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SHREE JAIPUR CEMENT PLANT

(A UNIT OF SHREE CEMENT LTD.)

An ISO 9001, 14001, 45001 & 50001 Certified Company

5KM STONE, MAHLA-JOBNER ROAD

VILLAGE-ASALPUR, TEHSIL PHULERA, DISTT.-JAIPUR-303 331

SCL/SJCP/ENV-37/2020-21/
File No. C-012

Date: 22/09/2020
Th.:F.F. COURIER

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

Sub.: Environmental Statement Report of Clinker Grinding Unit of M/s. Shree Cement Limited. Near Village: Dehra-Asalpur, Tehsil-Phulera, Distt-Jaipur. (Rajasthan) for the period from April, 2019 to March, 2020 under Environment Protection Act, 1986.


Ref: Consent to operate letter No. F (Tech)/Jaipur (Phulera)/19(1)/ 2010-2011/7928-7930,dated 26/10/2016.

Sir,

We are submitting herewith the Annual Environmental Statement Report for the period from April, 2019 to March, 2020 for Clinker Grinding Unit of M/s. Shree Cement Limited, Village: Dehra-Asalpur, Tehsil-Phulera, District – Jaipur (Rajasthan).

This is for your kind information please.

Thanking you,
Yours Faithfully,
For SHREE CEMENT LIMITED,


Arun Agarwal
G.M. (Unit Incharge)

Copy to:

1. The Regional Officer,
Rajasthan State Pollution Control Board,
Opp. Road No.5, VKI Area, Sikar Road, Jaipur, (Rajasthan)-302013.
 2. The Chief Conservator of Forest (C),
Regional Office (Central Region), Ministry of Environment & Forest,
Kendriya Bhawan, 5th Floor, Sector 'H' Aliganj, LUCKNOW- 226024.
- Regd. Office : BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA**

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015
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CORP. OFFICE : 21, Strand Road, Kolkata 700001 Phone : 033 22309601-4 Fax : 033 22434226

ENVIRONMENTAL STATEMENT

FORM-V

(See Rule-14)

M/s SHREE CEMENT LIMITED

(APRIL 2019 TO MARCH 2020)

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	M/s SHREE CEMENT LIMITED Near Village: Dehra-Asalpur, Tehsil-Phulera, Distt –Jaipur (Rajasthan)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	<u>Production Capacity</u> Cement: D. G. Set:	2.00 MTPA 110 KVA installed
4.	Year of Establishment	2010
5.	Date of the last Environmental Statement submitted.	23st September, 2019

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 : 6228 KL

Domestic : 13045 KL

Name of Product	Cooling & Dust Suppression Water Consumption per unit of Product Output	
	Previous Financial Year (2018-19)	During Current Financial Year (2019-20)
Cement	0.00760 KL /MT of Cement	0.0104 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)	
		During Previous Financial year (2018-19)	During Current Financial year (2019-20)
Clinker	Cement	0.7016	0.5725
Gypsum		0.0757	0.1032
Fly Ash		0.2227	0.3244

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 (2018-19)	During Previous Financial year (2019-20)
Fuel/Diesel	Power	D.G. (Capacity 110 KVA) Set not operated so far. It is being used in plant lighting purpose only.	

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

During Previous Financial Year (2018-19)	During Current Financial Year(2019-20)
34.77	36.45

(IV) TOTAL CEMENT PRODUCTION (MT):

During current financial year (2018-19) in Metric Tonnes	During current financial year (2019-20) Metric Tonnes
1063105	596657

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	As the plant is being operated on dry process technology, no liquid effluent is generated from the clinker grinding unit. However the waste water generated from office toilet and mess is being treated through Sewage Treatment Plant and treated water and sludge is being utilized in horticulture activities.	
(b)	Air	Please refer ANNEXURES- I ,II	

