
HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
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Dated:21-08-2024

To

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

Subject: Submission of annual report of C&D Waste Management Rules, 2016 for the year year 2023-24.

Kindly refer to the subject noted above.

In this connection, I have been directed to enclose herewith the Annual Report for the year 2023-24 under C&D Waste Management Rules, 2016 for Kind information and further necessary action please.

DA/as above

Signed by

Vikas Chand

Date: 21-08-2024 15:40:16

Env. Engineer (HQ)
For Chairman

CC to :-

A copy of above is forwarded to the following and further necessary action please:

1. Sr. Environmental Engineer (IT) for uploading the annual report on the website of the Board.
2. Nodal Officer, E-Sanyojan, HSPCB for uploading the annual report on E-Sanyojan Portal of CPCB.

Form-IV

See (Rule (8) (3))

Format for Annual Report to be submitted by the State Pollution Control Board/Committees to the Central Pollution Control Board.

Name of the State/Union Territory	Haryana
Name & address of the State Pollution Control Board/Pollution Control Committee	Haryana State Pollution Control Board, C-11, Sec-6, Panchkula
Number of municipal authorities responsible for management of municipal solid waste in the State/Union territory under these rules	88
A Summary Statement on progress made by municipal authorities in respect of implementation of Schedule III	Attached as Annexure-I
A Summary Statement on progress made by municipal authorities in respect of implementation of Schedule IV	Schedule IV is not available with C&D rule. However Status report regarding compliance with regard to Construction & Demolition Waste Management Rules 2016 is Annexed as Annexure-II and annual report submitted by Urban Local Bodies is attached as Annexure-III

Annexure-I

Time frame for Planning and Implementation

Formulation of policy by State Government	A policy for management of Construction & Demolition waste has also been notified by Govt. of Haryana in November 2020. Copy of policy is attached as Annexure-IV
Identification of sites for collection and processing facility	80 Nos. of dumpsites have been identified. Further, 03 Nos. of Processing Plants each at Gurugram, Faridabad and Rewari have been installed.
Commissioning and implementation of the facility	DULB has identified 83 C&D sites for separate storage of C&D waste. Municipal Corporation, Gurugram has already established a processing plant of Construction and Demolition Waste at Village Basai to treat 300 MT of C&D Waste, which has been planned to increase the processing facility by 1000 MT shortly. Also, additional plant of 1000 MT capacity in Gurugram have been planned and for the same land is identified. Further, Municipal Corporation, Faridabad has also established 300 TPD C&D Waste Management Plant.
Monitoring by SPCBs	Monitoring of processing plant is being done by Haryana State Pollution Control Board.

Annexure-II

Status report regarding compliance with regard to Construction & Demolition Waste Management Rules 2016

Construction and Demolition (C&D) waste-disposal and handling:-Municipal Corporation, Gurugram has established a processing plant of Construction and Demolition waste at Village Basai to treat 300 MT of C&D Waste daily, which is planned to enhance their processing capacity by 1000 MT. Also, additional C&D Waste of Processing plant of 1000 MT capacity in Gurugram have been planned and for the same land is identified.

Further, Municipal Corporation, Faridabad has also established a 300 TPD C&D Waste Management Plant.

And a plant of 400 TPD also operational in the jurisdiction of Municipal Council Rewari to process the C&D Waste.

For remaining towns the status is as under:-Apart from above listed ULBs rest of the ULBs in State have the Waste generation below 50 TPD and it is not viable to set up the C&D Waste Management Plant so the remaining ULBs are using the waste for filling in low lying areas or road filling.

For remaining towns the status is as under:-As per C&D Waste Rules 2016, all ULBs must identified separate site for C&D waste collection. At present, 83 ULBs have identified C&D sites for separate storage of construction and demolition waste. The detail of Municipalities who have identified the site for dumping of C&D waste is as given below:-

Sr. No.	ULB Name	Site identified for dumping of C&D Waste
1	Ambala City	Yes
2	Faridabad	Yes, and Processing Plant
3	Gurugram	Yes, and Processing Plant
4	Hisar	Yes
5	Karnal	Yes
6	Panchkula	Yes
7	Panipat	Yes
8	Rohtak	Yes
9	Sonepat	Yes
10	Yamuna Nagar	Yes
11	Bhiwani	Yes
12	Charkhi Dadri	Yes
13	Fatehabad	Yes
14	Sohna	Yes
15	Hansi	Yes

Sr. No.	ULB Name	Site identified for dumping of C&D Waste
16	Bahadurgarh	Yes
17	Jhajjar	Yes
18	Jind	Yes
19	Narwana	Yes
20	Thanesar	Yes
21	Hodal	Yes
22	Palwal	Yes
23	Rewari	Yes, and Processing Plant
24	Gohana	Yes
25	Narwana	Yes
26	Barara	Yes
27	Naraingarh	Yes
28	BawaniKhera	Yes
29	Loharu	Yes
30	Siwani	Yes
31	Farukhnagar	Yes
32	HailyMandi	Yes
33	Pataudi	Yes
34	Barwala	Yes
35	UklanaMandi	Yes
36	Beri	Yes
37	Julana	Yes
38	Safidon	Yes
39	Cheeka	Yes
40	Kalayat	Yes
41	Pundri	Yes
42	Assandh	Yes
43	Gharaunda	Yes
44	Indri	Yes
45	Nilokheri	Yes
46	Nissing	Yes
47	Taraori	Yes
48	Shahabad	Yes
49	Nuh	Yes

Sr. No.	ULB Name	Site identified for dumping of C&D Waste
51	Punhana	Yes
52	Taruru	Yes
53	Hathin	Yes
54	Samalkha	Yes
55	Bawal	Yes
56	Dharuhera	Yes
57	Kalanaur	Yes
58	Sampla	Yes
59	Gannaur	Yes
60	Kharkhoda	Yes
61	Radaur	Yes
62	Rajound	Yes
63	Tohana	Yes
64	Kanina	Yes
65	FerozpurJhirka	Yes
66.	Rania	Yes
67	Ratia	Yes
68	Bhuna	Yes
69	JakhalMandi	Yes
70	AteliMandi	Yes
71	Narnaud	Yes
72	NangalChoudhary	Yes
73	Ellenabad	Yes
74	Uchana	Yes
75	Meham	Yes
76	Mahendergarh	Yes
77	MandiDabwali	Yes
78	Pehowa	Yes
79	Ladwa	Yes
80	AmbalaSadar	Yes
81	Narnaul	Yes
82	Kundli	Yes
83	Kalka-Pinjore	Yes

MCs have also been directed to ensure that all the contractors, builders & individuals should comply with the C&D waste management rules and the challans on violators should be done for non-compliance.

ULB Department of Haryana has issued 4,164Nos. Challan of amounting to Rs. 47,88,600/- against the non-compliance of C&D Waste management Rules-2016 during the financial year 2023-24.

Name of the District	Name of Municipality	Name of Nodal Officer of C&D waste Management	Contact No. of Nodal Officer	Population during Year 2023-2024	1-Quantity and composition of construction and demolition waste including any deconstruction waste	Any figures for lean period and peak period generation per day	Average generation of C&D waste TPD	Total quantity of construction and demolition waste collected per day	Any Processing / Recycling Facility set up in the city	Status of the facility	b-Total quantity of construction and demolition waste processed / recycled (in metric ton) Non-structural concrete aggregate (MT)	Manufactured Sand (MT)	Ready Mix Concrete (MT)	Paving Blocks (MT)	GSB (MT)	Others, if any please specify (MT)
Fatehabad	Municipal Council Fatehabad	Sh. Rajender Prashad	9416719490	90428	0.493150685	5	0.5	0.5	0	0	0	0	0	0	0	Collected C&D waste is used for only filling of low lying area
Hisar	Narnaund	Sunil kumar	9467136004	20226	0.5	0.001	0.01	0.01	NA	NA	0					
Ambala	Municipal Council, Ambala Sadar	Harish Sharma	9466934699	241000	430	1.2	1.2	1.2	Yes	One Storage site identified at Ram Bagh Road and C & D Waste is being stored here. There is vast low lying area within the limit of Municipal Council	0	40	280	60	50	
kaithal	Rajound	Narender Sharma	9991745939	17434	36	0.5	0.2	0.2	no	NIL	Nil					C&D waste is being reused by general public in construction of house and individuals having low laying property
Rewari	MC Dharuhera	Satya Parkash	9953620076	58190	2070	5.75	5.75	5.75	M/s Shree Shyam Construction co. , Village Manethi Majra, Distt Rewari	C&D waste is processed by agency (M/s Shree Shyam Construction co. , Village Manethi Majra, Distt Rewari)	0	0	0	0	0	0
Bhiwani	MC Siwani	Shri Bhagwan Sharma	9416303013	25000	0.33	0.8	0.4	0.4	no	no	0	0	0	0	0	0
Jind	Jind	Rishikesh Chaudhary	992390006	225000	540	1	1.5	1.5	yes	Working	0	0	0	0	0	NA
PALWAL	MUNICIPAL COUNCIL HODAL	SURESH KUMAR	9350102003	65792	730	2	2	2	NOT REQUIRED, AS HODAL IS A SMALL TOWN AND C & D WASTE PRODUCED IN LOW QUANTITY QUANTITY WHICH IS USED BY	NOT REQUIRED, AS HODAL IS A SMALL TOWN AND C & D WASTE PRODUCED IN LOW QUANTITY QUANTITY WHICH IS USED BY	NIL	NIL	NIL	NIL	NIL	NIL
JHAJJAR	BAHADURGARH	PARVEEN CHHIKARA	7988157202	217632	527	9	1.4	1.4	NO	NA	0	0	0	0	0	NIL

