



DELHI POLLUTION CONTROL COMMITTEE
DEPARTMENT OF ENVIRONMENT, GOVT. OF NCT OF DELHI
4th & 5th FLOOR, ISBT BUILDING, KASHMERE GATE, DELHI-110006
visit us at : <http://dpcc.delhigovt.nic.in>

F. No. DPCC/WMC-II/Annual Reports/C&D Waste/ 2019/4988-4991

Dated: 07-08-2023

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 2022-2023 on the Implementation of Construction and Demolition Waste Management Rules, 2016.

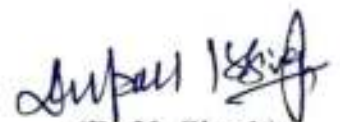
Sir,

Please find enclosed here with Annual Report in Form IV in respect of NCT of Delhi for the Year 2022-2023 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,

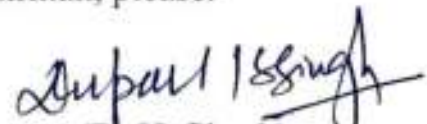
Enclosure: As Above


(D. K. Singh)

Sr.Env.Engineer & I/c (WMC-II)

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)

Sr.Env.Engineer & I/c (WMC-II)



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FORM IV

[See rule 8(3)]

Annual Report in respect of NCT of Delhi for the Year 2022-2023 on the Implementation of Construction and Demolition Waste Management Rules, 2016.

To,

The Chairman
Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar
Delhi - 110 032

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, 4 th & 5 th Floor, ISBT Building, Kashmere Gate, Delhi-110006
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 4 Construction and Demolition Waste Processing Facilities in Delhi alongwith C&D Waste received , Processed and C&D Waste Recycled Products in the Financial Year 2022-2023 are given at <u>Annexure – II</u> attached.

Date: 07.08.2023

Place: Delhi

(Dr. K.S Jayachandran)

Member Secretary

Delhi Pollution Control Committee

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 2022 - 2023.

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

Municipal Corporation of Delhi [3 Municipal Corporations (Erstwhile North DMC, EDMC & SDMC), 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. Erstwhile North DMC, EDMC & SDMC have been unified in May, 2022 and now there is one single unified Municipal Corporation known as Municipal Corporation of Delhi (MCD) in place of above mentioned 3 corporations.

In Schedule-III, Timeframe for Planning and Implementation of Construction & Demolition Waste Management Rules, 2016 is mentioned. Delhi is having population of more than 1 Million and Status w.r.t. Compliance Criteria mentioned in Schedule-III is briefed in following table:

S. No.	Compliance Criteria	Timeframe (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. Departments (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.
2.	Identification of sites for Collection and processing facility	18 months	Sites for Collection and Processing Facilities have been identified by the Local Authorities / Bodies and briefed as follows : (i) Designated Collection Centers / Sites for C & D Waste (212 Nos) • MCD - 186 • NDMC - 25 • DCB - 1 (ii) C&D Waste Processing Facilities (Six Sites Identified): • MCD (Five Sites Identified) - 3 are already operational at Shastri Park, Bakkarwala & Ranikhera and one facility at Jahangirpuri (Burari) has recently commissioned in July, 2023 after revamping at old site of Jahangirpuri (Burari). One more site at Tehkhand identified however alternative site has been sought from DDA. • 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 Processing facility is in operation since 2018.
3.	Commissioning and Implementation of the facility	18 months	- There were total four operational C & D Waste Processing Facilities in 2022 - 2023 [3 of MCD at Shastri Park, Bakkarwala & Ranikhera and 4th one of DMRC at Ranikhera (Mundka)]. Details of these four operational C&D Waste Processing Facilities are given at Table – 1. - One C&D Waste Processing Facility of 2000 TPD capacity has been established at the old site of at Jahangirpuri (Burari) and recently commissioned in July, 2023.
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 operational C&D Waste Processing Facilities have been issued Consent to Operate and Authorisation under the C&D Waste Management Rules, 2016.

