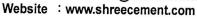
CIN No. : L26943RJ1979PLC001935

: 01462 228101-6

Toll Free: 1800 180 6003 / 6004 : 01462 228117 / 228119

E-Mail : shreebwr@shreecement.com





SHREE CEMENT LT

An ISO 9001, 14001, 45001 & 50001 Certified Company Regd. Office: BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA

SCL/BWR/ENV-9 /2020-21/

Date: 22/09/2020

To,

File No. C-105

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

Sub:- Environmental Statement Report of Cement Unit-1 of M/s Shree Cement Ltd, Village – Andheri Deori, Tehsil Masuda, District Ajmer (Raj) for the period of April 2019 -March 2020.

Ref: - CTO No. F(Tech)/AJMER(Beawar)/4(1)/2008-2009/6873-6875, dated 31/10/2017

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-1 of M/s Shree Cement Ltd, Village - Andheri Deori, Tehsil Masuda, District Ajmer (Raj) for the period of April 2019 -March 2020.

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. Chief Conservator of Forests (Central), Ministry of Environment, Forests & Climate Change, Regional Office, Kendriya Bhawan, 5th Floor Sector H, Aligani, Lucknow – 22602(U.P.)

2. The in charge (Regional office), Rajasthan State Pollution Control Doard, SPL-II, 5th phase, RIICO Industrial Area, Kishangarh, Aimer (Rai).

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

Phone: 011,233,708,28,123379218, 23370776

CORP. OFFICE : 21, Strand Road, Kolkata 700001 Phone : 033 22309601-4 Fax : 033 22434226

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AARTON OFFICE SECTION AND TRACK OPEN POISSON AND AND AND AND AND ARREST TOOPS.

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ENVIRONMENTAL STATEMENT M/s Shree Cement Limited Unit 1

Beawar, Rajasthan

Period from: April, 2019 to: March, 2020

FORM - V

PART - A

	Name and address of the Owner /	M/S Shree Cement Ltd.		
	Occupier of the Industry	Bangur Nagar,		
1.	operation or process	P.O. Box No. 33,		
		Beawar - 305901,		
		Distt. Ajmer (Rajasthan)		
	Industry Category			
2.	Primary (S.T.C. Code)	Red Category		
	Secondary (S.T.C. Code)	CONTRACTOR OF THE STATE OF STA		
3.	Production Capacity	4000 TPD Clinker		
5.	1 roduction Capacity	6000 TPD Cement		
4.	Year of Establishment	1985		
5.	Date of the last Environmental	18/09/2019		
٥.	Statement submitted			

PART - B

WATER AND RAW MATERIAL CONSUMPTION

1. WATER CONSUMPTION:

Process

N.A. (As plant is based on dry Process

technology)

Cooling and dust

: 87213 KL

Suppression

Domestic : 265923 KL (Common for Cement Plants

& Power Plants)

	Process Water Consumption	per Unit of Clinker Output	
Name of Product	During Previous Financial Year (2018 - 19)	During Current Financial Year (2019 - 20)	
Clinker	0.083 KL/MT of Clinker	0.094 KL/MT of Clinker	
Cement	0.114 KL/ MT of Cement	0.192 KL/MT of Cement	

2. RAW MATERIAL CONSUMPTION: (CEMENT)

		Consumption of Raw Material Per Unit of Output (Cement)		
Name of Raw Material	Name of Product	During Previous Financial Year (2018-19)	During Current Financial Year (2019-20)	
1. Limestone		2.030	2.983	
2. Laterite /Iron Ore/Mill scale		0.007	0.0	
3. Slag	**************************************	0.0	0.0	
4. Sweetner/ High Grade Limestone/Flyash in raw mill/ sand	Cement	0.0	0.0	
5. Gypsum		0.074	0.08	
6. Fly Ash		0.063	0.06	
7. Pet Coke	Hall San	0.129	0.20	
8. Bed Ash (in Cement)		0.0	0.0	
9. Marble Slurry		0.107	0.17	
10. AFR(Hazardous Waste)	1.3.7.69	0.0	0.0	

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

During Previous Financial Year	During Current Financial Year
(2018 -19)	(2019 - 20)
84.34	83.03

4. TOTAL CEMENT PRODUCTION (MT):

Product	During Previous Financial Year (2018 -19)	During Current Financial Year (2019 - 20)
Clinker	963596	9209/12.00
Cement	701763	452800.00

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	Pollutants from prescribed	
(b)	Air	Please refer Annexure – 1 &	& 2

