CIN No. : L26943RJ1979PLC001935

Phone : 01493-250521-24
Toll Free : 1800 180 6003 / 6004
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Website : www.shreecement.in



SHREE CEMENT LTD.







SP3-II (A 1), RIICO INDUSTIAL AREA, KHUSHKHERA-301707 BHIWADI, DISTT. ALWAR, RAJASTHAN

SCL/KKG/Env/2018-19/ 1409 File No. C-015

Date: 25/09/2018 Th.:F.F. COURIER

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

Sub.: Environment Statement Report of M/s. Shree Cement Limited, Khushkhera for the period from April, 2017 to March, 2018 under Environment Protection Act, 1986.

Ref: Consent to operate letter No.F (Tech)/Alwar (Tijara)/100(1)/ 2009-2010/10605-10607 dated 14/02/2017.

Dear Sir.

We are submitting herewith the Annual Environment Statement Report for the period from April, 2017 to March, 2018 for M/s. Shree Cement Limited, situated at Plot No. SP3-II/A-1, RIICO Industrial Area, Khushkhera-Bhiwadi, Distt.-Alwar - (Rajasthan).

This is for your kind information please.

Thanking you, Yours Faithfully,

For SHREE CEMENT LIMITED,

K. L. MAHAJAN | Jt.Vice-President (O

Copy to: 1. The Regional Officer, Rajasthan State Pollution Control Board, Plot No. G.O. I, RIICO Industrial Area Bhiwadi, (Rajasthan)-301019.

2. The Chief Conservator of Forest (C), Regional Office (Central Region), Ministry of Environment & Forest, Kendriya Bhawan, 5th Floor, Sector 'H' Aliganj, LUCKNOW- 226024

O/C Envisorment Deptt-

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JAIPUR OFFICE : SB-187,Opp. Rajasthan University, JLN Marg, Jaipur-302 015 Phone : 0141 6611200, 6611204, Fax : 0141 6611219

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bhadurshah Zafar Marg, New Delhi 110 002 Phone : 011 23370828, 23379218, 23370776, Fax : 011 23370499

CORP. OFFICE: 21, Strand Road, Kolkata 700 001 Phone: 033-22309601-4 Fax: 033 22434226

ENVIRONMENT STATEMENT

FORM-V (See Rule-14) (APRIL, 2017 (o MARCH, 2018)

PART - A

1.	Name and address of the Owner / Occupier of the Industry operation or process	M/s SHREE CEMENT LIMITED Post Box No.33 Bangur Nagar, BEAWAR Distt AJMER (Rajasthan) PIN-305901
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity Cement: D. G. Set:	4.50 Million Tons Per Annum 1000 KVA
1.	Year of Establishment	2007
5.	Date of the last Environment Statement submitted.	25 th September, 2017

PART - B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

Process

N.A. (As plant is based on dry process technology)

Cooling and

Dust Suppression

: 13254 KL

Domestic

: 25051 KL

Name of Product	Cooling & Dust Suppression Water Consumption per unit of Product Output	
	During Previous Financial Year	During Current Financial Year
Cement	0.00552 KL /Metric Ton of Cement	0.00500 KL / Metric Ton of Cement

(II) RAW MATERIAL CONSUMPTION: (CEMENT PLANT)

Name of Raw	Name of Product	Consumption of Raw Material per unit of Output (Cement)	
Material		During Previous Financial year (2016-17)	During Current Financial year (2017-18)
Clinker	Cement	0.5737	06127
Fly Ash		0.3409	0.2998
Gypsum		0.0853	0.0875

RAW MATERIAL CONSUMPTION: (1000 KVA D.G. SET)

Name of Raw Material	Name of		Consumption of Raw Material per unit of Output (Ltrs / KWH)	
	Product	During 2016-17 Financial year	During 2017-18 Financial year	
Fuel/Diesel	Power	0.4750	0.4607	
		D.G. Set not operated so far. It is being used in emerge conditions or power failure only to operate office light and computers.		

