

By Special Messenger / Email



F. No.: DPCC/WMC-II/Annual Reports/C&D Waste/ 2019/3238-41

Dated: 30/10/2024

To,

Member Secretary,
Central Pollution Control Board, Parivesh Bhawan,
East Arjun Nagar, Delhi-110032

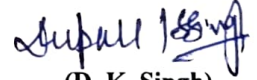
Sub: Annual Report in Form IV in respect of NCT of Delhi for the Year 2023-2024, on the Implementation of Construction and Demolition Waste Management Rules, 2016.

Sir,

Please find enclosed herewith, Annual Report in Form IV in respect of NCT of Delhi for the Year 2023-2024, on the Implementation of Construction and Demolition Waste Management Rules, 2016.

This issues with the approval of the Member Secretary, Delhi Pollution Control Committee.

Yours Sincerely,



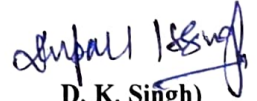
(D. K. Singh)

AD & I/C, (WMC-II)

Enclosure: As Above

Copy to:

1. The Secretary, Ministry of Housing and Urban Affairs, Govt. of India, Nirman Bhawan, C Wing, Maulana Azad Road, New Delhi-110011.
2. The Secretary, Urban Development Department, Govt of NCT of Delhi, 9th Level, Delhi Secretariat, I.P. Estate, Delhi -110002.
3. PS to Chairman, DPCC – For kind information to Chairman, please.



D. K. Singh)

AD & I/C, (WMC-II)

FORM IV

[See rule 8(3)]

Annual Report in respect of NCT of Delhi for the Year 2023-2024 on the Implementation of Construction and Demolition Waste Management Rules, 2016.

To,

The Chairman
Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar
Delhi - 110032

1.	Name of the State / Union territory	NCT of Delhi
2.	Name & address of the State Pollution Control Board/ Pollution Control Committee	Delhi Pollution Control Committee, 3 rd Floor, DMRC Building, Delhi IT Park, Shastri Park, New Delhi - 110053.
3.	Number of municipal authorities responsible for management of municipal solid wastes in the State / Union territory under these rules	3 [MCD, NDMC & DCB]
4.	A Summary Statement on progress made by municipal authorities in respect of implementation of Schedule III	<u>Annexure - I</u> attached.
5.	A Summary Statement on progress made by municipal authorities in respect of implementation of Schedule IV	There is no Schedule IV in the Construction and Demolition Waste Management Rules, 2016. Details of existing operational Construction and Demolition Waste Processing Facilities, C&D Waste received and processed and C&D waste recycled products in year 2023-2024 are given at <u>Annexure – II</u> attached.

Date: 30.10.2024
Place: Delhi


(Dr. K.S Jayachandran)
Member Secretary
Delhi Pollution Control Committee

Annexure-I

A Summary Statement on Progress made by Municipal Authorities in respect of Implementation of Schedule III of Construction and Demolition Waste Management Rules, 2016, in the Financial Year 2023 - 2024.

Implementation of Schedule III of C & D Waste Management Rules, 2016, in Delhi:

Municipal Corporation of Delhi (MCD), New Delhi Municipal Council (NDMC) & Delhi Cantonment Board (DCB)] in Delhi are responsible for the management of Construction and Demolition Waste in Delhi as per the provisions of Construction and Demolition Waste Management Rules, 2016, including Schedule III of said Rules in their areas of jurisdiction.

In Schedule-III, Timeframe for Planning and Implementation of Construction & Demolition Waste Management Rules, 2016 is mentioned. Delhi is having population of more than 20 Million and Status w.r.t. Compliance Criteria mentioned in Schedule-III is briefed in following table:

S. No.	Compliance Criteria	Timeframe (for Cities with Population ≥ 1 Million (w.e.f. 27.04.2016, date of publication of Notification)	Status
1.	Formulation of policy by State Government	12 months	An order dated 06.07.2016 has been issued by the Urban Development Department, Govt. of NCT of Delhi regarding use of Recycled Products from C&D Waste by Govt. Deptt. (Copy enclosed as <u>Annexure- "A"</u>). However Policy Document w.r.t. C & D Waste Management in Delhi is yet to be prepared by Urban Development Department Govt. of NCT of Delhi. Letters dated 07.08.2023 & 05.09.2024 issued by DPCC in this regard to Urban Development Department Govt. of NCT of Delhi are collectively enclosed as <u>Annexure- "B"</u>.
2.	Identification of sites for collection and processing facility	18 months	Sites for Collection and Processing Facilities have been identified by Local Authorities / Bodies and briefed as follows : (i) Designated Collection Centers / Sites for C & D Waste (132 Nos.) • MCD - 106 • NDMC - 25 • DCB - 1 (ii) C&D Waste Processing Facilities (Six Sites Identified) : • MCD (Five Sites Identified)- 04 C&D Waste Processing Facilities are already operational at Shastri Park, Bakkarwala, Ranikhera and Jahangirpuri (Burari). • One C&D Waste Processing Facility of 1000 TPD Capacity is proposed by earmarking 7 acres of reclaimed land at SLF Okhla. This will cater 2 zones (Central & South of MCD). The bids have

