

o/c

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SHREE CEMENT LTD.

An ISO 9001, 14001, 45001 & 50001 Certified Company

Regd. Office:

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA

SCL/BWR/ENV-9 /2021-22/ 7119

Date: 27/09/2021

To,

File No. C-105

The Member Secretary,
Rajasthan Pollution Control Board,
4, Institutional Area, Jhalana Doongri Road,
JAIPUR-302004 (Rajasthan).

Sub: - Submission of Environmental Statement Report of Cement Unit-II of M/s Shree Cement Ltd, Village – Andheri Deori, Tehsil Masuda, District Ajmer (Raj) for the FY-2020-2021 (April-2020 to March-2021) under environment protection Act, 1986.

Ref: - CTO No. F (CPM)/ Ajmer (Masuda)/1(1)/2010-2011/6975-6977,
Dated 03/11/2017.

Dear Sir,

Kindly refer to above subject matter and referred letter. In this regard, we are submitting herewith the Environmental Statement Report of Cement Unit II of M/s Shree Cement Ltd, Village – Andheri Deori, Tehsil Masuda, District Ajmer (Raj) for the period of April 2020- March 2021.

This is for your kind information please.

Thanking you,
Yours faithfully,

For Shree Cement Ltd;

(Dr. Anil Kumar Trivedi)
Sr. G.M. Environment

Copy to:-

1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur , A-209&218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan.
2. The in charge (Regional office), Rajasthan State Pollution Control Board, SPL-II, 5th phase, RIICO Industrial Area, Kishangarh, Ajmer (Raj).

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015
Phone : 0141 4241200, 4241204

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110002
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ENVIRONMENTAL STATEMENT

M/s Shree Cement Limited Unit II

Period from : April, 2020 to : March, 2021

FORM – V

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	M/S Shree Cement Ltd. Bangur Nagar, P.O. Box No. 33, Beawar- 305901 Distt. Ajmer (Rajasthan)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	5500 TPD Clinker 7200 TPD Cement
4.	Year of Establishment	1997
5.	Date of the last Environmental Statement submitted	22/09/2020

PART – B

WATER AND RAW MATERIAL CONSUMPTION

1. WATER CONSUMPTION:

Process	:	N.A. (As plant is based on dry Process technology)
Cooling and dust Suppression	:	15803 KL
Domestic	:	224047 KL (Common for Cement Plants, Power Plants, Mines & Synthetic Gypsum plant)

Name of Product	Process Water Consumption per Unit of Clinker Output	
	During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
Clinker	0.094 KL/MT of Clinker	0.016 KL/MT of Clinker
Cement	0.098 KL/MT of Cement	0.012 KL/MT of Cement

2. RAW MATERIAL CONSUMPTION: (CEMENT)

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Cement)	
		During Current Financial Year (2019-2020)	During Current Financial Year (2020-2021)
1. Limestone	Cement	1.66	1.06
2. Laterite /Iron Ore/Mill scale		0.0	0.0
3. Slag		0.0	0.0
4. Sweetner/ High Grade Limestone/Flyash in raw mill/ sand		0.0	0.0
5. Gypsum		0.09	0.10
6. Fly Ash		0.26	0.10
7. Coal & Pet Coke		0.10	0.09
8. Bed Ash/pond ash (in Cement)		0.0	0.24
9. Marble Slurry		0.08	0.07
10. AFR(Hazardous Waste)		0.02	0.01

3. POWER CONSUMPTION (KWH/T OF CEMENT):

During Previous Financial Year (2019-20)	During Current Financial Year (2020-2021)
71.64	65.69

4. TOTAL CEMENT PRODUCTION (MT):

Product	During Previous Financial Year (2019-20)	During Current Financial Year (2020-2021)
Clinker	675593	937671
Cement	646338	1293161

