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Phone : 01462 228101-6
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O/C

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/Shyamgarh/2021-22/ 7119 Date: 27/09/2021

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

Sub: - Submission of Environmental Statement Report of Shyamgarh Limestone (M.L. No.8/99) of M/s Shree Cement Ltd, Village – Andheri Deori, Tehsil Masuda, District Ajmer (Raj) for the FY-2020-2021 (April-2020 to March-2021) under environment protection Act, 1986.

Ref: - CTO letter no. F (Mines)/Ajmer (Masuda)/1174(1)/2019-2020/226-230 dated 22/04/2019.

Dear Sir,

With reference to the above subject and referred CTO letter, we are submitting herewith the Environmental Statement (in Form-V) as per Rule 14 of EP Rules, 1986 of Shyamgarh Limestone (M.L. No.8/99) of M/s Shree Cement Limited situated Near Village – Andheri Deori, Tehsil Masuda, District Ajmer (Raj). For the period from 1st April 2020 to 31st March 2021.

Submitted for your kind information and record please.

Thanking you,
Yours faithfully,

For Shree Cement Ltd;

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

Copy to:-

1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur , A-209&218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan.
2. The in charge (Regional office), Rajasthan State Pollution Control Board, SPL-II, 5th phase, RIICO Industrial Area, Kishangarh, Ajmer (Raj).

ENVIRONMENTAL STATEMENT
FORM – V
M/s Shree Cement Limited – Shyamgarh Limestone Mine.
Beawar (Rajasthan)
Period from : April, 2020 to : March, 2021

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Shyamgarh Limestone Mine located at near Village-Shyamgarh Neemgarh, Tehsil-Masuda, District-Ajmer (M.L.No. 8/99). 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	2020
5.	Date of the last Environmental Statement submitted	-

PART – B

WATER AND RAW MATERIAL CONSUMPTION

1. **WATER CONSUMPTION:**

Process	:	28814 (As Mine is operating based on dry process technology common)
Cooling and dust Suppression	:	N.A.
Domestic	:	224047 KL (Common for Cement Plants Mines & Power Plants)

Name of Product	Process Water Consumption per Unit of Limestone Output	
	During Current Financial Year (2019-20) (KL/MT of Limestone)	During Current Financial Year (2020-21) (KL/MT of Limestone)
Limestone	-	0.0295

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 (2019-20)	During Current Financial Year (2020-21)
-	0.011

4. TOTAL LIMESTONE PRODUCTION (in Lac Tonnes):

During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
-	9.74

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. There is no industrial waste water generation. Maintenance of HEMMs and other vehicles is being carried out in our existing SK mines workshop.		
(b) Air	Please refer **Annexure 1**		
(c) Noise	Please refer **Annexure-2**		

PART – D

HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2019-2020)	**During Current Financial Year (2020-2021)**
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)	We have Common authorization for Hazardous Waste Management & Handling for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines. 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	For Hazardous Waste Management & Handling for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines. Total Quantity generated from April-2020 to March-2021 = 12600 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 12600 Ltrs. Sold-out to registered recycler = 12600 Ltrs. Quantity Co- processed = 0 Ltrs. Balance Quantity= 0 Ltrs
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E

SOLID WASTE

		Total Quantity	
		During Previous Financial Year (2019-2020)	**During Current Financial Year (2020-2021)**
(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)	-	1.55

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:-

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. 2020 to 31st Mar. 2021
	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	85	3.570
	b) Two wheeler	15	0.030
	(ii) Industrial	Nil	Nil
	a) UPS	133	2.660
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	**233 Nos.**	**6.26 MT**

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 / Equipment's. 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 2019 to March 2020)				**During Current Financial Year (April 2020 to March 2021)**			
Yellow	**Red**	**Blue**	**White**	**Yellow**	**Red**	**Blue**	**White**
282	**219**	**247**	**0.0**	**234**	**205**	**211**	**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 Current Financial Year **(2019-2020)**	During Current Financial Year **(2020-2021)**
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil
Others (kg)	0.0	11.86

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 2020 to March 2021 was 1.55 Lac 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. Up to March 2021, the total 2720 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.

Environment expenditure incurred in the year of 2020-21 (April -2020 to March-2021) was 4.48 (cost in lac). The expenditure in same heads is proposed for next year.