			been received and are under evaluation. • NDMC & DCB (No Site Identified) No separate C&D Waste Processing Facility in their areas. C&D waste collected by NDMC and DCB is transported to C&D waste processing facility at Shastri Park. • DMRC (One Site Identified) For processing of the C & D Waste generated from the construction activities of Delhi Metro, one site at Ranikhera (Mundka) has been identified and C & D Waste Processing Facility is in operation since 2018.
3.	Commissioning and implementation of the facility	18 months	• There were total Five operational C & D Waste Processing Facilities in 2023-2024 [04 of MCD at Shastri Park, Bakkarwala, Ranikhera, Jahangirpuri (Burari) and 5th one of DMRC at Ranikhera. Processing Facilities are given at Table-1.
4.	Monitoring by SPCBs	3 times a year – once in 4 months	• DPCC inspects the operational C&D Waste Processing Facilities in Delhi from time to time for compliance of the C&D Waste Management Rules, 2016. • All the existing C&D Waste Processing Facilities have been issued Consent to Operate and Authorisation under C&D Waste Management Rules, 2016.

Collected C&D Waste is transported to the existing five C&D Waste Processing / Recycling Facilities / Plants in Delhi. The capacity of 05 existing C&D Waste processing / Recycling Facilities / Plants in Delhi is 5150 TPD and brief is given in **Table 1**.

Table-1: Existing Construction and Demolition Waste Processing Facilities in Delhi

S. No.	C & D Waste Processing Facility	Existing Capacity (in TPD)
1	C & D Waste Processing Facility at Bakkarwala Village (Being operated by M/s Rise Eleven Delhi Waste Management Co.)	1000
2	C & D Waste Processing Facility at Shastri Park (Being operated by M/s Indo Enviro Integrated Solutions Pvt. Limited)	1000
3	C & D Waste Processing Facility at Pocket I-2, Industrial Area Rohini, Phase V at Ranikhera (Being operated by M/s Indo Enviro Integrated Solutions Pvt. Limited)	1000
4	C & D Waste Processing Facility at Gate NO. 1, Hanuman Mandir Road near MCD Colony, Jahangirpuri, Delhi. (Being operated by M/s Uttar Dilli C&D Waste Recycling private Ltd.)	2000
5	C & D Waste Processing Facility at DMRC Site Ranikhera (Mundka) (Plant for C & D Waste of Delhi Metro) (Being operated by M/s Indo Enviro Integrated Solutions Pvt.Limited)	150
	Total	5150

In these processing facilities, Paver Blocks, Kerb Stones, CC Bricks, Aggregates, Granular Sub-Base (GSB), Sand and Soil of BIS standards are being produced out of the C&D waste which is further used in the infrastructure projects, thus fresh requirement of natural resources is minimized.

As per the Annual Reports submitted by the above-mentioned Local Bodies and C & D Waste Processing Facilities in Delhi, total 6053.8 TPD of Construction and Demolition Waste (C&D Waste) is generated in Delhi. Separate collection and transport infrastructure for C&D Waste has been set up under which the C&D Waste is collected at 132 designated sites identified by the MCD, NDMC & DCB and briefed in **Table-2:**

Table-2: C&D Waste Generation & Processing/Recycling and Designated Collection Centers in Delhi.

S. No.	Name of Local Body / Authority	Population (in Lakh)	No. of Wards / Circles	No. of Designated Collection Centres for C & D Waste	Quantum of C & D Waste Generation (in TPD)	Quantum of C&D Waste Processed / Recycled (in TPD)	Gap Between Generation & Processing / Recycling (in TPD)
1	MCD	192 (Census-2011)	250	106	6000	2562.75	3437.25\$
2	NDMC	3.0	14 Circles	25*	52	52	Nil
3	Delhi Cantonment Board (DCB)	1.1 (Census-2011)	08	1**	1.8	1.2 #	Nil
4	DMRC	-	-	-	100	103.15	Nil
	Total	196.1	272	132	6153.8 TPD	2719.1 TPD (44.2 %)	3437.25 TPD (55.8 %)

*25 Containers / Receptacles of NDMC having total capacity of 10 m³

** C & D Waste Collection Centre of Delhi Cantonment Board (DCB) at Village Jharera,

DCB reused 169 MT (0.46 TPD) C & D Waste and about 50 MT (0.14 TPD) C & D Waste was disposed by filling in low lying areas and rest 430 MT (1.2 TPD) was sent to C & D Waste Processing Facility at Shastri Park.