PART – C
DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Value)	Percentage of variation from prescribed standard with reasons																																						
(a)	Water	Cement Plant is being operated on dry process technology, hence no liquid effluent is generated from plant. Domestic waste water generated from residential colony, canteen and office toilets is being treated in STP and treated water & sludge generated is used in plantation & horticulture activities. Total quantity of treated domestic waste water during FY 2020-21 was 65885 KL. Residential colony is common for Shree Cement Limited Unit 1 & 2, Mines (SK Mines & Shyamgarh Limestone Mines), Synthetic Gypsum and Power Plants. Analysis report of STP treated water is attached as annexure.																																							
(b)	Air	<table><tr><th rowspan="2">S. N</th><th rowspan="2">Stack Attached to</th><th colspan="3">Particulate Matter Emission (Annual Data PM in mg/Nm³)</th><th rowspan="2">Prescribed limit by RSPCB (mg/Nm³)</th><th rowspan="2">Tones/Day (Avg)</th></tr><tr><th>Min</th><th>Max.</th><th>Avg</th></tr><tr><td>1</td><td>Raw Mill & Kiln Stack</td><td>9.1</td><td>20.2</td><td>12.28</td><td>30</td><td>0.091</td></tr><tr><td>2</td><td>Coal Mill Stack</td><td>6</td><td>11.7</td><td>7.8</td><td>30</td><td>0.005</td></tr><tr><td>3</td><td>Cooler Stack</td><td>10.2</td><td>28.1</td><td>17.3</td><td>30</td><td>0.089</td></tr><tr><td>4</td><td>Cement Mill Stack</td><td>7.1</td><td>19.1</td><td>11.5</td><td>30</td><td>0.007</td></tr></table> <p>Please refer Annexure –1</p>		S. N	Stack Attached to	Particulate Matter Emission (Annual Data PM in mg/Nm ³)			Prescribed limit by RSPCB (mg/Nm ³)	Tones/Day (Avg)	Min	Max.	Avg	1	Raw Mill & Kiln Stack	9.1	20.2	12.28	30	0.091	2	Coal Mill Stack	6	11.7	7.8	30	0.005	3	Cooler Stack	10.2	28.1	17.3	30	0.089	4	Cement Mill Stack	7.1	19.1	11.5	30	0.007
S. N	Stack Attached to	Particulate Matter Emission (Annual Data PM in mg/Nm ³)				Prescribed limit by RSPCB (mg/Nm ³)	Tones/Day (Avg)																																		
		Min	Max.	Avg																																					
1	Raw Mill & Kiln Stack	9.1	20.2	12.28	30	0.091																																			
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4	Cement Mill Stack	7.1	19.1	11.5	30	0.007																																			
(c)	Noise & Ambient Air	Please refer Annexure-2																																							
(d)	STP treated water	Please refer Annexure-3																																							

PART – D

(As specified under Hazardous & Other Wastes (Management & Trans boundary Movement Rule, 2016) & Amendment rule, 2019.

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2019-2020)	During Current Financial Year (2020-2021)
a) From Process (Cement manufacturing is based on "Dry Process" No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments)	<p>We have Common authorization for Hazardous Waste Management & Handling for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines.</p> <p>Total Quantity generated from April-2019 to March-2020 = 1200 Ltrs.</p> <p>Old Stock = 0 Ltrs.</p> <p>Total Used oil = 1200 Ltrs.</p> <p>Sold-out to registered recycler = 0 Ltrs.</p> <p>Quantity Co- processed = 1200 Ltrs.</p> <p>Balance Quantity= 0 Ltrs</p>	<p>We have Common authorization for Hazardous Waste Management & Handling for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines.</p> <p>Total Quantity generated from April-2020 to March-2021 = 12600 Ltrs.</p> <p>Old Stock = 0 Ltrs.</p> <p>Total Used oil = 12600 Ltrs.</p> <p>Sold-out to registered recycler = 12600 Ltrs.</p> <p>Quantity Co- processed = 0 Ltrs.</p> <p>Balance Quantity= 0 Ltrs</p>
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E

SOLID WASTE

		Total Quantity	
		During Previous Financial Year (2019-2020)	During Current Financial Year (2020-2021)
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Dust collected in the ESPs, Bag Houses and Bag Filters are recycled to the system.	
(c)	1. Quantity rejected or re- utilized within	100% reutilized within the unit.	100% reutilized within the unit.
	2. Sold	Nil	Nil
	3. Disposed	Nil	Nil

PART – F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes:

Enclosed as Annexure-4

Battery Wastes:

As specified under Batteries (Management and Handling) Amendment Rules, 2010, we have purchased following new batteries of different categories is common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines-

2.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer/dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent	During 1 st Apr. 2020 to 31 st Mar. 2021	
	Common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines		
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	85	3.570
	b) Two wheeler	15	0.030
	(ii) Industrial	Nil	Nil
	a) UPS	133	2.660
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	233 Nos.	6.26 MT

Used battery scrap was sent to CPCB authorized recycler

Hazardous Wastes

Cement manufacturing is based on “Dry Process” technology. No Hazardous waste is generated from the process except used oil which is drained from Machineries / Equipment. The used oil 12600 Liter & Lead acid batteries 233 nos. 6.26 MT are sold to CPCB authorized recyclers.

