10	Apr-23	SE(SLF)Ghazipur	EE(SLF)Ghazipur
Okhla	35	0	NA	SE(SLF)Okhla	EE(SLF)Okhla
Bhalaswa	31	NA	NA	SE(SLF)Bhalaswa	EE(SLF)Bhalaswa

Name of Dumpsite	Methane release system (No. of Perforated pipes)	Methane release system (No. of perforated pipes) assessed to be required to ensure zero landfill fires	Timeline for installation of Methane release system required	Nodal Officer	Name of EE and Division
Ghazipur	10	5	Mar-23	SE(SLF)Ghazipur	EE(SLF)Ghazipur
Okhla	No fresh waste is being dumped at Site.			SE(SLF)Okhla	EE(SLF)Okhla
Bhalaswa	0	10	Apr-23	SE(SLF)Bhalaswa	EE(SLF)Bhalaswa

Name of Dumpsite	Water Sprinkler/Tanker at Service (24x7) (Nos)	Water Sprinkler/Tanker assessed to be required for ensuring Zero Landfill fires (Nos)	Timeline for engagement of additional Water sprinkler/Tankers required	Nodal Officer	Name of EE and Division
Ghazipur	4	0	NA	SE(SLF)Ghazipur	EE(SLF)Ghazipur
Okhla	4	0	NA	SE(SLF)Okhla	EE(SLF)Okhla
Bhalaswa	4	0	NA	SE(SLF)Bhalaswa	EE(SLF)Bhalaswa

Name of Dumpsite	No. of Temperature Sensors Installed	Methane Measurement being done	CO Measurement being done	Nodal Officer	Name of EE and Division
		(Yes/No)	(Yes/No)		
Ghazipur	1	No	No	SE(SLF)Ghazipur	EE(SLF)Ghazipur
Okhla	0	No	No	SE(SLF)Okhla	EE(SLF)Okhla
Bhalaswa	1	No	No	SE(SLF)Bhalaswa	EE(SLF)Bhalaswa

Annexure - 14



Engineered Sanitary Landfill

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Status of Existing Engineered Sanitary Landfill : Municipal Corporation of Delhi

SI No	Name of Engineered Sanitary Landfill	Location	Latitude	Longitude	Area (in Acres)	Date of Commissioning	Total Capacity (in Lakh MT)	Quantity Dumped (in Lakh MT)	Remaining Available Capacity (in Lakh MT)	Nodal Officer	Name of EE and Division
1	Bawana										

Status of Proposed Engineered Sanitary Landfill : Municipal Corporation of Delhi

SI No	Name of Engineered Sanitary Landfill	Location	Latitude	Longitude	Area (in Acres)	Total Capacity (in Lakh MT)	Physical Progress (%)	Financial Progress (%)	Remarks	Nodal Officer	Name of EE and Division
1	Tekhhand	Tekhhand	28.50823	77.28291	15.46	9.64	42	32	-	SE (SLF) Okhla	EE (SLF) Okhla