Note:

1. **MCD** - Collected C & D Waste is transported to the C & D Waste Processing Facilities at Bakkarwala Village, Shastri Park, Ranikhera and Jahangirpuri (Burari) for Processing / Recycling.
2. **NDMC & DCB** - Collected C & D Waste is transported to the C & D Waste Processing Facility at Shastri Park for Processing / Recycling.
3. **DMRC** (Delhi Metro Rail Corporation) is having its own 150 TPD C & D Waste Processing Facility at Ranikhera (Mundka) for processing of C & D Waste of DMRC / Delhi Metro at this facility through M/s Indo Enviro Integrated Solutions Private Limited.
4. \$ Around 240 TPD of C & D Waste is disposed off at Okhla Dumpsite from November, 2023 to May, 2024. This C & D Waste does not include the waste disposal from C & D Plants. C & D Waste is used at three dumpsites for covering of solid waste dumped at these dumpsites.

Table 3 - Proposed New Construction and Demolition Waste Processing Facility in Delhi

S. No.	Location of Proposed C & D Waste Processing Facility	Local Body / Authority	Capacity (in TPD)	Remarks
1.	Okhla (7 Acres Reclaimed land at Okhla Dumpsite)	MCD	1000	This will cater 2 zones (Central & South of MCD). The bids have been received and are under evaluation.
	Total		1000	

With the existing Five C & D Waste Processing Facilities of 5150 TPD capacity and proposed C & D Waste Processing Facility of 1000 TPD capacity, the entire C&D waste generated in Delhi (6153.8 TPD) will be managed properly in a scientific manner.

Department of Urban Development, Govt. of NCT of Delhi has already issued Order Dated 06.07.2016 (Copy of Letter enclosed as **Annexure- "A"**) regarding use of Recycled Products from C&D Waste including following measures to be taken for compliance by all Municipal / Local Govt. Bodies in Delhi, Public Works Department, Irrigation & Flood Control, DSIIDC, DJB & Departments and Organizations of GNCTD involved in Construction/Maintenance of Civil Works:

- (i) A minimum of 2% of C&D Recycled Products shall be used for building works.
- (ii) 10% of C&D Products shall be used for Road works.
- (iii) Urban Local Bodies (ULBs) in Delhi shall mandate 5% use of C&D recycled products for nonstructural application by all, including private individuals. This condition shall be introduced by modifications in byelaws if necessary, & by including the same condition in the building plan approval.
- (iv) Compliance of these conditions shall be verified and certified by the concerned Executive Engineer before verifying and certifying the bills for payments in any such contract.
- (v) Intimation of the action taken/compliance report.

Ministry of Housing and Urban Affairs, Govt. of India (MoHUA) fixes the target for every financial year for use of Construction and Demolition recycled materials by various Departments. MoHUA had fixed the target of 16.015 Lakh MT for use of Construction and Demolition recycled materials by various Departments in the Year 2023-2024.

Earlier Directions u/s 5 of the Environment (Protection) Act, 1986 were issued by DPCC on 14.01.2020 and 09.02.2021 to various Govt. Departments / Agencies for expediting & maximizing the utilization of C&D Waste Recycled Materials Products of the C & D Waste Processing Facilities operating in Delhi in their projects to meet the targets fixed by MoHUA. DO Letters were also issued by Secy (Env.) Cum Chairman, DPCC to NHAI, NBCC, CPWD, DDA etc. for increasing the lifting/ off-take of C&D Recycled Materials to meet the targets set by MoHUA.

Inspections of C & D Waste Processing Facilities were carried out by DPCC from time to time.

In the Financial Year 2023-2024 in respect of existing 05 C & D Waste Processing Facilities [at Bakkarwala, Shastri Park, Ranikhera, Burari & Mundka (DMRC Plant)], Total C&D Waste Intake was about 11.925 Lakh MT [3267 TPD i.e 63.4 % of Total Installed Capacity of all Five Plants i.e 5150 TPD]. Total C&D Waste Processed was about 9.937 Lakh MT [2722.5 TPD i.e 83.3 % of C&D Waste Received] and Total Off-take of C & D Recycled Products by Govt. Departments & Private Parties was about 7.424 Lakh MT [2033.9 TPD i.e 74.7 % of Total C & D Recycled Products from all Five Plants in Delhi].

Status of Offtake of C & D Recycled Products by the Govt. Departments & Private Parties during the Financial Year 2023 – 2024 is enclosed as **Annexure- “C”**.

Besides above information, other information provided by the Local Bodies (MCD, NDMC & DCB) in Form III regarding Construction and Demolition Waste Management in their areas in Delhi is briefed below:

1. Municipal Corporation of Delhi (MCD)

C & D Waste generation is 2190000 MT in 2023-2024 (6000 TPD) out of which 5000 TPD is collected per day. Around 240 TPD of C & D Waste is disposed off at Okhla Dumpsite from November 2023 to May 2024. This C & D Waste does not include the waste disposal from above mentioned C & D Waste Processing Facilities. MCD has 106 No. of C & D Waste Local Dumping Sites for the general public. Malba from these points are lifted on regular basis by the C & D Contractors / Concessionaires. Bulk Generators / Contractors are required to dump Malba or Debris at C & D Waste Processing Plants and Dumpsite directly. Lifting of C & D Waste from the Local Dumping Sites is done by mechanical means. Transportation of C & D Waste is being done through contract and 10 Trucks, and 2 JCBs are deployed for each C&D Waste Processing Facilities.

