O/C

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SHREE CEMENT LTD.

(SURATGARH CEMENT GRINDING UNIT)
NEAR N.H. NO. 15, VILLAGE-UDASAR, P.O. SURATGARH-335804
TEHSIL-SURATGARH, DISTT. SRIGANGANAGAR (RAJ.) INDIA

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

SCL/SGU/ ENV/2017-18/ 9570-9572

Date: 20/09/2018

File No-C-109

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

Sub: - Environmental Statement of M/s Shree Cement Limited situated at village- Udepur-Udasar, Tehsil- Suratgarh, District- Shri Ganganagar (Rajasthan) for the period of 2017-18.

Ref: - CTO no: F (Tech)/GANGANAGAR (SURATGARH)/1(1)/2008-2009/2157-2159 Dated 01/09/2015.

Sir,

Kindly refer to above subject matter and reference letter. In this regards, we are submitting herewith the Environmental Statement of M/s Shree Cement Limited situated at village- Udepur-Udasar, Tehsil- Suratgarh, District- Shri Ganganagar (Rajasthan)for the period of April 2017 to March 2018.

This is for your kind information.

Thanking you,

Yours faithfully,

For Shree Cement Limited, Suratgarh

(Arun Agarwal)
General Manager (Unit In-charge)

Copy to: 1) The Regional Officer, Regional Office, Rajasthan State Pollution Control Board, 33, Phase-II, Bichwal Industrial Area,Bikaner.

2) The Chief Conservator of Forest (C), Ministry of Environment & Forest,Regional Office (Central Region), Kendriya Bhavan, 5th Floor,Sector 'H' Aliganj,Lucknow (U.P.),

BEAWAR OFFICE : Bangur Nagar, Post Box No. 33, Beawar 305 901 (Raj.)
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CORP. OFFICE : 21, Strand Road, Kolkata 700 001 Phone : 033-22309601-5 Fax : 033 22434226

Environmental Statement for Clinker Grinding Unit of M/s Shree Cement Limited, situated at village – Udepur-Udasar, Tehsil- Suratgarh, District -Shri Ganganagar, Rajasthan
From: April, 2017 to March, 2018

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	M/s Shree Cement Ltd, (Grinding Unit) Village – Udepur-Udasar, Tehsil- Suratgarh, District -Shri Ganganagar, Rajasthan
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	2 MTPA Cement
4.	Year of Establishment	2010
5.	Date of the last Environmental Audit Report submitted	28/09/2017

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

Process	:	N.A. (As plant is based on dry Process technology)
Cooling	:	11483 KL
Construction	:	Nil
Domestic	:	31516 KL

Name of Product	Water Consumption per Unit of Product Output(Cement)	
	During Previous Financial Year	During Current Financial Year
Cement	0.0043 KL/ MT of Cement	0.0072 KL/ MT of Cement

(II) RAW MATERIAL CONSUMPTION: (CEMENT PLANT)

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Cement)	
		During Previous Financial Year	During Current Financial Year
1. Clinker	Cement	0.6177	0.5935
2. Gypsum		0.0787	0.0962
3. Fly Ash		0.3036	0.3103

RAW MATERIAL CONSUMPTION: (D.G. SET)

Name of Raw Material	Name of Product	Consumption of Raw Material per unit of Output (Ltrs / KWH)	
		During Previous Financial year	During Current Financial year
Fuel/ Diesel	Power	D.G. not operated so far	

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

During Previous Financial Year (2016-2017)	During Current Financial Year (2017-2018)
Cement Mill	Cement Mill
32.58	30.74

(IV) TOTAL CEMENT PRODUCTION (MT):

During Previous Financial Year	During Current Financial Year
Cement Mill (MT)	Cement Mill (MT)
1643016.0	1594663.0

(V) TOTAL D.G. POWER PRODUCTION (KWH):

During Previous Financial Year	During Current Financial Year
N.A	N.A

PART – C

DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollu-tants	Quantity of Pollutants Discharged	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 Clinker Grinding Unit. The waste water generated from the office toilet and mess is treated by STP and used for plantation purpose	
(b)	Air	Please refer Annexure – 1, 2 & 3	

PART – D

HAZARDOUS WASTE

(As specified under Hazardous & Other Wastes (Management & Trans boundary Movement) Rules amended up to 2016)

Hazardous Waste	Total Quantity (KL)	
	During Previous Financial Year	During Current Financial Year
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 = 4.12 KL Old stock = Nil Total disposal= 4.12 KL Balance quantity= Nil	Total quantity generated = 1.05 KL Old stock = Nil Total disposal= 1.05 KL Balance quantity= Nil
(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	N.A	Nil
(b)	From Pollution Control Facility	Dust collected in the 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 the categories of wastes:

(I) E-Waste:-

Total 1.02 MT E-wastes was generated during year 2017-18. It is sold out to the CPCB authorized recyclers.

(II)Used Oil:-

Used Oil from Machineries / Equipment's. It is store in closed drums at Used Oil storage area and is sold out to the CPCB authorized recyclers time to time.

(III) Bio-Medical waste:-

Bio-medical waste was generated in small quantity at dispensary and was hand over to authorize recycler for incineration/ future treatment. (Annexure-IV)

(IV) Battery waste:-

Battery waste was not generated during year 2017-18.

