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# SHREE CEMENT LTD.

VILLAGE KHUKHRANA, P.O. ASSAN KALAN, POST BOX -148  
DISTT. PANIPAT-132105 (HARYANA)



SCL/PGU/Env/37/2016/100

Date: 21/09/2016  
Th.SPEED POST

The Member Secretary  
Haryana State Pollution Control Board  
C-11, Sector -6 Panchkula-134109  
(Haryana)

**Subject :** Environmental Statement Report of M/s. Shree Cement Limited, Village: Khukhrana, P.O. Assan kalan, Distt-Panipat (Haryana) for the period of April, 2015 - March, 2016 under Environment Protection Act, 1986.

**Ref:** CTO No. Air and Hazardous Waste HSPCB/Consent/:2776715PITCTOHWM2103282 on dated 22/06/2015 and Water CTO No. HSPCB/Consent/:2776715PITCTO2103282 on dated 22/06/2015.

Dear Sir,

Kindly refer to above subject matter and referred letter. We are submitting herewith the Annual Environmental Statement Report for the period of April, 2015- March, 2016 for M/s. Shree Cement Limited. Village: Khukhrana, P.O. Assan kalan, Distt-Panipat (Haryana).

This is for your kind information please.

Thanking you,

Yours faithfully,  
For Shree Cement Ltd.

(Rajeev Kumar Jain)  
Unit Incharge

*S/C. Environment Deptt*

Copy to: 1. The Regional Officer, Haryana State Pollution Control Board, SCO-55, Sector-25 HUDA Panipat (Haryana)-132103



The Conservator of Forest (C), Ministry of Environment & Forest and Climate Change, Regional Office(NZ), Bays No.24-25, Sector31 A, Dakshin Marg, Chandigarh-160030.

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# ENVIRONMENTAL STATEMENT

## FORM-V

(See Rule-14)

**M/s SHREE CEMENT LIMITED**

**(APRIL 2015 TO MARCH 2016)**

### **PART – A**

1.	Name and address of the Owner / Occupier of the Industry operation or process	M/s SHREE CEMENT LIMITED Village: Khukhrana, P.O. Assan kalan, Distt- Panipat (Haryana). Pin Code -132105
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	<b><u>Production Capacity</u></b>  Cement :	1.5 MTPA
4.	Year of Establishment	2008
5.	Date of the last Environmental Statement submitted.	24 <sup>th</sup> September, 2015

### **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 : 7272.80 KL

Domestic : 84885 KL

Name of Product	Cooling & Dust Suppression Water Consumption per unit of Product Output (Cement)	
	During Previous Financial Year	During Current Financial Year
Cement	0.0296 KL /MT of Cement	0.0140 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	0.656	0.577
Gypsum		0.046	0.046
Fly Ash		0.298	0.375

**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 are not in operation. It is used only during power supply failure from grid.	

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

During Previous Financial Year (2014-15)	During Current Financial Year(2015-16)
35.72	35.01

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

During Previous financial year (2014-15) in Metric Tonnes	During current financial year (2015-16) Metric Tonnes
268797.00	517107.00

**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. 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 &III	

**PART – D**

**HAZARDOUS WASTE**

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

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year (April,2014 to March,2015 )	During Current Financial Year (April,2015 to March,2016 )
<b>a) From Process</b> Cement manufacturing (Grinding) is based on “ <b>Dry Process</b> ” No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments	Total Quantity Generated in 2014-15 : 0 Ltrs Old Stock : 0 Ltrs Sale out : 0 Ltrs Balance : 0 Ltrs	Total Quantity Generated in 2015-16 : 2310 Ltrs Old Stock : 0 Ltrs Sale out : 2310 Ltrs Balance : 0 Ltrs
<b>(b) From Pollution Control Facilities</b>	<b>N.A.</b>	<b>N.A.</b>

**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 from machineries /equipments. Used oil is sold to the CPCB/HSPCB authorized recyclers.

**Battery Waste:**

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

**Year 2015-16**

<b>Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency.</b>	<b>During 1<sup>st</sup> April, 2015 to 31<sup>st</sup> March, 2016</b>	
<b>Category:</b>	<b>(i) No. of Batteries</b>	<b>(ii) Approximate Weight (In Metric Tonnes)</b>
<b>(i) Automotive</b>		
a) Four wheeler	Nil	Nil
b) Two wheeler	Nil	Nil
<b>(ii) Industrial</b>		
a) UPS	150	0.89
b) Motive Power	Nil	Nil
c) Stand –by	Nil	Nil
<b>(iii) Others</b>	Nil	Nil
<b>Total</b>	<b>150</b>	<b>0.89</b>

<b>Number of used batteries of categories mentioned in Si. No. 03 and Tonnage of scrap sent to manufacturer/ dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent.</b>	<b>During 1<sup>st</sup> April, 2015 to 31<sup>st</sup> March, 2016</b>	
<b>Category:</b>	<b>(i) No. of Batteries</b>	<b>(ii) Approximate Weight (In Metric Tonnes)</b>
<b>(i) Automotive</b>		
a) Four wheeler	Nil	Nil
b) Two wheeler	Nil	Nil
<b>(ii) Industrial</b>		
a) UPS	187	1.11
b) Motive Power	Nil	Nil
c) Stand –by	Nil	Nil
<b>(iii) Others</b>	Nil	Nil
<b>Total</b>	<b>187</b>	<b>1.11</b>

**Bio-Medical Waste:**

Bio-Medical Waste generated during current financial year April, 2015 to March, 2016 under the Bio-Medical Waste (Management & Handling) Rules, 2016 are as follows.

