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# SHREE CEMENT LTD.

An ISO 9001, 14001, 45001 & 50001 Certified Company

Regd. Office:

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA

SCL/BWR/ENV/SK MINES-3 /2020-21/ 6/18

Date: 22/09/2020

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

Sub:- Environmental Statement Report of Sheopura- Kesarpura Limestone Mine situated near Village –Jhak/Lulwa, Tehsil- Masuda, Distt. - Ajmer (Raj.) for the period of April 2019- March 2020.

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

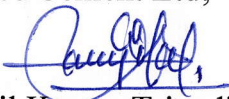
Dear Sir,

Kindly refer to above subject matter and referred letter. In this regard, we are submitting herewith the Environmental Statement Report of Sheopura- Kesarpura Limestone Mine situated near Village –Jhak/Lulwa, Tehsil- Masuda, Distt. - Ajmer (Raj.) for the period of April 2019- March 2020.

This is for your kind information please.

Thanking you,  
Yours faithfully,

For Shree Cement Ltd;

for,   
(Dr. Anil Kumar Trivedi)  
Sr. G.M. Environment

Copy to:-

1. Chief Conservator of Forests (Central), Ministry of Environment, Forests & Climate Change, Central Regional Office, Kendriya Bhawan, 5<sup>th</sup> Floor, Sector II, Aliganj, Lucknow – 226024(U.P.)
2. The in charge (Regional office), Rajasthan State Pollution Control Board, SPL-II, 5th phase, RIICO Industrial Area, Kishangarh, Ajmer (Raj).

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015  
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# OFFICE OF THE ATTORNEY GENERAL

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COAST OFFICE: 21 Third Street, Boston, Mass. - Tel. 4-2111  
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## **ENVIRONMENTAL STATEMENT**

### **FORM – V**

**M/s Shree Cement Limited – S.K. Mine**

**Beawar (Rajasthan)**

**Period from : April, 2019 to : March, 2020**

### **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	18/09/2019

### **PART – B**

## **WATER AND RAW MATERIAL CONSUMPTION**

### **1. WATER CONSUMPTION:**

Process	:	32325 (As Mine is operating based on dry process technology)
Cooling and dust Suppression	:	N.A.
Domestic	:	265923 KL (Common for Cement Plants & Power Plants)

Name of Product	Process Water Consumption per Unit of Limestone Output	
	During Previous Financial Year (2018-19) (KL/MT of Limestone)	During Current Financial Year (2019-20) (KL/MT of Limestone)
Limestone	0.0246	0.0233



**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 (2018-19)	During Current Financial Year (2019-20)
Not applicable, as only limestone excavation is being done from this mine.	Limestone	Not Applicable	Not Applicable

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

During Previous Financial Year (2018-19)	During Current Financial Year (2019-20)
1.57	1.81

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

During Previous Financial Year (2018-19)	During Current Financial Year (2019-20)
14.90	13.85

**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	No waste water generated from the mining process. Waste water generated from the office toilets is disposed into soak pit via septic tank. Waste water generated from mines workshop has some traces of oil & grease is being separated by passing the water through up flow filter and treated water is used for dust suppression on unpaved haul roads.		
(b) Air	Please refer Annexure 1		



## **PART – D**

### **HAZARDOUS WASTE**

(As specified under Hazardous & Other Wastes (Management & Trans boundary Movement Rule, 2016) & Amendment rule, 2019.

<b>Hazardous Waste</b>	<b>Total Quantity (Ltrs.)</b>	
	<b>During Previous Financial Year (2018-2019)</b>	<b>During Current Financial Year (2019-2020)</b>
a) From Process (Limestone Excavation is based on “Dry Process” No Hazardous waste is generated from the mining process except used oil which is drained from Machinery / Equipments)	<p>We have Common authorization for Hazardous Waste Management &amp; Handling for Cement Plant (Unit 1 &amp; 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines.</p> <p>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</p>	<p>We have Common authorization for Hazardous Waste Management &amp; Handling for Cement Plant (Unit 1 &amp; 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines.</p> <p>Total Quantity generated from April-2019 to March-2020 = 1200 Ltrs.  Old Stock = 0 Ltrs.  Total Used oil = 1200 Ltrs.  Sold-out to registered recycler = 0 Ltrs.  Quantity Co- processed = 1200 Ltrs.  Balance Quantity= 0 Ltrs</p>
(b) From Pollution Control Facilities	N.A.	N.A.

## **PART – E**

### **SOLID WASTE**

		<b>Total Quantity</b>	
		<b>During Previous Financial Year (2018-2019)</b>	<b>During Current Financial Year (2019-2020)</b>
(a)	From Process	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% reutilized within the unit.	
	2. Sold	Not Applicable	
	3. Disposed: During the mining of limestone disposed of overburden (in Lac Tonnes)	3.79	4.50

### **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 (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines:-

1.	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	During 1 <sup>st</sup> Apr 2019 to 31 <sup>st</sup> Mar 2020	
	Common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines		
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	84	0.915
	b) Two wheeler	10	0.296
	(ii) Industrial		
	a) UPS	120	1.0
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	214 Nos	2.211 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 1 <sup>st</sup> Apr. 2019 to 31 <sup>st</sup> Mar. 2020	



Common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines		
Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
(i) Automotive		
a) Four wheeler	105	5.82
b) Two wheeler	30	0.345
(ii) Industrial	Nil	Nil
a) UPS	212	2.575
b) Motive Power	Nil	Nil
c) Stand –by	Nil	Nil
(iii) Others	Nil	Nil
Total	<b>347Nos.</b>	<b>8.74 MT</b>

Used battery scrap was sent to CPCB authorized recycler

### **Hazardous Wastes**

No Hazardous waste is generated from the mining process except used oil which is drained from Machineries / Equipments. The used oil & Lead acid batteries are sold to CPCB authorized recyclers and used oil also co-processed in cement kiln.