$\underline{PART - D}$

HAZARDOUS WASTE

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

Hazardous	Hazardous Total Quantity (Ltrs.)				
Waste	During Previous	During Current			
	Financial Year	Financial Year			
	(2018-2019)	(2019-2020)			
a)From Process	We have Common	We have Common authorization			
(Cement	authorization for Hazardous	for Hazardous Waste Management			
manufacturing	Waste Management &	& Handling for Cement Plant (Unit			
is based on	Handling for Cement Plant	1 & 2), D.G. Sets, Power Plants,			
"Dry Process"	(Unit 1 & 2), D.G. Sets, Power	Synthetic Gypsum Plant and			
No Hazardous	Plants, Synthetic Gypsum Plant	Mines.			
waste is	and Mines.				
generated from		succession of the control of the second succession of the control			
the process	Total Quantity generated from	Total Quantity generated from			
except used oil	April-2018 to March-2019	April-2019 to March-2020			
which is	- 800 Ltrs.	= 1200 Ltrs.			
drained from	Old Stock $= 0$ Ltrs.	Old Stock = 0 Ltrs.			
Machinery /	Total Used oil $= 800$ Ltrs.	Total Used oil = 1200 Ltrs.			
Equipments)	Sold-out to registered recycler	Sold-out to registered recycler			
	= 0 Ltrs.	= 0 Ltrs.			
	Quantity Co- processed = 800	Quantity Co- processed = 1200			
	Ltrs.	Ltrs.			
	Balance Quantity= 0 Ltrs	Balance Quantity= 0 Ltrs			

Pollution	N.A.	N.A.	
Control	N.A.	IV.A.	6
Facilities		AND WITCHESSESSES OF AUTHOR	

PART – E SOLID WASTE

S to a second		Total Qua	antity	
	es acominación estado As succiones Conscionos estados	During Previous Financial Year	During Current Financial Year	
	TARCON A CONTROL NOTICE	(2018-2019)	(2019-2020)	
(a)	From Process	Nil	Nil	
(b)	From Pollution	Dust collected in the ESPs	, Bag Houses and Bag	
	Control Facility	Filters are recycled to the sys	tem.	
(c)	1. Quantity rejected	100% reutilized within the	100% reutilized within	
	or re- utilized within	unit.	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:

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:-

	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	During 1 st Apr 2019 to 31 st Mar 2020			
	Common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines				
1.	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)		
	(i) Automotive				
	a) Four wheeler	84	0.915		
	b) Two wheeler	10 0.296			
	a) UPS	120	1.0		

1	b) Motive Power	N1I	N1I			
1 1 2	c) Stand –by	Nil	Nil			
	(iii) Others	Nil	Nil			
	Total	214 Nos	2.211 MT			
	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. 201	9 to 31 st Mar. 2020			
	Common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines					
2.	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)			
	(i) Automotive					
	a) Four wheeler	105	5.82			
	b) Two wheeler	30	0.345			
	(ii) Industrial	Nil	Nil			
	a) UPS	212	2.575			
	b) Motive Power	Nil	Nil			
	c) Stand –by	Nil	Nil			
	(iii) Others	Nil Nil				
	Total	347Nos.	8.74 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 1200 Liter & Lead acid batteries 347 nos. 8.74 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 2018 to March 2019)					Financia March 2		
Yellow	Yellow Red Blue White			Yellow	Red	Blue	White
275	231	259	0.0	282	219	247	0.0

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

E- Wastes:

	Total Quantity					
	During Previous	During Current Financial				
	Financial Year	Year				
	(2018-2019)	(2019-2020)				
From Process	Nil	Nil				
From Pollution Control Facility	Nil	Nil				
Others	0.0	0.0				

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.

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 0.0 MT hazardous waste was co-processed and 0.0 MT hazardous waste was utilized during April 19- March 20.

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.

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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 FY19-20, 924 new trees have been planted. Up- to March 2020 total green area is around 82.83 hectare with around 228280 nos. of trees which is ~35 % of the total land of plant and colony area (231.94 Ha.).

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.