Sonipat	Gohana	Durga Devi	9306976878	85000	18.25	100	0.05	0.05	No	Nil	Nil	Nil	0	0	0	0
Rohtak	Sampla	Anil Kumar	8685873921	30200	12	0.067	0.33	0.33	Nil	No facility available	0	0	0	0	0	0
Mahendergarh	MC Mahendergarh	Manoj Kumar	9991005800	39722	480	2.05	1.2	1	No	NA	0	NA	NA	NA	NA	NA
REWARI	BAWAL	ANIL KUMAR SECRETARY	9813397504	23800	99.32	0.38	0.3	0.3	YES	FULLY FUNCTIONAL	0	0	0	0	0	0
Palwal	Palwal	Sunil ranga	9654941067	226239	547.5	1.5	1.5	1.5	No	Being a small town the protection of c&d waste is very less, so for c&d waste management a plant for processing c&d may be set up at cluster level which will	0	NIL	NIL	NIL	NIL	NO
Hisar	MC Uklana	Sh Sandeep	9305750000	18009	180	0.7	0.5	0.5	NO	NA	0	0	0	0	0	C&D Waste using in low lying area
Nuh	Tauru	Manish Schrawat	9891920302	25670	18.25	0	0.05	0.05	No	Nil	0	0	0	0	0	0
Sonipat	MC Kundli	Pawan	8448534777	36678	1.2	0.050-0.50	0.1	0.1	NIL	shifted to low laying area	0	NA	NA	0.8	0.4	NIL
karnal	Nissing	Jitender Kumar Mutneja	8950550000	23800	180 MT	Nil	0.5	0.5	C&D Waste are used for filling low laying area and as a base course for street/building. Most of C&D waste are re-used by local people	Nil	NA	NA	NA	NA	NA	C&D Waste are used for filling low laying area and as a base course for street/building. Most of C&D waste are re-used by local people
Kurukshetra	Pehowa	Satender Singh	9991224486	48852	0.45	0.45	0.45	0.45	Nil	0	Nil	Nil	Nil	Nil	Nil	Nil
Jhajjar	MC Jhajjar	ME Mandeep	7404444699	88600	360	3	1	1	0	0	0	0	0	0	0	0
FATEHABAD	JAKHAL MANDI	MAHAVIR SINGH	9896048048	13569	5	0.7	0.7	0.5	NIL	NIL	NIL					

Kaithal	M.C Kalayat	Sh. Pawan Kumar	9896264705	20546	182.5	0.5	0.5	0.5	C&D waste being used in construction Low lying streets	Nil	NIL					
Ambala	Municipal Corporation Ambala	Deepak Sura	8950544444	351695	2175	1. Lean period- Oct to March- 875 TPD. 2. Peak Period- April to Sep. 1300 TPD	5.96	5.96	NIL	one site at Nasirpur identified for C&D waste collection	0	0.3	0.4	0.3	0.3	Soil- 3.65 TPD
Bhiwani	Loharu	Krishan Kumar	9467004380	19610	180	0.5	0.5	0.5	NO	Nil	Nil	Nil	Nil	NII	NII	use in low line area
Bhiwani	Bawani Khera	Shree Bhagwan Sharma	9416303016	24580	360	0	1	1	0	Only storage site is available	Only used in low laying area					
Nuh	Municipal Committee Ferozpur Jhirka	Manish Sehrawat, Municipal Engineer	9891920302	33900	6.35	3.36	0.1	0.1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	using in low level area for Land filling
Charkhi Dadri	Charkhi Dadri	Mukesh Kukmar, Municipal Engineer	1250-22056	80000 Approx	1080 MT Annually Approx	nil	3	3	No	no	nil	0	0	0	0	0
Jhajjar	Beri	Sunil Kumar	9467633172	Current Population 24000 (Approx)	250 Metric Tone yearly (Approx)	0.5 tpd to 1.0 tpd/day	0.5	0.5	C & D Waste used Low lying area of the city	MC Beri Land identified for C & D waste Collection & Storage.(Kabulpur Road, Beri)	----	----	----	----	----	----
JIND	MC UCHANA	Sh. Bhupender Singh, ME	9588764351	0	0	0	0	0	0	0	0	0	0	0	0	0
Fatehabad	Tohana	Sandeep Solanki	9467820947	75000	25	0.4	0.4	0.4	yes	yes	0	3	4	0	0	0
Gurugaon	MC Pataudi Jatauli Mandi	Sushil Kumar	9416666088	61383	4.8	nil	0.4	0.4	nil	nil	No (used in low lying areas as land filling)	0	0	0	0	0
Jind	MC Julana	Ashok Kumar	7206409501	19398	3.65	Nil	0.01	0.01	No	NA	0	0	0	0	-	-
Hisar	MC Hisar	Sh Rajkumar	9034683881	367472	2555	7	7	7	0	NII	0	0	0	0	0	0

Hisar	Hansi	Sh. Jaivir Singh Municipal Engineer	9466625197	87918 As per PPP data	360 TPD	1 TPD	1	1	no	Low lying Area	0	0	0	0	0	0
Ambala	Naraingarh	MOHIT KUMAR	9896149350	42085	180 TPD	OCT TO MARCH 45 TPD TPD APRIL TO SEP 135 TPD	0.5	0.5	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Hisar	MC Barwala	Sh Omparkesh	8295379075	49500	182	0.3	0.5	0.5	0	Nil	0	0	0	0	0	0
Ambala	MC Barara	Sh Bhanwar Singh	9991630172	26094	182.5	0.5	0.5	0.5	No	No	no	0	0	0	0	0
Sirsa	Sirsa	Shri Attar Singh	7027060060	210000	60	no	0.167	0.167	no	na	0	nil	nil	nil	nil	no
Sirsa	Mandi Dabwali	Shri Surender	9416612829	60000	36	nil	0.1	0.1	Yes	Manual Functional	nil	nil	nil	nil	nil	no
Hisar	Adampur	Rajkumar	7206356845	20500	11	0.5	0.5	0.5	Nil	Na	Nil	Nil	Nil	Nil	Nil	Nil
Sirsa	Kalanwali	Shri Gridhari	9729745141	28000	12	no	0.03	0.03	low line area filling	functional	na	na	na	na	na	low line filling
Palwal	Hathin	Sh. Devender Kumar	8950679055	19907	182.9	0.5	0.5	0.5	No	MC Hathin is a small town, C&D Waste generated is very less, which is mostly used by it's generators at their own level.	0	NIL	NIL	NIL	NIL	No
Yamunanagar	Municipal corporation yamunanagar	Dr. Vijay Pal Yadav	9205846730	532849	4320	lean period =8 metric ton and peak period 16 metric ton	12	12	No	Nil	Nil	Nil	Nil	Nil	Nil	Nil
yamunanaar	Radaur	Sh Mangu Ram	9813983847	19132	24	lean period - 0.5 , peak period -5	0.05	0.05	no	nil	nil	nil	nil	nil	nil	nil
Panipat	Samalkha	Rajkumar	9306506460	53000	108	0.3	0.30	0.30	No	NA	NA	NA	NA	NA	NA	NA

Rohtak	Kalanaur	Sh Hitender JE	7206570008	32140	36	0.1	0.1	0.1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Sirsa	Rania	Vikram Kumar, Junior Engineer	8168071860	30000 Approx.	11 MT	N/A	0.03	0.033	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Faridabad	Municipal Corporation Faridabad	B K KARDAM	97171 70369	1888200	108000	lean period 100 mt and peak period 350 mt	300	120	At Riwazpur Village	The Concessionaire agreement is under process to ink upon which facility is non-opretional.	NIL	NIL	NIL	NIL	NIL	NIL
Karnal	Assandh	Jitrender Kumar Mutneja Municipal Engineer	89505500000	28312	0	0	0	0	YES	GOOD	0	0	0	0	0	0
Panchkula	Kalka	Darshan lal	9803365252	149122	308	5	4	2	no	Site Selected only		70	30	20	0	0
Panchkula	Panchkula	Ajay (XEN)	8750551500	333359	560	10	5	5	No	Site Selection		250	150	100	0	0
Panipat	M C Panipat	Rajesh Kaushik	9896203838	7.5 lakh	280	2tpd	2	2	No	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Bhiwani	MC Bhiwani	Jaswant Singh	9996629555	280000	1440	C&d generation 4tpd	4	4	No, Only storage site available in MC Bhiwani	Processing facility is not available here	only used in low laying area	NA	NA	NA	NA	Only storage site available in MC Bhiwani
Rohtak	MC Meham	Naveen	9416022295	Approx. 37000	300 MT Yearly (Approx)	0.5 TPD to 1.5 TPD/Day	0.6	0.6	C&D Waste Used in Low Line Area of the city.	MC Meham Land Identify for C&D Waste Collection and Storage (Near Model School)	--	--	--	--	--	--
Mahendergarh	Nangal Choudhary	Sunil Kumar Junior Engineer	9466805705	18537	110 MT	NA	0.3	0.22	NA	NA	0	0	0	0	0	0
Kurukshetra	Ismailabad	Ravi Parkash	7027557551	16133	120	19	0.45	0.45	0	NA	0	0	0	0	0	0
Karnal	Municipal Committee, Indri	SH. Parshant Rana	9729715000	18985	40.8	Nil	0.11	0.11	No	No	No	No	No	No	No	No