For improving C & D Waste management, all Zones are taking action to improve collection, transportation and storage of C&D waste at designated points along with sensitization programs at a mass level of general public for safe disposal of malba. Bakkarwala Plant Operator installed trommel for mixed C&D waste screening and filter press for sludge control.

In the C & D Waste Processing Facilities both Dry & Wet integrated technology is being used and these plants are in operation on PPP basis.

Regular removal of encroachments is undertaken by MCD during cleanliness drives MCD is regularly removing encroachment during cleanliness drives. It has been observed that public is mixing C&D waste with solid waste which leads to garbage vulnerable points (GVPs).

About 12 nos. of Municipal Magistrates have been appointed to try offences in relation to littering & causing nuisance, sanitation and public health. Building department, MCD has issued 4346 nos. of challans amounting to Rs. 7,56,03,000 and out of this Rs. 78,00,000 has been realized during the period April 2023 to March 2024 for non-compliance to construction guidelines.

2. New Delhi Municipal Council (NDMC)

C & D Waste generation is 19062.66 MT in 2023-2024 (52 TPD). Composition of C & D Waste is – Concrete & Aggregate – 5527.98 MT, Mortar- 1524.96 MT, Boi Soil – 11437.20 MT and Wood – 381.24 MT.

All the C & D Waste generated in NDMC area is collected & lifted on daily basis through 25 Containers / Receptacle of total 10 m³ capacity and sent to C & D Waste Processing Facility at Shastri Park for its Processing / Recycling. Lifting of C & D Waste is done using mechanical means (JCB, Hook Loader and Auto Tipper).

Transportation of C & D Waste is being done through 2 Trucks (open body), 2 Hydraulic Trucks, 01 Tractor Loader, 10 Auto tippers and 01 JCB.

3. Delhi Cantonment Board (DCB)

C & D Waste generation is 649 MT in 2023-2024 (About 1.8 TPD). All the C & D Waste generated in DCB area is removed using JCB & Dumpers and collected at the centralized collection centre at Village Jharera from where the waste is transported to the C & D Waste Processing Facility at Shastri Park for its Processing / Recycling. DCB has concluded a contract for lifting of C & D Waste from different locations in Delhi Cantt.

About 50 MT of C & D Waste disposed by filling in low lying area.

CCTV have been installed by DCB at vulnerable locations and also directions have been issued to field staff to keep strict vigil over these locations. Field staff keeps regular check and the violators are fined. 03 persons have been fined for unauthorized dumping of C& D Waste.

DEPARTMENT OF URBAN DEVELOPMENT
GOVT. OF NCT OF DELHI
9th LEVEL, C-WING, DELHI SACHIVALAYA
I.P. ESTATE, NEW DELHI-110002

F. No. 7(84)/AD/LB/2016/ 5782-5805

Dated: 6.7.16

ORDER

Sub : Use of Recycled Products from Construction & Demolition Waste.

Whereas, Govt. of India accords high priority to Swatchh Bharat and sanitation measures as a tool to synergize dynamic growth & sustainability.

Whereas, in this direction, Govt. has [comprehensively inter-alia revised waste management rules and] notified a new rule, namely Construction and Demolition (C & D) Waste Management Rule, 2016.

Whereas, the major objective of these rules is environmentally sound management of waste, & simultaneously promoting a circular economy through resource recovery and reuse, which in turn is aimed at combating and mitigating climate change phenomenon.

Whereas, Rule 9(1) of the Construction & Demolition Waste Management Rules, 2016 requires the Secretary in-charge of development in State Government to prepare policy w.r.t. management of construction & demolition waste in accordance with the provisions of these rules within one year.

Whereas, the Rule 9(4) of the said rules makes procurement of materials made from Construction and Demolition waste mandatory to a certain percentage (say 10-20%) in municipal and Government contracts subject to strict quality control.

Whereas, one Construction & Demolition Waste Processing plant is already operational in Delhi at Shastri Park (under administrative control of East Delhi Municipal Corporation) & more such proposed plants [at Tikri Kalan, Libaspur (PWD Projects) and at Mundka (DMRC Project)] are under process of being set up in Delhi.

Whereas, the Rule 6, also enlists as duty of Local authority, inter alia at Sl.No.9 to device appropriate measures for management of Construction & Demolition Waste generated including processing facility and for using the recycled products in the best possible manner.