**Year 2015-16**

April,15 to March,16	Bio-Medical Waste Quantity (Kg) as per colour coding			
	Yellow	Red	White (Translucent)	Blue
	3.4	-	-	-

Above mentioned Bio-Medical waste has been sent to Panipat Hospital for further proper treatment and disposal.

**E- Wastes:**

	Total Quantity	
	During Previous Financial Year	During Current Financial Year
<b>From Process</b>		
Computer Schedule (i)	Nil	Nil
Printers including cartridge	Nil	Nil
<b>From Pollution Control Facility</b>	Nil	Nil
<b>Total</b>	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 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. Up to 31 March, 2016, we have planted around 5662 tree and this is around 33.1 % 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 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, P&A and Mechanical departments taking care for of House keeping.
5. To reduce fugitive emission all the material transfer belt are covered, we have procured 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 Ambient Air Quality Monitoring System and Continuous Emission Monitoring System to display the data on CPCB/HSPCB 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 2015-16  
**Annexure-II** : Stack Emission Level Monitoring Report for the year 2015-16  
**Annexure-III** : Ambient Noise level Monitoring Report for the year 2015-16

## Annexure-I

### Ambient Air Quality Monitoring Report for the year 2015-16( in $\mu\text{g}/\text{m}^3$ )

S. No	Location →	Near Admin Block				Near Packing Plant				Near Field Hostel-1			
	Month ↓	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>
1	Apr-15	52	33	18	14	56	38	17	12	46	27	17	15
2	May-15	53	29	17	14	55	32	17	13	44	26	16	16
3	Jun-15	54	31	18	28	55	32	18	29	45	23	11	28
4	Jul-15	51	30	13	27	58	33	8	13	47	27	6	11
5	Aug-15	49	31	8	9	56	32	9	9	48	28	7	11
6	Sep-15	49	29	9	10	59	32	10	11	49	25	9	12
7	Oct-15	50	23	8	11	55	31	9	12	48	19	8	11
8	Nov-15	52	24	13	21	57	33	10	15	51	23	9	14
9	Dec-15	57	34	10	15	51	37	9	14	46	25	8	15
10	Jan-16	60	39	13	18	68	43	16	19	49	28	14	17
11	Feb-16	57	38	16	26	61	39	12	18	48	26	17	27
12	Mar-16	55	34	8	31	58	36	14	22	49	27	16	26
<b>Average</b>		<b>53</b>	<b>31</b>	<b>13</b>	<b>19</b>	<b>57</b>	<b>35</b>	<b>12</b>	<b>16</b>	<b>48</b>	<b>25</b>	<b>12</b>	<b>17</b>

## Annexure-II

### Stack Emission Level Monitoring Report for the year 2015-16 (in $\text{mg}/\text{Nm}^3$ )

S. No.	Month & Year	Particulate Matter Emission Level from Stack attached with Bag House of Cement Mill
1	Apr-15	20
2	May-15	29
3	Jun-15	32
4	Jul-15	26
5	Aug-15	24
6	Sep-15	25
7	Oct-15	17
8	Nov-15	19
9	Dec-15	26
10	Jan-16	22
11	Feb-16	17
12	Mar-16	25
<b>Average</b>		<b>24</b>



### Annexure-III

#### Ambient Noise Level Monitoring Report for the Year 2015-16 (Leq-dB(A))

S. No.	Location →	Plant boundary near Administrative Building		Plant boundary near Khukhrana village		Plant boundary near Field Hostel	
	Month ↓	Day time	Night time	Day time	Night time	Day time	Night time
1	Apr-15	61.3	53.7	52.7	47.1	56.5	49.9
2	May-15	58.3	52.1	48.8	42.7	53.1	46.7
3	Jun-15	59.7	51.6	49.3	41.7	52.8	45.2
4	Jul-15	59.7	55.4	51.3	49.1	57.1	54.7
5	Aug-15	61.1	54.1	53.9	51.7	55.3	50.3
6	Sep-15	62.7	57.1	56.7	51.7	58.2	53.6
7	Oct-15	64.1	56.7	57.6	53.2	61.3	54.5
8	Nov-15	63.7	54.1	55.1	51.7	63.3	53.7
9	Dec-15	59.7	51.3	57.3	49.6	61.6	52.1
10	Jan-16	63.3	53.7	52.7	47.1	56.5	49.9
11	Feb-16	59.1	50.4	51.6	45.8	57.2	51.7
12	Mar-16	56.3	47.9	51.2	43.6	58.8	49.2
<b>Average</b>		<b>60.8</b>	<b>53.2</b>	<b>53</b>	<b>47.9</b>	<b>57.6</b>	<b>51.0</b>