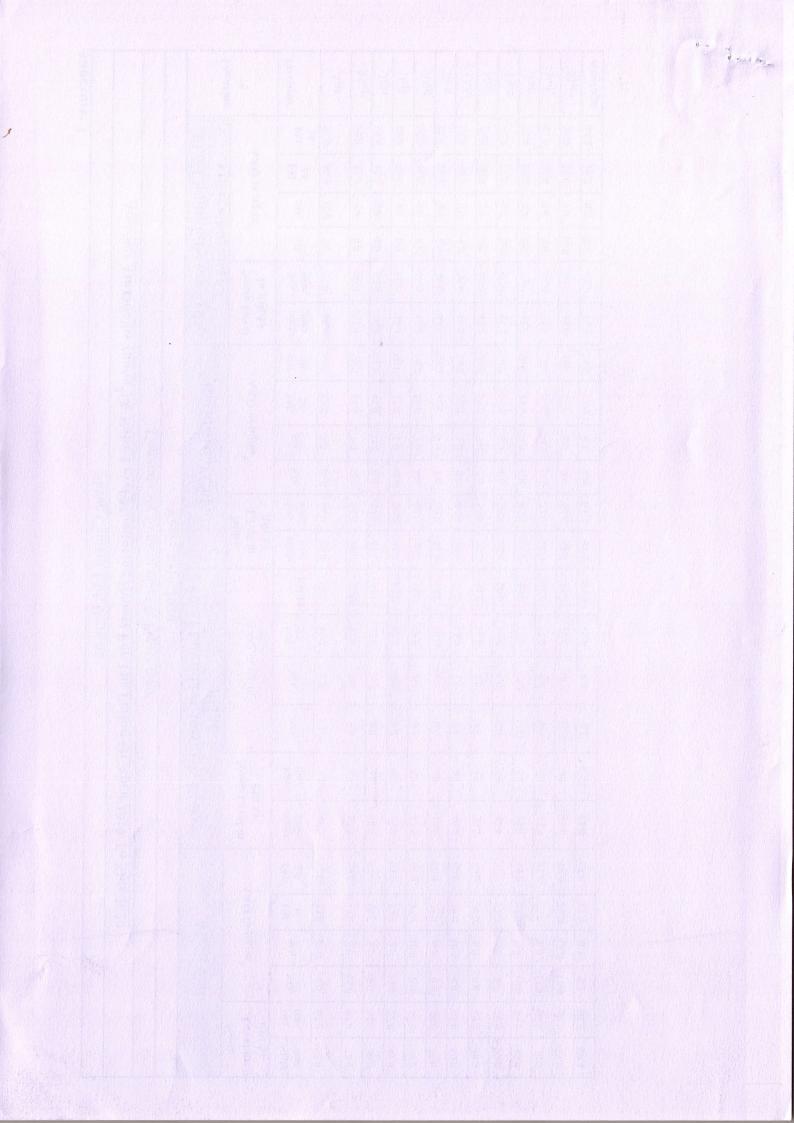
Annexure-3: Treated Domestic Wastewater analysis report.

Annexure: 1

Shree Cement Ltd, Beawar <u>Unit-I</u> Stack Emission monitoring Report (PM All values in mg/Nm³) <u>Year: 2019-20</u>

S. No.	Month	Raw Mill & Kiln Stack	Coal Mill Stack	Cooler Stack	Cement Mill Stack	
1	Apr-19	10	6	10	8	
2	May-19	15	5	12	6	
3	Jun-19	15	8	7	11	
4	Jul-19	14	5	13	8	
5	5 Aug-19		25	7	15	
6	Sep-19	SD	SD	SD	14	
7.	Oct-19	14	5	6	16	
8	Nov-19	12	16	8.5	21	
9	Dec-19	10.1	10.2	8.2	20.2	
10	Jan-20	17.5	14.5	17	21.1	
11	Feb-20	9.2	4.9	6.9	15.3	
12	Mar-20	8.9	4.1	5.7	14.7	
Average	Average		9.4	9.2	14.2	