Whereas, an advisory was issued by GNCTD on 27th July 2015, mandating use of recycled C & D Waste products in Delhi. An advisory in continuation of the same was also issued on 14.9.2015 by Dy. Secretary (PWD/UD).

GNCTD hereby orders following measures for compliance of all Municipal/Local Govt. bodies in Delhi, Public Works Department, Irrigation & Flood Control, DSIIDC, DJB & departments and Organisations of GNCTD involved in Construction/Maintenance of Civil Works :

- (1) A minimum of 2% of C&D recycled products shall be used for building works.
- (2) 10% of C&D products shall be used for Road works.
- (3) Urban Local Bodies (ULBs) in Delhi shall mandate 5% use of C&D recycled products for non structural application by all, including private individuals. This condition shall be introduced by modifications in byelaws, if necessary, & by including the same condition in the building plan approval.
- (4) All above conditions, including those mentioned in the office advisory No.23(232)/E-in-C Projects/PWD/2015-16/17902-23 dated 14.9.2015 (adoption of prescribed construction practices, testing the quality of recycled products, installation of on site C&D waste processing plant in redevelopment projects costing more than Rs.500 crores etc.) shall be included in all relevant Civil work tenders i.e. Notice Inviting Tenders, Work Orders & Contract agreements etc. for strict compliance.
- (5) Compliance of these conditions shall be verified and certified by the concerned Executive Engineer before verifying & certifying the bills for payments in any such contract.
- (6) and intimate the action taken/compliance report .


(Ramesh Negi)
Pr. Secretary (UD)

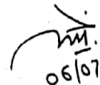
F. No. 7(84)/AD/LB/2016/ १४२-१४३५

Dated 6.7.16

Copy to :

1. The Pr. Secretary (PWD), 5th Level, Delhi Sectt., Delhi.
2. Commissioner, East Delhi Municipal Corporation.
3. Commissioner, North Delhi Municipal Corporation.
4. Commissioner, South Delhi Municipal Corporation.
5. Managing Director, DSIIDC, Bombay Life Building, Cannaught Place, New Delhi.
6. Director General, CPWD, Nirman Bhawan, New Delhi-110011.
7. Engineer-in-Chief, PWD, MSO Building, IP Estate, New Delhi.
8. Engineer Member, DDA, Vikas Sadan, INA, New Delhi-110023.

9. CEO, DJB, Varunalaya, Jhandewalan, New Delhi.
10. Chief Engineer (I&FC), ISBT Building, Kashmere Gate, New Delhi.
11. CEO, DUSIB, Punarwas Bhawan, IP Estate, New Delhi.
12. Chief Engineer (Northern Railway), Baroda House, New Delhi-110001.
13. Chief Engineer, DTTDC, 18-A, DDA SCO Complex, Defence Colony, New Delhi-110024.
14. Executive Officer, Delhi Cantonment Board, Delhi Cantt., New Delhi-110010.
15. CEO, BSES, Nehru Place, New Delhi.
16. CEO, NDPL, Hudson Lane, Kingsway Camp, New Delhi.
17. CEO, Yamuna Power Lighting, Karkardooma, New Delhi.
18. Chief Engineer, RC/W, DMRC, Barakamba Road, Cannaught Place New Delhi.
19. Officer Incharge, DTL/PGCL, Rajghat Power House, New Delhi.
20. Officer Incharge, DTL/PGCL, Loni Road, New Delhi.
21. Chairman, NDMC, Palika Bhawan, Cannaught Place, New Delhi.
22. Chairman, DPCC, ISBT Building, Kashmere Gate, New Delhi.
23. Spl. Secretary, UD Department, GNCTD.


06/07/2016
(Onkar Marathe)
Dy. Director (LB)

By Speed Post/ Email



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



F. No.: DPCC/ WMC2/ Annual Reports/C&D Waste/2019/2053 - 2057

Dated: 05/09/2024

To,

The Spl. Secretary,
 Urban Development Department, Govt. of NCT of Delhi,
 9th & 10th level, Delhi Secretariat, I.P. Estate,
 Delhi-110002

Sub: Preparation of Policy Document w.r.t Construction & Demolition (C&D) Waste Management in Delhi.

Sir/ Madam,

This has reference to the letter of DPCC dated 07.08.2023 regarding request for Preparation of Policy Document w.r.t Construction & Demolition (C&D) Waste Management in Delhi (copy enclosed).

As per rule 9(1) of the Construction & Demolition (C&D) Waste Management Rules, 2016:

"The Secretary in-charge of development in the State Government or Union territory administration shall prepare their policy document with respect to management of construction and demolition of waste in accordance with the provisions of these rules within one year from date of final notification of these rules".

It is informed that the afore-mentioned policy document is yet to be prepared by Urban Development Department, Govt. of NCT of Delhi.

In view of the above, Urban Development Department, Govt. of NCT of Delhi is once again requested to prepare Policy Document w.r.t Construction & Demolition Waste Management in Delhi in accordance with the provisions of Construction & Demolition Waste Management Rules, 2016, at the earliest.

