



# SHREE CEMENT LTD.

Regd. Office & Works :

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305 901, RAJASTHAN, INDIA

Shree Cement Ltd., Village Akabarpur Oud, Tehsil, Laksar, Distt. Haridwar (Uttarakhand)-247663  
Phone: 01332-255810, 255811

Phone : EPABX 01462 228101-6  
Toll Free : 1800 180 6003 / 6004  
Fax : 01462 228117 / 228119  
E-Mail : shreebwr@shreecementltd.com  
Website : www.shreecementltd.com



SCL/RGU/ENV/ESR /2017-18/

Date: 17/09/2017  
Th. Courier

To,  
The Member-Secretary,  
Uttarakhand Environment Protection & Pollution Control Board,  
29/20 Nemi Road, Dalanwala,  
Dehradun, Uttarakhand.

**Sub:-** Environmental Statement Report for the FY 2016-17 (Apr-16 to Mar-17) for Clinker Grinding Unit of M/s Shree Cement Limited; situated at Village: Akabarpur Oud, Tehsil: Laksar, Dist: Haridwar (Uttarakhand).

**Ref:-** Consent no. 37130/767 and HW Authorization no. 767 vide letter no. UEPPCB/HO/Con-S/191/2017/412 dated 20/06/2017.

PCB ID - 11440	Inward ID - 65448
CCA (Renewal)	
Consent No. 37130/767	Date: 18.03.2017

Sir,

Kindly refer to above subject matter and reference letter. We are submitting herewith the Environmental Statement Report of Clinker Grinding Unit.

This is for your kind information please.  
Thanking you,  
Yours faithfully,

**For Shree Cement Ltd; Laksar**

**For Shree Cement Ltd., Laksar**

  
**Authorised Signatory**

(Kundan Singh)  
(Unit In-Charge)

**Encl: - Environment Statement Report (Form-V)**  
**Copy to:-**

The Regional Officer, Uttarakhand Environment Protection and Pollution Control Board,  
Irrigation Design Building, Canal Road, Roorkee, (Haridwar).

**JAIPUR OFFICE :** A-6, Yudhishter Marg, Opp. Yojana Bhawan, C-Scheme, Jaipur 302 005

Phone : 0141 2362340, 2223917, 2223918 Fax 0141 2224841

**NEW DELHI OFFICE :** 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110 002

Phone : 011 23370828, 23379218, 23370776, Fax : 011 23370499

**CORP. OFFICE :** 21, Strand Road, Kolkata 700 001 Phone : 033 22309601-5 Fax : 033 22434226

## FORM- V

### Environmental Statement Report FY: 2016-17 (Apr-16 to Mar-17)

#### M/S SHREE CEMENT LIMITED

##### PART- A

- (i) Name and address of the owner/ Occupier of the Industry, operation or process : Shree Cement Limited, (Grinding Unit), Village: Akabarpur Oud, Tehsil: Laksar, Distt: Haridwar, Uttarakhand -247663
- (ii) Industry Category : Red Category
- (iii) Production Capacity : 181818 MT Per Month (Clinker Grinding Unit)
- (iv) Year of Establishment : 2010
- (v) Date of the Last Environment Statement Submitted : 20/09/2016

##### PART- B

#### (WATER AND RAW MATERIAL CONSUMPTION)

(i) **Water consumption m<sup>3</sup>/day**

- Industrial : 11572 KL
- Domestic : 20969 KL
- Process : N.A. (Dry Process Technology)

Name of Product	Water consumption per unit of Product (KL/MT of Cement)	
	During the Previous FY	During the Current FY
Cement	0.0055	0.0062

(i) **(a) Raw Material Consumption (MT):**

Name of raw material consume	Name of products	Consumption of Raw Material Per Unit of Output (Cement) (MT)	
		During the Previous FY	During the Current FY
Clinker in Cement	Cement	0.580	0.578
Gypsum in Cement		0.073	0.076
Fly-Ash in Cement		0.347	0.345

**(b) Raw Material Consumption: (D.G. Set)**

1000 KVA & 750 KVA D.G. Set installed at site but it is not operated on continuous basis. Operates D.G. Sets only for plant lighting purpose during failure of grid power supply. The total fuel consumption during the FY 2016-17 was 54305 Ltrs and power production was 182121 Kwh.

