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SHREE CEMENT LTD.

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

SCL/Ras/Unit-V/Env. Statement/2011-12/

Date: 20/9/2011
Regd. A.D

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

Sub: - Environmental Statement for the period from April, 2010 to March, 2011 for Cement Plant Unit- V of M/s Shree Cement Limited; situated at Village: Ras/ Bhimgarh, Tehsil: Jaitaran, Dist: Pali (Raj).

Ref: - Consent to operate letter No.-
F (Tech)/ Pali (Jaitaran)/2 (1)/ 2008-2009/ 372 dated : 22/04/2009

Sir,
We are submitting herewith Environmental Statement Report for the period from April, 2010 to March, 2011 for Cement Plant Unit- V of M/s Shree Cement Limited; situated at Vill: Ras / Bhimgarh, Tehsil: Jaitaran, Dist: Pali (Raj).

This is for your kind information please.

Thanking you,

Yours faithfully,

For Shree Cement Ltd;

(Rakesh Bhargava)
Jt. 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 – 22602 (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.)

JAIPUR OFFICE : A-6, Yudhishter Marg, Opp. Yojana Bhawan, C-Scheme, Jaipur 302 005
Phone : 0141 2382340, 2223917, 2223918 Fax 0141 2224841

ENVIRONMENTAL STATEMENT
M/s Shree Cement Limited: Unit- V
Period from : April, 2010 to : March, 2011

FORM – V

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Cement Plant Unit-V 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 MTPA Clinker 2.2 MTPA Cement
4.	Year of Establishment	2007
5.	Date of the last Environmental Audit Report submitted	20/9/2010

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	:	76014 KL
Domestic	:	73881 KL (Common for Cement Plant & Power Plant)

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year (2009-2010)	During Current Financial Year (2010-2011)
Clinker	0.11 KL / MT of Clinker	0.073 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 Previous Financial Year (2009-2010)	During Current Financial Year (2010-2011)
1. Limestone	Clinker	1.455	1.456
2. Laterite/Iron Ore		0.001	0.000
3. Zinc Slag		0.042	0.041
4. Sweetener/HG Limestone/ Sand/ Fly ash (in Raw mill)		0.000	0.000
5. Coal & Pet Coke		0.110	0.101

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

During Previous Financial Year (2009-2010)	During Current Financial Year (2010-2011)
54.93	62

(IV) TOTAL CLINKER PRODUCTION (MT):

During Previous Financial Year (2009-2010)	During Current Financial Year (2010-2011)
1112570	1034431

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 disposed off in soak pit via septic tank.	
(b)	Air	Please refer Annexure – 1 & 2	

PART – D

HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rule, 2010)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year (2009-2010)	During Current Financial Year (2010-2011)
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)	We are having common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, D.G.Set and Nimbeti Limestone Mines Section wise used oil generation from April, 2009 to March, 2010 is given as below:- Cement Plant : 11092 Ltrs. Power Plant : 184 Ltrs. D.G. Set : Nil Mines : 25715 Ltrs. Old Stock : 8475 Ltrs. Total : 45466 Ltrs. Out of 45466 Ltrs., 23100 Ltrs. sell-out to authorized recyclers and rest 12387 Ltrs. self reused for lubrication in chains, Stacker & Reclaimer and balance was 9979 Ltrs.	We are having common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, D.G.Set and Nimbeti Limestone Mines. Total quantity generated from April, 2010 to March, 2011 = 34440 Ltrs. Old Stock = 9979 Ltrs. Total = 44419 Ltrs. Sold-out to authorized recyclers = 34020 Ltrs. Balance quantity = 10399 Ltrs.
(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 ESPs, Bag Houses and Bag Filters are recycled to the system.	
(c)	1. Quantity rejected or re- utilized within the unit	Nil	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 is sold to CPCB authorized recyclers.

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 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. We have acquired around 187.56 hectare land and upto March, 2011. We have developed the plantation in an area of around 63.8 hectare with around 118205 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, one for monitoring, one for maintenance of pollution control equipment and one for 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 for of House keeping.

5. Horticulture Department is taking care of tree plantation and green belt development. Every year we are doing tree plantation.