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_{10}, $PM_{2.5}$, SO_2 NO_2 & 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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1. Ambient Air Quality Monitoring Results (All values in $\mu g/m^3$)
Year: 2020-21

Annex-1

S. No.	Month	Near Village-Khetakhera				Near Village-Shyamgarh				Near Village-Karwai				Near Village-Neemgarh			
		PM 10	PM 2.5	SO2	NOx	PM 10	PM 2.5	SO2	NOx	PM 10	PM 2.5	SO2	NOx	PM10	PM 2.5	SO2	NOx
1	Apr-20	Not done Due to Covid-19															
2	May-20	49	21	8	11	46	26	7	13	42	23	8	11	49	21	7	11
3	Jun-20	51	24	8	10	49	22	9	11	45	26	9	10	51	26	9	10
4	Jul-20	53	26	9	13	43	29	10	11	48	21	7	9	47	28	8	9
5	Aug-20	52	23	8	12.1	50	25	12.2	11.2	42	19.2	6	8	43	21	7	6
6	Sep-20	55	24	7	6	48	26	11.1	10.8	48.1	24.6	12	9	45	27	5.6	5.2
7	Oct-20	53	22	6	11	46	24	12	10	45	23	10	12	42	25	6	9
8	Nov-20	50	22	7	11	48	23	10.2	12	46	20	7	6	42	20	8	9
9	Dec-20	51	22	7	8	42	25	10	8	42	12	15	8	48	23	4.5	5.3
10	Jan-21	42	19	8	12	48	23	10	9	42	23	10	12	42	25	6	9
11	Feb-21	45	22	8	11.2	47	22	9	8	44	22	8	12	50	23	12	10
12	Mar-21	43	21	12	15	48	20	8	7	46	21	7	10.2	53	22	10	9
Average		49.5	22.4	8.0	10.9	46.8	24.1	9.9	10.1	44.6	21.3	9.0	9.7	46.5	23.7	7.6	8.4

Annexure: 2

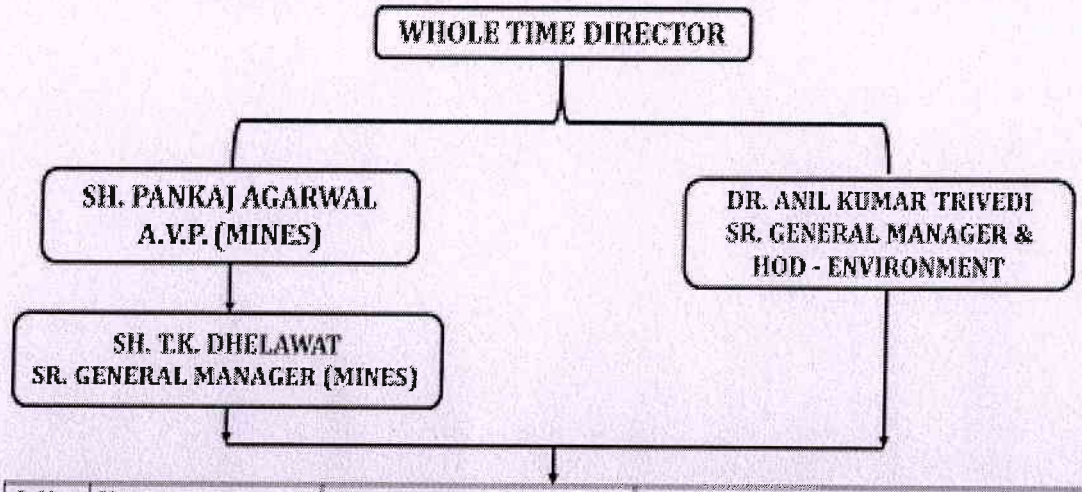
Noise level (Leq dB(A)) for the period of April 20- March 21)

S. No.	Month	Khetakhera		Shyamgarh		Karwai		Neemgarh	
		Day	Night	Day	Night	Day	Night	Day	Night
1	Apr-20	Not Done due to covid-19							
2	May-20	55.3	48.6	51.3	46.7	53.6	48.2	52.6	46.1
3	Jun-20	51.2	46.9	52.9	48.3	55.4	49.7	55.4	47.7
4	Jul-20	57.6	51.4	49.9	43.7	51.7	43.2	51.7	43.9
5	Aug-20	61.2	52.5	52	43	62	52.3	65.3	48.3
6	Sep-20	60.5	53	55	48	64.3	58.3	67.6	49.2
7	Oct-20	58.2	53.4	51	47	61.3	57.9	66.8	51.2
8	Nov-20	62.5	53.3	55	48	63	55	65.3	48.3
9	Dec-20	60.5	53	52	43	64.3	58.3	68.6	55.3
10	Jan-21	58.2	53.4	51	47	61.3	57.9	66.8	51.2
11	Feb-21	60.2	55.4	61.2	48.1	59	45	66	55
12	Mar-21	65	55	62	47	61	42	58.9	48.3
Average		59.1	52.4	53.9	46.3	59.7	51.6	62.3	49.5

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