CIN No. : L26943RJ1979PLC001935

Phone : 01493-250521-24 Toll Free : 1800 180 6003 / 6004

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SHREE CEMENT LTD.

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







SCL/KKG/Env/ESR/2019-20/タルリ File No. C-015

Date: 17/09/2019 Th.:DTDC 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, 2018 to March, 2019 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, 2018 to March, 2019 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 It.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

Olc Envisorment Dept.

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JAIPUR OFFICE: SB-187,Opp. Rajasthan University, JLN Marg, Jaipur-302 015

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ENVIRONMENT STATEMENT

FORM-V (See Rule-14) (APRIL, 2018 to MARCH, 2019)

PART - A

5.	Date of the last Environment-Statement submitted.	25 th September, 2018
4.	Year of Establishment	2007
3.	Cement: D. G. Set:	4.50 Million Tons Per Annum 1000 KVA
2.	Primary (S.T.C. Code) Secondary (S.T.C. Code) Production Capacity	Red Category
1,	Name and address of the Owner / Occupier of the Industry operation or process Industry Category	M/s SHREE CEMENT LIMITED Post Box No.33 Bangur Nagar, BEAWAR Distt AJMER (Rajasthan) PIN-305901

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

: 18471 KL

Domestic

: 20416 KL

Name of Product	Cooling & Dust Suppression Water Consumption per unit of Product Output		
	During previous financial year (2017-18) Metric Tonnes	During current financial year (2018-19) Metric Tonnes	
Cement	0.00500 KL / Metric Ton of Cement	0.00655 KL/Metric Ton of Cement	

(II) RAW MATERIAL CONSUMPTION: (CEMENT PLANT)

Name of	Name of Product	Consumption of Raw Material per unit of Output (Cement)		
Raw Material		During previous financial year (2017-18) Metric Tonnes	During current financial year (2018-19) Metric Tonnes 0.6183	
Clinker	Cement	0.6127	0.2916	
Fly Ash	1 [0.2998	0.0900	
Gypsum		0.0875	0.0900	

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

Name of Raw	Name of Raw Name Consumption of Raw Mat per unit of Output (Ltrs / K				
Material	of Product	During previous financial year (2017-18) Metric Tonnes	During current financial year (2018-19) Metric Tonnes		
Fuel/Diesel	Power	0.4607	0.3710		
Tuel/Dieser	10,10	D.G. Set not operated so far. It is being used in emergency conditions or power failure only to operate office lights and computers.			

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

During Previous Financial Year (2017-18)	During Current Financial Year (2018-19)
30.84	31.14

(IV) TOTAL CEMENT PRODUCTION (Metric Tonnes):

During previous financial year (2017-18) Metric Tonnes	During current financial year (2018-19) Metric Tonnes
2648960	2821414

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	The plant is being operated on dry process technology and therefore no liquid effluent is generated from cement plant. Waste water generated from office to and canteen is being treated through Sewage Treat Plant (STP). The STP treated water is being utilize horticulture activities. Monthly quantity & quality of treated domestic effluent is given Annexure-I		
(b)	Air	Please refer Annexures- II &	Ш	
(c)	Noise	Please refer Annexure-IV		

PART - D

HAZARDOUS WASTE

(As specified under Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016

	Total Qu	Total Quantity (Ltrs.)			
Hazardous Waste	During Previous Financial Year (April,2017 to March,2018)	During Current Financial Year (April,2018 to March,2019)			
waste	We are having common authorization for Hazardous Waste Management & Handling for Clinker Grinding Unit (Cement 4.50 MTPA & 1000 KVA D. G. Set)				
a) From Process 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 2017-18 : 2730 Ltrs Old Stock : 0 Ltrs Sale out : 2730 Ltrs Balance : 0 Ltrs	Total Quantity Generated in 2018-19: 0 Ltrs Old Stock: 0 Ltrs Sale out: 0 Ltrs Balance: 0 Ltrs The used oil generated is being used in co-processing in cement kiln.			
(b) From Pollution Control Facilities	N.A.	N.A.			

PART – E SOLID WASTE

		Total Quantity		
		During Previous Financial Year	During Current Financial Year	
(a)	From Process	Nil	Nil	
(b)	From Pollution Control Facility	Dust collected in the Bag Houses and Bag Filters is recycled/ reused in process.		
(c)	Quantity rejected or re- utilized within the unit	100%	100%	
	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:

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. Used oil is sold to the CPCB/RSPCB authorized recyclers/self used for lubrication. The used oil generated is being used in co-processing in cement kiln.