Bio-Medical Wastes:

Bio-medical waste generated is common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines during previous and current financial year under the Bio-Medical Waste (Management & Handling) Rules 2016 & amended on 2019, are as follows:

Bio-Medical Waste Quantity (Kg) as per Color Coding							
During Previous Financial Year (April 2019 to March 2020)				During Current Financial Year (April 2020 to March 2021)			
Yellow	Red	Blue	White	Yellow	Red	Blue	White
282	219	247	0.0	234	205	211	0.0

Above mentioned waste has been sent to Sales Promoter, CBWTF Bio Medical Treatment Facility, Jaipur Bye Pass Road, Ajmer (Raj.) for disposal.

E- Wastes:

	Total Quantity	
	During Previous Financial Year (2019-2020)	During Current Financial Year (2020-2021)
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil
Others	0.0	11.86

Solid Wastes: - N.A.

PART – G

IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION

M/s Shree Cement Ltd. is being operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy.

The stack emissions from the plant are controlled by pollution control equipment's like ESPs & Bag Houses. Bag - Filters installed at various material transfer points to clean the process and arrest the fugitive emissions.

Waste Heat Recovery Boiler also plays an important role to control the dust emission from Cooler stack.

The particulate matter (PM) collected in the pollution control equipment is recycled back in process and neutralizing the cost of operation of pollution control equipment and hence no cost impact on the production cost.

To emphasis on conservation of the natural resources & to reduce the disposal problems of the waste, total 40254.67 MT hazardous waste was co-processed and 41941.5 MT hazardous waste was utilized for synthetic gypsum production during April 20- March 21.

Unit has implemented the De- NOx technology for control of NOx emissions. The unique technology does not utilize ammonia and thus directly avoid the use of hazardous chemical and its handling. This also reduces our impact on GHG emissions which would otherwise had caused due to transportation.

PART – H

ADDITIONAL MEASURES / INVESTMENTS PROPOSAL FOR ENVIRONMENT PROTECTION INCLUDING ABATEMENT OF POLLUTION

Green belt development and tree plantation is our ongoing process within our plant area and also outside the plant boundary. Every year we are doing new tree plantation to increase the density and bio-diversity of the area. In the FY 20-21, 131 new trees have been planted. Up- to March 2021 total green area is around 82.83 hectare with around 228411 nos. of trees which is ~35 % of the total land of plant and colony area (231.94 Ha.). Environment expenditure incurred in the year of 2020-21 (April -2020 to March-2021) was 325.45 (cost in lac). The expenditure in same heads is proposed for next year.

PART – I

ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.

1. We have full-fledged Environment Department with three separate cells, for monitoring, maintenance of pollution control equipment and Green Belt development.
2. Monitoring of stack emission and ambient air and water quality is being done regularly basis. The on-line continuous data is being transferred to CPCB and RPCB sites.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil dept. taking care of Housekeeping and water supply department is taking care of operation of STP.
5. To further reduce fugitive emissions, we have a big size truck mounted and 04 nos of small 3D TPS sweeping machines for regular sweeping and cleaning of paved area.
6. All the material transfer belts are covered and transfer points are equipped with pollution control equipment.

7. Truck parking area and vehicle movement areas are paved and concreted to avoid any fugitive emissions.
8. Horticulture Department in coordination with environment department is taking care of tree plantation and green belt development. Every year during monsoon season, we are doing new tree plantation.
9. Covered shed and Silos have been constructed for raw material storage.
10. Conversion of ESP to Bag House has being done in Raw Mill and Kiln stack.
11. Installation of De- NOx system has helped to further reduce the NOx emissions.
12. Domestic waste water generated from Colony, guesthouse, office toilets and canteen is being treated at Sewage Treatment Plant (STP) and treated water is being utilized in plantation & gardening.
13. We are committed and maintaining Zero Liquid Discharge (ZLD) from our premises.
14. We create environment awareness for all our stakeholders through meetings, training programs, world environment day celebrations etc.

