O/C

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Phone : 01462 228101-6
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E-Mail : shreebwr@shreecementltd.com
Website : www.shreecement.in

SHREE CEMENT LTD.

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

ISO 9001 BSI REGISTERED FM 66532 | OHSAS 18001 BSI REGISTERED OHS 83062 | ISO 14001 BSI REGISTERED EMS 72663

SCL/Ras/Unit-VIII/Env. Statement/2016-17/ 8579 Date: 20/09/2016

To,

File No. C-092

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

Sub: - Environmental Statement for the period from April 2015 to March 2016 for Cement Plant Unit-VIII of M/s Shree Cement Limited situated at Village- Ras Bhimgarh, Tehsil- Jaitaran, Dist- Pali (Raj).

Ref: - CTO No. - F (Tech)/ Pali (Jaitaran)/2 (1)/ 2008-2009/5214-5217 dated: 18/09/2014.

Sir,
We are submitting herewith Environmental Statement for the period from April 2015 to March 2016 for Cement Plant Unit-VIII (Without Cement grinding) of M/s Shree Cement Limited situated at Village- Ras Bhimgarh, 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)

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 Deptt. Ras

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
Phone : 011 23370828, 23379218, 23370776, Fax : 011 23370499
CORP. OFFICE : 21, Strand Road, Kolkata 700 001 Phone : 033-22309601-4 Fax : 033 22434226

ENVIRONMENTAL STATEMENT
M/s Shree Cement Limited: Unit- VIII
Period from : April 2015 to : March 2016

FORM – V

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Cement Plant Unit-VIII 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	2010
5.	Date of the last Environmental Statement Submitted	20/09/2015

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	:	34022 KL
Domestic	:	71710 KL (Common for Cement Plant & Power Plant)

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year (2014-2015)	During Current Financial Year (2015-2016)
Clinker	0.0604 KL/MT of Clinker	0.0314 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 (2014-2015)	During Current Financial Year (2015-2016)
1. Limestone	Clinker	1.484	1.488
2. Laterite/Iron Ore		0.021	0.018
3. Zinc Slag		0.005	0.003
4. Sweetener/ HG Limestone /Sand/Fly ash/ Sludge (in raw mill)		0.000	0.0002
5. Coal & Pet Coke		0.102	0.96
6. Agro(In Kiln)		Nil	0.001
7.AFR (Hazardous Waste)		Nil	0.00009

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

During Previous Financial Year (2014-2015)	During Current Financial Year (2015-2016)
57.25	56.54

(IV) TOTAL CLINKER PRODUCTION (MT):

During Previous Financial Year (2014-2015)	During Current Financial Year (2015-2016)
1018908	1083030

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 (2014-2015)	**During Current Financial Year (2015-2016)**
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)	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, D.G.Set and Nimbeti Limestone Mines. Total Quantity generated from April-2014 to March-2015 = 18480 Ltrs. Old Stock = 2730 Ltrs. Total Used oil = 21210 Ltrs. Sold-out to registered recycler = 21210 Ltrs. Balance Quantity= 0 Ltrs .	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, D.G.Set and Nimbeti Limestone Mines. 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
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E
SOLID WASTE

		Total Quantity	
		During Previous Financial Year (2014-2015)	**During Current Financial Year (2015-2016)**
(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 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". 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 2015 to March 2016 under the Bio-Medical Waste (Management & Handling) Rules 2016, are as follows.

	Bio-Medical Waste Quantity (Kg) as per Colour Coding			
	Red (Cat 3 & 6)	**Blue (Cat 4 & 7)**	**Yellow (Cat 1 & 2)**	**Black (Cat 5,9,10)**
April 2015 to March 2016	25.38	38.7	47.41	26.05

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 **(2014-2015)**	During Current Financial Year **(2015-2016)**
From Process	820 Kg	Nil
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 1st Apr 2015 to 31st Mar 2016	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	145	6.050
	b) Two wheeler	Nil	Nil
	(ii) Industrial		
	a) UPS	294	2.352
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	**439 Nos**	**8.402 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 1st Apr 2015 to 31st Mar 2016	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	128	6.738
	b) Two wheeler	Nil	Nil
	(ii) Industrial	Nil	Nil
	a) UPS	834	6.512
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	**962 Nos.**	**13.25 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 being 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, SO_2 and NO_2) & Ambient Noise Level monitoring report

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Annexure: 1

Shree Cement Ltd, Ras

Unit-VIII

Stack Emission Report (PM All values in mg/Nm^3)

Year: 2015-16

S. No.	Month	Raw Mill & Kiln Stack	Coal Mill Stack	Cooler Stack
1	Apr-15	27.0	29.0	26.0
2	May-15	26.0	28.0	25.0
3	Jun-15	25.0	24.0	26.0
4	Jul-15	31.0	32.0	27.0
5	Aug-15	29.0	31.0	28.0
6	Sep-15	28.0	30.0	31.0
7	Oct-15	28.0	29.0	26.0
8	Nov-15	25.0	18.0	17.0
9	Dec-15	18.0	17.0	15.0
10	Jan-16	21.0	23.0	19.0
11	Feb-16	27.0	10.0	11.0
12	Mar-16	27.2	12.0	10.3
Average		26	24	22