(III) POWER CONSUMPTION (Kwh/T OF CEMENT):

During Previous Financial Year (2016-17)	During Current Financial Year (2017-18)
31.21	30.84

(IV) TOTAL CEMENT PRODUCTION (Metric Tonnes):

During previous financial year (2016-17) in Metric Tonnes	During current financial year (2017-18) Metric Tonnes	
2455317	2648960	

PART-C DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharges (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a)	Water	As the plant is being of technology, no liquid effluction technology, no liquid effluction technology, no liquid effluction to the plant. Waste water grand mess is being treated to Plant. The STP treated with plantation & gardening. Mo quality of treated domest Annexure-I	ent is generated from the enerated from office toilets hrough Sewage Treatment rater is being utilized in

(b)	Air	Di
(0)		Please refer Annexures- II & III
(c)	Noise	Please refer Annexure- IV

PART - D

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(As specified under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016

	Total Quantity (Ltrs.)		
Hazardous Waste	During Current Financial Year (April,2016 to March,2017)	During Current Financial Year (April,2017 to March,2018)	
a) From Process	We are having common authorization for Hazardous Waste Management & Handling for Clinker Grinding Unit (Cement 4.50 MTPA & 1000 KVA D. G. Set)		
Cement manufacturing (Grinding) is based on "Dry Process" No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments	Total Quantity Generated in 2016-17 : 2730 Ltrs Old Stock : 0 Ltrs Sale out : 2730 Ltrs Balance : 0 Ltrs	Total Quantity Generated in 2017-18 : 2730 Ltrs Old Stock : 0 Ltrs Sale out : 2730 Ltrs Balance : 0 Ltrs	
(b) From Pollution Control Facilities	₩ N.A.	N.A.	

PART – E SOLID WASTE

		Total Quantity		
(a)	Error D.	During Previous Financial Year	During Current Financial Year	
(a)	From Process	Nil	Nil	
(b)	From Pollution Control Facility			
(c)	1)Quantity rejected or re-utilized within the unit	100%	100%	
	2) Sold	Nil	NI:1	
	3) Disposed	Nil	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:

Hazardous Wastes:

Cement manufacturing is based on "Dry Process". No Hazardous waste is generated from the process except used oil which is drained from machineries /equipments. Used oil is sold to the CPCB/RSPCB authorized recyclers/self used for lubrication.

Battery Waste:

As specified under Batteries (Management & Handling) Amendment Rules, 2010, we have purchased following new batteries of different categories.

Year 2017-18

Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency.	During 1 st April, 2017 to 31st March 2018	
Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
(i) Automotive		
a) Four wheeler	Nil	Nil
b) Two wheeler	Nil	Nil
(ii) Industrial		
a) UPS	Nil	Nil
b) Motive Power	Nil	Nil
c) Stand –by	Nil	Nil
(iii) Others	Nil	Nil
Total	Nil	Nil

Number of used batteries of categories and Tonnage of scrap sent to manufacturer/ dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent		During 1 st April, 2017 to 31st March, 2018	
Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	
(i) Automotive			
a) Four wheeler	Nil	Nil	
b) Two wheeler	Nil	Nil	
(ii) Industrial			
a) UPS	Nil	Nil	
b) Motive Power	Nil	Nil	
c) Stand -by	Nil	Nil	
(iii) Others	Nil	Nil	
Total	Nil	Nil	

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Bio-Medical Waste:

Bio-Medical Waste generated during current financial year April, 2017 to March, 2018 under the Bio-Medical Waste (Management & Handling) Rules, 2016 are as follows.

Year 2017-18

April, 17	Bio-Medical Waste Quantity (Kg) as per colour coding						
to March, 18	Red	Blue	Yellow	White			
waten, 18	0.243 Kg	0.000 Kg	0.825 Kg	0.108 Kg			
TOTAL	1.176 Kg						

Above mentioned bio-medical waste has been sent to Govt. CHC, Tapukara for further proper treatment & Disposal.

E- Wastes:

	Total Quantity				
Source	During Previous Financial Year	During Current Financial Year			
From Process	Nil	Nil			
From Pollution Control Facility	Nil	Nil			

Solid Wastes: - N.A.

PART - G

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

Clinker grinding unit is being operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of roller press for pre grinding of clinker is an energy conservation process. The stack emissions from the plant are controlled by equipment like bag houses and bag filters installed at various material transfer points to clean the process and arrest the fugitive emissions. The particulate matter collected in the pollution control equipment is recycled/reused in process and neutralizing the cost of operation of pollution control equipments and hence no cost impact on the production cost.