Annexure - 15



Domestic Hazardous Waste and Sanitary Waste Management

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100 % Collection, Transportation & Disposal of Domestic Hazardous Waste and Sanitary Waste : Municipal Corporation of Delhi													
S. No.	Zone Name	Ward Nos.	Waste Generation in TPD	CFL Bulbs, Tube Lights, Discarded Paint Drums, Pesticides Cans, used Batteries etc. (in TPD) (A)	Expired Medicines, Broken Mercury Thermometers, used Needles and Syringes and Contaminated gauge, etc., generated at the household level (in TPD) (B)	Sanitary Waste (Used Diapers, Sanitary Towels / Napkins etc as mentioned in SWM Rules, 2016) (in TPD) (C)	Name and location of Waste Deposition Centers for Domestic Hazardous Waste (A and B)	Name and location of Waste Deposition Centers for Sanitary Waste (C)	Timelines for 100 % Collection, Transportation & Disposal of Domestic Hazardous Waste at the TSDF for Hazardous Waste at Bawana	Timelines for 100 % Collection, Transportation & Disposal of Bio-medical Waste at the 2 Common Biomedical Waste Treatment Facilities in Delhi	Present Status	Nodal Officer	Name of EE and Division
1	Central Zone	25	1000	1	Biomedical Waste is collected only from healthcare facilities in MCD. As per the rules, ULB is not responsible to collect biomedical waste from the households.	2	All the Auto Tippers have black box attached for separate collection of Domestic Hazardous Waste and Sanitary Waste which is then transported to WTE Plants for final disposal	DHW and Sanitary Waste is sent to WTE Plants as per the rules.				SE DEMS Central Zone	EE DEMS Central Zone
2	City SP Zone	12	950	0.95		1.9						SE DEMS City SP Zone	EE DEMS City SP Zone
3	Civil Line Zone	15	800	0.8		1.6						SE DEMS Civil Line Zone	EE DEMS Civil Line Zone
4	Karol Bagh Zone	13	850	0.85		1.7						SE DEMS Karol Bagh Zone	EE DEMS Karol Bagh Zone
5	Keshavpuram Zone	15	800	0.8		1.6						SE DEMS Keshavpuram Zone	EE DEMS Keshavpuram Zone
6	Najafgarh Zone	22	900	0.9		1.8						SE DEMS Najafgarh Zone	EE DEMS Najafgarh Zone
7	Narela Zone	16	500	0.5		1						SE DEMS Narela Zone	EE DEMS Narela Zone
8	North Shahdara Zone	35	1250	1.25		2.5						SE DEMS Shah North Zone	EE DEMS Shah North Zone
9	Rohini Zone	23	950	0.95		1.9						SE DEMS Rohini Zone	EE DEMS Rohini Zone
10	South Shahdara Zone	26	1200	1.2		2.4						SE DEMS Shah South Zone	EE DEMS Shah South Zone
11	South Zone	23	900	0.9		1.8						SE DEMS South Zone	EE DEMS South Zone
12	West Zone	25	900	0.9		1.8						SE DEMS West Zone	EE DEMS West Zone
		250	11000	11		22							

100 % Collection, Transportation & Disposal of Domestic Hazardous Waste and Sanitary Waste : New Delhi Municipal Council

S.No.	Circle Name	Circle No.	CFL Bulbs, Tube Lights, Discarded Paint Drums, Pesticides Cans, used Batteries etc. (in TPD) (A)	Expired Medicines, Broken Mercury Thermometers, used Needles and Syringes and Contaminated gauge, etc., generated at the household level (in TPD) (B)	Sanitary Waste (Used Diapers, Sanitary Towels / Napkins etc as mentioned in SWM Rules, 2016) (in TPD) (C)	Name and location of Waste Deposition Centers for Domestic Hazardous Waste (A and B)	Name and location of Waste Deposition Centers for Sanitary Waste (C)	Timelines for 100 % Collection, Transportation & Disposal of Domestic Hazardous Waste at the TSDF for Hazardous Waste at Bawana	Timelines for 100 % Collection, Transportation & Disposal of Bio-medical Waste at the 2 Common Biomedical Waste Treatment Facilities in Delhi	Present Status	Nodal Officer(Chief Engineer/Zonal Officer)	Name of EE and Division(Name of Sanitary Inspector)
1	Connaught Place	1	0.074	0.077	MRF cum Transfer Station	WTE	NA	NA	Compliance	Dr. Vijay Patel (S.M.O)	Sh. Sri Kishan Yadav Sh. Rakesh Kumar Sharma Sh. Jal Singh Meena	
2	Gole Market	2	0.042	0.044						Dr. Gunjan Sahai (CMO)	Sh. Nishant	
3	DIZ Area	3	0.085	0.089						Dr. Vijay Patel (S.M.O)	Ms. Seema Shekhawat Sh. Amit Kumar	
4	North Avenue Talkatora Road	4	0.036	0.037						Dr. Vijay Patel (S.M.O)	Sh. Sunil Verma Sh. Sunil Kumar	
5	Bangali Market	5	0.044	0.046						Dr. S. Srivastava (C.M.O)	Sh. Sher Singh Sh. M.P.S Sethi	
6	Khan Market	6	0.022	0.023						Dr. S. Srivastava (C.M.O)	Sh. Vijay Sharma Sh. Krishan Kumar	
7	Lok Kalyan Marg and PM House	7	0.024	0.025						Dr. S. Srivastava (C.M.O)	Sh. Rakesh Kumar Gondia Sh. Rajender Singh	
8	Lodhi Colony	8	0.025	0.026						Dr. S. Srivastava (C.M.O)	Sh. Ram Pal Yadav Sh. Kanhaiya Lal	
9	Jor Bagh	9	0.054	0.056						Dr. S. Srivastava (C.M.O)	Sh. Gopi Chand Sh. N.S. Bhati	
10	Chanakya Puri	10	0.104	0.108						Dr. Vijay Patel (S.M.O)	Sh. Mahesh Kumar Dhiryan Sh. Jitender Avtar	
11	Sarojini Nagar	11	0.107	0.112						Dr. Gunjan Sahai (CMO)	Sh. Tulsi Ram Sharma Sh. R.S. Meena	
12	Moti Bagh	12	0.031	0.032						Dr. Gunjan Sahai (CMO)	Sh. Parvez Khan Sh. Ashok Kumar Sharma	
13	Laxmi Bai Nagar	13	0.056	0.058						Dr. Gunjan Sahai (CMO)	Sh. Naveen Kumar Sh. Anil Kumar	
14	Tilak Marg	14	0.016	0.017						Dr. Gunjan Sahai (CMO)	Sh. Rameshwar Dayal Sh. K.L. Sharma	
		Total	0.72	0.75								

