

o/c

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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/SJCP/ENV/2021-22/ 7120

Date: 27/09/2021  
File No. C-012

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

**Sub.:** Submission of Environmental Statement Report of Clinker Grinding Unit of M/s. Shree Cement Limited situated Near Village: Dehra-Asalpur, Tehsil-Phulera, Distt-Jaipur. (Rajasthan) for the period for the FY 2020-2021 (Apr-2020 to Mar-2021) under Environment Protection Act, 1986.

**Ref:** 1) Consent to operate letter No. F (Tech)/Jaipur (Phulera)/19(1)/ 2010-2011/2033-2035, dated 26/08/2021.  
2) Consent to operate letter No. F (Tech)/Jaipur (Phulera)/19(1)/ 2010-2011/2033-2035, dated 26/08/2021.

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 for Clinker Grinding Unit of M/s Shree Cement Limited situated Near Village-Dehra-Asalpur, Tehsil-Phulera, Distt-Jaipur (Rajasthan) for the period from 1<sup>st</sup> April 2020 to 31<sup>st</sup> March 2021.

Submitted for your kind information and record please

Thanking you,  
Yours Faithfully,

For SHREE CEMENT LIMITED,

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

Encl:-Environment Statement Report(Form-V)

Copy to:

1. The Regional Officer, Rajasthan State Pollution Control Board, Opp. Road No.5, VKI Area, Sikar Road, Jaipur, (Rajasthan)-302013.
2. 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

JAIPUR OFFICE : SB-187, Babu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015

Phone : 0141 4241200, 4241204

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110002

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# SHREE CEMENT LTD

INCORPORATED IN INDIA

HEAD OFFICE: 10, MARKET STREET, CHENNAI - 600 009

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THE SHREE CEMENTS LTD. is a public limited company registered in India. The company is engaged in the manufacture and sale of cement. The company's registered office is at 10, Market Street, Chennai - 600 009. The company's principal place of business is at the same address. The company's capital is divided into shares of Rs. 100 each. The company's shares are listed on the Bombay Stock Exchange and the Madras Stock Exchange. The company's financial statements are audited by Messrs. S. S. & Co., Chartered Accountants, Chennai.

The company's business is carried on at its head office and at its principal place of business.

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## ENVIRONMENTAL STATEMENT REPORT (ESR)

FORM-V  
(See Rule-14)

**M/s SHREE CEMENT LIMITED**  
**(APRIL 2020 TO MARCH 2021)**

### **PART – A**

1.	Name and address of the Owner / Occupier of the Industry operation or process	<b>M/s SHREE CEMENT LIMITED (Clinker Grinding Unit) Near Village: Dehra-Asalpur, Tehsil-Phulera, Distt –Jaipur (Rajasthan)-303331</b>
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	<b>Red Category</b>
3.	<b><u>Production Capacity</u></b>  Cement:  D. G. Set :	<b>2.00 MTPA  110 KVA installed</b>
4.	Year of Establishment	<b>2010</b>
5.	Date of the last Environmental Statement submitted.	<b>22.09.2020</b>

### **PART – B**

#### **WATER AND RAW MATERIAL CONSUMPTION**

##### **(I) WATER CONSUMPTION:**

Process : N.A. (As plant is based on dry process technology)  
Cooling and  
Dust Suppression : 3616 KL  
  
Domestic : 7271 KL

Name of Product	Cooling & Dust Suppression Water Consumption per unit of Product Output	
	Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
Cement	0.0104 KL /MT of Cement	0.0065 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)	
	Cement	During Previous Financial year (2019-20)	During Current Financial year (2020-21)
Clinker		0.5725	0.5647
Gypsum		0.1032	0.1101
Fly Ash		0.3244	0.3251

**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 (2019-20)	During Previous Financial year (2020-21)
Fuel/Diesel	Power	D.G. (Capacity 110 KVA) Set installed but not operated so far. It is being used in plant lighting purpose during failure of grid power supply.	