	Average	Mar	Feb	Jan	Dec	Nov	Oct	Sep	Aug	Jul	Jun	May	Apr	Parameter →	, . ↓	Location						
	54.4	50.0	51.0	51.0	55.0	57.0	55.0	55.0	55.0	60.0	59.0	50.0	55.0	PM 10		Pla						
	33.2	23.0	25.0	20.0	23.0	26.0	46.0	28.0	46.0	40.0	45.0	40.0	36.0	PM- 2.5	AAQ in µg/m³	Plant boundary towards village Sarakana						
	8.5	9.0	9.0	9.0	8.0	7.0	8.0	8.0	8.0	9.0	8.0	9.0	10.0	SO ₂	μg/m³	ound			Aml			
	8.3	10.0	9.0	9.0	8.0	7.0	9.0	6.0	9.0	8.0	9.0	8.0	7.0	NO ₂		nt boundary towa village Sarakana			ient			
	65.0	66.0	68.0	72.0	65.0	67.0	70.0	66.0	65.0	60.0	62.0	60.0	59.0	Day time	Noise Level in dB(A)	towa ana			Air Q			
	46.3	49.0	55.0	42.0	41.0	42.0	48.0	44.0	43.0	45.0	46.0	51.0	50.0	Night time	Level B(A)	rds			uality			
	54.5	44.0	53.0	54.0	58.0	59.0	54.0	53.0	54.0	59.0	51.0	59.0	56.0	PM 10					(µg/n			
	32.9	27.0	26.0	24.0	25.0	27.0	38.0	30.0	38.0	41.0	45.0	41.0	0.88	PM- 2.5	AAQ in μg/m³	Residential Colony			n ³)& N			
	8.1	8.0	10.0	9.0	8.0	7.0	7.0	7.0	7.0	7.0	11.0	7.0	9.0	SO ₂	μg/m³	lenti		Con	Voise			
	8.8	9.0	10.0	8.0	7.0	7.0	8.0	7.0	8.0	12.0	8.0	12.0	10.0	NO ₂		al Co		mon	Level	Shi		
	61.2	62.0	72.0	65.0	58.0	59.0	60.0	59.0	54.0	58.0	59.0	64.0	64.0	Day time	Noise Level in dB(A)	olony	Year:-2019-2020	Ye	for Co	Mon	ee Co	
	44.5	49.0	60.0	45.0	42.0	35.0	39.0	41.0	40.0	42.0	43.0	49.0	49.0	Night time	Noise Level in dB(A)			ement	itorin	ement		
	53.3	49.0	52.0	48.0	50.0	51.0	56.0	53.0	56.0	55.0	64.0	55.0	50.0	PM 10		Pla	19-202	plant &	Ambient Air Quality (µg/m³)& Noise Level Monitoring Report Fo	Shree Cement Ltd, Beawar		
	35.0	30.0	27.0	22.0	25.0	26.0	44.0	26.0	44.0	42.0	52.0	42.0	40.0	PM 2.5	AAQ	Plant bo	0	& Powe	ort Fo	3eawa		
	8.6	10.0	9.0	10.0	9.0	8.0	7.0	8.0	7.0	8.0	10.0	8.0	9.0	SO_2	in μg/m³	undar P		Common for Cement plant & Power plant	or The Period Of April 2019 To Mar 2020	ľ		
	9.2	11.0	9.0	10.0	9.0	8.0	8.0	8.0	8.0	9.0	8.0	9.0	13.0	NO ₂		ıry tow Plant			eriod			
	62.7	65	70	29	39	39	62	59	5,7	62	60	59	63	Day time	Noise	undary towards Power Plant			Of Apı			
	44.4	55.0	44.0	39.0	42.0	36.0	40.0	43.0	42.0	45.0	48.0	50.0	49.0	Night time	Noise Level in	ower			ril 2019			
F	54.9	48.0	53.0	54.0	56.0	58.0	60.0	56.0	60.0	54.0	54.0	54.0	52.0	t PM 2.5	n				To M			
	31.3	26.0) 25.0	23.0	24.0) 25.0	37.0	29.0	37.0	33.0) 49.0	33.0	34.0	PM 10	AAQ				ar 20			
	8.3	0 13.0	0.8	0.8	.0 7.0	.0 6.0	.0 10.0	.0 6.0	.0 10.0	0.8	.0 6.0	.0 8.0	.0 10.0	$\int_{0}^{M} so_{2}$	AAQ in μg/m³	Mai			20			
	9.2	0 12.0) 11.0	10.0	9.0	8.0	0 8.0	9.0	0.8	11.0	9.0	0 11.0	.0 4.0	NO ₂	m³	Main Gate						
	65.3	0 69.0	0 66.0	0 65.0	70.0	69.0) 65.0	58.0	62.0	0 62.0) 64.0	.0 67.0	0 67.0	D ₂	L	ate						
-		0 53.0	0 52.0	0 45.0	0 55.0	0 48.0	0 50.0	0 47.0	0 50.0	0 49.0	0 50.0	0 53.0	0 53.0	y Night e time	Noise Level in dB(A)							
L	4	9	<u> </u>	0	<u> </u>	0	0	0	0	0	0	0	0	ht								



Annexure: 3

	F	Avg						20.0
	N	Marzo	64	2	34	68.6	14	110
	Pob-90	1 CD 70	7.9		96	71.2	16	2.1
	19n-90	2	8.62	עט	9.3	212	18.5	1.3
	Dec-19		8.8	7.6	2	215	21.2	00
	Nov-19		7.88	U6		218	15.2	1.62
	Oct-19		8.38	32	000	877	22.8	1.2
	Sep-19	0	8.56	- 22	000	027	24.2	1.28
	Aug-19							1.32
-	Jul-19	8 38	00.0	96		010	24.0	1.3
L	100 or	878		48	198	910	0.12	1.8
1 01	Way-19 ป	8.7	100	70	212	906	0.77	T.9
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