100 % Collection, Transportation & Disposal of Domestic Hazardous Waste and Sanitary Waste : Delhi Cantonment Board												
S.No.	Ward Name	Ward No.	CFL Bulbs, Tube Lights, Discarded Paint Drums, Pesticides Cans, used Batteries etc. (in TPD) (A)	Expired Medicines, Broken Mercury Thermometers, used Needles and Syringes and Contaminated gauge, etc., generated at the household level (in TPD) (B)	Sanitary Waste (Used Diapers, Sanitary Towels / Napkins etc as mentioned in SWM Rules, 2016) (in TPD) (C)	Name and location of Waste Deposition Centers for Domestic Hazardous Waste (A and B)	Name and location of Waste Deposition Centers for Sanitary Waste (C)	Timelines for 100 % Collection, Transportation & Disposal of Domestic Hazardous Waste at the TSDF for Hazardous Waste at Bawana	Timelines for 100 % Collection, Transportation & Disposal of Bio-medical Waste at the 2 Common Biomedical Waste Treatment Facilities in Delhi	Present Status	Nodal Officer (Chief Engineer)	Name of EE and Division
1	Naraina	1	0.012	0	0.001	Tigirs Road	Cantonment General Hospital	31.07.2023	NA	100 % Sanitary and Bio-medical waste is handed over to M/s Biotic Solution waste Pvt. Ltd.	Gyanendra Pal Singh, OIC Sanitation	
2	Uri Enclave	2	0.001	0	0							
3	Shastri Bazar	3	0.001	0	0.001							
4	Subrato Park	4	0.002	0	0							
5	Village Jharera	5	0.018	0	0.001							
6	East Mehram Nagar	6	0.002	0	0.001							
7	Village Old Nangal	7	0.004	0	0							
8	Sadar Bazar	8	0.01	0.016	0.001							
		Total	0.05	0.016	0.005							

Annexure - 16



Street Sweeping/ Drain Silt Management

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**100 % Collection, Transportation & Disposal of Street Sweepings and Silt Removed / Collected from the Surface Drains :
Municipal Corporation of Delhi**

SI No	Zone Name	No. of Wards	No. of MRS	Street Sweepings (in TPD) including MRS machine road dust	Silt Removed / Collected from Surface Drains (TPD)	Present disposal site of sweepings and silt with capacity (Lakh Tons)	Additional disposal sites with capacity if required (Lakh Tons)	Timelines for 100 % Collection, Transportation & Disposal of Street Sweepings and Silt Removed / Collected from the Surface Drains	Nodal Officer	Name of EE and Division
1	Central Zone	25	7	21	Approx 96165 MT in year 2022	Okhla, Bhalswa, Ghazipur Dumpsites		Completed (100%)	SE Maintenance of Zone	Assistant Commissioner of Zone EE Maintenance of Zone
2	City SP Zone	12	2	6						
3	Civil Line Zone	15	3	9						
4	Karol Bagh Zone	13	2	6						
5	Keshavpuram Zone	15	5	15						
6	Najafgarh Zone	22	8	24						
7	Narela Zone	16	2	6						
8	North Shahdara Zone	35	2	6						
9	Rohini Zone	23	4	12						
10	South Shahdara Zone	26	5	15						
11	South Zone	23	7	21						
12	West Zone	25	5	15						
	Total	250	52	156						