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

During Previous Financial Year (2019-20)	During Current Financial Year(2020-21)
36.45	37.00

**(IV) TOTAL CEMENT PRODUCTION (MT):**

During current financial year (2019-20) in Metric Tonnes	During current financial year (2020-21) Metric Tonnes
596657	551073

**PART-C**  
**DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT**

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharges (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a) Water	No waste water discharged outside the plant premises.	As the plant is being operated on dry process technology, no liquid effluent is generated from the clinker grinding unit. However the domestic waste water (<25 KLD) generated from office toilet and mess is being treated through Sewage Treatment Plant (Capacity 35 KLD) and treated water and sludge is being utilized in horticulture activities.	
(b) Air	Please refer Annexure-I		

**PART - D**

**HAZARDOUS WASTE**

(As specified under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and amended in 2019.

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year (April,2019 to March,2020)	During Current Financial Year (April,2020 to March,2021)
	Authorization No RPCB/HWM/2020-2021/CPM/HSW/53. Dated 29.01.2021 and valid up to 30.06.2025	
<b>a) From Process</b> 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 in 2019-20 : 0 Ltrs Old Stock : 0 Ltrs Sale out : 0 Ltrs Balance : 0 Ltrs	Total Quantity Generated in 2020-21 : 1050 Ltrs Old Stock : 0 Ltrs Co-Processing : 1050 Ltrs Balance : 0 Ltrs
<b>(b) From Pollution Control Facilities</b>	N.A.	N.A.

\* 1050 Liter used oil has been sent to our sister unit M/s Shree Cement Limited Ras for Co-Processing in cement kiln.



**PART – E**  
**SOLID WASTE**

		Total Quantity	
		During Previous Financial Year (2019-20)	During Current Financial Year (2020 - 21)
(a)	From Process	Nil	Nil
(b)	From Pollution Control Facility	Dust collected in the Bag Houses and Bag Filters is recycled/reused in process.	
(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 both the categories of wastes:**  
**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. 1.05 K.L of used oil has send to our sister unit M/s Shree Cement Limited Ras for co-processing in cement kiln.

**Battery Waste:**

As specified under Batteries (Management & Handling) Amendment Rules,2010, we have purchased following new batteries of different categories.

**Year 2020-21**

Number of used batteries of categories and Tonnage of scrap sent to manufacturer/ dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent.		During 1 <sup>st</sup> April, 2020 to 31st March, 2021	
Category:		(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
<b>(i) Automotive</b>			
	a) Four wheeler	Nil	Nil
	b) Two wheeler	Nil	Nil
<b>(ii) Industrial</b>			
	a) UPS	Nil	Nil
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
<b>(iii) Others</b>			
		Nil	Nil
<b>Total</b>		<b>Nil</b>	<b>Nil</b>

**Bio-Medical Waste:**

Bio-Medical Waste generated during current financial year April, 2020 to March, 2021 under the Bio-Medical Waste (Management & Handling) Rules, 2016 and amended in 2018 are as follows.

**Year 2020-21**

April,20 to March,21	Bio-Medical Waste Quantity (Kg) as per colour coding			
	Red (Cat 3&6)	Blue (Cat 4&7)	Yellow (Cat 1&2)	Black (Cat 5, 9 &10)
	0.0	0.0	9.740	0.0

Above generated Biomedical Waste has been sent to M/s Instromedix India Pvt. Ltd. Jaipur

**E- Wastes:**

Total Quantity	
During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
Nil	Nil

**Solid Wastes:** - Nil

**PART – G****IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION**

Clinker grinding unit is being operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of roller press for pre grinding of clinker is an energy conservation process. 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/reused 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**

Green belt development and tree plantation is our ongoing process. Every year we are doing new tree plantation to increase the density and bio-diversity of the area. We have developed plantation in 9.8 hectare out of 29.16 hectare of total plant area i.e. 34% of total plant area. During FY 2020-21 total 444 nos of sapling planted for density increase. Environment expenditure incurred in the year of 2020-21 (April -2020 to March-2021) was 64.69 (cost in lac). The expenditure in same heads is proposed for next year.