Yours Sincerely,

(D.K. Singh)

Addl. Director, WMC-II

Enclosure: As Above

Copy to:

1. The Commissioner, Municipal Corporation of Delhi, 9th Floor, Dr. S.P.M Civic Center, JLN Marg, Delhi -02.
2. Staff Officer to Chief Secretary, Govt. of NCT of Delhi
3. MS, DPCC
4. PS to Chairman, DPCC.

By Speed Post/ Email



DELHI POLLUTION CONTROL COMMITTEE
DEPARTMENT OF ENVIRONMENT, GOVT. OF NCT OF DELHI
5th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-110006
visit us at : <https://dpcc.delhigovt.nic.in>



Dated: 07.08.2023

F. No.: DPCC/WMC2/ Annual Reports/C&D Waste/2019/4984-4987

To,

The Secretary,
Urban Development Department, Govt. of NCT of Delhi,
9th & 10th level, Delhi Secretariat, I.P. Estate,
Delhi-110002

Sub: Preparation of Policy Document w.r.t Construction & Demolition (C&D) Waste Management in Delhi.

Sir,

Your kind attention is drawn towards the Rule 9 of the Construction & Demolition (C&D) Waste Management Rules, 2016 (Duties of State Government or Union Territory Administration).

As per Rule 9 (1) of the said Rules;

"The Secretary in-charge of development in the State Government or Union territory administration shall prepare their policy document with respect to management of construction and demolition of waste in accordance with the provisions of these rules within one year from date of final notification of these rules".

Department of Urban Development, Govt. of NCT of Delhi has issued Order Dated 06.07.2016 regarding use of Recycled Products from Construction & Demolition Waste (Copy enclosed) however Policy Document w.r.t Construction & Demolition Waste Management in Delhi in accordance with the provisions of the said Rules is yet to be prepared by Urban Development Department, Govt. of NCT of Delhi.

In view of the above, it is requested to prepare Policy Document w.r.t Construction & Demolition Waste Management in Delhi in accordance with the provisions of Construction & Demolition Waste Management Rules, 2016, at the earliest.

Yours Sincerely,

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

Enclosure : As Above

Copy to:

1. The Commissioner, Municipal Corporation of Delhi, 9th Floor, Dr. S.P.M Civic Center, JLN Marg, Delhi -02.
2. Staff Officer to Chief Secretary, Govt. of NCT of Delhi
3. PS to Chairman, DPCC.

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

Annexure - "C"

Status of C&D Waste Intake Quantity, Processed Quantity and Off-take Quantity of C&D Recycled Products
FY 2020-21, FY 2021-22, FY 2022-23 & FY 2023-24

Year	Plant	C&D Waste Intake Quantity (MT)	C&D Waste Processed Quantity (MT)	Off-take (MT)		
				Off-take by Government Departments (MT)	Off-take by Private Parties (MT)	Total Off-take (MT)
FY 20-21	Burari	710457	762326	444825	395633	840458
	Shastri Park	243187	267813	98282	209881	308163
	Mundka	37049	36369	34875	1428	36303
	Bakkarwala	161488	149772	126511	0	126511
	Total (MT)	1152181	1216280	704493	606942	1311435
FY 21-22	Burari	451858	309522	199858	114528	314386
	Shastri Park	296059	239723	52083	182647	234730
	Mundka	22823	29858	8710	11398	20108
	Bakkarwala	259643	249018	64359	142852	207211
	Total (MT)	1030383	828121	325010	451425	776435
FY 22-23	Burari	360429	296125	103685	144752	248437
	Shastri Park	369054	330932	123238	208656	331894
	Ranikhera	208262	197071	66456	83085	149541
	Mundka (DMRC)	43527	37648	4918	34892	39810
	Bakkarwala	250025	258785	229207	4140	233347
	Total (MT)	1231296	1120561	527504	475525	1003029
FY 23-24	Burari	299500	166013	55305	60030	115335
	Shastri Park	335933	300224	23158	8040	31198
	Ranikhera	191121	201133	65191	83111	148302
	Mundka (DMRC)	49095	37644	3891	41394	45285
	Bakkarwala	316818	288722	104232	298031	402263
	Total (MT)	1192467	993736	251777	490606	742383

A Summary Statement on progress made by Municipal Authorities in respect of Implementation of Construction and Demolition Waste Management Rules, 2016 (Details of operational C&D Waste Processing Facilities, C&D Waste Received & Processed and C&D Waste Recycled Products) in the Financial Year 2023-2024.

As per the Annual Report submitted by Local Bodies and C&D Waste Processing Facilities, 6153.8 TPD C&D Waste is generated in Delhi. There are 05 Operational C&D Waste Processing Facilities in Delhi with total installed capacity of 5150 TPD as given in **Table-1**. Besides above facilities, one more facility of 1000TPD is proposed by MCD on 7 Acres Reclaimed land at Okhla Dumpsite. This will cater 2 zones (Central & South) of MCD. The bids have been received and are under evaluation.