**100 % Collection, Transportation & Disposal of Street Sweepings and Silt Removed / Collected from the Surface Drains :
New Delhi Municipal Corporation**

S.No	Circle Name	Circle No.	Street Sweepings (in TPD) including MRS machine road dust	Silt Removed / Collected from Surface Drains (TPD)	Present disposal site of sweepings and silt with capacity (Lakh Tons)	Additional disposal sites with capacity if required (Lakh Tons)	Timelines for 100 % Collection, Transportation & Disposal of Street Sweepings and Silt Removed / Collected from the Surface Drains	Nodal Officer(Chief Engineer/Zonal Officer)	Name of EE and Division(Name of Sanitary Inspector)
1	Connaught Place	1	0.5		Okhla			CL Meena	
2	Gole Market	2	0.65					CL Meena	
3	DIZ Area	3	0.6					CL Meena	
4	North Avenue Talkatora Road	4	0.45					CL Meena	
5	Bangali Market	5	0.5					CL Meena	
6	Khan Market	6	0.55					CL Meena	
7	Lok Kalyan Marg and PM House	7	0.4					CL Meena	
8	Lodhi Colony	8	0.4					CL Meena	
9	Jor Bagh	9	0.6					CL Meena	
10	Chanakya Puri	10	0.55					CL Meena	
11	Sarojini Nagar	11	0.45					CL Meena	
12	Moti Bagh	12	0.6					CL Meena	
13	Laxmi Bai Nagar	13	0.65					CL Meena	
14	Tilak Marg	14	0.55					CL Meena	
	Total		7.45						

Delhi Cantonment Board

1	Naraina	1	0.06	0.2	Tajpur, Near Badarpur Border	No	Already complied	Gyanendra Pal Singh, OIC Sanitation	
2	Uri Enclave	2	0.01	0					
3	Shastri Bazar	3	0.04	0.3					
4	Subrato Park	4	0.001	0					
5	Village Jharera	5	0.077	0.2					
6	East Mehram Nagar	6	0.062	0.1					
7	Village Old Nangal	7	0.05	0.2					
8	Sadar Bazar	8	0.2	0.5					
	Total		0.5	1.5					

Annexure - 17



Plastic Waste Management

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100 % Collection, Transportation & Recycling/Processing of Plastic Waste : Municipal Corporation of Delhi											
S.No.	Zone Name	Ward Nos.	Waste Generation in TPD	Plastic Waste Generation (in TPD)	Plastic Waste Collection & Transportation (in TPD)	Plastic Waste Recycling /Processing/ (in TPD)	Gap in Processing/recycling of Plastic waste (in TPD)	Timelines for 100 % Processing/Recycling of Plastic Waste	Present Status	Nodal Officer	Name of EE and Division
1	Central Zone	25	1000	100	100	78	22	Jun-24		SE DEMS Central Zone	EE DEMS Central Zone
2	City SP Zone	12	950	95	95	74	21			SE DEMS City SP Zone	EE DEMS City SP Zone
3	Civil Line Zone	15	800	80	80	62	18			SE DEMS Civil Line Zone	EE DEMS Civil Line Zone
4	Karol Bagh Zone	13	850	85	85	66	19			SE DEMS Karol Bagh Zone	EE DEMS Karol Bagh Zone
5	Keshavpuram Zone	15	800	80	80	62	18			SE DEMS Keshavpuram Zone	EE DEMS Keshavpuram Zone
6	Najafgarh Zone	22	900	90	90	70	20			SE DEMS Najafgarh Zone	EE DEMS Najafgarh Zone
7	Narela Zone	16	500	50	50	39	11			SE DEMS Narela Zone	EE DEMS Narela Zone
8	North Shahdara Zone	35	1250	125	125	98	28			SE DEMS Shah North Zone	EE DEMS Shah North Zone
9	Rohini Zone	23	950	95	95	74	21			SE DEMS Rohini Zone	EE DEMS Rohini Zone
10	South Shahdara Zone	26	1200	120	120	94	26			SE DEMS Shah South Zone	EE DEMS Shah South Zone
11	South Zone	23	900	90	90	70	20			SE DEMS South Zone	EE DEMS South Zone
12	West Zone	25	900	90	90	70	20			SE DEMS West Zone	EE DEMS West Zone
		250	11000	1100	1100	858	242				