We are enclosing herewith following documents:-

Annexure-1: Stack Emission monitoring report.

Annexure-2: Ambient Air Quality (PM10, PM2.5, SO₂ and NO₂), Ambient Noise Level monitoring report.

Annexure-3: Treated Domestic Wastewater analysis report.

Shree Cement Ltd, Beawar**Unit-II****Stack Emission monitoring Report (PM All values in mg/Nm³)****Year: 2020-21**

S. No.	Month	Raw Mill & Kiln Stack	Coal Mill Stack	Cooler Stack	Cement Mill Stack
1	Apr-20	SD	SD	SD	12.2
2	May-20	11.3	9.2	10.2	14.2
3	Jun-20	9.1	11.7	12.2	18.6
4	Jul-20	10.4	6.9	13.8	14.8
5	Aug-20	12.3	7.5	15.3	14.3
6	Sep-20	12.1	9.5	15.3	19.2
7	Oct-20	11.9	11.7	18.9	13.4
8	Nov-20	11.6	6	19	6.2
9	Dec-20	20.1	7.1	28.1	8.1
10	Jan-21	20.2	7.02	23	17.5
11	Feb-21	15.01	8	18	15
12	Mar-21	13.4	9	17	17
Average		12.28	7.80	15.9	14.2

Annexure: 2

Shree Cement Ltd, Beawar																								
Ambient Air Quality (µg/m³)& Noise Level Monitoring Report For The Period Of April 2020 To Mar 2021																								
Common for Cement plant & Power plant																								
Year:-2020-2021																								
Location →	Plant boundary towards village Sarakana						Residential Colony						Plant boundary towards Power Plant						Main Gate					
	AAQ in µg/m³						Noise Level in dB(A)		AAQ in µg/m³				Noise Level in dB(A)		AAQ in µg/m³				Noise Level in dB(A)					
	PM 10	PM-2.5	SO ₂	NO ₂	Day time	Night time	PM 10	PM-2.5	SO ₂	NO ₂	Day time	Night time	PM 10	PM 2.5	SO ₂	NO ₂	Day time	Night time	PM 2.5	PM 10	SO ₂	NO ₂	Day time	Night time
Apr	51	22	6	8	52	45.3	44	21	8	7	42	32	46	28	9	7	48	38	49	25	7	9	52	42
May	49	25	7	9	59	43.5	46	34	7	8	44	35	52	31	9	11	60	52	53	27	8	13	59	48
Jun	51	27	8	10	58	42.1	43	26	6	11	46	39	55	29	7	10	61	49	55	22	7	10	62	55
Jul	49	24	7	9	57	45	41	22	7	10	52	42	52	26	7	9	63	53	51	24	8	12	63	53
Aug	50	26	6	8	54	43	39	20	6	8	53	43	43	21	6	8	58	49	44	23	7	7	64	57
Sep	53	23	6.2	7.1	55	42.8	40	18.6	5	6	54	41	48	28	12	10	59	42	42	19.5	8	8	68	55
Oct	51	25	7	9	60	50	38	31	6	9	60	39	41	29	8	10	65	42	43	27	7	10	58	48
Nov	47	25	7	9	68	41	42	29	7	10	59	35	41	24	6	7	66	38	45	27	6	10	63	47
Dec	51	26	6	9	61	40	43	32	6	10	58	42	46	24	8	11	63	40	41	33	7	13	65	50
Jan	54	29	6	10	72	42	41	22	6	8	60	40	47	31	9	13	62	39	46	32	8	14	63	44
Feb	56	32	5	8	68	55	51	28	7	10	71	58	50	32	12	10	70	44	54	33	9	12	60	50
Mar	58	30	7	9	66	49	53	29	8	12	65	43	52	34	10	12	65	55	50	30	12	11	69	51
Average	51.7	26.2	6.5	8.8	60.8	44.9	43.4	26.1	6.6	9.1	55.3	40.8	47.8	28.1	8.6	9.8	61.7	45.1	47.8	26.9	7.8	10.8	62.2	50.0