Battery Waste:

As specified under Batteries (Management & Handling) Amendment Rules, 2010, Details of Lead-Acid batteries are as under:-

Year 2018-19

Number of new batteries of different categories purchased from the manufacturer / importer dealer or any other agency.		During 1 st April, 2018 to 31 st March 2019		
Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)		
(i) Automotive				
a) Four wheeler	05	0.165		
b) Two wheeler	Nil	Nil		
(ii) Industrial				
a) UPS	157	1.123		
b) Motive Power	Nil	Nil Nil		
c) Stand –by	Nil			
(iii) Others	Nil	Nil		
Total	162	1.358		
Tomage of serap sent to manufacturer/		April, 2018 to 31st March, 2019		

agency to whom the used batteries scrap was sent.			
Category:	(i) No. of Batteries	(ii) Approximate Weig (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	
Fotal	Nil	Nil	

Bio-Medical Waste:

Bio-Medical Waste generated during current financial year April, 2018 to March, 2019 under the Bio-Medical Waste (Management & Handling) Rules, 2016 are as follows.

* 7	20			10
Vear	20	12	6 -	19

April,18 to	Bio-Medical Waste Quantity (Kg) as per colour coding						
	Red	Blue	Yellow	White			
March, 19	0.103 Kg	0.000 Kg	0.461 Kg	0.189 Kg			
TOTAL	0.753 Kg						

Bio-medical waste was being sent to Government CHC, Tapukara for further environment friendly treatment & disposal. Right now it is being sent to M/s HOSWIN Incinerator (CBWFT) at Alwar for proper 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 operated on dry process technology, which is cost effective and environmental 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 equipment and hence no cost impact on the production cost. Further fly ash is also being utilized in the production of PPC cement thus eliminating the harmful impacts on environment.

PART - H

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

Green belt development and tree plantation is our ongoing process activity within the plant area and outside of the area. Every year plantation activities are being done to increase the bio-diversity of the area. Till 31st March, 2019, we have covered 3.76 hectare, around 7174 nos. of trees with 6495 nos. survival with a survival rate of 90.53 %, this is around 35.98 % green belt area of the total plant area (10.45 hect.). In addition to this, outside plant areas we have planted 7577 nos. of 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 79.2 %. During the FY 2019- 20 we have a target of planting around 500 nos. of tree species.

PART - I

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. Regular monitoring of stack emissions, ambient air quality, ambient noise and ground water quality & levels. Data analysis is being done to further improve the environment quality of the plant area.
- 3. Maintenance Department is performing regular checking and scheduled maintenance of all the pollution control devices i.e. bag filters etc.
- 4. Civil and Personal & Administration departments are taking care of entire House keeping of the Plant area.
- 5. To further reduce fugitive emissions, we have a big size truck mounted and 02 Nos of small 3D TPS sweeping machines for regular sweeping and cleaning of paved area. All the material transfer belts are covered and transfer points are equipped with pollution control equipment. Truck parking area and vehicle movement area are concreted to avoid any fugitive emissions.
- 6. Horticulture section is taking care of tree plantation and green belt development. Every year we are planting tree species inside and outside of the plant area.
- 7. We have installed Continuous Emission Monitoring System (CEMS) to display the data on CPCB and 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 (ZLD) from our premises.
- 10. We create environment awareness for all our stakeholders through meetings, training programs, day celebrations etc.

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

Annexure-II : Monthly treated domestic effluent Report for the year 2018-19

Annexure-III : Stack Emission Level Monitoring Report for the year 2018-19

Annexure-IV: Ambient Noise level Monitoring Report for the year 2018-19

Annexure-V: Yearly plantation Report & for the year 2018-19

ANNEXURE-I

MONTHLY TREATED DOMESTIC EFFLUENT

QUANTITY OF STP TREATED DOMESTIC EFFLUENT(Monthly)								
YEAR: 2018-19								
MONTH	MONTHLY VOLUME (KL)	DAILY AVERAGE (KLD)						
April,18	233	7.77						
May,18	271	8.74						
June,18	226	7.53						
July,18	244	7.87						
August,18	. 256	8.26						
September, 18	215	7.17						
October,18	228	7.36						
November,18	166	5.53						
December,18	286	9.23						
January,19	221	7.13						
February,19	191	6.82						
March,19	233	7.52						
Total	2770	7.58						

QUALITY OF ST	'P TREATEI	DOMES'	TIC EFFLU	JENT(Quar	terly)		
	YEA	AR: 2018-1	9				
	Obse	Observed value(mg/L) except pH					
Parameters	June,18	Sep,18	Dec,18	Mar,19	Standard Limit (mg/l) except pH		
Total Suspended Solids	49.00	18.00	62.00	67.00	100		
pH Value	8.12	7.27	7.11	8.05	5.5-9.0		
Oil and Grease (O&G)	1.30	1.30	3.70	3.60	10		
Total Residual Chlorine	BDL	BDL	BDL	BDL	1.0		
Ammonical Nitrogen (as N)	3.20	26.80	33.00	21.50	50		
Biochemical Oxygen Demand (3 days at 27°C)	18.60	19.10	21.80	18.70	30		
Chlorides	185.00	180.10	165.00	174.80	1000		
Chemical Oxygen Demand	93.00	88.00	139.00	129.00	250		

