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SHREE CEMENT LTD.

Regd. Office:

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



SCL/BWR/ENV/SK MINES-3 /2018-19/ >684

Date: 25/09/2018

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

Sub:- Environmental Statement of Sheopura- Kesarpura limestone mine situated near Village -Jhak/Lulwa, Tehsil- Masuda, Distt. Ajmer (Raj.) for the period of April 2017- March 2018.

Ref: - CTO No. - F (Mines)/ Ajmer (Masuda)/1161(1)/2017-2018/2761-2765 dated - 03/07/2017.

Dear Sir,

Kindly refer to above subject matter and referred letter. In this regard, we are submitting herewith the Environmental statement of Sheopura- Kesarpura limestone mine.

This is for your kind information please.

Thanking you,
Yours faithfully,

For Shree Cement Ltd;

(Rakesh Bhargava)

Sr. 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 in charge (Regional office), Rajasthan state pollution control board, SPL-II, 5th phase, RIICO Ind area, Kishangarh.

O/C ENVY

JAIPUR OFFICE : SB-187, Babu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur-302 015
Phone : 0141 4241200, 4241204, Fax : 0141 4241219

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bahadurshah 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

FORM – V

M/s Shree Cement Limited – S.K. Mine

Beawar (Rajasthan)

Period from : April, 2017 to : March, 2018

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Sheopura – Kesarpura Limestone mine, Village- Sheopura-Kesarpura Tehsil Beawar, Distt. Ajmer (Raj.) of M/s Shree Cement Ltd., P.B. No. 33, Bangur Nagar, Beawar -305901, distt. Ajmer (Raj.)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	2.0 MTPA
4.	Year of Establishment	1985
5.	Date of the last Environmental Statement submitted	25/09/2017

PART – B

WATER AND RAW MATERIAL CONSUMPTION

1. **WATER CONSUMPTION:**

Process	:	26247 (As plant is based on dry Process technology)
Cooling and dust Suppression	:	N.A.
Domestic	:	176081 KL (Common for Cement Plants & Power Plants)

Name of Product	Process Water Consumption per Unit of limestone Output	
	During Previous Financial Year	During Current Financial Year (KL/MT of Limestone)
Limestone	0.0185	0.025

2. **RAW MATERIAL CONSUMPTION:**

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (MT of Limestone)	
		During Previous Financial Year	During Current Financial Year
		Not Applicable	Not Applicable

3. **POWER CONSUMPTION (KWH/T):**

During Previous Financial Year	During Current Financial Year
1.55	1.47

4. **TOTAL LIMESTONE PRODUCTION (in Lac Tonnes):**

During Previous Financial Year	During Current Financial Year
10.26	10.41

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	Waste water generated from the office toilets is discharged into soak pit via septic tank. Waste water generated from workshop has some traces of oil & grease is separated by passing the water through up flow filter and treated water is used for dust suppression.		
(b) Air	Please refer Annexure 1		

PART – D

HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year (2016-2017)	During Current Financial Year (2017-2018)

<p>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>	<p>We have Common authorization for Hazardous Waste Management & Handling for Unit 1& 2, D.G. Sets, Power Plants, Synthetic Gypsum and Mines</p> <p>Total Quantity generated from April-2016 to March-2017 = 7980 Ltrs. Old Stock = 6930 Ltrs. Total Used oil = 14910 Ltrs. Sold-out to registered recycler = 14910 Ltrs. Balance Quantity= 0 Ltrs</p>	<p>We have Common authorization for Hazardous Waste Management & Handling for Unit 1& 2, D.G. Sets, Power Plants, Synthetic Gypsum and Mines</p> <p>Total Quantity generated from April-2017 to March-2018 = 8400 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 8400 Ltrs. Sold-out to registered recycler = 8400 Ltrs. Balance Quantity= 0 Ltrs</p>
<p>(b) From Pollution Control Facilities</p>	<p>N.A.</p>	<p>N.A.</p>

PART – E
SOLID WASTE

		Total Quantity	
		During Previous Financial Year (2016-2017)	During Current Financial Year (2017-2018)
(a)	From Process	Not Applicable	
(b)	From Pollution Control Facility	Not Applicable	
(c)	1. Quantity rejected or re-utilized within the unit	Not Applicable	
	2. Sold	Not Applicable	
	3. Disposed: During the mining of limestone disposed of overburden (in Lac Tonnes)	3.86	2.59

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:

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 -

	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	During 1 st Apr 2017 to 31 st Mar 2018	
	Common for Unit 1 & 2, Power plants, D.G.Sets, Synthetic Gypsum plant & Mines		
1	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	40	1.328
	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
	Total	40 Nos	1.328 MT
	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 2017 to 31 st Mar 2018	
	Common for Unit 1 & 2, Power plants, D.G.Sets, Synthetic Gypsum plant & Mines		
2	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	36	2.59
	b) Two wheeler	12	0.05
	(ii) Industrial	Nil	Nil
	a) UPS	10	0.6
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	58 Nos.	3.24 MT

Used battery scrap was sent to CPCB authorized recycler

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			
	Yellow	Red	Blue	White
April 2017 to March 2018	262	212	241	0

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 (2016-2017)	During Current Financial Year (2017-2018)
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil
Others (kg)	11.71	0.055

Solid Wastes: Solid waste from the mines is overburden (waste rock) is being handled by shovel & dumper combination from working face and dumped systematically at overburden dump yard. The total overburden generated from April 2017 to March 2018 was 259459.00 Metric Tons.