Karnal	MC Taraori	Ajit Kumar	8708610569	32974	2.5 MT	3.5	3.5	3.5	Use in Low Laying Area	Dumpsite only	0	0	0	0	0	0
Karnal	Nilokheri	Ajit Kumar	8708610569	19963	3	Lean Period- 2.9 ton per day and Peak Period- 4.0 ton per day	3	3	No	No	0	0	0	0	0	0
Mahendergarh	Kanina	Samaya Pal	9416709720	14091 as per FDIR/CRID	165	NA	0.5	0.5	NA	NA	0	0	0	0	0	0
Fatehabad	Bhuna	Naveen Panday	7011210076	39112	0.8	0.2	0.2	0.2	no	Nil	0	0	0	0	0	C&D waste low line area
Jind	Safidon	Jaipal Joon	9671737899	49000	1.08	3	0.3	0.3	YES	Small Crusing Machine	00	NA	NA	NA	NA	NA
Kaithal	MC Kaithal	Sh.Rajesh Kumar	7206312666	188129	800	3	2.2	2.2	No	NA	0	0	0	0	0	0
Kaithal	Cheeka	SH Khushi Ram JE	8930307001	45000	00	00	0.1	0.1	PROCESSING PLANT KAITHAL	ACTIVE	00	00	00	00	00	00
YAMUNA NAGAR	SADHAURA	Bharat Bhusan	9416014714	17581	108.862169	2 ton per day	2	2	NA	NA	NA	NA	NA	NA	NA	NA
Fatehabad	Ratia	Sandeep kumar	9034917391	48318	1.6	0	0.1	0.1	Through the lowest area in ward and drain	Manual	0	0.02	0.03	0.01	0.01	
Sonipat	Ganaur	Jai Dev Sharma	7015945880	48000	0	0.5	0.05	0.05	Nil	Nil	Nil	Nil	Nil	Nil	0	0
Sonipat	Sonipat	Renuka Nandal	7988677652	427270	1800	Nil	5	5	Nil	NA	NA	NA	NA	NA	NA	NA
Rewari	Rewari	Executive Officer	9034837507	179750	8278.061	25	25	25	Yes	Currently processing legacy waste	0	0	0	0	0	0

Kaithal	Pundri	Secretary	9896145410	21211	18.25 MT	0.02 to 0.06	0.05	0.05	c&d waste is used in low laying area by pepople at own level	collection is done by me sanitation team	00	0	0	0	0	Na
Sirsa	Ellenabad	Sanjay Bansal	94161010130	45000	12	0	0.03	0.03	No	NA	NA	Na	Na	Na	Na	Na
Mahendergarh	Ateji Mandi	Dinesh Yadav Municipal Engineer	8168956086	Approx 11500	7.3	0.035	0.02	0.02	No	No	Nil	Nil	Nil	Nil	Nil	No
Gurugram	Manesar	Tushar Yadav	9818460252	575056	Not Available, Getting assessed via collection through tender	Not Available	Not Available	Not Available	Not in MC Manesar area but facility is available at district level	Functional	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
KURUKSHETRA	LADWA	SH. SANJAY KUMAR	8950991617	40000	180	NO PEAK	0.5	0.5	DUMP INTO LOW LYING AREA	LOW LYING AREA AT DUMPING STATION	0	3	5	6	0	0
kurukshetra	Shahabad	SURENDER MALIK	8950032833	55000	180	NO	0.5	0.5	NO	ONE TRACTOR TROLLY	0	0	0	0	0	0
Mahendergarh	Narnaul	Deepak Goyal	9050120188	105800	0	0	2	2	No	Nil	0	0	0	0	0	0
Nuh	Punhana	Ajay Kumar Junior Engineer	8683976311	31744	54.75	4.65	0.15	0.15	NO	No recycling facility	0	0	0	0	0	Concrete
Gurugram	Municipal Corporation of Gurugram	Nijesh Kumar	8053494965	1280000	730000	1500-2500 MT	2000	668	Yes, at Basai Gurugram	Operational	668.1643836	6720	0	9971	0	0
Sonapat	Kharkhoda	Brijesh, Municipal Engineer	7988081914	32050	56	1	0.15	0.15	No	N/A	0	0	0	0	0	0
Rohtak	Municipal Corporation, Rohtak	Sh. Amit Kuma, EE	9999443677	568155	1825	4	5	5	nil	Use in lowline area	Nil	Nil	Nil	nil	NIL	nil
Nuh	Nuh	Arun Nandal	9812433393	Approx. 22250	182.5	0.5	0.5	0.5	low lying areas	low lying areas	low lying areas	Nil	0.5	Nil	Nil	---

Karnal	Municipal Corporation Karnal	Priyanka Saini Executive Engineer	8708555471	460000	1825	Nil	4	3	C&D waste dumping in low lying area	Nil	No, All C&D waste dumped in low lying area	Nil	Nil	Nil	Nil	Nil
Gurugram	Farrukhnagar	Yogesh Rathee	8222002777	33000	79.2	0.21	0.5	0.5	NA	NA	NA	NA	NA	NA	NA	No facility available construction and demolition waste processed / recycled
Kurukshetra	MC Thanesar	Surender singh	8708374707	180000	750	5 Ton	2	0	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Karnal	Municipal Committee Gharaunda	Rajiv Goel	7015291986	50000	1.5 TPD	1.5	1.5	1.5	Through Safai Karmchhari of MC Gharaunda & Agency	Through Safai Karmchhari of MC Gharaunda & Agency	0	0	0	0	0	0
Rohtak	Rohtak	Amit Kumar, EE	9999443677	568155	1825	4 TPD	5	5	Nil	C&D waste dump in Low line area.	Nil	Nil	Nil	Nil	Nil	Nil
Gurugram	Municipal Council Sohna	Rajpal Singh	9466447135	84630	710	NO	2	2	NO	N/A	-	---	1.25 TPD	0.5 TPD	0.25 TPD	NO
Kaithal	Siwan	Deepak Kumar	9896110016	25003	0	Na	0.3	0.3	Dump in no linig area	NA	NA	NA	NA	NA	NA	NA

C) Total quantity of Construction & Demolition waste disposed by land filling without processing (last option) or filling low lying areas No. of Landfill sites used	Area Used (In acre)	Whether weigh-bridge facility used for quantity estimation?	(D)-Whether construction and demolition waste used in sanitary landfill (for solid waste) as per Schedule III	2- Storage Facilities a- Area or location or plot or societies covered for collection of Construction and Demolition waste	b-No. of large Projects (including roadways project) covered	c-Whether Area or location or plot or societies collection is Practiced (if yes, whether done by Competent Authority or Local Authority or through Private Agency or Non-Governmental Organization)	d-Storage Bins- Containers or receptacle (Capacity) Specifications (Shape & Size) Existing (Number) Proposed for future Other please specify	e-Whether all storage bins/collection spots are attended for daily lifting	Whether lifting of Construction & Demolition Waste from Storage bins is manual or mechanical (please tick mark) please specify mode	lifting of Construction & Demolition Waste from Storage bins equipment used	3-Transportation Existing actually required/proposed number Truck	Truck-Hydraulic	Tractor- Trailer	Dumper-Placer	Tricycles	Refuse collector
0.5	3	No	No	Yes	0.1	Collected C&D waste is being used for filling of low lying area.	0	Yes	Manual	Manually Collected Tractor Trolley	01	0.1	01	0.1	1	0.1
0.01		No	No	NA	0.1	NA	Proposed for future	Yes	Manual		0.1	0.1	1	0.1	0.1	0.1
1.2	0.6	No	No	Ram Bagh in MRF Plant, Dussehra Ground	1	No	No	No	Manual	Through JCB and Tractor Trolley	1	1	2	1	1	1
0.2		No	No	nil	1	no	nil	No	Mechanical		1					
5.75	3	No	Yes	near garib nagar dharuhera	0.01	0	0	No	Manual	0	1	1	1	1	1	1
0.4	15	No	No	na	0.01	na	na	No	Mechanical	na	1	1	1	1	1	1
1	2	No	No	yes	1	NO	80	Yes	Manual	Excavator	5	1				
1	0.00001	No	No	NUH ROAD	1	NO	0	No	Mechanical	NA	1	1	1	1	1	1
1.4	0.5	No	No	0.5 ACRE, C&D WASTE STORAGE SITE, SECTOR 7 HSBC, BACK SIDE BAHADURGARH	1	NO	0	No	Mechanical	NA	1	1	1	1	2	1

0.05	1	No	No	Village thaska Dumpsite	1	Nil	Nil	No	Mechanical	No	1	1	1	1	1	1
0.330	1	No	No	Nil	0.1	Nil	Nil	No	Manual	Nil	0.1		1		2	
1	2	No	Yes	Near Dholposh Gausahala	1	Yes MC Mahendergarh	3 CUM	Yes	Manual		1	1	1	1	2	1
0.3	1.8	No	No	OLD BUS STAND	1	NO	0	Yes	Manual	TRACTOR TROLLEY	1	1	1	1	6	1
1.5	0.1	Yes	No	NIL	1	BY ULB	NA	No	Manual	Tractor Trolley	1	1	1	1	1	1
0.5	2	No	No	Kundan Pura Road	0	Nil	Nil	No	Manual	No	0	0	1	0	0	0
0.05	0.5	No	No	Mc Land Pachgaon Road Tauru	00	No	No	No	Manual	Man Power and Tractor Trolley	0	1	1	0	10	0
0.1	2.5	No	No	patwarkhana	NIL	No	NIL	No	Manual	NA	NA	NA	NA	NA	NA	NA
0.5	1	No	No	Municipal Area Nissing	Nil	Collection point is near Mata Sundri Collage. Most of C&D waste are reused by local peoples.	Nil	No	Manual	Nil	Nil	Nil	To collect C&D waste one no of Tractor trally deployed by this office and fix charges 500/Trip.	Nil	Nil	Nil
0.45	1.5	No	Yes	Shamshan road	0	0	0	No	Manual	0	0	0	0	0	0	0
1	2	No	No	C & D Waste Storage Plant MC Jhajjar Near Delhi Gate, Bahadurgarh Road Jhajjar.	1	C & D Waste Storage Plant MC Jhajjar Near Delhi Gate, Bahadurgarh Road Jhajjar.	0	No	Manual	By JCB	0	0	1	1	2	0
0.5		No	No	NIL	NIL	NO	NIL	Yes	Manual		NIL					