Local bodies in Delhi (MCD, NDMC and DCB) have identified / selected the site for collection of C&D waste as mentioned in **Table-1** below. It is pertinent to mention that in Delhi due to scarcity of Land and dense population, it is difficult to find / select suitable Land / Site for C&D waste processing facility considering the Schedule-I of the C&D Waste Management Rules, 2016. However, MCD (erstwhile SDMC, EDMC and North DMC) had identified sites for C&D Waste Processing Facilities depending on the availability of Land and site available with DDA.

Presently there are five Construction and Demolition Waste (C & D) Processing Facilities in Delhi as given in following Table:

Table-1: Details of operational C&D Waste Processing Facilities, C&D Waste Intake, Processed and off take of C&D Waste Recycled Products in the Financial 2023-2024*

S. No.	Location of C& D Waste Processing Facility	Name of Operator	Local Body/ Authority	Year of Commissioning	Plot Area (Acres)	Capacity (in TPD)	C&DWaste Intake in 2023-2024 (MT)	C&D Waste Processed in 2023-2024 (MT)	Off Take of C & D Recycled Products (MT)
1.	Bakkarwala Village	M/s Rise Eleven Delhi Waste Management Co.	MCD	2020	5	1000	316818	288722	402263
2.	Jahangirpuri (Burari)	M/s Uttar Dilli C&D Waste Recycling private Ltd.	MCD	2023	7.54	2000	299500	166013	115335
3.	Shastri Park	M/s Indo Enviro Integrated Solutions Pvt. Limited	MCD	2016	2.5	1000	335933	300224	31198
4.	Pocket I 2, Industrial Area Rohini, Phase V, Ranikhera	M/s Indo Enviro Integrated Solutions Pvt. Limited	MCD	2021	5.98	1000	191121	201133	148302
5.	Ranikhera(Mundka) (DMRC Site) (Plant for C& D Waste of Delhi Metro)	M/s Indo Enviro Integrated Solutions Pvt.Limited	DMRC	2018	2.95	150	49095	37644	45285
	Total					5150 TPD	1192467 (3258.1 TPD) (63.3% of Capacity)	993736 (2715.1 TPD) (83.3% of Intake)	742383 (2028.4 TPD) (74.7% of Products)

*Based on collective information received from Indo Enviro Integrated Solutions Pvt. Ltd. for all the five operational C&D Waste Processing Facilities.

1. C & D Waste Processing Facility at Bakkarwala Village (1000 TPD Capacity)

This C & D Waste Processing Facility is of 1000 TPD capacity and being operated by M/s Rise eleven Delhi Waste Management Co., at Bakkarwala in 5 Acre plot area. Construction and Demolition Waste received and processed at this facility in the Year 2023-2024 is given in the following Table:

S. No.	Description	Quantum (Year 2022-23)
1	C&D Waste Intake	316818 MT (865.6 TPD) (86.6% of Capacity)
2	Total Quantity of Construction and Demolition Waste Processed / Recycled	288722 MT (788.86 TPD) (91.13 % of Intake)
3.	Screen Soil	210766 MT
4.	Recycled Aggregate/Sand	77955 MT
5.	Dumble 60MM	18711 sqm
6.	Dumble 100MM	31265 sqm
7.	Milano	2914 sqm
8.	Dumble 80MM	23703 sqm
9.	Kerb Stone	18237 Pieces
10.	Concrete Blocks 100MM	653572 Pieces
11.	Concrete Blocks 200MM	169694 Pieces
12.	Bricks 75MM	1704216 Pieces
13.	Rectangle 60MM	4607 sqm
14.	Ready Mix Concrete	35014 m ³

This facility started its operation in March, 2020. Wet & Dry both processes are in use for C&D Waste processing. 80 TPH is processed by Dry process and 80 TPH is processed by Wet process (Trommel : 30 TPH & Filter Press : 15 TPH). Power connection is provided by the BSES Rajdhani with a sanction power load of 15 KVA & 380 KW. Lifting of Construction & Demolition Waste from Storage bins is manual or mechanical through JCB, Loader and dumper. Raw materials such as Malba are used by the plant to produce the final product.

