CIN No. : L26943RJ1979PLC001935
Phone : 01462 228101-6
Toll Free : 1800 180 6003 / 6004
Fax : 01462 228117 / 228119
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

SCL/BWR/ENV/SK MINES-3 /2019-20/ 9905 Date: 18/09/2019

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 2018- March 2019.

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;

(Dr. Anil Kumar Trivedi)
Sr. G.M. 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.

ENVIRONMENTAL STATEMENT
FORM – V
M/s Shree Cement Limited – S.K. Mine
Beawar (Rajasthan)
Period from : April, 2018 to : March, 2019

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Sheopura – Kesarpura Limestone mine, Village- Sheopura-KesarpuraTehsilBeawar, 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	:	36816 (As plant is based on dry Process technology)
Cooling and dust Suppression	:	N.A.
Domestic	:	315733 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	0.0246

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	1.57

4. TOTAL LIMESTONE PRODUCTION (in Lac Tonnes):

During Previous Financial Year	During Current Financial Year
10.26	14.90

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 (2017-2018)	**During Current Financial Year (2018-2019)**
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 have Common authorization for Hazardous Waste Management & Handling for Unit 1& 2, D.G. Sets, Power Plants, Synthetic Gypsum and Mines 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	We have Common authorization for Hazardous Waste Management & Handling for Unit 1& 2, D.G. Sets, Power Plants, Synthetic Gypsum and Mines Total Quantity generated from April-2018 to March-2019 = 800 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 800 Ltrs. Sold-out to registered recycler = 0 Ltrs. Quantity Co processed = 800 Ltrs. Balance Quantity= 0 Ltrs
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E

SOLID WASTE

		Total Quantity	
		During Previous Financial Year (2017-2018)	During Current Financial Year (2018-2019)
(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)	2.59	3.79

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 -

1.	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	During 1st Apr 2018 to 31st Mar 2019	
	Common for Unit 1 & 2, Power plants, D.G.Sets, Synthetic Gypsum plant & Mines		
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	119	2.567
	b) Two wheeler	37	1.150
	(ii) Industrial		
	a) UPS	132	2.3803
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	288 **Nos**	6.0973 **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 2018 to 31st Mar 2019	
	Common for Unit 1 & 2, Power plants, D.G.Sets, Synthetic Gypsum plant & Mines		

	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	78	3.276
	b) Two wheeler	16	0.008
	(ii) Industrial	Nil	Nil
	a) UPS	65	0.156
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	**159 Nos.**	**3.440 MT**

Used battery scrap was sent to CPCB authorized recycler

Hazardous Wastes

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 2018 to March 2019 under the Bio-Medical Waste (Management & Handling) Rules 2016, are as follows.

	Bio-Medical Waste Quantity (Kg) as per Color Coding			
	Yellow	**Red**	**Blue**	**White**
April 2018 to March 2019	275	231	259	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 (2017-2018)	During Current Financial Year (2018-2019)
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil
Others (kg)	0.055	0.0

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 2018 to March 2019 was 379863.20 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). Unit is 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 2019 total 88330 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 ecofriendly.

5). Personal protective equipment's (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 NOx 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

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Annexure: 1

Ambient air quality emission monitoring Report (PM All values in mg/Nm^3)
Year: 2018-19

S. No.	Month	Near Mines Office				
		PM 10	PM 2.5	SO_2	NO_2	CO
1	Apr-18	57	32	9	13	BDL
2	May-18	53	34	8.5	10	BDL
3	Jun-18	54	29	9	14	BDL
4	Jul-18	53	29	7	12	BDL
5	Aug-18	50	33	8	11	BDL
6	Sep-18	53	26	11	15	BDL
7	Oct-18	62	33	9	12	BDL
8	Nov-18	62	34	8	12	BDL
9	Dec-18	60	33	7	11	BDL
10	Jan-19	58	45	8	10	BDL
11	Feb-19	59	48	10	8	BDL
12	Mar-19	55	46	8	6	BDL
Average		56.3	35.2	8.5	11.2	BDL

Annexure: 2

Noise level (Leq dB(A)) for the period of April 18- March 19)

S. No.	Month	Near Mines Crusher		Near Mines Phase	
		Day Time	Night Time	Day Time	Night Time
1	Apr-18	69.3	49.5	66.4	48.5
2	May-18	70.4	49.1	67.2	48.7
3	Jun-18	70.5	48.2	67.3	48.6
4	Jul-18	70.8	49.2	66.4	48.1
5	Aug-18	41.3	50.2	65.4	47.8
6	Sep-18	70.9	52.4	66.1	47.5
7	Oct-18	71.6	53.2	67.4	48.3
8	Nov-18	72.3	52.9	68.6	49.5
9	Dec-18	64	54	62	46
10	Jan-19	65.4	49.6	60.2	43.6
11	Feb-19	66.4	48.2	59.4	46.2
12	Mar-19	59.7	46.6	55.8	42.6
Average		66.1	50.3	64.4	47.1

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. Pankaj Agarwal
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. Anil Jain	General Manager	Environment Management
4	Sh. Vinod Paliwal	AGM	Environment Management
5	Sh. G. P. Sharma	Sr. Manager	Environment Management
6	Sh. Ashish Sharma	Dy. Manager	Environment Management
7	Sh. Ramakrishna	Sr. Engineer	Environment Management
8	Sh.Vibhor Shrivastava	Sr. Engineer	Environment Management
9	Sh. Adil Habeeb	Sr. Officer	Environment Management
10	Sh. Shakti Singh	Sr. Officer (Horticulture)	Green belt development