PART - H

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

Green belt development and tree plantation is our ongoing process within plant area and outside of the area. Every year we plant new tree plantation to increase the bio-diversity of the area. Upto 31 March, 2018, we have covered 3.76 hectare, around 6570 trees with the 6169 survived with a survival rate of 93.0 %, this is around 35.98 % green area of the total plant area (10.45 hect.). Additional to this we have planted 6830 tree saplings survived with a No. 6425 upto 31 March,2018. Addition to this, outside plant areas we have planted 7179 tree saplings at Nearby Govt schools (Govt. Primary Schools-Khushkhera & Govt Sec. School, Maheshra) outside plant area, both side of RIICO road, Dharuhera road-Budhi Bawal Road, Kasola Road, Mahaeshra village road with a survival rate is 82.8 %.

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PART-I

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ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.

- We have full-fledged Environment Department with three separate cells, one for monitoring, one for maintenance of pollution control equipment and one for green belt development.
- 2. Monitoring of stack emission, ambient air quality, ambient noise and ground water quality & level.
- Maintenance Department is doing regular checking and scheduled maintenance of all the pollution control devices i.e. bag filters.
- 4. Civil and Personal & Administration departments taking care for of House keeping.
- 5. To reduce fugitive emissions, we have procured a big size truck mounted and 02 Nos of small 3D TPS sweeping machine for regular sweeping and cleaning of paved area.
- 6. Horticulture section is taking care of tree plantation and green belt development. Every year we are growing new tree plantation inside and outside of the plant area.
- 7. We have Installed Continuous Emission Monitoring System (CEMS) to display the data on CPCB/RPCB web sites.
- 8. Domestic waste water is being treated at Sewage Treatment Plant (STP). This treated water is being utilized in plantation & gardening.
- 9. We are maintaining Zero Liquid Discharge from our premises.
- 10. We create environment awareness for all our stakeholders.

On support of above, we are enclosing herewith following Annexures:-

Annexure-II: Monthly treated domestic effluent Report for the year 2017-18

Annexure-III: Ambient Air Quality Monitoring Report for the year 2017-18

Annexure-III: Stack Emission Level Monitoring Report for the year 2017-18

Annexure-IV: Ambient Noise level Monitoring Report for the year 2017-18

Annexure-V: Yearly plantation Report & for the year 2017-18

MONTHLY TREATED DOMESTIC EFFLUENT

QUANT	TTY OF STP TREATED DOMESTIC	C EFFLUENT(Monthly)		
	YEAR: 2017-18			
MONTH	MONTHLY VOLUME (KL)	DAILY AVERAGE (KLD		
April,17	212	7.067		
May,17	168	5.419		
June, 17	148	4.933		
July,17	124	4.000		
August,17	168	5.419		
September,17	205	6.833		
October,17	217	7.000		
November,17	139	4.633		
December,17	200	6.452		
January,18	202	6.516		
February,18	144	5.143		
March,18	222	7.161		
Total	2149			

QUALITY OF S				UENT(Qua	arterly)	
	YE.	AR: 2017-1	18			
	Obse	Prescribed Standard				
Parameters	Jun,17	Sep.,17	Dec.,17	Mar.,18	Limit (mg/l) except pH	
Total Suspended Solids	39.0	36.0	29.0	48.0	100	
pH Value	7.25	7.23	7.21	8.30	5.5-9.0	
Oil and Grease	2.10	2.50	2.70	1.20	10	
Total Residual Chlorine	N.D.	N.D.	N.D.	BDL	1.0	
Ammonical Nitrogen (as N)	3.50	3.15	5.50	6.70	50	
Biochemical Oxygen Demand (3 days at 27°C)	13.50	20.6	23.9	24.5	30	
Chlorides	185.0	171.0	295.0	342.0	1000	
Chemical Oxygen Demand	132.0	156.0	146.0	110.0	250	

ANNEXURE-II

AMBIENT AIR QUALITY MONITORING REPORT APRIL,2017 TO MARCH,2018 (µg/m3)