PART – G

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

1). Low grade limestone is used with high grade limestone for conservation of limestone.

2). Fine mist water spraying system is installed for water spraying on haulage roads.

PART – H

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

1). Blasting is being done by using of shock tube detonators (Down line detonators in combination of Noise less trunk line detonators) which is latest technology available, resulting in reduction of noise level and ground vibration to a great extent.

2). We are using rock breakers for breaking of oversized boulders instead of secondary blasting which eliminated vibration, noise, fly rocks & reducing greenhouse gases which have caused due to secondary blasting.

3). Massive plantation has been carried out within and outside mine lease area. Upto March 2017 total 85766 nos of trees have been planted.

4). Operator independent truck dispatch system has been installed for reducing down time heavy earth equipment thereby reducing emissions.

5). Closed unloading hopper with water sprinkling arrangement is provided for unloading of limestone.

PART – I

ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.

1). Wet drilling is being done.

2). Regular water spraying is being done on haulage roads and near loading places for effective dust suppression.

3). Controlled blasting is being done by the use of non electric down line detonators and noise less trunk line detonators, resulting in reduction of noise level and ground vibrations to a great extent.

4). Secondary rock breaker is used for breaking limestone boulders instead of secondary blasting which is eco friendly.

5). Personal protective equipments (PPEs) provided to all mine employees i.e. dust mask, ear plug & ear muff, eye goggle etc.

6). We are having full fledged environment laboratory for the monitoring of ambient air quality for SPM, RSPM, SO₂ and NO_x and Noise level.

We are enclosing herewith following documents:-

Annexure-1 : Ambient Air Quality

Annexure-2 : Ambient Noise Level monitoring report.

Annexure-3 : Organizational Structure for Environment Management

Ambient air quality emission monitoring Report (All values in mg/Nm³)
Year: 2017-18

S. No.	Month	Near Mines Office				
		PM 10	PM 2.5	SO ₂	NO _x	CO
1	Apr-17	50	24	8	10	BDL
2	May-17	47	29	8	6	BDL
3	Jun-17	49	29	8	8	BDL
4	Jul-17	51	28	9	9	BDL
5	Aug-17	52	29	8	9	BDL
6	Sep-17	51	28	9	9	BDL
7	Oct-17	49	26	8	10	BDL
8	Nov-17	45	22	7	11	BDL
9	Dec-17	47	24	7	9	BDL
10	Jan-18	48	25	8	12	BDL
11	Feb-18	53	29	7	12	BDL
12	Mar-18	56	31	8	13	BDL
Average		50	27	8	10	BDL

Noise level (Leq dB(A)) for the period of April 17- March 18)

S. No.	Month	Near Mines Crusher		Near Mines Phase	
		Day Time	Night Time	Day Time	Night Time
1	Apr-17	65.7	48.8	63.7	49.7
2	May-17	65.9	50.2	66.7	46.2
3	Jun-17	63.7	47.7	65.7	48.5
4	Jul-17	65.2	48.2	66.7	49.7
5	Aug-17	64.8	49.2	69.9	49.8
6	Sep-17	65.3	50.1	63.2	52.1
7	Oct-17	68.2	49.5	61.8	50.2
8	Nov-17	67.5	48.2	63.2	49.9
9	Dec-17	67.5	50.2	62.4	51.8
10	Jan-18	68.1	48.6	63.8	49.2
11	Feb-18	68.4	48.4	64.2	48.7
12	Mar-18	69.3	49.5	66.4	48.5
Average		66.6	49.1	64.8	49.5

Annexure: 3

Organizational structure for Environment Management

We have an Organization structure for Environment Management to carry out implementation of Environment measures envisaged in the EMP as follows:-

MANAGEMENT

↓
Sh. M.K. Garg
A.V.P. (Mines)

↓
Sh. T.K. Dhelawat
Sr. G.M. Mines

S.No.	Name	Designation	Responsibility
1	Sh. Nikhil Mathur	Manager Mines	Environment Management
2	Sh. D.K. Sharma	A.G.M.	Green belt development and Social activity
3	Sh. Rakesh Bhargava	Sr. Vice President	Environment Management
4	Sh. Anil Jain	General Manager	Environment Management
5	Sh. G. P. Sharma	Sr. Manager	Environment Management
6	Sh. Ashish Sharma	Dy. Manager	Environment Management
7	Sh. Vibhor Shrivastava	Sr. Engineer	Environment Management
8	Sh. Adil Habeeb	Sr. Officer	Environment Management
9	Sh. Shakti Singh	Sr. Officer (Horticulture)	Green belt development

