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SHREE CEMENT LTD.

Regd. Office:

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305 901, RAJASTHAN, INDIA



SCL/Ras/Unit-VII/Env. Statement/2017-18/

6500

Date: 22/09/2017

To,

File No. C-164

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

Sub: - Environmental Statement for the period from April 2016 to March 2017 for Cement Plant Unit-VII of M/s Shree Cement Limited situated at Village- Ras Bhingarh, Tehsil- Jaitaran, Dist- Pali (Raj).

Ref: - CTO No.- F (Tech)/ Pali (Jaitaran)/2 (1)/ 2008-2009/7825-7828 dated: 16/01/2014.

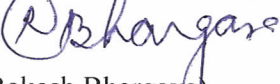
Sir,

We are submitting herewith Environmental Statement for the period from April 2016 to March 2017 for Cement Plant Unit-VII (Without Cement grinding) of M/s Shree Cement Limited situated at Village- Ras Bhingarh, Tehsil- Jaitaran, Dist- Pali (Raj).

This is for your kind information please.

Thanking you,
Yours faithfully,

For Shree Cement Ltd;


(Rakesh Bhargava)
Vice President (Environment)

Encl: a/a

Copy to:-

1. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Central Regional Office, Kendriya Bhawan, 5th Floor Sector H, Aliganj, Lucknow – 226024 (U.P.)
2. The Regional Officer (Regional Office), Rajasthan Board for the Prevention & Control of Pollution, S / A-6, Mandia Road, Industrial Area, Near Pali Urban Co-Operative Bank, PALI- MARWAR- 306401 (Raj.)

O/C Environment department, Ras.

Page 1 of 9

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

Phone : 0141 4241200, 4241204, Fax : 0141 4241219

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bhadurshah Zafar Marg, New Delhi 110 002

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

ENVIRONMENTAL STATEMENT
M/s Shree Cement Limited: Unit- VII
Period from : April 2016 to : March 2017

FORM – V

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Cement Plant Unit-VII M/s Shree Cement Ltd. Village: Ras/Bhimgarh, Tehsil: Jaitaran, Dist:Pali - 306107 (Rajasthan)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	1.2 Million TPA Clinker
4.	Year of Establishment	2009
5.	Date of the last Environmental Statement Submitted	20/09/2016

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	:	30328 KL
Domestic	:	70209 KL (Common for Cement Plant & Power Plant)

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year (2015-2016)	During Current Financial Year (2016-2017)
Clinker	0.0285 KL/MT of Clinker	0.0284 KL/MT of Clinker

(II) RAW MATERIAL CONSUMPTION:

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Clinker)	
		During Current Financial Year (2015-2016)	During Current Financial Year (2016-2017)
1. Limestone	Clinker	1.485	1.486
2. Laterite/Iron Ore		0.019	0.020
3. Zinc Slag		0.003	0.001
4. Sweetener/ HG Limestone /Sand/Fly ash/ Sludge (in raw mill)		0.0003	0.0011
5. Coal & Pet Coke		0.096	0.096
6. Agro(In Kiln)		0.001	0.00
7. AFR (Hazardous Waste)		0.00008	0.00

(III) POWER CONSUMPTION (KWH/T OF CLINKER):

During Previous Financial Year (2015-2016)	During Current Financial Year (2016-2017)
54.88	54.93

(IV) TOTAL CLINKER PRODUCTION (MT):

During Previous Financial Year (2015-2016)	During Current Financial Year (2016-2017)
1177796	1064453

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	As the plant is being operated on dry process technology, no liquid effluent is generated from the cement plant. The waste water generated from the office toilet and mess is treated in STP and treated water is used in plantation. Analysis Report of STP treated water is attached as Annexure-3	
(b)	Air	Please refer Annexure – 1 & 2	

PART – D
HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rule, 2016)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2015-2016)	During Current Financial Year (2016-2017)
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>Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, D.G.Set and Nimbeti Limestone Mines.</p> <p>Total Quantity generated from April-2015 to March-2016 = 22470 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 22470 Ltrs. Sold-out to registered recycler = 22470 Ltrs. Balance Quantity= 0 Ltrs</p>	<p>Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, D.G.Set and Nimbeti Limestone Mines.</p> <p>Total Quantity generated from April-2016 to March-2017 = 6720 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 6720 Ltrs. Sold-out to registered recycler = 6720 Ltrs. Balance Quantity= 0 Ltrs</p>
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E
SOLID WASTE

		Total Quantity	
		During Previous Financial Year (2015-2016)	During Current Financial Year (2016-2017)
(a)	From Process	NA	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 the unit	100%	100%
	2. Sold	NA	Nil
	3. Disposed	NA	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. The used oil & Lead acid batteries are sold to CPCB authorized recyclers.