Annexure: 3

S.N	Parameter	Apr-20	May-20	June-20	July-20	Aug-20	Sept-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Avg
1	pH	7.16	7.13	7.22	7.56	7.26	7.14	7.82	7.56	7.92	7.12	7.12	7.85	7.4
2	Suspended Solids	31	29	32	22	27	29	25	22	21	23	24	21	25.5
3	COD	65.3	62.2	61.3	61.2	67.2	65.3	58.7	69.7	71.2	68.7	68.2	69.2	65.7
4	BOD 3 days 27°C	17	16.0	15.0	19.0	19.0	16.0	22	17	19.0	17.0	19.0	14	17.5
5	Oil & Grease	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0

Waste Characterization

SN	Name of waste	Nature of waste	Source of industry	Category	Source
1	Furnace or reactor residue and debris	Solid	Petrochemical Processes and Pyrolytical operations	1.1	Petrochemical Processes and Pyrolytic operations
2	Tarry residue and still bottoms from distillation	Solid		1.2	Petrochemical Processes and Pyrolytic operations
3	Oily sludge emulsion	Semi Solid		1.3	Petrochemical Processes and Pyrolytic operations
4	Organic residues	Liquid/ Solid		1.4	Petrochemical Processes and Pyrolytic operations
5	Residues from alkali wash of fuels	Solid		1.5	Petrochemical Processes and Pyrolytic operations
6	Spent catalyst and molecular sieves	Solid		1.6	Petrochemical Processes and Pyrolytic operations
7	Oil from waste water treatment	Liquid		1.7	Petrochemical Processes and Pyrolytic operations
8	Cargo Residue, washing water and sludge containing oil	Liquid/ Solid	Cleaning, emptying and maintenance of Petroleum Oil storage tanks including ships	3.1	Cleaning Emptying and maintenance of Petroleum Oil storage tanks including ships
9	Cargo Residue and sludge containing chemicals	Liquid/ Solid		3.2	Cleaning Emptying and maintenance of Petroleum Oil storage tanks including ships
10	Sludge and filters contaminated with oil	Solid		3.3	Cleaning Emptying and maintenance of Petroleum Oil storage tanks including ships
11	Ballast water containing oil from ships	Semi Solid		3.4	Cleaning Emptying and maintenance of Petroleum Oil storage tanks including ships
12	Slope Oil	Liquid	Petroleum refining or re-processing of used oil or recycling of waste oil	4.3	oil Refining
13	Waste cutting oil	Liquid	Bearing manufacturing industries/other industry	5.3	Any industry
14	Plating metal sludge	Solid	Metal surface treatment, such as etching, staining, polishing, galvanizing, cleaning, degreasing, plating etc.	12.8	Metal surface treatment, such as etching, staining, polishing, galvanizing, cleaning, degreasing, plating etc.
15	Sludge from Acid rec	Liquid	Production of Iron and steel including other ferrous alloys (electric furnace, steel rolling and finishing mills, Coke oven and byproduct plants)	13.2	Iron & Steel Industry
16	Spent catalyst	Solid	Oil refinery/other industry	18.1	Production of Nitrogen and complex fertilizers
17	Carbon Residue	Solid	Beverage industry/other industry	18.2	Production of Nitrogen and complex fertilizers
18	Contaminated Aromatic, Aliphatic or Napthenic Solvents may or may not fit for reuse	Liquid	Production and/or industrial use of solvents	20.1	Production and/Or industrial use of Solvents
19	Spent Solvents	Liquid		20.2	Production and/Or industrial use of Solvents
20	Distillation Residue	Liquid		20.3	Production and/Or industrial use of Solvents
21	Process Sludge	Solid		20.4	Production and/Or industrial use of Solvents