0.5		No	No	Near Shamsan ghatt dump site 1 ward no. 08	No	No	Nil	No	Manual		01					
5	1.394	No	No	boundary not constructed yet	NIL	NIL	NIL	No	Mechanical	no storage bins available	2 tractor trolley deployed collection and transportation	0	2	0	0	0
0.5	3	No	Yes	NA	NA	NA	NA	No	Mechanical	JCB	NII	NII	NII	Nil	NII	NII
1		No	Yes	Hansi Bhiwani road	No larg project	No	Only storage site is available	Yes	Manual	Lifting by manually from storage site	0					
0.1	0.2	No	Yes	Doodh Ghati tijara road	nil	nil	nil	Yes	Manual	nil	nil	nil	01	nil	nil	NIL
3	0.15	No	No	21 ward (Residential and commercial area)	No large project covered	no	no bins are placed for C and D waste is collected from sile MC and from C and D waste sili	Yes	Mechanical	yes	0	0	4	1	20	0
0.5	0.5 acre	No	No	No	No	MC Beri Land identified for C & D waste Collection & Storage.(Kabulpur Road, Beri)	----	Yes	Mechanical	Tractor - Trailer	----	----	1 No	----	1 No	----
0	0	Yes	No	0	0	0	0	No	Manual	0	0	0	0	0	0	0
0.4	1	No	Yes	no	no	no	Proposed for future	Yes	Manual	yes	no	no	1	0	0	0
0.4	2.5	No	No	MC area pataudi	0	Nil	Nil	No	Manual	Tractor Trolley	0	0	2	0	0	0
0.01	0.2	No	No	NO	Nil	Nil	Nil	No	Manual	Nil	0	0	1	0	0	0
7	5	No	No	Satrod (Hisar)	0	Nil	Nil	No	Manual	0	0	0	14	0	0	0

1.0	1 Acre	No	No	Ward no. 01 to 27 and Main Road and Streets in city	0	MC own Level	0	Yes	Manual	No	1	1	2	1	50	1
0.5	Land filling done after identifying low lying areas.	No	No	collection of Construction and Demolition waste is identified at AMBALA CHOWK NARAINGARH	NIL	Yes, by ULB	nil	No	Mechanical	JCB and Loader	0	0	1	0	0	0
0.5	1	No	No	GURANA ROAD	0	Nil	0	No	Manual	Tractor	0	0	1	0	0	0
0.5	1 Acre	No	No	no	no	no	no	No	Manual	no	0	0	0	0	0	0
0.167	1.5	Yes	No	Auto Market Sirsa	nil	MC Sirsa	nil	No	Mechanical	Loader	1	Yes	Yes	no	yes	no
0.1	3.5	Yes	No	Uttam Nagar ,Ward no.1 Mandi dabwali	nil	Mc Dabwali	na	Yes	Mechanical	loader	1	yes	yes	no	yes	no
0.5	Nil	No	No	Nil	Nil	Nil	Nil	No	Manual	Manual	Nil	Nil	Nil	Nil	Nil	Nil
0.03	1	No	No	Dadu Road	nil	Mc Kalanwali	nil	Yes	Manual	loader	1	yes	yes	no	yes	no
0.5	NIL	Yes	No	No	NIL	By ULB	NA	No	Manual	Tractor Trolley	NIL	NIL	1	NIL	2	NIL
12	4	No	No	No	Nil	No	No storage bins	No	Manual	No Lifting From Storage Bins	Truck-0	0	0	0	0	0
0.05	4	No	No	no	no	no	no storae bin for C&D waste	No	Manual	nil	0	0	0	0	0	0
0.30	1	No	No	17 Nos. wards	No	yes, ULB	used in low line areas	Yes	Manual	manual equipment's	0	0	1	0	0	0

0.1	Nil	No	No	Nil	0	Nil	Nil	No	Manual	Nil	Nil	Nil	Nil	Nil	2	Nil
0.03	0.00047	No	No	Dump Site	N/A	Own Level	Proposed for future : Yes	Yes	Mechanical	Loader	0	1	1	0	5	0
120	30 for 5 landfill sites.	No	Yes	1)Riwajpur 2)Mirzapur 3)mawai 4)Sector 59 5)NIT.	NIL	NIL	NIL	Yes	Mechanical	JCB,DUMPERS,AND TRACTOR TROLLEY	05	05	05	0	0	0
0	0	No	Yes	MC Assandh	0	0	0	Yes	Manual	0	0	0	1	0	20	0
2	2	No	Yes	Yes	0	No	No	Yes	Manual	JCB	1	1	2	1	0	1
5	2	No	Yes	No	0	No	Trolley size 12 Feet * 6 Feet * 2.5 Feet, Capacity: 10 Ton	Yes	Manual	JCB	1	1	2	1	0	1
2	2	No	Yes	Dutta colony	N/a	Local authority	NA	No	Manual	Tractors with trolley	2	2	4	2	10	4
4	1	No	No	Storage facility is in open	NA (Compliance on orders & rules)	No	Not Available	Yes	Mechanical	C & D Waste is lifting by storage site by JCB (Tractor Trolley)	0	0	0	1	0	0
0.6	2 Acre	No	No	No	No	MC Meham Land Identify for C&D Waste Collection and Storage (Near Model School)	--	Yes	Mechanical	Tractor- Trailer	--	--	1	--	1	--
0.22	0.5	No	No	11 Sq KM	0	Yes, By own Vehicle	NA	No	Manual	Tractor Trolley	0	0	0	0	0	0
0.45	2	No	Yes	2	0	NA	5	Yes	Manual	MANUAL,KASI	19	0	1	0	0	0
0.11	2	No	Yes	Yes	No	No	Nil	Yes	Mechanical	Yes	No	No	Yes	Yes	No	No

3.5	0.5	Yes	Yes	Edgah Basti and other low laying area	0	0	0	Yes	Manual	There have no bins installed in MC Taraori Area	0	0	1	0	0	0
3	2	Yes	Yes	Kali Mata Mandir Road, Nilokheri	0	No	No	No	Manual	Yes	0	0	1	0	0	0
0.5	1	No	Yes	Manka wali Bani, Area 1 Acre	0	0	0	No	Manual	No	0	0	0	0	0	0
0.2	2	No	No	NO	0	0	0	No	Manual	Yes	01	No	Yes	No	Yes	0
0.3	1	Yes	No	In MC Limit at low lying areas	0.1	No	7	Yes	Mechanical	Excavator	2	2	3	4	20	70
2.2	NA	Yes	No	500 sq. yrd	0	NA	NA	No	Mechanical	Tractor Trolley	0	0	1	0	0	0
0.1	2.5	Yes	Yes	BALBHERA ROAD CHEEKA	00	NA	NA	Yes	Manual	00	01	00	01	00	00	00
2	1	No	Yes	Yes	No	No	yes	Yes	Mechanical	tractor trolley	Required 1	Required 1	NA	NA	NA	NA
0.1	0	No	No	0	0	0	0	Yes	Manual	Manual	0	0	1	0	1	0
0.05	1	No	No	Nil	Nil	Nil	Nil	Yes	Manual	Nil	Nil	Nil	Nil	Nil	Nil	Nil
5	4	No	No	Nil	Nil	Private Agency	Nil	Yes	Manual	Tractor Trolley	0	0	3	0	0	0
22.67961918	0	No	No	n/a	n/a	n/a	0	No	Mechanical	0	1	1	1	1	1	0

0.05	01	No	No	NA	NA	NA	NA	No	Manual	NA	00	00	01	00	00	00
0.03	10	No	Yes	Yes	No	No	No	Yes	Manual	na	na	na	na	na	na	na
0.02	Nil	No	No	All MC Area	Nil	All MC Area by MC ownself	Others-Tractor and Trolley	Yes	Manual	Tractor & Trolley	No	No	Yes	No	No	No
Not Available	Not Available	No	No	Not Available	Not Available	Not Available	Not Available	No	Manual	Not Available	0	0	3	0	0	0
0.5	1.2	No	No	DOWN AREA AT BABAIN ROAD LADWA	0	0	NO	No	Manual	TRACTOR TROLLY	NA	NA	1	1	5	5
0.5	3	Yes	No	BRARA ROAD NEAR TRUCK UNION	0	NO	0	No	Manual	ONE TRACTOR TROLLY HIS DIPLOYED FOR COLLECTION OF C&D WASTE ON DAILY BASIS	0	1	1	0	3	0
2	1	No	No	Khalda near Raghunathpura	0	MC Narnaul	Tractor Trolley	No	Manual	Tractor Trolley	0	0	1	0	0	0
Not used in Landfilling but only collected at one place	1	No	No	1	covered	Yes	Yes	Yes	Mechanical	JCB	0	0	3	1	15	0
0	0	Yes	No	Basai, Gurugram	0	Through Private Agency	0	No	Mechanical	Backhoe Loader and Truck	4	1	0	0	0	0
0.15	1	Yes	No	Rohtak Road Kharkhoda	0	Nil	Nil	Yes	Manual	tractor trolley & helpers	0	0	1	0	0	0
5	8	No	No	Nil	0	Nil	Nil	No	Mechanical	Nil	0	0	3	0	0	0
0.5	----	No	No	Old Sabji Mandi Back side	Nil	Nil	10 sq. mtr. and 01 Nos.	Yes	Manual	Low Lying area	0	0	1	0	0	0

3 2 nos	10 acre (approx)	No	No	Nil	Nil	Nil	Nil	Yes	Mechanical	Tractor trolley	Nil	Nil	Yes	Nil	Nil	Nil
0.5	3	No	No	Yes	No	NA	2	Yes	Manual	Manual	0	0	1	0	0	0
2	9000+3000=12000 Sqm	No	No	Not Covered	Nil	No	No	No	Mechanical	Dumping site	No	No	Yes 2	No	5	No
1.5	1	Yes	Yes	0	0	0	0	Yes	Manual	0	0	0	1	1	2	1
5	8	No	No	C&D waste dump in Low line area at Sunarian	1	Nil	Nil	No	Mechanical	Nil	0	0	3	1	0	0
1	2	No	Yes	DUMPING STATION	----	----	----	No	Manual	KAASL,TASLA,GENTI	0	0	1	0	0	0
0.3	2	No	No	1	0	NA	NA	Yes	Manual	yes	0	0	1	0	2	0

