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SHREE JAIPUR CEMENT PLANT
(A UNIT OF SHREE CEMENT LTD.)

5KM STONE, MAHLA-JOBNER ROAD
VILLAGE-ASALPUR, TEHSIL-PHULERA, DISTT.-JAIPUR-303 331



SCL/SJCP/ENV-37/2017-18/
File No. C-012

Date: 21/09/2018
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. Village: Dehra-Asalpur, Tehsil-Phulera, Distt-Jaipur. For the period from April, 2017 to March, 2018 under Environment Protection Act, 1986.

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

Dear Sir,

We are submitting herewith the Annual Environmental Statement Report for the period from April, 2017 to March, 2018 for Clinker Grinding Unit of M/s. Shree Cement Limited, Village: Dehra-Asalpur, Tehsil-Phulera, Distt.-Jaipur. 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).
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 & Works

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ENVIRONMENTAL STATEMENT

FORM-V

(See Rule-14)

M/s SHREE CEMENT LIMITED

(APRIL 2017 TO MARCH 2018)

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 against 1000 KVA
4.	Year of Establishment	2010
5.	Date of the last Environmental Statement submitted.	27 th September, 2017

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 : 6360 KL

Domestic : 12893 KL

Name of Product	Cooling & Dust Suppression Water Consumption per unit of Product Output	
	During Previous Financial Year	During Current Financial Year
Cement	0.00729 KL /MT of Cement	0.00765 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	During Current Financial year
Clinker	Cement	0.6273	0.6345
Gypsum		0.0769	0.0820
Fly Ash		0.2883	0.2742
Performance Improver		0.0075	0.0093

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	During Previous Financial year
Fuel/Diesel	Power	D.G. Set not operated so far. It is being used in emergency conditions.	

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

During Previous Financial Year (2016-17)	During Current Financial Year(2017-18)
34.66	33.91

(IV) TOTAL CEMENT PRODUCTION (MT):

During current financial year (2016-17) in Metric Tonnes	During current financial year (2017-18) Metric Tonnes
778333	831166

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 cement plant. Waste water generated from office toilet and mess is being treated through Sewage Treatment Plant. This STP treated water is being utilized in plantation & gardening.	
(b)	Air	Please refer ANNEXURES- I ,II	

PART – D

HAZARDOUS WASTE

(As specified under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (April,2016 to March,2017)	During Current Financial Year (April,2017 to March,2018)
	We are having common authorization for Hazardous Waste Management & Handling for Clinker Grinding Unit (Cement 2.00 MTPA & 1000 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 2016-17 : 2100 Ltrs Old Stock : 0 Ltrs Sale out : 2100 Ltrs Balance : 0 Ltrs	Total Quantity Generated in 2017-18 : 1260 Ltrs Old Stock : 0 Ltrs Sale out : 1260 Ltrs Balance : 0 Ltrs
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E

SOLID WASTE

		Total Quantity	
		During Previous Financial Year	During Current Financial Year
(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. Used oil is sold to the CPCB authorized recyclers/self used for lubrication.

Battery Waste:

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

Year 2017-18

Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency.	During 1st April, 2017 to 31st March, 2018	
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

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, 2017 to 31st March, 2018	
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, 2017 to March, 2018 under the Bio-Medical Waste (Management & Handling) Rules, 2016, are as follows.

Year 2017-18

April,17 to March,18	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)
	-	0.770 kg	1.576 kg	-

E- Wastes:

Total Quantity	
During Previous Financial Year	During Current Financial Year
Nil	135 Kg

Above generated E- Waste has been sent to authorize recycler.

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 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 bio-diversity of the area. Upto 31 March, 2018, we have planted around 10,938 tree and this is around 34 % green area of the total plant area.

PART – I

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

1. We have full-fledged Environment Department with three separate cells, one for monitoring, one for maintenance of pollution control equipment and one for green belt development.
2. Monitoring of stack emission, ambient air quality & ambient noise and ground water quality & level is being monitored regularly.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices i.e. bag filters.
4. Civil and Personal & Administration departments taking care for of House keeping.
5. To reduce fugitive emission, we have procured a big size truck mounted TPS sweeping machine for regular & frequent sweeping and cleaning of paved area.
6. Horticulture section is taking care of tree plantation and green belt development. Every year we are growing new tree plantation.
7. We have Installed Continuous Emission Monitoring System (CEMS) to display the data on CPCB/RPCB web sites.
8. Domestic waste water is being treated at Sewage Treatment Plant (STP). This treated water is being utilized in plantation & gardening.

On support of above, we are enclosing herewith following Annexure:-

Annexure-I : Ambient Air Quality Monitoring Report for the year 2017-18

Annexure-II : Stack Emission Level Monitoring Report for the year 2017-18

Ambient Air Quality Monitoring Report for the year 2017-18(in ug/m3)

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	SO2	NOx	PM 2.5	PM 10	SO2	NOx	PM 2.5	PM 10	SO2	NOx
1	Apr-17	26.0	42.0	6.0	9.0	30.0	45.0	7.0	10.0	25.0	43.0	7.0	9.0
2	May-17	27.0	44.0	7.0	10.0	32.0	49.0	7.0	13.0	27.0	45.0	7.0	8.0
3	Jun-17	31.0	47.0	7.0	8.0	34.0	51.0	8.0	11.0	29.0	48.0	6.0	8.0
4	Jul-17	28.0	45.0	8.0	11.0	31.0	49.0	9.0	13.0	30.0	47.0	6.0	10.0
5	Aug-17	32.0	48.0	6.0	9.0	34.0	47.0	8.0	10.0	28.0	45.0	6.0	9.0
6	Sep-17	30.0	51.0	6.0	8.0	33.0	53.0	9.0	12.0	32.0	49.0	7.0	7.0
7	Oct-17	29.0	42.0	7.0	9.0	33.0	51.0	8.0	10.0	32.0	45.0	7.0	8.0
8	Nov-17	30.0	44.0	6.0	8.0	37.0	53.0	9.0	11.0	29.0	43.0	8.0	9.0
9	Dec-17	31.0	47.0	6.0	9.0	39.0	56.0	8.0	9.0	30.0	46.0	6.0	8.0
10	Jan-18	29.0	51.0	7.0	9.0	35.0	55.0	9.0	10.0	29.0	48.0	7.0	8.0
11	Feb-18	32.0	49.0	9.0	11.0	37.0	53.0	8.0	11.0	28.0	45.0	8.0	9.0
12	Mar-18	30.0	47.0	8.0	10.0	33.0	51.0	9.0	10.0	26.0	43.0	6.0	7.0
Average		29.6	46.4	6.9	9.3	34.0	51.1	8.3	10.8	28.8	45.6	6.8	8.3

Annexure-II

Stack Emission Level Monitoring Report for the year 2017-18(in mg/Nm3)

S. No.	Month & Year	Particulate Matter Emission Level from Stack attached with Bag House of Cement Mill
1	Apr-17	17
2	May-17	16
3	Jun-17	14
4	Jul-17	16
5	Aug-17	17
6	Sep-17	15
7	Oct-17	15
8	Nov-17	17
9	Dec-17	17
10	Jan-18	16
11	Feb-18	14
12	Mar-18	13
Average		15.6