Collected C & D Waste is transported to the existing 4 C & D Waste Processing / Recycling Facilities / Plants in Delhi. The capacity of the 4 existing C & D Waste Processing / Recycling Facilities in Delhi is 3150 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 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 Limited)	1000
4	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 Limited)	150
	Total	3150

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 **6177.55TPD** 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 **212** designated sites identified by the MCD, NDMC & DCB and briefed in **Table 2:**

Table 2: C&D Waste Generation & Processing/Recycling and Designated Collection Centres 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	250	186	6000	2203.68	3796.32 #
2	NDMC	03	14 Circles	25*	54.30	54.30	Nil
3	Delhi Cantonment Board (DCB)	1.1	08	1**	4.25	4.25\$	Nil
4	DMRC	-	-	-	119	103.15	15.85
	Total	196.1	272	212	6177.55 TPD	2365.38 TPD (38.3%)	3812.17 TPD (61.7%)

*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 150 MT (0.41 TPD) C & D Waste in its ongoing maintenance works and 1402 MT (3.84 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 and Ranikhera 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 Limited.
4. # C & D Waste is either dumped at the Low Lying Areas under the jurisdiction of the Local Bodies or used at the Okhla Dumpsite by MCD (Area – 62 Acres, Average 790 TPD) for covering of dumped Municipal Solid Waste and making of temporary roads at the Dumpsite for movement of vehicles.

Proposed New Construction and Demolition Waste Processing Facilities in Delhi (Table-3)

S.No	Location of Proposed C& D Waste Processing Facility	Local Body / Authority	Capacity (in TPD)	Remarks
1	Jahangirpuri (Burari)	MCD	2000	This is old site of earlier existing C& D Waste Processing Facility of 2000 TPD which was in operation till Feb, 2022. Plant has been revamped by installing New Plant & Machinery and commissioned in July, 2023.
2	Tehkhand , Okhla	MCD	1000	Since the site falls under the Morphological Land, alternative site / land is being explored by MCD.
	Total		3000	

With the existing four C & D Waste Processing Facilities of 3150 TPD capacity and proposed two C & D Waste Processing Facilities of 3000 TPD capacity, the entire C&D waste generated in Delhi (6177.55 TPD) will be managed properly in a scientific manner.

Consent to Establish under the Air & Water Acts was granted to M/s Uttar Dilli C & D Waste Recycling Private Limited on 07.10.2022 in respect of New C & D Waste Processing Facility of 2000 TPD at Jahangirpuri (Burari).

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 14.6 Lakh MT for use of Construction and Demolition recycled materials by various Departments in the Year 2022-23.

Directions u/s 5 of the EP Act 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.

Action taken by DPCC & meetings taken by the Chief Secretary, GNCTD & Chairman, DPCC in the past has resulted in improvement in the C & D Waste management in Delhi and off take / lifting of C& D Recycled Materials from the existing C & D Waste Processing Facilities in Delhi.

In the Financial Year 2022 - 2023 in respect of existing 4 C & D Waste Processing Facilities [at Bakkarwala, Shastri Park, Ranikhera & Mundka (DMRC Plant)], Total C&D Waste Intake was about 8.70 Lakh MT [2385.7 TPD i.e 75.7 % of Total Installed Capacity of all Four Plants i.e 3150 TPD], Total C&D Waste Processed was about 8.42 Lakh MT [2306.8 TPD i.e 96.7 % of C&D Waste Received] and Total Off-take of C & D Recycled Products by Govt. Departments was about 5.28 Lakh MT [1445 TPD i.e 62.7 % of Total C & D Recycled Products from all Four Plants in Delhi].

Status of Offtake of C & D Recycled Products by the Govt. Departments in Delhi during the Financial Year 2022 – 2023 is enclosed as **Annexure- "B"**.

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 2022-2023 (6000 TPD) out of which 5000 TPD is collected per day. Average 790 TPD of C & D Waste is disposed off at Okhla Dumpsite only. This C & D Waste does not include the waste disposal from above mentioned C & D Waste Processing Facilities. MCD has designated 186 locations / sites where Malba / Debris in small quantity only can be dumped by general public. These sites are attended on daily basis and lifting of C & D Waste is done using mechanical means (Tipper Trucks and JCB/ Loader). Bulk Generators / Contractors are required to dump Malba / Debris at above mentioned C & D Waste Processing Facilities.

