

o/c

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# SHREE CEMENT LTD.

(Unit : U.P. Grinding Unit)

12, UPSIDC Industrial Area, Sikandrabad 203205, Dist. Bulandshahr ( U.P. )



SCL/ENV/ESR/AAC/2021-22/ 200

Date : 26/08/2021  
Th. : TRAJEON COURIER

To,  
The Member Secretary,  
Uttar Pradesh Pollution Control Board,  
Building No. TC 12 V, Vibhuti Khand,  
Gomti Nagar, Lucknow-226010 (U.P.)

Sub: - Submission of Environmental Statement Report by M/s Shree Cement Ltd. (Aerated Autoclave Concrete Block Unit) situated at Plot No. 12, UPSIDC, Sikandrabad Industrial Area Sikandrabad, Dist. Bulandshahr (Uttar Pradesh) for the year of 2020-21.

Ref: - CTO No: 100479/UPPCB/Bulandshahr (LAB)//CTO/Air/BULANDSHAHAR/2020 dated 05/11/2020 & CTO No: 101783/UPPCB/Bulandshahr/ LAB)/CTO/Water/ BULANDSHAHAR/ 2020 dated 05/11/2020

Dear Sir,

With reference to the above subject and referred CTO letter, we are submitting herewith the Environmental Statement Report (in Form- V) as per Rule 14 of EP Act, 1986 for M/s Shree Cement Ltd. (Aerated Autoclave Concrete Block Unit) situated at Plot No. 12, UPSIDC, Sikandrabad Industrial Area Sikandrabad, Dist. Bulandshahr (Uttar Pradesh) for the period of April, 2020 to March, 2021.

This is for your kind information.

Yours faithfully,  
For Shree Cement Ltd (Aerated Autoclave Concrete Block),

  
Rajeev Kumar Jain  
(Unit In-Charge)

Copy to:

1. The Regional Officer, Uttar Pradesh Pollution Control Board, F-5, Yamunapuram (Behind MMR Mall), Bulandshahr - 203001.
2. The Chief Conservator of Forest (C), Ministry of Environment, Forest & Climate Change, Regional Office (Central Region), Kendra Bhavan, 5<sup>th</sup> Floor, Sector 'H' Aliganj, Lucknow (U.P.)

o/c ENVIRONMENT DEPTT.

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Page 1 of 9

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**Environmental Statement Report of M/s Shree Cement Ltd. (Aerated Autoclave Concrete Block)**

**From: April, 2020 to March, 2021**

**PART – A**

1.	Name and address of the Owner / Occupier of the Industry operation or process	M/s Shree Cement Ltd. (Aerated Autoclave Concrete Block) Plot No. 12, Sikandrabad Industrial Area (UPSIDC), Sikandrabad, District: Bulandshahar (Uttar Pradesh)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Orange Category
3.	Production Capacity	4.0 Lac Cubic Meter /Annum
4.	Year of Establishment	2016
5.	Date of the last Environmental Audit Report submitted	14.09.2020

**PART – B**

**WATER AND RAW MATERIAL CONSUMPTION**

(I) **WATER CONSUMPTION:**

Process	:	34964 KL
Cooling	:	Nil
Construction	:	Nil
Domestic	:	7324 KL

Name of Product	Process Water Consumption per Unit of Product (BLOCK)	
	During the Previous Financial Year (Apr, 2019 to Mar, 2020)	During Current Financial Year (Apr, 2020 to Mar, 2021)
Aerated Autoclave Concrete Block	0.1560 KL/ m3 of Blocks	0.1648 KL/ m3 of Blocks

(II) **RAW MATERIAL CONSUMPTION: (BLOCK Unit)**

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Block) MT	
		During the Previous Financial Year (Apr, 2019 to Mar, 2020)	During Current Financial Year (Apr, 2020 to Mar, 2021)
Fly ash		0.4837	0.5993
Lime	Aerated	0.570	0.0570
Cement	Autoclave	0.2111	0.3277
Gypsum	concrete	0.0021	0.0050
Coal	Block	0.0289	0.0193

\*Some quantity of moisture content is also available in final product

RAW MATERIAL CONSUMPTION: (D.G. SET)

Name of Raw Material	Name of Product	Consumption of Raw Material per unit of Output (Ltrs / KWH)	
		During the Previous Financial Year (Apr, 2019 to Mar, 2020)	During Current Financial year (Apr, 2020 to Mar, 2021)
Fuel/ Diesel	Power	0.3026	0.2846

\*We use the D.G set only when power supply fails.