2. C & D Waste Processing Facility at Shastri Park (1000 TPD Capacity)

This C & D Waste Processing Facility is of 1000 TPD capacity and being operated by M/s Indo Enviro Integrated Solutions Private Limited at Shastri Park in 2.5 Acres plot area. 140 TPH is the capacity of the machinery installed for wet processing of C & D Waste. Earlier Consent to Establish and Consent to Operate were given to the facility for expansion from 500 TPD to 1000 TPD Capacity. Construction & Demolition Waste received and processed at this facility in Year 2023-2024 is given in the following Table:

S. No.	Description	Quantum (Year 2023-24)
1	C&D Waste Intake	335933 MT (917.85 TPD) (91.8% of Capacity)
2	Total Quantity of Construction and Demolition Waste Processed / Recycled	300224 MT (820.28 TPD) (89.4% of Intake)

3	Recycled Aggregate/Sand	61956 MT
4	Screen Soil	257228 MT
5.	Concrete Blocks 100MM	415865 MT Pieces

Only wet process (140 TPH) is used for C&D Waste processing and the Plant is having 1000 TPD capacity. Power connection with a sanction power load of 600 KW is available. One DG Set of 35 KVA capacity also provided. Processing unit (crusher), washers, screen thickener, grizzly mixers and roll mix are some of the machinery. Raw materials such as cement and admixtures are used by the plant to produce the final product.

3. C & D Waste Processing Facility at Ranikhera (1000 TPD Capacity)

This C & D Waste Processing Facility is of 1000 TPD capacity and being operated by M/s Indo Enviro Integrated Solutions Private Limited at Pocket I-2, Industrial Area Rohini, Phase V at Ranikhera in about 6 Acre plot area. 140 TPH is the capacity of the machinery installed for wet processing of C & D Waste. The unit has Consent to Operate with validity upto 06.10.2026. Construction and Demolition Waste received and processed at this facility in the Year 2023-2024 is given in the following Table:

S. No.	Description	Quantum (Year 2022-23)
1.	C&D Waste Intake	191121 MT (522.2 TPD) (52.2 % of Capacity)
2.	Total Quantity of Construction and Demolition Waste Processed / Recycled	201133 MT (549.5 TPD) (105% of Intake)
3.	Recycled Aggregate/Sand	76809 MT
4.	Screen Soil	107268 MT
5.	Dumble 60MM	21130 sqm
6.	Concrete Blocks 100MM	644053 Pieces
7.	Concrete Blocks 200MM	20088 Pieces
8.	Bricks 75MM	1889807 Pieces

Both Dry and Wet processes are used for C&D Waste processing and have the capacity of 1000 TPD. The unit has two types of machineries: In Dry Machinery: Grizzly, Vibrating Screen, H.S.I, Jaw Crusher, Conveyor Belt are installed. In wet Machinery: Prograde screen, Evowash, Thickener, 02 Water tanks (Capacity 5000 each) are installed. Power connection is provided by double power phase supply from Tata Power DDL. 16 Trucks, 01 Dumper-placers, 03 Backhoe are used for Transportation.

4. C & D Waste Processing Facility at DMRC Site Rani Khera (Mundka) (150 TPD Capacity)

This C & D Waste Processing Facility is of 150 TPD capacity and being operated by M/s Indo Enviro Integrated Solutions Private Limited at Rani Khera (Mundka) in 2.95 Acre on behalf of Delhi Metro Rail Corporation (DMRC) for processing of the Construction and Demolition Waste of Delhi Metro. Construction and Demolition Waste received and processed at this facility in the Year 2023-2024 is given in the following Table:

S. No.	Description	Quantum (Year 2023-24)
1	C&D Waste Intake	49095 MT (134.14 TPD) (89.4 % of Installed Capacity)

2	Total Quantity of Construction and Demolition Waste Processed / Recycled	37644 MT (102.85 TPD) (76.7 % Intake)
3	Screen Soil	27521 MT
4	Recycled Aggregate/Sand	10118 MT
5	Dumble 60MM	18555 sqm
6	Dumble 80MM	736 sqm
7	Dumble 100MM	430 sqm
8	Milano	9968
9	Kerb stone	116613 Pieces
10	Rectangle 60MM	1643 Pieces

Only wet process is used for C&D Waste processing and have the capacity of 150 TPD. Weigh bridge is provided at site with computerized system. Power connection is provided by the Tata Power with a sanction power load of 300 KW. JAW, Prograte, Evo wash and aqua cycle are some of the machinery. Raw materials such as construction and demolition waste (Waste debris or Malba) are used by the plant to produce the final product such as fine and coarse aggregates.

5. C & D Waste Processing Facility at Jahangir Puri Burari (2000 TPD Capacity)

This C & D Waste Processing Facility is of 2000 TPD capacity and being operated by M/s Indo Enviro Integrated Solutions Private Limited at Jahangir Puri Burari in 7.54 Acre for processing of the Construction and Demolition Waste. Construction and Demolition Waste received and processed at this facility in the Year 2023-2024 is given in the following Table:

S. No.	Description	Quantum (Year 2023-24)
1.	C&D Waste (Intake)	299500 MT (818.3 TPD) (40.9 % of Installed Capacity)
2.	Total Quantity of Construction and Demolition Waste Processed / Recycled	166013 MT (453.6 TPD) (55.4 % of Intake)
3.	Screen Soil	63855 MT
4	Recycled Aggregate/Sand	72530 MT
5	Concrete Blocks 100MM	55542 Pieces