Name of Raw Material	Name of Product	Consumption of Raw Material per unit of Output (Ltrs/KWh)	
		During the Previous FY	During the Current FY
H.S. Diesel	Power	0.307	0.298

(ii) **Power Consumption (KWh/T of Cement):**

During the Previous FY	During the Current FY
32.78	30.19

(iii) **Total Cement Production (MT):**

Cement Mill	
During the Previous FY	During the Current FY
1763169	1853395

(iv) **Total D.G. (1000 KVA + 750 KVA) Power Production (KWh):**

During the Previous FY	During the Current FY
232011	182121

**PART- C**  
**Pollution discharges to environment/ unit of output.**  
**(Parameter as specified in the consent issued)**

Pollution	Quality of Pollutants Discharged Mass/day)	Concentration of Pollutants discharges (mass /volume)	Percentage of variation from prescribed standards											
a) Water	As the plant is being operated on dry process technology, There is no industrial waste water generation from plant process. Water used for cooling purpose is recycled back into the system. Domestic waste water generated from office toilets & canteen is treated through STP (Capacity of 35 KLD) and treated water is used in plantation only.													
b) Air	STACK EMISSION LEVEL			PM (mg/Nm3) (Limit: 30 (mg/Nm3))										
	Sr. No.	Month	Pollution Control Measures											
	1	Apr-16	Bag House	22										
	2	May-16	Bag House	20										
	3	Jun-16	Bag House	22										
	4	Jul-16	Bag House	19										
	5	Aug-16	Bag House	23										
	6	Sep-16	Bag House	20										
	7	Oct-16	Bag House	22										
	8	Nov-16	Bag House	24										
	9	Dec-16	Bag House	19										
	10	Jan-17	Bag House	21										
	11	Feb-17	Bag House	19										
	12	Mar-17	Bag House	22										
	AMBIENT AIR QUALITY MONITORING: All Values In µg/m3													
	Sr. No	Month	Plant Boundary Near Main Gate Area				Plant Boundary Near CCR Building Area				Plant Boundary Near Diesel Pump Area			
	Lmt: Annual		60	40	50	40	60	40	50	40	60	40	50	40
	Parameters		PM10	PM2.5	SO2	NOx	PM10	PM2.5	SO2	NOx	PM10	PM2.5	SO2	NOx
	1	Apr-16	47	32	9.4	9.2	43	30	9.2	9.0	--	--	--	--
	2	May-16	44	31	8.7	8.8	47	33	9.0	9.3	--	--	--	--
	3	Jun-16	46	33	9.1	8.9	41	30	9.6	9.4	--	--	--	--
	4	Jul-16	48	34	8.6	8.8	44	32	9.1	9.2	--	--	--	--
	5	Aug-16	44	32	9.1	9.2	40	28	8.8	8.9	--	--	--	--
	6	Sep-16	52	31	9.5	9.6	48	30	9.1	9.3	--	--	--	--
	7	Oct-16	50	34	8.7	9.4	43	29	8.6	9.1	47	32	9.0	9.3
	8	Nov-16	48	32	8.5	9.1	45	31	8.8	9.1	50	34	8.8	9.4
	9	Dec-16	47	33	8.6	9.1	44	30	8.7	9.3	50	34	8.9	9.4
	10	Jan-17	44	33	8.6	9.0	40	31	8.9	9.4	47	34	9.7	9.8
	11	Feb-17	46	31	8.7	8.8	42	29	9.2	9.5	50	34	9.3	9.6
	12	Mar-17	47	30	8.8	8.8	44	28	8.8	9.4	50	33	9.1	9.3
	NOISE LEVEL AT PLANT BOUNDARY: All Values In dB (A)													
	Sr. No	Month	Plant Boundary Near Main Gate Area		Plant Boundary Near CCR Building Area		Plant Boundary Near Diesel Pump Area		DG Set					
			Day Time	Night Time	Day Time	Night Time	Day Time	Night Time						
	1	Apr-16	63.1	56.2	59.6	52.7	--	--	68.2					
	2	May-16	62.6	55.8	60.7	53.2	--	--	65.8					
	3	Jun-16	65.3	58.2	61.4	56.7	--	--	67.1					
	4	Jul-16	66.2	59.7	63.3	57.4	--	--	64.6					
5	Aug-16	65.8	58.4	62.6	56.1	--	--	66.8						
6	Sep-16	66.1	59.3	63.4	57.2	--	--	69.2						
7	Oct-16	66.3	59.4	63.6	56.3	65.2	58.7	70.7						
8	Nov-16	65.3	58.4	62.2	55.6	64.1	57.2	71.3						
9	Dec-16	64.1	59.1	63.5	55.3	61.7	56.5	69.4						
10	Jan-17	66.2	58.6	64.1	57.4	60.3	56.3	70.3						
11	Feb-17	66.2	58.6	64.1	57.4	60.3	56.3	71.6						
12	Mar-17	65.7	56.9	62.2	55.8	66.1	57.1	69.7						

**PART- D**  
**(HAZARDOUS WASTES)**

(As specified under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, amended up to 2016)

Total Quantity (Ltrs.)					
Haz. Waste	During Previous FY	Unit-Ltrs	During Current FY	Unit-Ltrs	Remark
(a) From Process	Old Stock	0	Old Stock	0	Sold out to CPCB authorized recycler
	Total Qty. Generated	7980	Total Qty. Generated	0	
	Total Used Oil Received	7980	Total Used Oil Received	0	
	Total Disposal	7980	Total Disposal	0	
	Balance Quantity	0	Balance Quantity	0	
(b) From Pollution Control Facilities	NA		NA		

**PART- E**  
**(SOLID WASTES)**

TOTAL QUANTITY (Kg)		
	During the Previous FY	During the Current FY
1) From Pollution Control Equipment	Dusts collected in Bag Filters & are recycled back into the system	
2) From Process	N.A	N.A

**PART- F**

Please specify the characterizations (in terms of composition of quantum) of Hazardous solid, Biomedical as well Battery water and indicate disposal practice adopted for both these 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 generated from machineries and sell out to the CPCB authorized recycler.