Bio-Medical Wastes:

Bio-medical waste generated is common for cement plant, power plant and mines during current financial year April 2016 to March 2017 under the Bio-Medical Waste (Management & Handling) Rules 2016, are as follows.

	Bio-Medical Waste Quantity (Kg) as per Colour Coding			
	Red	Blue/White	Yellow	Black
April 2016 to March 2017	39.44	39.19	40.31	39.96

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 (2015-2016)	During Current Financial Year (2016-2017)
From Process	Nil	1370 Kg.
From Pollution Control Facility	Nil	Nil

Solid Wastes: - N.A.

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, power plant and mines -

1	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	During 1 st Apr 2016 to 31 st Mar 2017	
	Category:	(i) No. of Batteries	(i) No. of Batteries
	(i) Automotive		
	a) Four wheeler	163	6.41
	b) Two wheeler	Nil	Nil
	(ii) Industrial		
	a) UPS	66	0.536
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
Total	229 Nos	6.946 MT	
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 2016 to 31 st Mar 2017	
	Category:	(i) No. of Batteries	(i) No. of Batteries
	(i) Automotive		
	a) Four wheeler	140	4.952
	b) Two wheeler	Nil	Nil
	(ii) Industrial	Nil	Nil
	a) UPS	291	2.328
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
Total	431 Nos.	7.28 MT	

Used battery scrap was sent to CPCB authorized recycler

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

M/s Shree Cement Limited 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 equipment like ESPs, 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 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. Plantation has been carried out in an area of around 63.8 hectare with (Total land: 187.56 hc.)165311 trees, which is ~34 % of the total land of plant area.

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.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil deptt. taking care of House keeping.
5. Horticulture Department is taking care of tree plantation and green belt development. Every year we are doing tree plantation.
6. Conversion of ESP to Bag House has been done in Raw Mill and Kiln stack.

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
-

Shree Cement Ltd, Ras
Unit-VII
Stack Emission Report (PM All values in mg/Nm³)
Year: 2016-17

S. No.	Month	Raw Mill & Kiln Stack	Coal Mill Stack	Cooler Stack
1	Apr-16	20	12	16
2	May-16	20	13	24
3	Jun-16	26	11	18
4	Jul-16	26	18	11
5	Aug-16	14	19	22
6	Sep-16	24	12	10
7	Oct-16	10	17	22
8	Nov-16	12	16	11
9	Dec-16	10	18	20
10	Jan-17	8	14	22
11	Feb-17	9	17	16
12	Mar-17	7	13	12
Average		16	15	17