100 % Collection, Transportation & Recycling/Processing of Plastic Waste : New Delhi Municipal Council										
S.No.	Circle Name	Circle No.	Plastic Waste Generation (in TPD)	Plastic Waste Collection & Transportation (in TPD)	Plastic Waste Recycling/Processing (in TPD)	Gap in Processing /recycling of Plastic waste (in TPD)	Timelines for 100 % Processing/Recycling of Plastic Waste	Present Status	Nodal Officer(Chief Engineer/Zonal Officer)	Name of EE and Division(Name of Sanitary Inspector)
1	Connaught Place	1	0.75	0.75	0.75	0	Achieved		Dr. Vijay Patel (S.M.O)	Sh. Sri Kishan Yadav Sh. Rakesh Kumar Sharma Sh. Jal Singh Meena
2	Gole Market	2	0.6	0.6	0.6	0	Achieved		Dr. Gunjan Sahai (CMO)	Sh. Nishant
3	DIZ Area	3	0.65	0.65	0.65	0	Achieved		Dr. Vijay Patel (S.M.O)	Ms. Seema Shekhawat Sh. Amit Kumar
4	North Avenue Talkatora Road	4	0.6	0.6	0.6	0	Achieved		Dr. Vijay Patel (S.M.O)	Sh. Sunil Verma Sh. Sunil Kumar
5	Bangali Market	5	0.7	0.7	0.7	0	Achieved		Dr. S. Srivastava (C.M.O)	Sh. Sher Singh Sh. M.P.S Sethi
6	Khan Market	6	0.65	0.65	0.65	0	Achieved		Dr. S. Srivastava (C.M.O)	Sh. Vijay Sharma Sh. Krishan Kumar
7	Lok Kalyan Marg and PM House	7	0.6	0.6	0.6	0	Achieved		Dr. S. Srivastava (C.M.O)	Sh. Rakesh Kumar Gondia Sh. Rajender Singh
8	Lodhi Colony	8	0.65	0.65	0.65	0	Achieved		Dr. S. Srivastava (C.M.O)	Sh. Ram Pal Yadav Sh. Kanhaiya Lal
9	Jor Bagh	9	0.6	0.6	0.6	0	Achieved		Dr. S. Srivastava (C.M.O)	Sh. Gopi Chand Sh. N.S. Bhati
10	Chanakya Puri	10	0.7	0.7	0.7	0	Achieved		Dr. Vijay Patel (S.M.O)	Sh. Mahesh Kumar Dhريان Sh. Jitender Avtar
11	Sarojini Nagar	11	0.8	0.8	0.8	0	Achieved		Dr. Gunjan Sahai (CMO)	Sh. Tulsi Ram Sharma Sh. R.S. Meena
12	Moti Bagh	12	0.65	0.65	0.65	0	Achieved		Dr. Gunjan Sahai (CMO)	Sh. Parvez Khan Sh. Ashok Kumar Sharma
13	Laxmi Bai Nagar	13	0.65	0.65	0.65	0	Achieved		Dr. Gunjan Sahai (CMO)	Sh. Naveen Kumar Sh. Anil Kumar
14	Tilak Marg	14	0.65	0.65	0.65	0	Achieved		Dr. Gunjan Sahai (CMO)	Sh. Rameshwar Dayal Sh. K.L. Sharma
	Total		9.25	9.25	9.25	0				

100 % Collection, Transportation & Recycling/Processing of Plastic Waste : Delhi Cantonment Board

S.No.	Ward Name	Ward No.	Plastic Waste Generation (in TPD)	Plastic Waste Collection & Transportation (in TPD)	Plastic Waste Recycling/Processing (in TPD)	Gap in Processing /recycling of Plastic waste (in TPD)	Timelines for 100 % Processing/Recycling of Plastic Waste	Present Status	Nodal Officer (Chief Engineer)	Name of EE and Division
1	Naraina	1	0.4	0.4	1.Integrated rag pickers. 2. Cement Factory	Nil	NA	100% plastic waste is being processed	Gyanendra Pal Singh, OIC Sanitation	
2	Uri Enclave	2	0.2	0.2						
3	Shastri Bazar	3	1	1						
4	Subrato Park	4	0.1	0.1						
5	Village Jharera	5	0.4	0.4						
6	East Mehram Nagar	6	0.2	0.2						
7	Village Old Nangal	7	0.4	0.4						
8	Sadar Bazar	8	1.3	1.3						
	Total		4	4						