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,2018 to March,2019)	During Current Financial Year (April,2019 to March,2020)
	We are having common authorization for Hazardous Waste Management & Handling for Clinker Grinding Unit (Cement 2.00 MTPA & 110 KVA D. G. Set)	
a) From Process 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 2018-19 : 0 Ltrs Old Stock : 0 Ltrs Sale out : 0 Ltrs Balance : 0 Ltrs	Total Quantity Generated in 2019-20 : 0 Ltrs Old Stock : 0 Ltrs Sale out : 0 Ltrs Balance : 0 Ltrs
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E
SOLID WASTE

		Total Quantity	
		During Previous Financial Year (2018-19)	During Current Financial Year (2019 - 20)
(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. 0.00 K.L of used oil is sold to the CPCB authorized recycler.

Battery Waste:

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

Year 2019-20

Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency.	During 1st April, 2019 to 31st March, 2020	
Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
(i) Automotive		
a) Four wheeler	05	0.07
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	05	0.07

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 1st April, 2019 to 31st March, 2020	
Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
(i) Automotive		
a) Four wheeler	Nil	Nil
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	Nil	Nil

Bio-Medical Waste:

Bio-Medical Waste generated during current financial year April, 2019 to March, 2020 under the Bio-Medical Waste (Management & Handling) Rules, 2016 and amended in 2018 are as follows.

Year 2019-20

April,19 to March,20	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	1.730	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 (2018-19)	During Current Financial Year (2019-20)
Nil	Nil

Solid Wastes: - N.A.

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 dust 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 2019-20 total 536 nos of sapling planted for density increase.

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 with telemetry system for ground water level monitoring.
10. Domestic waste water generated from office toilets and mess 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.



Sewage Treatment Plant- Capacity 35 KLD



Closed Conveyor Belt



Good Housekeeping



Silos for Cement



Green belt Development

On support for monitoring data, we are enclosing herewith following Annexure: -

Annexure-I : Ambient Air Quality Monitoring Report for the year 2019-20

Annexure-II : Stack Emission Level Monitoring Report for the year 2019-20

Annexure-I

Ambient Air Quality Monitoring Report for the year 2019-20(in $\mu\text{g}/\text{m}^3$)

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 ₂	NO ₂	PM 2.5	PM 10	SO ₂	NO ₂	PM 2.5	PM 10	SO ₂	NO ₂
1	Apr-19	29	55	6	8	31	57	9	13	29	49	8	10
2	May-19	33	53	7	11	35	55	7	11	31	50	6	8
3	Jun-19	31	52	6	10	36	59	8	10	33	46	8	11
4	Jul-19	33	52	9	10	35	55	9	12	30	46	6	11
5	Aug-19	32	49	7	9	33	55	8	11	29	43	7	10
6	Sep-19	34	55	8	12	32	58	11	14	31	49	9	13
7	Oct-19	31	53	8	9	33	56	9	11	32	55	8	10
8	Nov-19	30	51	8	10	35	54	10	13	31	52	7	11
9	Dec-19	33	55	7	9	37	59	11	13	35	58	9	10
10	Jan-20	30	51	7	8	32	53	9	10	29	52	7	9
11	Feb-20	31	54	6	9	33	57	8	9	31	55	8	10
12	Mar-20	28	49	8	10	30	51	10	11	31	53	7	9
Average		31.3	52.4	7.3	9.6	33.5	55.8	9.1	11.5	31.0	50.7	7.5	10.2

Annexure-II

Stack Emission Level Monitoring Report for the year 2019-20 (in mg/Nm^3)

S. No.	Month & Year	Particulate Matter Emission Level from Stack attached with Bag House of Cement Mill
1	Apr-19	15
2	May-19	13
3	Jun-19	13
4	Jul-19	16
5	Aug-19	14
6	Sep-19	13
7	Oct-19	15
8	Nov-19	16
9	Dec-19	14
10	Jan-20	14
11	Feb-20	11
12	Mar-20	17
Average		14.3