S. Location \rightarrow		Plant	bounda Arjun		vards		t bound Dharuhe				bounds ushkhei		
No	Month ↓	PM _{2.5}	PM ₁₀	SO ₂	NO _x	PM _{2.5}	PM ₁₀	SO ₂	NOx	PM _{2.5}	PM ₁₀	SO ₂	NO _x
1	April,17	33	51	11.9	23.4	35	53	12.1	21.3	37	55	11.9	22.8
2	May,17	35	53	10.4	21.9	36	55	10.6	22.2	38	57	10.5	21.8
3	June,17	29	47	13.6	25.1	33	52	14.5	26.7	36	56	14.3	25.5
4	July,17	30	49	12.0	21.9	34	53	12.6	22.2	35	55	12.2	21.8
5	August,17	32	51	13.4	22.5	35	54	12.9	23.1	36	56	13.3	22.7
6	September,17	33	48	14.2	20.9	35	52	13.8	21.4	37	54	13.5	22.2
7	October,17	30	50	10.6	22.4	33	53	11.0	21.9	36	55	10.9	22.1
8	November,17	31	48	13.9	24.3	34	53	13.8	24.1	34	52	13.9	24.2
9	December,17	32	47	16.2	25.6	30	45	15.4	24.7	37	55	16.1	25.0
10	January,18	33	44	19.4	26.3	35	47	19.2	25.8	37	53	18.9	26.0
11	February,18	31	46	21.9	25.3	34	49	20.4	24.8	36	55	21.5	25.1
12	March,18	34	47	19.6	22.1	36	51	19.8	23.1	38	56	18.5	22.7
	AVERAGE	32	48	14.8	23.5	34	51	14.7	23.4	36	55	14.6	23.5

ANNEXURE-III

Stack emission level (PM in mg/Nm³) for the Period of April,2017 to March,2018

s.	Months	Stack attached Ceme	with Bag house of ent mill-1	Stack attached with Bag house of Cement mill-2			
No	1	Monitored Value(mg/Nm3)	Average Value of Opacity meter (mg/Nm3)	Monitored Value(mg/Nm3)	Average Value of Opacity meter (mg/Nm3)		
l	April,17	16	15.2	24	24.3		
2	May,17	25	24.7	21	21.2		
3	June,17	18	17.4	25	23.9		
4	July,17	17	15.6	26	20.5		
5	August,17	22	21.5	18	16.4		
6	September,17	20	21.2	24	20.8		
7	October,17	25	24.2	22	21.9		
8	November,17	20	21.5	26	25.7		
9	December,17	17	16.3	24	25.1		
10	January,18	23	22.0	15	16.8		
11	February,18	20	y 18.1	16	14.9		
12	March,18	15	12.9	13	13.2		
	AVERAGE	19.8	19.2	21.2	20.4		

Stack emission level of 1000 KVA DG Sct(mg/Nm³) for the Period of April,2017 to March,2018

S.	Date & Month	Stack attached with 1000 KVA DG Set					
No	1	9	Monitored Value (mg/Nm3)	Prescribed Standard Limit (mg/Nm3)			
		CO	57.9	150			
	October,17 (Monitored on 08.10.2017 during major power shutdown of JVVNL)	NMHC	32.6	100			
Ţ		NOx	128.3	710			
		Particulate Matter	32	75			

ANNEXURE-IV

AMBIENT NOISE MONITORING REPORT FROM

Location →	Plant boundary to		T FROM APRIL,2017 TO M Plant boundary towards Dharuheda Road		Plant boundary towards Khushkhera Village		
April,17	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	
May,17	63.0	65.1	65.9	62.7	67.7	64.3	
June,17	64.3	62.8	66.9	61.7	68.2	63.4	
July,17	66.9	64.1	68.4	63.8	70.0	65.5	
	67.2	63.8	69.4	64.7	70.9	63.6	
August,17	65.8	62.9	67.6	63.5	100000000000000000000000000000000000000	65.9	
September,17	69.4	63.7	70.4		68.7		
October,17	64.9	66.0		64.0	71.8	65.2	
November,17	61.3		67.3	65.2	69.3	66.7	
December,17	65.4	63.4	63.7	60.8	69.5	68.6	
January, 18		60.9	65.8	63.1	71.4	65.5	
February,18	66.3	61.2	64.9	62.8	70.3	66.0	
	64.0	62.9	65.1	61.8	69.5	63.7	
March,18	62.3	59.1	64.8	61.7	68.5	64.2	
AVERAGE	65.1	63.0	66.7	63.0	69.7	65.2	

ANNEXURE-V

YEARWISE PLANTATION

Year	No. of plant saplings planted	No. of plant saplings survived		
2017-18	973	835		
2016-17	699	613		
2015-16	1069	888		
2014-15	1067	989		
2013-14	1318 [©]	1245		
2012-13	636	592		
2011-12	1083	1039		
2010-11	2501	2219		
2009-10	1363	1226		
008-09	1200			
007-08	2100	1100		
	2100	1629		
Total	14009	12375		