Annexure - 18



Horticulture Waste Management

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Annexure-18

100 % Collection, Transportation & Processing/Disposal of Horticultural Waste : New Delhi Municipal Council													
S.No	Circle Name	Circle No.	Horticultural Waste Generation (in TPD)	Horticultural Waste Collection & Transportation (in TPD)	Horticultural Waste Processing (in TPD)	Name/Location of Processing Site	Latitude of Processing Facility	Longitude of Processing Facility	Gap in processing of Horticultural Waste (in TPD)	Timelines for 100 % Processing of Horticultural Waste	Present Status	Nodal Officer (Chief Engineer)	Name of EE and Division
1	Lodhi Colony	8		on site collection	0.032	Lodi Garden near to Gate No. 1	28.590298	77.220123	Nil	60 days	Working		Mr. Kaushik
2	Lodhi Colony	8		on site collection	0.043	Lodi Garden near to Gate No. 4	28.5943693	77.223210	Nil	60 days	Working		Mr. Kaushik
3	Lodhi Colony	8		on site collection	0.042	Lodi Garden near to Gate No. 5	28.5970012	77.220936	Nil	60 days	Working		Mr. Kaushik
4	Lodhi Colony	8		on site collection	0.032	Lodi Garden near to Gate No. 7	28.5923334	77.217145	Nil	60 days	Working		Mr. Kaushik
5	Lodhi Colony	8		on site collection	0.028	Lodi Garden near to Gate No. 7, Palm section	28.5911468	77.223451	Nil	60 days	Working		Mr. Kaushik
6	Lodhi Colony	8		on site collection	0.037	Lodi Garden near to Gate No. 10	28.589725	77.219458	Nil	60 days	Working		Mr. Kaushik
7	Lodhi Colony	8		on site collection	0.035	Lodi Garden in Glass House Nursery	28.5920136	77.216685	Nil	60 days	Working		Mr. Kaushik
8	Lodhi Colony	8		on site collection	0.0048	Golf Link in front of Kothi No. 182	28.5964669	77.231313	Nil	60 days	Working		Mr. Kaushik
9	Jor Bagh	9		on site collection	0.020	Park in front of Kothi No. 132, Jor Bagh	28.5877509	77.215847	Nil	60 days	Working		Mr. Kaushik
10	Jor Bagh	9		on site collection	0.018	Park in front of Kothi No. 100, Jor Bagh	28.5877427	77.214983	Nil	60 days	Working		Mr. Kaushik
11	Jor Bagh	9		on site collection	0.017	Park in front of Kothi No. 113, Jor Bagh	28.586492	77.214249	Nil	60 days	Working		Mr. Kaushik
12	Jor Bagh	9		on site collection	0.022	Backside of Palika Kunj, C Block, B.K. Dutt Colony	28.5811171	77.215207	Nil	60 days	Working		Mr. Kaushik
13	Chanakya Puri	10	0.21	0.21	0.21	Near small Parking, Nehru Park	77.194561, 28.588600		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
14	Chanakya Puri	10	0.23	0.23	0.23	Between Mata Mandir, Balmeki Marg Balmeki Mandir in Nehru Park	77.194186, 28.589984		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
15	Chanakya Puri	10	0.34	0.34	0.34	Near Balmeki Mandir in Nehru Park	77.194078, 28.590411		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
16	Chanakya Puri	10	0.32	0.32	0.32	Near big Parking behind Bhairow Mandir in Nehru Park	77.193574, 28.592903		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
17	Chanakya Puri	10	0.27	0.27	0.27	Nehru Park towards Panchsheel Marg	77.19513, 28.595046		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
18	Chanakya Puri	10	0.025	0.025	0.025	Park behind Assam Bhavan	77.187431, 28.604791		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
19	Chanakya Puri	10	0.021	0.021	0.021	Circular Road Nursery at Pandit Uma Shankar Marg	77.19497, 28.604639		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
20	Chanakya Puri	10	0.01	0.01	0.01	E-Crescent Park at Malcha Marg	77.185936, 28.601148		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
21	Chanakya Puri	10	0.022	0.022	0.022	PSOI Club at Vinay Marg	77.19403, 28.587799		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
22	Chanakya Puri	10	0.03	0.03	0.03	Panchsheel Marg Opposite Samrat Hotel	77.197846, 28.595252		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV

Annexure-18

100 % Collection, Transportation & Processing/Disposal of Horticultural Waste : New Delhi Municipal Council													
S.No	Circle Name	Circle No.	Horticultural Waste Generation (in TPD)	Horticultural Waste Collection & Transportation (in TPD)	Horticultural Waste Processing (in TPD)	Name/Location of Processing Site	Latitude of Processing Facility	Longitude of Processing Facility	Gap in processing of Horticultural Waste (in TPD)	Timelines for 100 % Processing of Horticultural Waste	Present Status	Nodal Officer (Chief Engineer)	Name of EE and Division
23	Chanakya Puri	10	0.36	0.36	0.36	Covered Nala behind NDMC Officers Flat at Chankya Puri	77.200707, 28.582893		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
24	Chanakya Puri	10	0.027	0.027	0.027	Park opp. D-I/37, Chankya Puri	77.196262, 28.581966		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
25	Chanakya Puri	10	0.026	0.026	0.026	Park opp. D-I/81, Chankya Puri	77.197675, 28.581999		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
26	Chanakya Puri	10	0.009	0.009	0.009	F-Crescent Park at Malcha Marg	77.186862, 28.600572		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
27	Chanakya Puri	10	0.02	0.02	0.02	Park opp. Singapore High Commission	77.180617, 28.58845		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
28	Chanakya Puri	10	0.013	0.013	0.013	Park near Railway Colony	77.197606, 28.197606		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
29	Chanakya Puri	10	0.03	0.03	0.03	Opposite CII 131, towards colony qtr.inside part at Madulimey marg	77.200344, 28.521423		Nil	60 Days	Working		Sh. Jogender Singh, DIV-IV
30	Laxmi Bai Nagar	13	0.019	0.019	0.019	Park near Mother Dairy Booth at West Kidwai Nagar	28.571044	77.204646	Nil	60 DAY	Working		Sh. Jitender Kumar Division-V
31	Laxmi Bai Nagar	13	0.019	0.019	0.019	Triangular Park near Laxmi Bai Nagar Market	28.580352	77.203777	Nil	60 DAY	Working		Sh. Jitender Kumar Division-V
32	Laxmi Bai Nagar	13	0.08	0.08	0.08	Near STP, Sanjay Jheel	28.558178	77.566393	Nil	60 DAY	Working		Sh. Jitender Kumar Division-V
33	Laxmi Bai Nagar	13	0.08	0.08	0.08	Near GYM	28.579803	77.210401	Nil	60 DAY	Working		Sh. Jitender Kumar Division-V
34	Laxmi Bai Nagar	13	0.07	0.07	0.07	Sanjay Jheel Park, Laxmi Bai Nagar, Swimming Pool	28.578894	77.209389	Nil	60 DAY	Working		Sh. Jitender Kumar Division-V
35	Moti Bagh	12	0.06	0.06	0.06	Park in front of C-II.79, Moti Bagh	28.522873	77.182438	Nil	60 DAY	Working		Sh. Jitender Kumar Division-V
36	Moti Bagh	12	0.08	0.08	0.08	Park in front of C-II.109, Moti Bagh	28.580252	77.179153	Nil	60 DAY	Working		Sh. Jitender Kumar Division-V
37	Connaught Place	1	0.161	0.161	0.161	Gurudwara Park, Bangla Sahib Lane	28.6272	77.211	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
38	Diz Area	3	0.236	0.236	0.236	N.P. Boys School, Mandir Marg	28.63597	77.2003	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
39	Diz Area	3	0.187	0.187	0.187	Model Park, Sec-IV, Raja Bazar	28.6315	77.209707	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
40	Diz Area	3	0.197	0.197	0.197	Hockey Ground, Sec-IV, Raja Bazar	28.63034	77.211472	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
41	Diz Area	3	0.113	0.113	0.113	N.P. Girls School, Hovelocq Square	28.6269	77.204099	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma

Annexure-18

100 % Collection, Transportation & Processing/Disposal of Horticultural Waste : New Delhi Municipal Council													
S.No	Circle Name	Circle No.	Horticultural Waste Generation (in TPD)	Horticultural Waste Collection & Transportation (in TPD)	Horticultural Waste Processing (in TPD)	Name/Location of Processing Site	Latitude of Processing Facility	Longitude of Processing Facility	Gap in processing of Horticultural Waste (in TPD)	Timelines for 100 % Processing of Horticultural Waste	Present Status	Nodal Officer (Chief Engineer)	Name of EE and Division
42	North Avenue Talkatora Road	4	2.202	2.202	2.202	Talkatora Garden, Old R.K. Ashram Lane	28.6272	77.211	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
43	Bengali Market	5	0.153	0.153	0.153	M.S. Apartment, K.G. Marg, Mandi House	28.6188107	77.227214	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
44	Bengali Market	5	0.182	0.182	0.182	Vakil Lane Park, Mandi House	28.6254413	77.229038	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
45	Khan Market	6	0.083	0.083	0.083	C-1/08, Pandara Park	28.6055959	77.23267	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
46	Tilak Marg	14	0.388	0.388	0.388	Children Park	28.6151591	77.237173	Nil	60 DAY	Working		Sh. Neeraj Kant Sharma
	Total		6.273	6.273	6.6038								

100 % Collection, Transportation & Processing/Disposal of Horticultural Waste : Delhi Cantonment Board													
S.No	Ward Name	Ward No.	Horticultural Waste Generation (in TPD)	Horticultural Waste Collection & Transportation (in TPD)	Horticultural Waste Processing (in TPD)	Name/Location of Processing Site	Latitude and Longitude of Processing Facility	Gap in processing of Horticultural Waste (in TPD)	Timelines for 100 % Processing of Horticultural Waste	Present Status	Nodal Officer (Chief Engineer)	Name of EE and Division	
1	Naraina	1	0.4	0.4	0.4	1. Sri Nagesh Garden	28.596771 77.140614	Nil	NA	100 % processing of horticulture waste	Gyanendra Pal Singh, OIC Sanitation		
2	Uri Enclave	2	0.4	0.4	0.4								
3	Shastri Bazar	3	0.8	0.8	0.8								
4	Subrato Park	4	0.1	0.1	0.1	2. Tigris Road	28.59307 77.122043						
5	Village Jharera	5	0.4	0.4	0.4								
6	East Mehram Nagar	6	0.2	0.2	0.2	3. Cremation Ground Uri Enclave	28.617628 77.145380						
7	Village Old Nangal	7	0.7	0.7	0.7								
8	Sadar Bazar	8	1	1	1								
	Total		4	4	4								

Annexure - 19



Slaughter House Waste Management

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**100 % Collection, Transportation & Processing/Disposal of Slaughter House Waste [Buffaloes Goats, Poultry, Fisheries etc.] :
Municipal Corporation of Delhi**

Slaughter House Waste Generation (in TPD)	Slaughter House Waste Collection & Transportation (in TPD)	Slaughter House Waste Processing through Bio-methanation Plant/Compost etc. (in TPD)	Name/Location of Processing Site	Latitude and Longitude of Processing Facility	Gap in processing of Slaughter House Waste (in TPD)	Proposed Facility	Timelines for 100 % Processing of Slaughter House Waste	Present Status	Nodal Officer	Name of EE and Division
Blood - 1.2 TPD Bone & Soft - 3.5 TPD	Blood is transported through blood processing plant to make blood meal. However, bone & other tissues are transported through tractor trolley at Rendering Plant to make MBM, Tallow (non-edible fat)	One big Rendering Plant of Capacity 20 MT per shift at Ghazipur One small Rendering Plant, Ghazipur of capacity 200-250 dead animals per day	Ghazipur	28.629514 77.332049	0	MCD in process of establishment of Ingesta/ Dung drying plant at Ghazipur Slaughter House to process ingesta/ Dung generated at Ghazipur Slaughter House	100%		Mohd. Shahid, Plant Manager from Qureshi Intl. DS-MAX FNF Consortium (P) Ltd.	

Note: The slaughtering of animals at Ghazipur Slaughter House is allowed for buffaloes, their calf, sheep and goat

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0.075	0.075	0.075	Ghazipur	Latitude - 28.605268 Longitude- 77.116522	Nil	Not required	NA	100% processing of waste is being done.	Gyanendra Pal Singh, OIC Sanitation	
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Department of
Environment, GNCTD