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

Annexure-1 : Stack Emission monitoring report.
Annexure-2 : Ambient Air Quality (SPM, PM10, PM2.5, SO_2 and NO_2) & Ambient Noise Level monitoring report

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Annexure: 1

Shree Cement Ltd, Ras

Unit-V

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

Year: 2010-11

S. No.	Month	Raw Mill & Kiln Stack	Coal Mill Stack	Cooler Stack
1	**Apr-10**	39	28	38
2	**May-10**	42	25	36
3	**Jun-10**	37	23	39
4	**Jul-10**	40	25	37
5	**Aug-10**	36	27	31
6	**Sep-10**	41	30	36
7	**Oct-10**	44	28	38
8	**Nov-10**	45	24	39
9	**Dec-10**	46	26	37
10	**Jan-11**	45	28	38
11	**Feb-11**	44	28	37
12	**Mar-11**	43	29	37
Average		**42**	**27**	**37**

Annexure: 2

Shree Cement Ltd, Ras

Ambient Air Quality (µg/M^3)& Noise Level Monitoring Report For The Period Of April 2010 To Sep 2010

Common for Cement plant & Power plant

Year:-2010-2011

Location →	Plant Boundary Near Main Gate					Plant Boundary Near Mess					Plant Boundary towards Stacker & Reclaimer					Plant boundry towards village Khera & Jawangarh				
Parameter →	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)	
Month	SPM	SO_2	NO_2	Day time	Night time	SPM	SO_2	NO_2	Day time	Night time	SPM	SO_2	NO_2	Day time	Night time	SPM	SO_2	NO_2	Day time	Night time
Apr-10	377	9	10	68.5	57.8	323	9	10	64.1	55.3	307	8	10	68.9	58	353	9	10	66.8	57.2
May-10	389	8	9	69.8	59.3	304	8	10	67.2	58.1	327	8	9	69.2	59.0	371	9	10	65.8	56.5
Jun-10	359	8	10	70.3	60.1	324	9	10	68.1	56.5	322	8	9	69.9	60	310	8	9	64.1	53.2
Jul-10	321	8	11	71.5	61.4	296	9	10	66.5	55.7	271	8	9	70.1	59.2	255	8	10	62.1	51.5
Aug-10	298	9	10	70.2	62.1	254	8	9	65.9	58.3	227	8	10	72	61.9	234	8	9	60.5	54.9
Sep-10	329	8	10	72	60.3	274	8	9	63.5	55.9	307	9	9	69.6	62.1	264	8	10	57.1	48.3
Average	**345**	**8**	**10**	**70.4**	**60.2**	**296**	**8**	**10**	**65.9**	**56.6**	**294**	**8**	**9**	**70.0**	**60.0**	**298**	**8**	**10**	**62.7**	**53.6**

Ambient Air Quality (µg/M^3)& Noise Level Monitoring Report For The Period Of Oct. 2010 To March 2011

Location →	Plant Boundary Near Main Gate						Plant Boundary Near Mess						Plant Boundary towards Stacker & Reclaimer						Plant boundry towards village Khera & Jawangarh					
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
Oct-10	39	61	9	10	68.2	54.7	32	51	7	9	60.8	52.3	34	43	8	10	57.5	48.6	28	46	7	10	65.7	43.2
Nov-10	39	63	9	10	69.5	53.5	32	51	7	10	61.6	54.5	34	43	8	10	58.7	49.3	29	46	7	10	66.5	42.6
Dec-10	36	57	9	10	70	52.1	34	53	8	10	63.4	55.6	37	43	9	10	59.8	51.6	30	49	9	10	67.3	43.8
Jan-11	39	58	9	10	69.8	50.6	35	52	8	10	65.3	54.7	39	58	9	10	58.1	52.8	36	52	9	10	67.3	52.2
Feb-11	39	57	9	10	68.5	51.2	35	49	8	10	64.2	55.6	37	52	9	10	59.4	51.7	26	46	9	10	68.6	53.7
Mar-11	38	57	8	10	67.5	52.6	37	52	8	10	63.8	54.4	39	55	8	9	61.2	52.1	27	44	8	9	65.7	55.8
Average	**38**	**59**	**9**	**10**	**68.9**	**52.5**	**34**	**51**	**8**	**10**	**63.2**	**54.5**	**37**	**49**	**8**	**10**	**59.1**	**51.0**	**29**	**47**	**8**	**10**	**66.9**	**48.6**