## **PART – I**

### **ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.**

1. We have full-fledged Environment Department for monitoring, maintenance of pollution control equipment and green belt development.
2. Monitoring of stack emission, ambient air quality & ambient noise and ground water quality & level is being monitored regularly in –house as well as NABL certified third party.
3. All Conveyor belts are covered and bag dust collectors have been provided at all material transfer points.
4. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices i.e. bag filters.
5. Civil and Personal & Administration departments taking care for of House keeping.
6. To reduce fugitive emission, we have procured a big size truck mounted TPS sweeping machine for regular & frequent sweeping and cleaning of paved area.
7. Horticulture section in coordination with environment department is taking care of tree plantation and green belt development. Every year during monsoon season we are growing new tree plantation.
8. We have Installed Continuous Emission Monitoring System (CEMS) to display the data on CPCB/RPCB web sites.
9. We have installed Automatic Water Level Recorder for Ground water level monitoring.
10. Domestic waste water generated from office toilets and canteen is being treated at Sewage Treatment Plant (STP) and treated water is being utilized in plantation & gardening.
11. We are maintaining Zero Liquid Discharge (ZLD) from our premises.
12. Covered shed and Silos have been constructed for raw material storage.
13. We create environment awareness for all our stakeholders through meetings, training programs, world environment day celebrations etc.



## SHREE CEMENT LIMITED, JAIPUR

Ambient Air Quality Monitoring Report (All Values in µg/m<sup>3</sup>)

Year: 2020-21

S. No	Location →	Plant boundary towards CCR					Plant boundary towards Electrical switch yard					Plant boundary towards Rain Water collection Pond				
	Month ↓	PM 2.5	PM 10	SO <sub>2</sub>	No <sub>x</sub>	CO	PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>x</sub>	CO	PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>x</sub>	CO
1	Apr-20	Monitoring not done due to covid-19														
2	May-20	28	46	7	11	BDL	30	51	9	13	BDL	26	49	7	11	BDL
3	Jun-20	23	44	6	9	BDL	29	53	8	12	BDL	28	47	6	10	BDL
4	Jul-20	25	47	7	13	BDL	31	51	8	11	BDL	28	45	6	9	BDL
5	Aug-20	27	44	8	10	BDL	29	50	7	13	BDL	27	42	7	10	BDL
6	Sep-20	27	42	8	11	BDL	30	48	9	13	BDL	25	40	7	9	BDL
7	Oct-20	23	46	6	10	BDL	29	52	8	12	BDL	26	49	8	10	BDL
8	Nov-20	25	42	9	11	BDL	31	49	9	11	BDL	22	51	6	13	BDL
9	Dec-20	21	41	6	9	BDL	28	47	11	15	BDL	29	43	9	18	BDL
10	Jan-21	26	45	11	12	BDL	30	49	13	14	BDL	26	41	8	10	BDL
11	Feb-21	24	47	9	11	BDL	27	51	15	17	BDL	31	44	10	13	BDL
12	Mar-21	30	49	12	15	BDL	33	54	12	15	BDL	24	43	13	14	BDL
	Avg.	25.4	44.8	8.1	11.1	BDL	29.7	50.5	9.9	13.3	BDL	26.5	44.9	7.9	11.5	BDL



**Stack Emission Level Monitoring Report for the year 2020-21**

<b>S. No.</b>	<b>Month &amp; Year</b>	<b>Particulate Matter Emission Level in mg/Nm<sup>3</sup> from Stack attached with Bag House of Cement Mill</b>	<b>Dust Load in Kg/day</b>
1	Apr-20	Monitoring not done due to covid-19	
2	May-20		16.5
3	Jun-20		18.6
4	Jul-20		19.5
5	Aug-20		22.0
6	Sep-20		18.5
7	Oct-20		19.2
8	Nov-20		17.7
9	Dec-20		18.2
10	Jan-21		18.7
11	Feb-21		17.9
12	Mar-21		22.0