Annexure: 2

Shree Cement Ltd, Ras

Ambient Air Quality (µg/M^3)& Noise Level Monitoring Report For The Period Of April 2015 To Mar 2016

Common for Cement plant & Power plant

Year:-2015-2016

Location →	Plant Boundary Near Main Gate						Plant Boundary Near Mess						Plant Boundary towards Stacker & Reclaimer						Plant boundary towards village Khera & Jawangarh					
	AAQ in µg/M^3				Noise Level in dB(A)		AAQ in µg/M^3				Noise Level in dB(A)		AAQ in µg/M^3				Noise Level in dB(A)		AAQ in µg/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-15	24.	45.9	8.9	11.5	67.5	54.2	24.9	45.9	8.9	11.5	66.1	57.1	29.8	51.9	8.8	11.4	67.2	62	28.3	52.4	9.0	11.6	67.1	57.1
May-15	23.	45.4	8.7	11.2	66.5	54.3	28.1	48.9	9.3	11.7	66.1	56	28.8	51.3	8.6	11.0	65.1	61	27.8	51.3	8.8	11.3	66.2	56.1
Jun-15	23.	44.5	8.5	11.0	64.0	52.1	27.4	46.8	9.1	11.5	65.1	55.1	27.9	49.8	8.4	10.8	66.3	62	26.4	49.9	8.6	11.0	65.1	55.1
Jul-15	23.	46.0	8.8	11.0	63.5	57.2	25.1	48.3	9.4	11.5	66.9	59.5	28.1	49.6	8.7	10.8	64.7	58.9	26.1	48.9	8.9	11.0	64.2	56.3
Aug-15	23.	44.1	8.5	10.9	63.1	53.1	27.5	45.5	9.0	11.4	64.1	57.2	27.1	48.6	8.3	10.7	65.1	59	26.8	49.9	8.6	10.9	66	56
Sep-15	22.	43.0	8.3	10.8	62.8	54.2	28.1	45.0	8.9	11.3	65.7	58.6	26.5	47.9	8.2	10.6	66.3	60.1	26.8	48.1	8.4	10.8	64.8	58.2
Oct-15	23.	44.3	8.8	10.9	63.8	55.3	28.0	46.8	9.4	11.3	66.4	59.2	26.6	47.0	8.7	10.7	67.2	61.2	26.4	48.6	8.9	10.9	65.8	59.6
Nov-15	24.	42.4	8.9	10.9	62.2	56.2	28.0	47.0	9.5	11.4	65.3	55.8	28.0	48.0	9.0	11.0	66.3	56.3	25.0	48.0	9.0	11.0	65.1	56.7
Dec-15	24.	42.4	8.9	10.9	61.3	55.2	28.0	47.0	9.5	11.4	64.6	53.5	26.6	46.1	8.8	10.8	67.2	56.3	24.6	46.6	8.9	10.9	63.1	55.3
Jan-16	25.	45.9	8.9	11.1	62.5	54.6	24.0	45.4	9.4	11.6	65.4	55.8	27.8	47.6	8.8	11.0	66.9	57.2	25.6	47.3	9.0	11.2	64.1	56.3
Feb-16	24.	43.9	8.8	11.3	61.0	50.1	23.5	46.0	9.4	11.7	62.5	57.6	28.3	46.4	8.7	11.2	60.3	52.3	26.1	45.8	8.9	11.3	65.3	53.2
Mar-16	24.	42.3	8.8	11.1	58.3	49.6	24.5	44.5	9.4	11.5	61.2	54.6	29.4	43.5	8.7	11.0	56.2	51.2	26.5	43.8	8.9	11.1	62.3	52.1
Average	**24.**	**44.2**	**8.7**	**11.0**	**63.0**	**53.8**	**26.4**	**46.4**	**9.3**	**11.5**	**65.0**	**56.7**	**27.9**	**48.1**	**8.6**	**10.9**	**64.9**	**58.1**	**26.3**	**48.4**	**8.8**	**11.1**	**64.9**	**56.0**

Annexure: 3

(STP Treated Water Quality, Year 2015-2016)													
S. No.	Parameter ↓	Apr-15	May-15	Jun-15	July-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Avg.
1	pH	7.5	7.3	7.4	7.5	7.3	7.8	7.6	7.4	7.5	7.6	6.8	6.9	**7.4**
2	Suspended Solids	60.1	59.1	58.2	59.7	59.1	52.4	54.2	55.4	57.0	56.8	58.1	59.1	**57.4**
3	Oil and Grease	0.3	0.2	0.1	0.4	0.1	0.2	0.3	0.2	0.3	0.4	0.2	0.1	**0.2**
4	BOD 3days 27°C	17.1	16.5	15.5	14.8	14.2	12.3	11.3	12.1	13.8	12.8	11.8	11.5	**13.6**
5	COD	71.2	70.1	69.1	70.2	70.2	67.9	68.4	72.3	71.3	72.4	80.1	75.3	**71.5**