(V)Hazardous Waste Utilization:-

Cement manufacturing is based on "Dry Process". No Hazardous waste is generated from the process except used oil.

(VI) Solid Wastes utilization: - 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 (Grinding Unit) 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 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

1) Green belt development and tree plantation is our ongoing process. Every year we are doing new tree plantation to increase the bio-diversity of the area. Till date we have developed plantation around 5540 trees & shrubs, this is around 40.1 % green area of the total plant area (14.5 Hect.).
2) Opacity meter installed for continuous stack emission monitoring and data transmitted online to server of CPCB & RPCB.
3) Replacement of HPSV & CFL lamps of plant area with LED lights and saved approx. 20.9 KW/Day.
4) Installation of 03 nos. VFD at bag filters and saved approx. 8.4 KW/Day
5) Replacement of bag filters of cement mill bag house with PTFE bag filters which is long lasting and efficient for emission level below 20 mg/Nm3.
6) Bio composting of kitchen waste received from mess at 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 and Personal & Administration departments taking care for of Housekeeping.

5. Horticulture Section is taking care of tree plantation and green belt development. Every year we are growing new tree plantation.

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

Annexure-I : Ambient Air Quality Report (SPM, SO2 and NOx)
Annexure-II : Stack Emission Report
Annexure-III : Noise level monitoring data
Annexure-IV : Bio-Medical waste generated quantity

ANNEXURE-I

AMBIENT AIR QUALITY (µg/m3) FOR YEAR 2017-18

Location Month	Plant boundary toward truck parking area				Plant boundary behind CCR building.				Plant boundary towards Udepur village.			
	PM10	PM2.5	SO2	NOx	PM10	PM2.5	SO2	NOx	PM10	PM2.5	SO2	NOx
April,17	49	37	14	19	42	31	9	12	46	33	12	16
May,17	47	36	15	17	42	31	8	11	44	34	11	16
June,17	48	37	16	18	42	32	9	13	46	32	13	15
July; 17	46	37	17	18	43	32	9	12	47	32	13	16
August,17	44	34	15	17	40	32	8	13	45	31	12	15
September,17	44	37	16	20	42	31	11	16	47	38	14	15
October,17	48	35	14	18	44	34	12	16	52	39	13	18
November,17	50	39	15	18	46	35	14	17	51	41	16	19
December,17	53	38	13	17	49	36	13	16	57	38	14	17
January,18	49	36	15	16	47	35	12	15	48	34	12	14
February,18	50	38	14	17	45	36	13	16	48	34	13	16
March,18	47	35	11	15	42	30	11	14	44	32	11	16
Average	48	37	15	18	44	33	11	14	48	35	13	16

ANNEXURE-II

STACK EMISSION LEVEL (mg/Nm^3) FOR YEAR 2017-18

Sr. No.	Month	Pollution Control Measures	PM (mg/Nm3)
1	April,17	Bag House	20
2	May,17	Bag House	24
3	June,17	Bag House	23
4	July; 17	Bag House	27
5	August,17	Bag House	22
6	September,17	Bag House	26
7	October,17	Bag House	26
8	November,17	Bag House	24
9	December,17	Bag House	28
10	January,18	Bag House	24
11	February,18	Bag House	25
12	March,18	Bag House	24
Average			**24**

ANNEXURE-III

NOISE LEVEL (Leq-dB (A) FOR YEAR 2017-18

S. No.	Monitoring Location Month	Plant boundary toward truck parking area		Plant boundary behind CCR building		Plant boundary towards Udepur village.	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
01.	April,17	68.9	65.1	65.3	59.3	65.4	62.4
02.	May,17	67.5	64.8	65.2	59.6	66.3	63.1
03.	June,17	68.1	65.2	65.4	58.3	65.9	64.2
04.	July; 17	67.6	64.3	60.8	54.3	64.9	61.5
05.	August,17	67.5	64.8	64.8	59.3	64.3	62.4
06.	September,17	68.9	64.6	61.3	57.6	65.3	62.8
07.	October,17	68.3	63.2	65.8	61.6	67.3	61.4
08.	November,17	67.1	62.4	64.3	60.8	68.3	62.4
09.	December,17	64.2	60.3	62.1	58.6	67.2	61.3
10.	January,18	66.5	60.2	64.8	59.3	66.2	60.8
11.	February,18	68.2	63.2	64.8	60.6	62.9	57.8
12.	March,18	66.2	62.5	63.8	61.2	64.1	59.3
	Average	**67.42**	**63.38**	**64.03**	**59.21**	**65.68**	**61.62**

ANNEXURE-IV

Bio-Medical waste quantity generated during 2017-18

S. No.	Month	BIOMEDICAL WASTE GENERATION & DISPOSAL (Kg)
1	April,17	0.713
2	May,17	0.812
3	June,17	0.743
4	July; 17	0.869
5	August,17	0.762
6	September,17	0.625
7	October,17	0.712
8	November,17	0.696
9	December,17	0.584
10	January,18	0.732
11	February,18	0.715
12	March,18	0.692
	TOTAL	**8.655**