Transportation of C & D Waste is being done through contract and 28 Hydraulic Truck, 3 Dumper-Placers and 2 Mini Tipper Trucks have been deployed.

Ward wise Action Plan has been prepared for west and Karol Bagh Zone on pilot basis for improvement in collection, transportation and storage of C & D Waste at designated points. Trommel has been installed at Bakkarwala C & D Waste Processing Facility for screening of mixed C & D Waste 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.

Regarding encroachment removal, MCD is regularly removing encroachment during cleanliness drives. Mixing of Solid Waste with C & D Waste has been observed at vulnerable points. All Slums are covered within MCD jurisdiction.

About 12 Nos of Municipal Magistrates have been appointed for trial of offences in relation to littering & causing nuisance, sanitation and public health. Approx. 3000 Challans with penalty imposition of Rs 5.77 Crores on 1743 No of defaulter have been issued and Rs 50.15 Lakh has been recovered from the defaulters / offenders w.e.f 01.10.2022 to 30.06.2023.

2. New Delhi Municipal Council (NDMC)

C & D Waste generation is 19819.87 MT in 2022-2023 (54.3 TPD). Composition of C & D Waste is Plastic – 198.19 MT, Concrete & Aggregate – 5747.76 MT, Mortar- 1585.58 MT, Boi Soil – 11891.92 MT and Wood – 396.39 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, One Tractor Loader, 10 Auto tippers and one JCB.

3. Delhi Cantonment Board (DCB)

C & D Waste generation is 1552 MT in 2022-2023 (4.25 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 DCB. 150 MT of C & D Waste was reused/ recycled in its ongoing maintenance works and 1402 MT was sent to C & D Waste Processing Facility at Shastri Park for its Processing / Recycling.

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. 18 persons have been fined for unauthorized dumping of C& D Waste.

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 2022 - 2023.

As per the Annual Reports submitted by the Local Bodies and C & D Waste Processing Facilities in Delhi, 6177.55 TPD C & D Waste is generated in Delhi. There were 04 Operational C&D Waste Processing Facilities in Delhi with total installed capacity of 3150 TPD. Besides 4 operational facilities, one more C&D Waste Processing Facility at Jahangirpuri (Burari) has been established and commissioned in July, 2023. One more facility at Tehkhand was proposed by MCD. Since this site falls under the Morphological Land, alternative site / land is being explored by MCD.

Local Authorities / Bodies in Delhi (MCD, NDMC and DCB) have identified / selected the sites 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) has identified sites for C&D Waste Processing Facilities depending on the availability of land and site available with DDA.

Table - 1: Details of operational C & D Waste Processing Facilities, C&D Waste Received & Processed and C&D Waste Recycled Products in the Financial Year 2022 – 2023.

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&D Waste Received in 2022-2023 (MT)	C&D Waste Processed in 2022-2023 (MT)	Off Take of C & D Recycled Products by Govt. Deptt (MT)
1.	Bakkarwala Village	M/s Rise Eleven Delhi Waste Management Co.	MCD	2020	5	1000	250025	258785	229207
2.	Shastri Park	M/s Indo Enviro Integrated Solutions Limited	MCD	2016	2.5	1000	369056	349454	298297
3.	Pocket I 2, Industrial Area Rohini, Phase V, Ranikhera	M/s Indo Enviro Integrated Solutions Limited	MCD	2021	5.98	1000	208262	196105	
4.	Ranikhera(Mundka) (DMRC Site)(Plant for C& D Waste of Delhi Metro)	M/s Indo Enviro Integrated Solutions Limited	DMRC	2018	2.95	150	43430	37648	
	Total					3150 TPD	870773 (2385.7 TPD) (75.7% of Capacity)	841992 (2306.8 TPD) (96.7 % of Recd)	527504 (1445 TPD) (62.7 % of Products)

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 2022-2023 is given in the following Table:

S. No.	Description	Quantum (Year 2022-23)
1	C&D Waste Received (As per Plant Operator)	250025 MT (685 TPD) (68.5 % of Capacity)
2	Total Quantity of Construction and Demolition Waste Processed / Recycled	258785 MT (709 TPD) (70.9 % of Capacity)
3.	Screen Soil	201852 MT
4.	Recycled Aggregate/Sand	56933 MT
5.	Dumble 60MM	36,100 sqm
6.	Dumble 100MM	41,524 sqm
7.	Milano	8,355 sqm
8.	Kerb Stone	20,128 Pieces
9.	Concrete Blocks 100MM	16,83,990 Pieces
10.	Concrete Blocks 200MM	53,351 Pieces
11.	Bricks 75MM	2,05,085 Pieces
12.	Ready Mix Concrete	35,960 m ³

This facility has 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. Source of water supply is treated water from water feeder channel of IFCD. 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 Limited at Shastri Park in 2.5 Acres plot area. 125 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 2022-2023 is given in the following Table:

S.No.	Description	Quantum (Year 2022-23)
1	C&D Waste Received (As per Plant Operator)	369056 MT (1011.1 TPD) (101.1 % of Capacity)
2	Total Quantity of Construction and Demolition Waste Processed / Recycled	349454 MT (957.4 TPD) (95.7% of Capacity)
3	Manufactured Sand	16320 MT
4	GSB	51159 MT
3	Screen Soil	215975.6 MT
4	CC Bricks	6106 m ³ (763260 Pieces)

Only wet process is used for C&D Waste processing and the Plant is having 1000 TPD capacity. The source of water supply is treated water of Yamuna Vihar STP. 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.

4. 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 Limited at Pocket I-2, Industrial Area Rohini, Phase V at Ranikhera in about 6 Acre plot area. 125 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 2022-2023 is given in the following Table:

S.No.	Description	Quantum (Year 2022-23)
1.	C&D Waste Received (As per Plant Operator)	208262 MT (570.6 TPD) (57 % of Capacity)
2.	Total Quantity of Construction and Demolition Waste Processed / Recycled	196105 MT (537.3 TPD) (53.7 % of Capacity)
3.	Manufactured Sand	16846 MT
4.	Paving Blocks	5000 Pieces
5.	GSB	50864 MT
6.	Screen Soil	118395 MT
7.	CC Bricks	10000 m ³ (1250000 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 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 2022-2023 is given in the following Table:

S. No.	Description	Quantum (Year 2022-23)
A	C&D Waste Received (As per Plant Operator)	43430.35 MT (119 TPD) (79.3 % of Installed Capacity)
B	Total Quantity of Construction and Demolition Waste Processed / Recycled	37648.56 MT (103.2 TPD) (68.8 % of Installed Capacity)
1.	Screen Soil	27517.176 MT
2.	Recycled Aggregate/Sand	10122.27 MT
3	Dumble 60MM	686507 Pieces
4	Dumble 100MM	15053 Pieces
5	Milano	229277
6	Kerb stone	35823 Pieces
7	Rectangle 60MM	22882 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.

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)

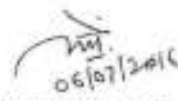
F. No. 7(84)/AD/LB/2016/ 5 38 2-58 55

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.


(Onkar Marathe)
Dy. Director (LB)

Status of Off-take of C&D Recycled Products by the Government Departments in Delhi During FY 2022-23			
S.N.	Name of Government Department	Off-take Target (MT)	Total Achievement (MT)
1	MCD (erstwhile North Delhi Municipal Corporation)	100000	21808
2	MCD (erstwhile East Delhi Municipal Corporation)	50000	5837
3	MCD (erstwhile South Delhi Municipal Corporation)	50000	43275
4	DDA	100000	74660
5	DSIIDC	140000	68389
6	Irrigation & Flood Control	200000	138109
7	New Delhi Municipal Council	25000	10162
8	PWD	100000	41236
9	CPWD	100000	5838
10	NBCC	100000	2164
11	DMRC	10000	679
12	Railway Board	10000	0
13	NCRTC	5000	721
14	DJB	5000	15092
15	Delhi Tourism and Transport Development Corporation (DTTDC)	5000	2044
16	Delhi Urban Shelter Improvement Board (DUSIB)	5000	59
17	Delhi Cantonment Board	5000	149
18	Delhi Transco Limited, BYPL, BRPL, Tata Power Delhi Distribution Limited & Other Government Departments of NCT of Delhi	50000	4125
19	NHAI	400000	93157
Grand Total (MT)		1460000	527504