Annexure: 2

Shree Cement Ltd, Ras																									
Ambient Air Quality ($\mu\text{g}/\text{M}^3$) & Noise Level Monitoring Report For The Period Of April 2016 To Mar 2017																									
Common for Cement plant & Power plant																									
Year:-2016-2017																									
Location	Plant Boundary Near Main Gate						Plant Boundary Near Mess						Plant Boundary towards Stack & Reclaimer						Plant boundary towards village Khera & Jawangarh						
	AAQ in $\mu\text{g}/\text{M}^3$				Noise Level in dB(A)		AAQ in $\mu\text{g}/\text{M}^3$				Noise Level in dB(A)		AAQ in $\mu\text{g}/\text{M}^3$				Noise Level in dB(A)		AAQ in $\mu\text{g}/\text{M}^3$				Noise Level in dB(A)		
Parameter	PM 2.5	PM-10	SO ₂	NO ₂	Day time	Night time	PM 2.5	PM 10	SO ₂	NO ₂	Day time	Night time	PM 2.5	PM 10	SO ₂	NO ₂	Day time	Night time	PM 2.5	PM 10	SO ₂	NO ₂	Day time	Night time	
Apr-16	20.	38.7	8.6	10.7	59.6	50.7	21.8	40.9	9.2	11.2	62.1	53.6	27.6	39.3	8.5	10.5	61.3	52.2	23.3	39.2	8.8	10.8	62.8	51.6	
May-16	31.	51.4	8.4	9.8	60.1	49.6	34.5	49.9	8.5	10.3	65.3	52.3	36.0	50.8	8.1	9.7	60.0	51.6	32.0	49.3	8.6	10.0	67.5	52.2	
Jun-16	33.	56.5	11.3	10.9	71.1	61.2	40.4	55.0	9.5	11.4	69.5	55.2	41.4	51.8	9.9	11.0	72.2	54.2	32.1	53.9	10.4	11.1	65.3	55.3	
Jul-16	33.	51.6	11.2	11.0	72.1	60.8	39.1	51.5	10.4	11.5	70.4	56.4	40.4	49.1	10.4	11.1	73.1	55.2	33.8	50.3	10.4	11.1	66.4	55.4	
Aug-16	27.	46.0	9.3	10.9	72.1	59.4	26.4	45.0	9.9	11.4	70.5	58.4	27.4	46.0	9.4	10.9	71.5	55.4	25.8	43.9	9.5	11.0	70.9	56.1	
Sep-16	28.	47.0	10.3	10.5	73.1	61.1	27.0	45.9	11.2	11.3	71.1	57.1	27.8	46.6	10.5	10.8	72.4	54.4	25.4	44.4	10.6	10.8	67.2	55	
Oct-16	34.	55.5	10.7	12.7	72.4	62.4	34.1	53.8	11.3	12.1	71.9	59.1	31.1	50.6	10.7	11.9	72.1	59.4	30.3	49.8	10.8	11.8	68.5	58.1	
Nov-16	35.	56.1	12.3	11.6	71.5	64.8	33.4	51.3	12.1	11.8	70.6	60.1	30.3	47.8	11.8	11.3	71.9	61.4	29.5	46.5	11.6	11.4	67.6	57.3	
Dec-16	36.	53.9	11.6	12.3	70.2	65.4	31.6	50.3	12.1	12.2	68.1	61.7	30.6	48.4	11.4	11.1	72.6	63.1	29.5	47.0	11.3	11.2	66.1	58.4	
Jan-17	37.	58.5	11.8	13.1	71.2	67.5	33.5	53.5	11.4	12.6	67.8	62.6	31.5	51.8	10.5	11.7	71.5	62.4	30.0	49.1	10.7	11.5	67.5	57.8	
Feb-17	38.	59.3	11.1	12.7	72.5	68.1	35.1	54.5	10.7	12.0	68.9	63.4	31.9	51.0	9.8	11.1	72.3	61.6	29.6	47.8	9.5	10.8	69.1	58.6	
Mar-17	37.	56.5	10.9	12.5	71.2	65.3	34.8	54.0	10.4	11.8	69	62.2	31.4	49.9	9.6	10.9	71.2	60.6	29.0	46.1	9.3	10.6	70.2	59.3	
Average	32.9	52.6	10.6	11.6	69.8	61.4	32.6	50.5	10.6	11.6	68.8	58.5	32.3	48.6	10.1	11.0	70.2	57.6	29.2	47.3	10.1	11.0	67.4	56.3	

Annexure: 3

(STP Treated Water Quality, Year 2016-2017)														
S. No.	Parameter	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Avg
1	pH	7.2	7.1	6.9	6.9	7.0	7.2	7.3	7.2	7.5	7.3	7.2	7.2	7.2
2	Suspended Solids	60.1	58.3	56.5	57.8	55.4	56.8	60.4	58.4	60.1	55.8	68.4	75.9	60.3
3	Oil and Grease	0.1	0.1	0.1	0.7	0.9	0.8	0.7	1.2	1.1	0.9	1.1	1.5	0.8
4	BOD 3days 27°C	10.3	10.2	9.5	10.1	10.5	11.8	18.1	17.3	20.1	18.2	17.6	19.1	14.4
5	COD	80.5	79.5	77.5	81.2	78.4	70.4	64.2	61.5	68.4	57.1	61.5	57.4	69.8