**Waste Utilization:** N.A.

**Solid Wastes:** - N.A.

**E-Waste:**

Total Quantity		
	During the Previous FY	During the Current FY
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil

**Bio-medical Waste:**

Biomedical waste generated and disposed off in the FY 2016-17 is approx. 23.950 kg.

Biomedical Waste Generation & Disposal Data				
Sl. No.	Month	During the Previous FY	Month	During the Current FY
1	Apr-15	5.100	Apr-16	3.350
2	May-15	4.400	May-16	7.800
3	Jun-15	5.100	Jun-16	4.850
4	Jul-15	4.400	Jul-16	1.200
5	Aug-15	5.300	Aug-16	1.100
6	Sep-15	5.900	Sep-16	0.950
7	Oct-15	6.000	Oct-16	1.000
8	Nov-15	6.000	Nov-16	0.800
9	Dec-15	7.500	Dec-16	0.950
10	Jan-16	9.300	Jan-17	0.600
11	Feb-16	9.400	Feb-17	0.700
12	Mar-16	7.800	Mar-17	0.650
<b>Total</b>		<b>76.200</b>	<b>Total</b>	<b>23.950</b>



**Battery Waste:**

Details of Lead Acid Batteries for the year 2016-17 is as under:

Specification	Running (UPS/Motive Power)	Stand-By	Sold-out	Scrap	Total
Lead Acid/Dry Type	423	148	0	24	571

**PART- G****Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.**

M/s Shree Cement Limited (Grinding Unit) is being operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy. 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 back into the system and neutralizing the cost of operation of pollution control equipments and hence no cost impact on the production cost.

**PART- H****Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.**

Green belt development and tree plantation is our ongoing process. Total plant area is 109600 meter<sup>2</sup> out of which 38.5% plantation has been done against 33% area which is 36168 meter<sup>2</sup>. Total 650 nos. plants planted in FY 2016-17 out of which 540 have survived and total plantation are 8100 nos. upto the FY.

**PART- I****Any other particulates in respect of environmental protection and abatement of pollution.**

1. We have full-fledged Environment Department with reference to green belt development, monitoring and maintenance of pollution control equipment.
2. Horticulture Section is taking care of tree plantation and green belt development.
3. Monitoring of stack emission and ambient air and water quality is being done regularly.
4. Maintenance department is doing scheduled regular checking of all the pollution control devices.
5. All belts are covered and bag dust collectors have been provide at all material transfer points.
6. House-Keeping of plant area is being maintained in perfect order. We have deployed a small & large size vacuum cleaning machine for betterment of environment of plant area.
7. Water Sprinkler System installed in the Plant. (from main gate to unlading & total vehicle movement area). Entire plant area and roads are cemented. Water is being sprayed on movement areas.
8. STP (Sewage Treatment Plant) is installed with capacity of 35 KLD which is operates for daily treatment of domestic effluent discharged and treated water is used in plantaion only.
9. Covered Pond Ash Shed constructed to miimize the fugitive emission.
10. One additional AAQM station installed in last week of Sep-16 & physically verified by officials of PCB.

11	Work Description	Saving/Benefits
A	Elimination of existing complete assembly of clinker hopper venting bag filter with bag filter fan by modification	Total Saving: Approx. 3.50 Lacs /Annum (11.00 KWH power saving)
B	3.7 KWH power saving by eliminating existing spillage air slide blower from packing plant circuit by modification	Total Saving: Approx. 1.20 Lacs /Annum
C	Installation of parallel feeding arrangement for packer feeding from storage bin in packing plant	Packer Availability increased in packing, Weight variation problem is minimized.
D	Elimination of bag divertor bag drive	Total Saving: Approx. 1.03 Lacs/Annum
E	Replacement of CFL lights of CCR with LED lights to reduce consumption around 70%	70% saving of total consumption
F	Power saving achieved by fixing timer at DG shed fresh water having auto "ON-OFF" operation	50% saving of total consumption after installation
G	Motor size reduction of 501 BC5 from 15 KW to 7.5 KW	50% saving of total consumption
H	Power saving by prepared water level sensor at Truck Unloader water tank to Auto ON-OFF of water pump	50% saving of total consumption

For Shree Cement Ltd., Lakkar

Prepared By:  
Dated: 17/09/2017

Authorised Signatory  
For M/S SHREE CEMENT LTD.  
(Authorized Signatory)