22	Spent Solvents	Liquid	Production and/or industrial use of paints, pigments, lacquers, varnishes and inks	21.2	Production and/Or industrial use of Paints, pigments, lacquers, varnishes and inks
23	Spent Catalyst	Solid	Production of plastics	22.1	Production of plastics
24	Process Residue	Solid		22.2	Production of plastics
25	Spent Solvents	Liquid	Production and/or industrial use of glues, organic cements, adhesive and resins	23.2	Production and/Or industrial use of glues, Organic cement, adhesives and resins
26	Spent catalyst	Solid	Oil refinery/other industry	26.5	Dyes & Dye Intermediate Industry
27	Process Waste or residue	Solid	-	29.1	Production and formulation of pesticides
28	Sludge Containing Residue	Solid	-	29.2	Production and formulation of pesticides
29	Spent Solvents	Liquid	Production and/or industrial use of paints, pigments, lacquers, varnishes and inks	29.4	Production and formulation of pesticides
30	Spent catalyst	Solid	-	29.5	Production and formulation of pesticides
31	Exhaust air or gas cleaning residue	Solid	Purification and treatment of exhaust air/ gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants	35.1	Purification and Treatment of Exhaust air/ gases, water and waste water from processes
32	Oil and Grease Skimming	Semi Solid		35.4	Purification and Treatment of Exhaust air/ gases, water and waste water from processes
33	Waste exhibits any of the Hazardous characteristics listed in Class-C due to the presence of any hazardous constituents in the substances or wastes	Solid	Tyre industry, Rubber Industry, processes where carbon powder is added/ generated	Schedule II- Class-E1	Any industry
34	Waste Clothes/ Cotton waste/ Fibre etc.	Solid	-	Schedule III- B3030	Textile industry
35	Tyre Fibre	Solid	Tyre industry/other industry	Schedule III- B3040	Tyre Industry
36	Carbide Lime Sludge	Solid	-	Schedule III- OW	Paper Industry/ any other Industry
37	ETP Bio solid from soft drink/ Beverage Industry	Solid	-	Schedule III- OW	Soft drink/ Beverage industry
38	Spent carbon from Soft drink/ beverage industry	Solid	-	Schedule III- OW	Soft drink/ Beverage industry
39	WTP sludge from soft drink/ beverage industry	Solid	-	Schedule III- OW	Soft drink/ Beverage industry
40	FF Slag/ ISF Slag	Solid	-	Schedule III- OW	Iron & Steel Industry
41	FMCG waste	Solid	-	Schedule III- OW	FMCG Industry
42	Red mud	Solid	-	Schedule III- OW	Aluminium Industry
43	Toxic Effluent containing chemical (Toxic effluent/ aqueous waste)	Solid	-	Schedule III- OW	Bulk Pharma/Any Industry
44	Plastic waste	Solid	Wind mills/ other industries	Non hazardous	Rubber/ Tyre/ Any other industry using carbon
45	Trade Rejects	Solid	FMCG, Pharma industry	Non hazardous	FMCG Industry/ Pharma industry

46	Oil emulsion sludge	Semi Solid	Petroleum refining or re-processing of used oil or recycling of waste oil	4.1	Oil Refining
47	Spent Catalyst	Solid	Production and/or industrial use of glues, organic cements, adhesive and resins	4.2	Oil Refining
48	Waste/ Residues Not made with Animal/ Vegetable material	Solid	Production or industrial use of synthetic dyes, dye intermediates and pigments	23.1	Production and/Or industrial use of glues, Organic cement, adhesives and resins
49	Spent Solvents	Liquid	-	26.4	Dyes & Dye Intermediate Industry
50	Process Residues and wastes	Solid	-	28.1	Bulk Pharma Industry
51	Spent catalyst	Solid	Production/formulation of drugs/ Pharmaceutical and healthcare product	28.2	Bulk Pharma Industry
52	Spent carbon	Solid	-	28.3	Bulk Pharma Industry
53	Off specification products	Solid	-	28.4	Bulk Pharma Industry
54	Date Expired Products (Pharma Industries)	Solid	-	28.5	Bulk Pharma Industry
55	Spent Solvent (Pharma Industries)	Liquid	-	28.6	Bulk Pharma Industry
56	Contaminated cotton rags or other cleaning materials	Solid	Handling of hazardous chemicals and wastes	33.2	Any industry
57	Spent Ion Exchange Resin Containing Toxic Metals	Solid	-	35.2	Purification and Treatment of Exhaust air/ gases, water and waste water from processes
58	Any process or distillation residue	Liquid	Purification process for organic compounds/ solvents	36.1	Purification Process of Organic compounds
59	Dust from air filtration system	Solid	Production or industrial use of Synthetic Dyes, Dye intermediates and pigments.	26.2	Dyes & Dye Intermediate Industry
60	Empty barrels/containers contaminated with hazardous chemical/wastes	Solid	Handling of hazardous chemicals and wastes	33.1	Handling of hazardous chemicals and wastes
61	Spent carbon or filter medium	Solid	Petroleum refining or re-processing of used oil or recycling of waste oil/ Purification process for organic compounds/ solvents	36.2	Purification Process of Organic compounds
62	Used Oil	Liquid	Cement Plant, Mines	5.1	Own Cement Process & Mines