Other (please specify)	4-Whether any proposal has been made to improve Construction and Demolition waste management practices	5-Have any efforts been made to involve PPP for processing of Construction & Demolition waste : If yes, what is (are) the technologies being used.	<u>i. Dry Process</u> Processing/Recycling Technology	<u>ii. Dry Process</u> Quantity to be processed	<u>iii. Dry Process</u> Steps Taken	<u>i. Wet Process</u> Processing/Recycling Technology	<u>ii. Wet Process</u> Quantity to be processed	<u>iii. Wet Process</u> Steps Taken	<u>Others if any, please specify</u>	6-What provisions are available to check unauthorized operation of:	7-How many slums are provided with construction and demolition waste receptacles facilities:	8-Are municipal magistrates appointed for taking penal action for non-compliance with these rules:	<i>[If yes, how many cases registered & settled during last three years (give year wise details)]</i>
Nil	Being a small Municipality, the production of C&D waste is much low. So for C&D waste Management a plant for processing of C&D	No	Nil	0.1	Collected C&D waste is being used for filling of low lying area.	Nil	0.1	Nil	Collected C&D waste is being used for filling of low lying area.	Encroachment in Parks, Footpaths etc	0	Yes	0
na	na	No	na	0.1	na	na	0.1	na	na	Mixing with solid waste	0	No	na
0	No	No	MC Ambala Sadar has agreement and registered M/s Bhagat Ji Trading Company separates it with the help of people and sends it to concerned company.	48	MC Ambala Sadar has agreement and registered M/s Bhagat Ji Trading Company separates it with the help of people and sends it to concerned company.	Waste To Compost	58	Segregated Wet Waste processed approx 58 TPD . Wet Waste is being collected by the D 2 D Contractor. Shree Shyam Associates has agreement with Agency.		Unauthorized filling of low line areas	0	No	
	no	No								Mixing with solid waste	nil	No	
0	no	Yes	not available at that time	5.75	estimate under preparation.	not available at that time	5.75	estimate under preparation.		Mixing with solid waste	0	No	0
0	na	No	0	0.01	0	0	0.01	0	0	no	na	No	na
	no	No	yes	65	Shorting-chemical treatment-crushing in trubler	yes	40	windrow composting/pit composting		Unauthorized filling of low line areas	0	No	
NOT REQUIRED	NOT REQUIRED, AS HODAL IS A SMALL TOWN AND C & D WASTE PRODUCED IN LOW QUANTITY QUANTITY WHICH IS USED BY	No	NOT REQUIRED	0.00001	NOT REQUIRED	NOT REQUIRED	0.00001	NOT REQUIRED	NOT REQUIRED	Encroachment in Parks, Footpaths etc	0	No	
JCB 1	NO	No								Encroachment in Parks, Footpaths etc	0	Yes	28

0	The Generation quantity of C&D waste is very low. This is used for filling low lying area.	No	Nil	1	0	Nil	1	Nil	Nil	Unauthorized filling of low line areas	Nil	No	0
	Nil	No								Unauthorized filling of low line areas	0	Yes	Enforcement team constituted for compliance.
NA	No	No	Yes	1.2	-	-	1.2	-	-	Encroachment in Parks, Footpaths etc	0	No	-
0	YES	Yes	CRUSHER PLANT	520	AGENCY HIRED	CRUSHER PLANT	130	AGENCY HIRED		Unauthorized filling of low line areas	0	No	
NIL	Spread awareness to citizens	No	NIL	1.5	In low lying area	NO	1	NA	NO	Unauthorized filling of low line areas	0	No	NA
0	Nil	No								Unauthorized filling of low line areas	Nil	Yes	0
N.A.	DPR will be prepared	No	Nil	Nil	Nil	Nil	Nil	Nil	N.A.	Inspection have been conducted time to time in MC Area	Nil	No	Nil
NA	No	No	NA	NA	NA	NA	NA	NA	NA	Encroachment in Parks, Footpaths etc	NIL	No	NIL
Nil	C&D waste may reused as base course in floor or toe wall and for filling up low lying area.	No	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Unauthorized filling of low line areas	Nil	Yes	
0	0	No	Processing	0.5	Nil	Nil	Nil	Nil	Nil	0	0	No	0
	No	No								Unauthorized filling of low line areas	1	Yes	
	NO	No								Unauthorized filling of low line areas	NIL	No	

	No	No								Demolition of houses in M.C area	No slum identified in M.C area	No	
0	Proposal are under consideration	No	NIL	NIL	NIL	NIL	NIL	NIL	NIL	Encroachment on river bank or wet bodies	No any slum area in MC limit	No	NIL
1 job required	nil	No	NA	NA	NA	NA	NA	NA	use in low line area	NIL	0	No	NA
	Me will follow complinace on orders	No								In city	0	No	
NIL	NIL	No	NIL	NIL	NIL	NIL	NIL	NIL	NIL	Encroachment in Parks, Footpaths etc	NIL	Yes	NIL
no	no	No	0	0	0	0	0	0	0	Unauthorized filling of low line areas	nil	No	nil
----	Yes	Yes	----	----	----	----	----	----	----	As per Municipal Committee Act 1973	No slum area in Municipal Committee Beri jurisdiction.	No	----
0	0	No	0	0	0	0	0	0	0	Sanitation Wing	0	No	0
no	yes	Yes	yes	2	yes	yes	1	yes	no	Unauthorized filling of low line areas	no	Yes	0
0	Nil	No	0	0	0	0	0	0	used in low lying areas as land filling	Unauthorized filling of low line areas	0	No	0
0	No	No	No	0	0	0	0	0	0	Encroachment in Parks, Footpaths etc	0	No	0
0	No	No	0	0	0	0	0	0	Nil	Mixing with solid waste	Nil	No	0

0	No	Yes	No	0	0	0	0	0	0	0	Unauthorized filling of low line areas	5	Yes	0
0	There is very meagre quantity of C & D Waste Generated. So ULB used it for filling low lying areas.	No	nil	nil	nil	nil	nil	nil	nil	nil	Yes being monitored	No slum area exist in ULB.	No	nil
0	Nil	No	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Mixing with solid waste	Nil	No	Nil
0	no	No	no	no	0	0	0	0	0	0	yes	no Slums Existing MC Barara	No	no
no	yes	No	manual	60	Segregation	Segregation	0	NA	NO	NO	Encroachment in Parks, Footpaths etc	0	Yes	0
nil	yes	Yes	low line area filling after segregation	10	segregation	nil	na	na	nil	nil	Encroachment in Parks, Footpaths etc	0	Yes	0
Nil	Nil	No	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Unauthorized filling of low line areas	Nil	No	Nil
nil	yes	No	manual	nil	segregation	nil	nil	na	nil	nil	Encroachment in Parks, Footpaths etc	0	Yes	0
NIL	By Public Awareness	No	NIL	0.5	Citizens and at their own level and rest of that is used in filling low lying areas.	No	NA	NA	No	No	Unauthorized filling of low line areas	NIL	No	NA
0	No	No	No	NO	No	No	No	No	No	No	Mixing with solid waste	Nil	Yes	Nil
0	no	No	nil	nil	no	no	nil	no	no	no	Mixing with solid waste	nil	No	nil
0	proposal for Construction and Demolition waste management by agencies.	No	NA	NA	NA	NA	NA	NA	NA	Used in Low line Areas	Team Deployed	NA	Yes	Nil

Nil	Nil	No	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Unauthorized filling of low line areas	Nil	Yes	Nil
0	N/A	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Unauthorized filling of low line areas	N/A	Yes	Nil
NIL	NIL	Yes	NIL	NIL	NIL	NIL	NIL	NIL	NIL	Unauthorized filling of low line areas	NIL	No	NIL
5 TATA ACE	NIL	No	0	0	0	0	0	0	0	Encroachment in Parks, Footpaths etc	0	No	0
0	not yet C SD Waste collection and Handling by Public Health	No	No	No	only site selection	no	0	no	0	Unauthorized filling of low line areas	0	No	0
0	No	No	0	0	0	0	0	0	0	Unauthorized filling of low line areas	0	Yes	0
Na	Not yet	No	No	No	No	No	No	No	No	Unauthorized filling of low line areas	0	Yes	0
One tractor trolley is available for collection C&D waste	MC will follow compliances on order & rules	No	NA	NA	NA	NA	NA	NA	NA	Other	0	Yes	No case registered
--	YES	Yes	--	--	--	--	--	--	--	As Per Municipal Act 1973	No Slum Area in Municipal Committee Meham Jurisdiction	No	--
0	No Proposal	No	0	0	0	0	0	0	0	Unauthorized filling of low line areas	No	Yes	0
0	0	Yes	Processing	90	AT CLUSTER LEVEL	Recycling	150	AT CLUSTER LEVEL	PROCESSING IS DONE AT CLUSTER LEVEL	Unauthorized filling of low line areas	1	Yes	0
No	No	No	No	No	No	NO	No	No	No	Unauthorized filling of low line areas	1	No	0

0	no	No	Machinery	142.53	Machinery installed	Machinery	171.53	Machinery installed	no	Unauthorized filling of low line areas	2	No	No Cases
0	No	No	Machinery	130.22	Machinery	Through Machinery	173.13	Machinery Installed	No	Unauthorized filling of low line areas	4	No	No Case
0	NA	No	0	0	NA	0	0	0	0	Encroachment in Parks, Footpaths etc	0	No	NA
Yes	Nil	No	Recycling	73	low line area	low line area	0	low line area	yes	Encroachment in Parks, Footpaths etc	0	Yes	0
01 JCB Machine	Yes	No	MRF and Trommal	344.7	Segregation	Windrow	230	Windrow & composting	NA	Mixing with solid waste	nil	No	NA
0	No	No	Through Trommel Screening	31 TPD	COLLECTION,TRANSPORTATION AND SEGREGATION BY TROMMEL SCREENING	Windrow Composting	44 TPD	COLLECTION,TRANSPORTATION AND SEGREGATION BY TROMMEL SCREENING	na	Random field inspection by the field officers/officials	0	No	na
00	NA	No	IEC ACTIVITES	08	08	16	16	Compost Pits and Traumat Installed	Compost Pits and Traumat Installed	Unauthorized filling of low line areas	00	Yes	NA
NA	No	No	No	No	No	No	No	No	Na	Mixing with solid waste	3	Yes	0
00	0	No	0	0	0	0	0	0	0	Encroachment on river bank or wet bodies	0	Yes	0
Nil	Nil	No	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Encroachment in Parks, Footpaths etc	Nil	Yes	Nil
0	Nil	No	0	0	0	0	0	0	0	Unauthorized filling of low line areas	Nil	No	No
0	No	No	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a	0	No	0