### **Bio-Medical Wastes:**

Bio-medical waste generated is common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines during previous and current financial year under the Bio-Medical Waste (Management & Handling) Rules 2016 & amended on 2019, are as follows:

Bio-Medical Waste Quantity (Kg) as per Color Coding							
During Previous Financial Year (April 2018 to March 2019)				During Current Financial Year (April 2019 to March 2020)			
Yellow	Red	Blue	White	Yellow	Red	Blue	White
275	231	259	0.0	282	219	247	0.0

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 Year (2018-2019)	During Current Financial Year (2019-2020)
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil
Others (kg)	0.0	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 2019 to March 2020 was 450472 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 2020, the total 88860 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). Regular monitoring of ambient air quality for PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> NO<sub>2</sub> & CO and Noise level is being done at Mines. An environmental laboratory is exist for the same.

Following documents/ annexures are enclosed herewith for ready reference:-

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**

**1. Ambient Air Quality Monitoring Results (All values in  $\mu\text{g}/\text{m}^3$  except CO  
i.e.  $\text{mg}/\text{m}^3$ )**  
**Year: 2019-20**

S. No.	Month	Near Mines Office				
		PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>2</sub>	CO
1	Apr-19	52	42	7	10	BDL
2	May-19	59	45	12	11	BDL
3	Jun-19	58	42	11	10	BDL
4	Jul-19	59	45	12	11	BDL
5	Aug-19	62	51	8	10	BDL
6	Sep-19	54	33	11	12	BDL
7	Oct-19	59	33	7	7	BDL
8	Nov-19	57	25	6	8	BDL
9	Dec-19	52	30	10	12	BDL
10	Jan-20	55	29	12	11	BDL
11	Feb-20	49	32	19	12	BDL
12	Mar-20	46	28	8	8	BDL
Average		55.17	36.25	10.25	10.17	BDL



## Noise level (Leq dB(A)) for the period of April 19- March 20)

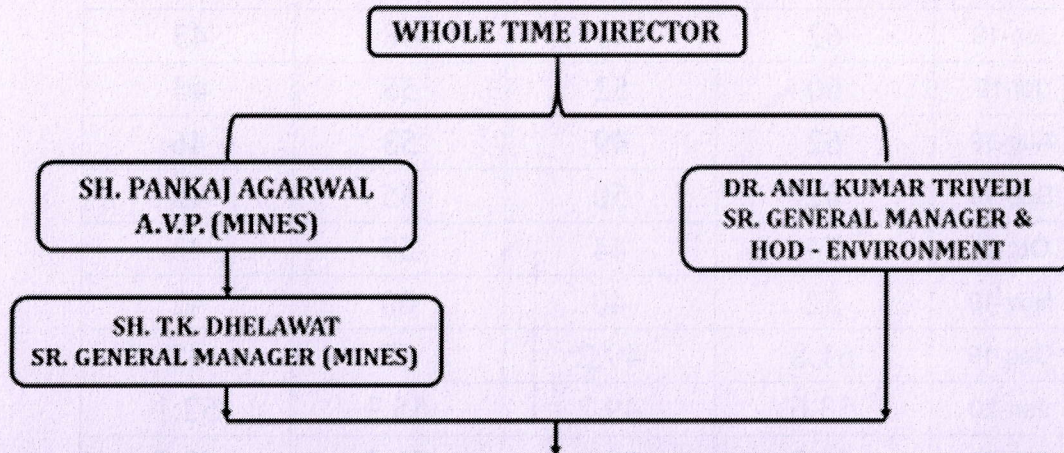
S. No.	Month	Near Mines Crusher		Near Mines Phase	
		Day Time	Night Time	Day Time	Night Time
1	Apr-19	58	48	59	45
2	May-19	61	52	51	45
3	Jun-19	62	51	48	43
4	Jul-19	60	52	55	45
5	Aug-19	62	49	53	46
6	Sep-19	62	50	55	45
7	Oct-19	54	44	59	43
8	Nov-19	52	40	60	42
9	Dec-19	61.8	49.2	57	42
10	Jan-20	53.6	49.2	55.3	52.1
11	Feb-20	51.2	48.8	51.7	49.7
12	Mar-20	50.4	49.6	51.2	50.7
<b>Average</b>		57.33	48.57	54.60	45.71



### 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:-

#### ORGANIZATIONAL STRUCTURE FOR ENVIRONMENT MANAGEMENT



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. Adil Habeeb	Sr. Officer	Environment Management
4	Sh. Shakti Singh	Sr. Officer (Horticulture)	Green belt development
5	Gaurav Shrimal	Sr. Officer	Environment Management