ANNEXURE-II

Ambient air quality monitoring report apr, 2018 to mar, 2019 ($\mu\text{g/m}^3)$

s.	Location →	Location → Plant boundary towards Arjun Road		Plant boundary towards Dharuheda Road			Plant boundary towards Khushkhera Village						
No	Month ↓	PM _{2.5}	PM ₁₀	SO ₂	NO _x	PM _{2.5}	PM ₁₀	SO ₂	NO _x	PM _{2.5}	PM ₁₀	SO ₂	NOx
1	April,18	36	49	17.4	25.3	38	55	18.3	25.1	35	48	17.2	24.9
2	May,18	33	47	19.2	27.6	36	53	18.9	27.1	38	55	19.1	26.9
3	June,18	31	45	20.4	28.2	35	51	19.7	27.5	36	54	20.1	27.3
4	July,18	29	43	14.2	30.1	34	55	13.7	29.8	33	52	14.6	31.2
5	August,18	32	46	13.8	29.6	35	51	14	28.9	34	53	13.3	28.5
6	September,18	30	45	15.2	27.4	33	49	15.6	27.9	36	54	14.8	27.5
7	October,18	35	49	17.6	30.5	37	53	17.1	29.9	34	54	16.8	30.2
8	November,18	33	53	26.5	29.7	36	56	25.1	30.2	35	57	26.3	29.5
9	December,18	32	50	29.2	34.6	34	54	29.5	32.8	37	55	28.4	33.7
10	January,19	29	42	23.7	30.1	32	49	22.9	31.5	36	50	21.7	28.6
11	February,19	31	46	27.4	33.2	33	52	26.8	32.0	35	54	27.3	33.4
12	March,19	34	50	24.8	31.9	. 36	53	25.1	33.4	38	56	25.2	32.7
	AVERAGE	32	47	20.8	29.9	35	53	20.6	29.7	36	54	20.4	29.5

ANNEXURE-III

Stack emission level (PM in mg/Nm³) for the Period of Apr, 2018 to Mar, 2019

S.	Months	Stack attached with Bag house of Cement mill-1	Stack attached with Bag house of Cement mill-2
No	1	Monitored Value(mg/Nm3)	Monitored Value(mg/Nm3)
1	April,18	14	21
2	May,18	18	25
3	June,18	16	19
4	July,18	14	21
5	August, 18	23	15
6	September,18	17	13
7	October,18	15	17
8	November,18	18	14
9	December,18	20	24
10	January,19	13	18
11	February,19	16	15
12	March,19	22	13
	AVERAGE	17.2	17.9

Stack emission level of 1000 KVA DG Set (mg/Nm³) for the Period of April,2018 to March,2019

S.	Date & Month	Stack attached with 1000 KVA DG Set					
No	Jace C Month	Parameters	Monitored Value (mg/Nm3)	Prescribed Standard Limit (mg/Nm3)			
	June,2018 (Monitored on 17.06.2018 during major power shutdown of JVVNL)	CO	64.8	150			
		NMHC	28.4	100			
1		NOx	142.5	710			
		Particulate Matter	36.9	75			

AMBIENT NOISE MONITORING REPORT FROM APR,2018 TO MAR,2019(Leq-dB(A)

Location →		dary towards n Road	Plant boundary towards Dharuheda Road		Plant boundary towards Khushkhera Village		
Months	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	
April,18	63.4	61.2	65.7	62.8	67.9	63.6	
May,18	62.0	64.5	66.1	64.6	65.9	62.7	
June,18	64.2	63.1	67.5	63.1	66.3	64.4	
	65.0	63.7	66.9	64.3	65.4	62.8	
July,18	63.0	64.2	65.1	63.9	67.3	64.5	
August,18		62.7	66.5	61.8	65.4	63.2	
September, 18	64.9		68.3	64.6	64.7	60.9	
October,18	63.8	61.4	61.1	65.4	54.3	63.7	
November,18	56.3	62.9	61.3	63.4	64.8	62.5	
December, 18	60.1	64.7		62.9	65.5	63.3	
January,19	57.8	60.1	67.5		64.4	67.0	
February,19	61.4	63.3	55.7	60.5	A CONTRACTOR OF THE PARTY OF TH	64.2	
March,19	60.6	61.7	63.9	62.3	66.2		
AVERAGE	61.9	62.8	64.6	63.3	64.8	63.6	

ANNEXURE-V

YEARWISE PLANTATION DETAILS

Year	No. of plant saplings planted	No. of plant saplings survived	Rate of Survival (%)
2018-19	742	675	90.97
2017-18	973	835	85.81
2016-17	699	613	87.69
2015-16	1069	888	83.06
2014-15	1067	989	92.68
2013-14	1318	1245	94.46
2012-13	636	592	93.08
2011-12	1083	1039	95.93
2010-11	2501	2219	88.72
2009-10	1363	1226	89.94
2008-09	1200	1100	91.66
2007-08	2100	1629	77.57
Total	14751	13171	