NA	NA	No	Manually	0.05	Manually	00	00	00	NA	Unauthorized filling of low line areas	NA	No	NA
no	yes	Yes	Yes	Yes	Yes	na	na	na	NA	fill low line area	NA	No	na
Hath Redhery	No	No	No	Nil	No	Nil	Nil	No	Nil	Daily Monitoring by MC Officials/Employees	Nil	No	Nil
Tipper = 03, JCB = 03	Tender for collection, Transportation and storage has been allotted. C&D waste will be stored, quantified in 2-3 months and accordingly.	No	Not Available	Not Available	Not Available	Not Available	Not Available	In Process	No	Mixing with solid waste, Unauthorized filling of low line areas and Encroachment in Parks, Footpaths etc	Not Available	Yes	21
NO	0	No	0	0	0	0	0	0	NA	Encroachment in Parks, Footpaths etc	0	Yes	0
0	NO	No	NIL	NIL	NIL	NIL	0	0	0	Unauthorized filling of low line areas	NO	Yes	NO
Nil	No	No	Nil	0	Nil	Nil	0	None	Nil	Encroachment on river bank or wet bodies	0	No	Nil
0	no	No	by crushing into fine aggregate	109.5	Nil	0	0	Nil	Nil	Regular Monitoring	0	Yes	Nil
0	Yes	Yes	Yes	100 TPH	Feed Hopper-Grizzly Feeder-Primary Jaw Crusher-Secondary Jaw Crusher-VSI-Vibrating Screen-Conveyors	Yes	70 TPH	Feed Hopper-Pre Screen-Dual Pass Hydro Cyclone-Water Treatment- Conveyors	NA	Encroachment on river bank or wet bodies	10	Yes	NA
0	N.A.	No	Nil	Nil	N.A.	Nil	Nil	N.A.	use in low laying area	Unauthorized filling of low line areas	0	No	0
1 JCB	Tender work in process.	No	0	Use only low line area	Nil	Use in lowline area.	Nil	Use in lowline area.	Nil	Unauthorized filling of low line areas	Nil	No	Enforcement team has been constituted for compliance.
---	Yes, Time to time Direction has been issued by Munadi	No	Nil	Nil	Nil	Nil	Nil	Nil	Low lying area	Nil	2	No	NA

Yes, JCB Machine used for loading the C&D waste	Nil	No	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Regular check by concerned officer his concerned area above all component	Nil	No	No
0	No	No	0	0	0	0	0	0	NA	Mixing with solid waste	No slums in MC	Yes	0
No	Nil	No	No	No	NO	No	No	No	No	Unauthorized filling of low line areas	No	No	No
0	3	Yes	yes	yes	yes	yes	yes	yes	0	Mixing with solid waste	1	Yes	NA
1 JCB	Nil	No	0	0	Use in low line area.	Nil	0	Use in low line area.	Nil	Unauthorized filling of low line areas	Nil	No	Enforcement team has been constituted for compliance.
0	YES	No	---	---	---	---	---	---	---	Mixing with solid waste	0	No	N/A
0	NO	No	Manual	1	Manual	0	0	NA	NA	Unauthorized filling of low line areas	0	No	NA



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PART-I

Notifications, Orders and Declarations by Haryana Government

HARYANA GOVERNMENT

URBAN LOCAL BODIES DEPARTMENT

Notification

The 23rd November, 2020

No. 1/1/2020-RII.—

Government of Haryana



**Policy Document for C&D Waste Management in compliance with the order of Hon'ble
NGT in O.A. No. 606 of C&D Waste Management Rules-2016.**

(2284)

HARYANA MUNICIPAL CONSTRUCTION & DEMOLITION WASTE MANAGEMENT POLICY, 2019**Introduction**

Construction and Demolition Waste ("C&D Waste") generation in India every year is 23.75 million tons according to Central Pollution Control Board's ("CPCB") Guidelines on Environmental Management of C&D Wastes. (CPCB, 2017)

A rapidly developing state like Haryana with steady increase in urbanisation and development of business hubs, should anticipate a proportionate rise in C&D wastes. The unsafe and unscientific disposal of the C&D wastes may result in the C&D waste getting mixed with the organic waste and other types of municipal solid waste at dumping grounds. There arises a need for waste generated on a regular basis to be disposed in a safe and scientific manner. Therefore, the management of C&D waste is an important environmental issue due to its long-term effects.

The estimates of building material requirements of the housing sector in the country indicates a shortage of aggregates to the extent of approximately 55,000 million cu.m. An additional 750 million cu.m. aggregates shall be required to achieve the targets of the road sector. These estimates reflect the potential for the reuse and recycling of C&D wastes. The reuse of C&D wastes shall ensure minimal extraction of virgin materials and reduction in wastes forwarded to land fills.

The Government of India enacted the Construction and Demolition Waste Management Rules 2016, under the Environmental Protection Act, 1986 after consideration of the aforementioned issues.

Rule 9(1) of the C&D Rules mandates the Secretary of Urban Development Department (UDD) of the State Government to prepare the state's policy with respect to management of C&D waste in accordance with the provisions of the C&D Rules. In furtherance of this obligation, this Haryana State Construction and Demolition Waste Management Policy, 2019 applicable in and for the State of Haryana and is prepared and promulgated for sustainable management of C&D wastes in the state. The Policy shall be the benchmark for all relevant authorities including Pollution Control Board, Urban Local Bodies, functionaries of ULBs and other stakeholders in the preparation of the plans and procedures for management of C&D Waste.

1. Preamble

- (1) This Policy may be called the Haryana State Construction and Demolition Waste Management Policy, 2019 prepared and promulgated for sustainable management of C&D waste in the State of Haryana.
- (2) It extends to the whole of Haryana.

2. Definitions

- (1) As used in this Policy, unless the context otherwise requires, the following words and terms defined have the meanings ascribed to them in this document
 - (a) "Act" shall mean the Environment (Protection) Act, 1986 (29 of 1986);
 - (b) "Bulk Waste Generator" shall mean any waste generator that generate C&D Waste equivalent to or exceeding 20 tons in one day or 300 tons per project in one month;
 - (c) "C&D Rules" shall mean the Construction and Demolition Waste Management Rules, 2016;
 - (d) "Construction" shall mean the process of erecting of building or facility or other structure, or building of infrastructure including alteration of such entities;
 - (e) "Construction and Demolition Waste" or "C&D Waste" shall mean the waste comprising of building materials, debris and rubble resulting from construction, re-modelling, repair and demolition of any civil structure;
 - (f) "Demolition" shall mean the breaking down or tearing down buildings and other structures, either manually or using mechanical force (utilising mechanical equipment) or by implosion using explosives;
 - (g) "HSPCB" shall mean the Haryana State Pollution Control Board;
 - (h) "Hazardous C&D Wastes" shall mean construction and demolition waste contaminated with industrial hazardous or toxic material or nuclear waste if any;
 - (i) "Grievance Redressal Mechanism" shall mean a system established by the ULBS to receive and address the issues raised by the common people regarding C&D waste management;
 - (j) "Processing Facilities" shall mean facilities established to handle the C&D waste in a safe manner;
 - (k) "Recycling Facilities" shall mean facilities established to recycle the C&D waste into useable materials as approved under respective national standards;

- (l) "Service Provider" shall mean entities that provide services like water, sewerage, electricity, telephone, roads, drainage *inter alia* that generate construction and demolition waste during the course of provision of service, that includes excavation, demolition and civil work;
 - (m) "Storage Facilities" shall mean facilities designated for storage of C&D waste separately;
 - (n) "Urban Local Body" or "ULB" shall mean an urban local body or authority viz. municipal corporation, municipality, nagarpalika, nagarnigam, municipal council including notified area committee *inter alia* but not limited to any other local authority or body constituted under any relevant statute, that shall be responsible for supervision and control of the management of construction and demolition wastes in its jurisdiction;
 - (o) "Waste Generator" shall mean any person or association of persons or institution or residential & commercial establishments including Indian Railways, Airport, Port and Harbour and Defence establishments, *inter alia*, who undertakes construction or demolition of any civil structure that generates C&D Wastes.
- (2) Words and expressions used herein but not defined shall have the meaning ascribed to such words or expressions in the Act or the C&D Rules.

3. Objectives

Goal of this policy is to: (i) reduce environmental pollution and space reclamation (ii) conserve available construction materials (iii) reuse & recycle the material, which may be a better economically viable option. The main objectives of this Policy shall be as listed below:

- i. To augment the capabilities of ULBs in effective implementation of the Rules;
- ii. To prescribe measures to prevent open dumping of C&D Wastes;
- iii. To provide manner and means of collection, storage and processing of C&D Wastes;
- iv. To promote participation and involvement of stakeholders in reuse and recycle practices of C&D Waste;
- v. To promote sustainable reuse and recycle of C&D Wastes;

4. Scope

- (1) This policy shall be applicable for and shall extend to all matters related to the management and disposal of all C&D Wastes by all Urban Local Bodies in the State of Haryana.
- (2) This policy document shall form the guiding document for management of C&D Waste by all C&D Waste Generators including Bulk Waste Generators, the private players involved at any stage in the C&D Waste management, the Haryana State Pollution Control Board and all other departments of the state that will be associated with handling or management of C&D Waste in the State.

5. Guiding Principles for Management Of C&D Waste

The State of Haryana shall focus on the 3R principle (i.e. reduce, reuse and recycle) for the management of C&D Waste generated within the State:

- (3) Potential wastage shall be identified in the design stage itself and measure may be taken to ensure minimal waste creation. Source reduction measures such as preservation of old buildings, optimisation of space in new buildings, designing buildings and infrastructure that reduce use of construction material on site, ensure minimal resource utilisation and waste creation.
- (4) Reusable materials may be screened out from debris and put to intended use without further processing. Therefore, it is recommended that prior to any demolition activity, the waste generator deconstructs the building whereby the building is dismantled, and any salvageable re-usable materials are collected and used on-site or on another site.
- (5) Recycling of C&D Waste is essential. Therefore, the leftover waste may be recycled to the extent possible. This shall prove vital in ensuring that minimum amount of waste is sent to landfills.

6. Obligations

The obligations provided hereunder in this Section may be mandatory for all applicable parties to this Policy.

(1) Urban Local Bodies

- (a) ULBs shall ensure collection, transportation, processing and disposal of C&D Waste. The ULBs may perform these functions by itself or through private participation/ contractor.
- (b) ULBs shall monitor Construction or Demolition activities for generation of C&D Waste within its jurisdiction. ULBs shall establish a database of all such Construction or Demolition events

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- with details including the quantity of waste generated by Waste Generators and Bulk Generators separately. The database shall be updated no less than one time every year.
- (c) Every ULB authority shall seek detailed waste management plan as applicable, from Bulk Waste Generators. The ULBs shall examine, evaluate and approve or reject the waste management plan submitted by the Bulk Waste Generator within one month from the date of submission of the waste management plan or undertaking.
 - (d) ULB shall conduct IEC campaigns to aware the stakeholders on the guiding principle of the policy i.e. Reduce, Reuse and Recycle of Construction & Demolition waste.
 - (e) ULBs shall establish and operate a toll-free number for receiving information on collection, transportation, processing and disposal of C&D Waste from Waste Generators.
 - (f) ULBs shall monitor and inspect for events of unauthorized Demolition or Construction with potential of C&D Waste generation, unauthorized dumping of C&D Wastes, inspection of dumping sites and C&D Waste processing plants, inter alia, to prevent and reduce frequency of the aforementioned events.
 - (g) ULBs shall identify suitable land for designated C&D Waste storage (separate from the solid waste management land) in ULBs with population under 5 lakhs and C&D Waste processing units for ULBs with population above 5 lakhs.
 - (h) Additionally, in ULBs with population approximately 5 lakhs and paucity of available land creates hindrances, ULB may operate mobile or semi-mobile C&D Waste processing plants
 - (i) ULBs shall provide designated sites that shall function as intermediate collection points for C&D Wastes. These designation of sites for intermediate collection points shall be based on the quantity of waste and distance from major waste generation sites and selected processing/storage sites in the respective cities.
 - (j) ULBs shall conduct selection procedure of Storage and Processing/Recycling Facilities for C&D Waste in accordance with the procedure provided in Schedule I of this Policy.
 - (k) ULBs shall levy a user charge for the collection and transportation of C&D Waste from all Waste Generators for collection on call from the construction/demolition site, which shall reflect the total collection and transportation cost incurred by the ULB/ ULB assigned agency.
 - (l) If the C&D Waste is transported to the designated site for C&D Waste by the Waste Generator at their own cost, the ULBs shall levy a transportation charge. This transportation charge shall reflect the transportation cost of the C&D Waste from the designated site to the processing and disposal site for C&D Wastes. However, for Bulk waste the charge may also include the processing and disposal cost apart from the transportation cost.
 - (m) ULBs may not levy any charge or fee from Waste Generators (except Bulk waste generators) if the C&D Waste is transported by the Waste Generators to the processing and disposal set by the appropriate ULB. In the case of Bulk waste generators, ULB may levy the processing and disposal fee alone in such cases.
 - (n) ULBs shall implement appropriate measures for management of C&D Waste including processing facility, end use of recycled products, inter alia, in consultation with institutions with expertise in this subject matter.
 - (o) In case the Waste Generator fails to abide by the policy guidelines, the ULBs may levy a penalty. A list of illustrative user fees which the ULB could consider levying is set out in Annexure I. All amounts collected as penalties by and on behalf of the ULB under the bye-laws should be transferred to a separate bank account maintained for funds for solid waste management. These amounts shall be used towards the ULB's operation and maintenance costs for providing C&D Waste management services
 - (p) ULBs shall endeavor to maintain co-ordination between itself and other government authorities and functionaries for the effective implementation of this Policy.
 - (q) ULBs shall create a sustainable system of information, education and communication for processing of C&D Waste in collaboration with institutions with expertise in this subject matter and civil society participation. The ULB shall endeavor to disseminate this information utilizing all modes of communication, including but not limited to its own website.
 - (r) ULB shall ensure that at least 80% of the recycled C&D waste products shall be put into effective use though municipal and government construction or related activities.

- (s) ULBs may incentivize the use of C&D Waste products in construction activities, *inter alia*, non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads.
- (t) ULBs shall set up a Grievance Redressal Mechanism through various platforms such as online portals, phone calls, toll free numbers, SMS and mobile applications based on available technologies and capabilities of the ULBs. The maximum time limit for redressal of grievances raised through the Grievance Redressal Mechanism may be fixed by the ULBs with a view to enhance the performance and reduce waste accumulation.

(2) Waste Generator

- (a) Waste Generators shall be required to ensure that C&D Wastes are not mixed with municipal solid waste. The Waste Generators shall not deposit C&D Wastes on land designated for municipal solid waste.
- (b) Waste Generators shall be required to not deposit or dump C&D waste in a manner, that may cause to obstruct traffic or public movement or sewage or stormwater drains.
- (c) Waste Generators shall be required to deposit the C&D Wastes with the authorised waste collection agency/ ULB or deposit the C&D Wastes at designated collection centres provided by the ULB or handover the C&D Wastes to the authorised processing facilities of C&D Wastes.
- (d) Waste Generators shall clearly identify and segregate any Hazardous C&D Wastes generated from its activities that generate C&D Wastes. These Hazardous C&D Wastes are required to be clearly identified and segregated for collection, storage and disposal as per Hazardous Waste (Management and Handling) Rules, 1989.
- (e) Waste Generators shall be required to pay the relevant user charges as notified for the collection, transportation, processing and disposal of C&D Wastes to the ULB or authority appointed by the ULB.

Waste Generators that generate C&D Wastes of 20 tons or more in one day or 300 tons per project in a month shall be categorised as Bulk Waste Generators. The Bulk Waste Generators may be required to comply with the following specific obligations in addition to the aforementioned general obligations of Waste Generators:

- (a) Prepare a waste management plan detailing manner of reuse, recycle, and/or disposal the C&D Wastes and get applicable approvals from the relevant ULB/local authority prior to the commencement of any construction, demolition or remodelling work. The waste management plan shall include, *inter alia*:
 - i. Proposed transit sites and processing facilities for the project's C&D Wastes and the distance of such transit sites from the project site.
 - ii. Proposed measures for minimal waste production on site
 - iii. Waste segregation methods and technologies proposed be undertaken.
 - iv. Proposed locations of processing facilities for C&D Waste
 - v. Plans for reuse of different recycled materials
- (f) Inform relevant authorities regarding all relevant activities beginning with the planning stage to the implementation stage on project to project basis.
- (g) C&D Wastes generated shall be segregated into four streams viz., (i) concrete, (ii) soil, (iii) steel, wood and plastics, and (iv) bricks and mortar.
- (h) Transport of all C&D Wastes generated to the processing units and/or transit stations and bear the cost and responsibility of such transportation.

(3) Service Provider

- (a) Service Providers are required to prepare a comprehensive waste management plan covering segregation, storage, collection, reuse, recycling, transportation and disposal of C&D Wastes generated within the particular jurisdiction.
- (b) Service Providers shall formulate a timeframe for the removal of the construction and demolition waste after consideration of the duration of the work, the quantity and type of waste generated, appropriate storage and collection, *inter alia*. The advisable timeframe for removal of waste is once every day.

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- (c) Service Provider may utilise the facilities provided by the authorised agencies/ULBs for the collection and transportation of C&D Wastes on payment of the relevant user charges as notified for the use of such facilities.

(4) Haryana State Pollution Control Board (HSPCB)

- (a) HSPCB shall be required to monitor the implementation of this Policy by relevant ULBs and competent authorities.
- (b) HSPCB shall collect annual data on collection, transportation and processing of C&D Wastes and implementation of this Policy. The compiled data shall be submitted to the Central Pollution Control Board and the State Government or any other state level nodal agency appointed by the State Government for generation of comprehensive State level data.
- (c) HSPCB shall grant authorizations to C&D Waste processing facilities after examination of the proposals submitted to it.
- (d) HSPCB shall prepare annual reports with special emphasis on the implementation status of compliance of this Policy and submit such report to the Central Pollution Control Board on or before 31st July of each financial year.

(5) State Government

- (a) The Town and Country planning Department shall be required to incorporate the site for such facilities in the approved land use plan for the area to reduce possibilities of disturbance to the processing facility on a long-term basis.
- (b) State Government shall be required to ensure in government contracts or tenders, the appropriate C&D Waste processing and disposal option and methods to be adopted for the specific project is incorporated in the contracts or tenders.

7. Financial Sustainability

- (1) ULB shall follow the principles of financial budgeting and costing provided in the Policy for Management of Solid Wastes for the state of Haryana. As provided in the C&D Rules, the primary source of revenue for ULBs for C&D Waste management shall be from:
- (a) User fees collected during sanctioning of building plan or separately (to be collected based on the quantity of waste);
- (b) Revenue from sale of by-products of C&D Waste processing and recycling; and
- (c) Fines and penalties (if any).

8. Terms and Conditions

- (a) This Policy may be amended, withdrawn or substituted by the Government at any time, at its discretion.
- (b) Department of Urban Local Bodies shall have the power to clarify any doubts or settle any disputes, should any arise, regarding the interpretation, application or operation of the provisions of this Policy. Any clarification issued by the Principal Secretary, DULB in this regard shall be final and binding.
- (c) No party shall have the right to claim any benefits or incentives under this Policy merely by virtue of such benefits or incentives being provided for in this Policy.
- (d) Implementation of the provisions under this Policy shall be subject to the issuance of detailed scheme/guidelines setting out further eligibility criteria, the terms and conditions subject to which each benefit or incentive may be claimed, the detailed application procedure etc.
- (e) In case of any conflict or contradiction in the provisions contained in this Policy and the scheme/guidelines issued thereunder, setting out in detail the eligibility criteria, terms and conditions, amongst other relevant modalities for availing benefits or incentives under this Policy, the provisions of the scheme/guidelines shall prevail for all intents and purposes.

Schedule I: Criteria for Site Selection for Storage and Processing or Recycling Facilities for construction and demolition Waste

- i. The facilities shall comply with the Solid Waste Management Rules, 2016 and C&D Waste Rules 2016 with special regard to pollution relating to noise and dust as set out under 'Guidelines on Environmental Management of Construction & Demolition (C&D) Wastes' issued by the CPCB in March 2017 and 'Guidelines on Dust Mitigation Measures In Handling Construction Material and C&D Wastes' issue by CPCB in November 2017
- ii. The processing or recycling facilities shall be sufficiently large to continue for 25 years (project based on-site recycling facilities).
- iii. The processing or recycling sites shall be situated away from habitation clusters, forest areas, water bodies, monuments, national parks, wetlands and places of important cultural, historical or religious interest.
- iv. A buffer zone of no development shall be maintained around C&D Waste processing and disposal facilities of installed capacity exceeding five tons per day. This shall be maintained within the total area of the C&D Waste processing and disposal facilities
- v. Processing or recycling sites shall be fenced or hedged and provided with proper entrance gate to monitor incoming and outgoing vehicles or other modes of transportation.
- vi. The approach and/or internal roads of the facilities shall be concreted or paved to avoid generation of dust particles from vehicular movement and shall be designed to ensure free movement of vehicles and other machinery.
- vii. Weigh bridge to measure quantity of waste, fire protection equipment and other facilities as may be required shall be provided in the facilities.
- viii. For prevention of pollution from processing or recycling operations, the following provisions shall be made, viz.:
 - storm water drains to prevent stagnation of surface water;
 - paved or concreted surface in selected areas in the processing or recycling facility for minimizing dust and damage to the site.
 - prevention of noise pollution from processing and recycling plant;
 - provision for treatment of effluents, if any, to adhere to discharge norms under the Environment (Protection) Rules, 1986.
- ix. Work zone air quality at the processing or recycling sites and ambient air quality at the vicinity of the sites shall be monitored.
- x. A vegetative boundary shall be established around processing or recycling sites to strengthen the buffer zone.
- xi. The operators of the facilities shall apply for authorization from Haryana State Pollution Control Board and submit annual reports to the Haryana State Pollution Control Board.

Schedule II: Market Development and Promotion of C&D Recycled Products

Establishment of appropriate market for recycled products of C&D Wastes may prove essential to ensure economic viability and sustained functioning of the processing plants. As per CPCB guidelines on Environmental Management of C&D Wastes in India 2017:

- i. The building construction products manufactured from C&D wastes have been reported to satisfactorily meet necessary requirements of compressive strength and water absorption.
- ii. The end products such as kerb stones, paving blocks of different shape, size and colour, hollow and solid blocks, manufactured sand etc. have been tested in the laboratory and found to be satisfactory. They are also being used and found to be suitable for load bearing structures.
- iii. Use of fine aggregates and coarse aggregates manufactured by recycling of C&D waste has also been validated scientifically for part replacement of natural aggregates

The use of recycled materials may be as per the following regulations and guidelines:

- i. C&D Rules 2016: As per the C&D Rules, 2016, the ULBs shall make provision for providing incentives and introduce mechanisms to encourage the use of materials made from C&D Wastes in construction activities. These may be provided as:
 - a. Bond-deposit: This means that a compliance deposit, or bond, is to be paid as performance security when applying for building permits and/or submitting the waste management plan. Typically, this amount is approximately 1.5 - 5% of the project value, plus non-refundable administration fees of approximately 0.5% of the project value. This is refunded as and when minimum recycling requirements or disposal requirements are met.
 - b. Provide discount in the costs associated with building permits or reduction in the rental amounts for lease of skips, loaders and other containers.
 - c. In addition, the ULBs could consider offer a rebate of compliance deposit (such as 1% to 2%) where the waste management plans which provide for waste minimization, reuse and onsite recycling plans
- ii. The procurement of materials made from C&D Wastes shall be made mandatory to 10% of total material used in municipal and government procurement subject to strict quality control.
- iii. MoHUA: The Ministry of Housing and Urban Affairs (MoHUA) vide a letter dated March 23, 2016 circulated a notification by Central Public Works Department (CPWD) on mandatory use of recycled portions of C&D Wastes in construction activities, if the same is available within 100 km of the construction site. In addition, CPWD, and NBCC promote (a) maximum of 20% replacement of aggregates in Reinforced Cement Concrete (RCC) with Recycled Concrete Aggregate (RCA) and (b) 100% replacement of aggregates with RCA in light or non-load bearing lean concrete.

As per CPWD Corrigendum No. S37/CS –Order/2015-16/71(H) dated 22/3/2016

C & D Waste BIS IS: 383	Plain Concrete	Reinforced Concrete	Lean Concrete (< M15 grade)	Extent of Utilization
Recycled Concrete Aggregate (RCA)	25%	20% (only up to M25 grade)	100%	As Coarse Aggregate
Recycled Aggregate (RA)	Nil	Nil	100%	As Coarse Aggregate
Recycled Concrete Aggregate (RCA)	25%	20% (only up to M25 grade)	100%	As Fine Aggregate

- iv. Central Road Research Institute (CRRRI): certification of recycled aggregates for use as Granular Sub Base (GSB) in road construction
- v. Building Materials and Technology Promotion Council (BMTPC): BMTPC 2016 Guidelines for Utilization of Construction & Demolition Waste in Construction of Dwelling Units and Related Infrastructure in Housing Schemes of the Government
- vi. Indian Roads Congress (IRC): The Indian Roads Congress (IRC) issued 'IRC-121:2017 Guidelines for Use of C&D waste in Road Sector' outlining the kind of materials from recycled C&D Waste, proportion that may be safely used for specific road construction/repair applications.
- vii. Bureau of Indian Standards (BIS): The Bureau of Indian Standards (BIS) has included the specification for coarse and fine aggregates to include manufactured aggregates produced from other than natural sources

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viii. The recycled waste materials may be utilized for the following purposes:

Gardening and Landscaping	Earth Work	Civil Engineering	Structural Engineering
<ul style="list-style-type: none"> • Drainage material • Layer in sports field • Improvements of soil characteristics • Improvement of bearing capacity e.g. below garden walls 	<ul style="list-style-type: none"> • Filling of line ditches and working spaces • Noise protection dams • Anti-freeze sublayers below building • Improvement of bearing capacity of soil/earth • Construction of temporary streets 	<ul style="list-style-type: none"> • Gravel base layer and anti-freeze base layer • Combined gravel and anti-freeze base layer • Road pavement and flagging • Bituminous bounded base layer • Hydraulically bounded base layer • Concrete base layer 	<ul style="list-style-type: none"> As input in concrete • Mix in-situ concrete • Structural elements out of concrete • Concrete goods As input in other materials • Mortar • Stones- burned brick, sand-lime bricks or lightweight concrete

Material	Process	End-Use
Concrete	Crushed and mixed Crushed and screened	New cement blocks Asphalt concrete
Dirt	Sorted	Landscaping/Landfill cover
Reinforced concrete	Crush sorted, and steel bar removed. Steel recycled.	Crushed, sorted aggregate. For recycling
Clay bricks and roof tiles	Cleaned, Crushed & sorted. Pulverised	Reused for masonry Aggregate Mixed with lime to produce mortar
Calcium silicate bricks	Cleaned Crushed Pulverised	Reused for masonry Aggregate Recycled into new Calcium Silicate bricks
Natural stone masonry	Cleaned Crushed	Reused for masonry Aggregate
Natural stone slabs	Cleaned, Crushed	Flooring, cladding, aggregate
Ceramic Tiles	Cleaned, Crushed	Flooring, cladding, aggregate
Asphalt Paving	Crushed and cold mixed Crushed and hot mixed	Road construction excluding wearing course
Mixed demolition waste	Crushed	Fill material
Steel	Cleaned Recycled	Reused steel components New steel components
Aluminium	Cleaned Recycled	Aluminium recycled streams
Timber beams, doors	Cleaned	Reused as shuttering and other products Feedback for engineered wood
Plastics	Recycled	Plastic recycling stream
Gypsum plasterboard	Cleaned Crushed Recycled	Reuse as boards Soil conditioners New gypsum products
Glass	Cleaned Crushed Recycled	Glass recycling streams

Annexure I : Penalties for Non-Compliance (Illustrative)

Sl No	Offence	Bulk Waste Generator/Service Provider (in INR)	Waste Generator (in INR)	Waste Transporter (in INR)
1	Dumping of construction and demolition waste in storm water drains, open spaces and other	The penalty will be a 15% increase in user charge per day starting from the third day of waste dumped. This can be maximum increased	The penalty will be a 10% increase in user charge per day starting from the third day of waste dumped. This can be maximum increased	Fixed charge (by ULB) per ton of C&D waste dumped

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	non-designated areas	up to twice the user charge fixed by the ULB	up to twice the user charge fixed by the ULB	
2	Mixing of C&D Waste with any other waste stream	The penalty will be a 15% increase in user charge per day starting from the third day of waste dumped. This can be maximum increased up to twice the user charge fixed by the ULB	The penalty will be a 10% increase in user charge per day starting from the third day of waste dumped. This can be maximum increased up to twice the user charge fixed by the ULB	Fixed charge (by ULB) per ton of C&D waste dumped
3	Failure to start construction, demolition or renovation works without submission and approval of the waste management plan OR Deviation from approved waste management plan	Fixed rate per sqft area of construction	Fixed rate per sqft area of construction	N.A.

(Sd.)...,
Additional Chief Secretary to Government Haryana,
Urban Local Bodies Department.

8981—C.S.—H.G.P., Pkl.