(III) POWER CONSUMPTION (Kwh/m3 of Block):

During the Previous Financial Year (Apr, 2019 to Mar, 2020)	During Current Financial Year (Apr, 2020 to Mar, 2021)
10.60	11.18

(IV) TOTAL BLOCK PRODUCTION (m3):

During the Previous Financial Year (Apr, 2019 to Mar, 2020)	During Current Financial Year (Apr, 2020 to Mar, 2021)
218964.901	212119.788

(V) TOTAL D.G. POWER PRODUCTION (Kwh):

During the Previous Financial Year (Apr, 2019 to Mar, 2020)	During Current Financial Year (Apr, 2020 to Mar, 2021)
8824.38	10471.98

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

Pollutants	Quantity of Pollutants Discharged	Concentration of Pollutants in Discharge (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a)	Water	The waste water generated from the office toilet and canteen is being treated in the existing STP (having Capacity 25 KLD) situated at UPGU unit and treated water is being utilized in greenbelt and horticulture activities.	
(b)	Air	Please refer Annexure – 1, 2 & 3	

**PART – D**  
**HAZARDOUS WASTE**

(As specified under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules amended up to 2011)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year (Apr, 2019 to Mar, 2020)	During Current Financial Year (Apr, 2020 to Mar, 2021)
a) From Process (Aerated Autoclave Concrete Block) is a high quality, lightweight, building material produced as standard block. It is natural and nontoxic construction material saves energy and is a green product, No Hazardous waste is generated from the process	Total quantity generated = Nil  Old stock = Nil Total disposal= Nil  Balance quantity= Nil	Total quantity generated = Nil  Old stock = Nil Total disposal= Nil  Balance quantity= Nil
(b) From Pollution Control Facilities	N.A.	

**PART – E**  
**SOLID WASTE**

		Total Quantity	
		During Previous Financial Year (Apr, 2019 to Mar, 2020)	During Current Financial Year (Apr, 2020 to Mar, 2021)
(a)	From Process	N.A	Nil
(b)	From Pollution Control Facility	Dust collected in the 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 the categories of wastes:

**(I) E-Waste:-**

E-Waste was not generated during year 2020-21.

**(II) Used Oil:-**

Used Oil Generated from Machineries / Equipment's. It is stored in closed containers at dedicated Used Oil Storage yard and is sold out to the CPCB authorized recyclers. No used oil generated in 2020-21.

**(III) Bio-Medical waste:-**

Bio-medical waste was generated in small quantity at First Aid center and collected by authorized recycler (**Annexure-IV**).

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

M/s Shree Cement Ltd. (Aerated Autoclave Concrete Block) is a high quality, lightweight, building material produced as standard block. It is a green product, which is natural and nontoxic energy saving construction material. This product is an ideal replacement of red clay brick which is conventionally used for walling. The stack emissions from the plant are controlled by pollution control equipment (i.e. Bag Filters) installed at material transfer points to clean the process and arrest the fugitive emissions. The particulate matter collected in the pollution control equipment is recycled in process and neutralizing the cost of operation of pollution control equipment's 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. It is our ongoing process and every year we are doing new tree plantation to increase the plantation density and bio-diversity of the area. Total Plant area of the site is 136537 m<sup>2</sup>. Total Plantation/greenbelt area is 45057 m<sup>2</sup>. Total number of trees under Plantation are 8775 till March, 2021, which is 33% of the site area and the survival rate of trees is 85 %. Expenditure has been incurred on Environment Management and protection including pollution abatement in the year of 2020-21 is given below-:

<b>FY-2020-21</b>		
<b>S. No.</b>	<b>Particulars</b>	<b>Cost Rs. (Lacs)</b>
1	Environmental Monitoring & compliances	5.32
2	Dust Collectors Installation & maintenance	31.14
3	Horticulture	9.02
4	Housekeeping, and Civil Work	49.13
5	Water spray	3.32
6	Others(New machines/ tools -purchased or maintenance)	0.21
	<b>Total</b>	<b>98.13</b>

**PART – I**  
**ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.**

1. We have full-fledged Environment Department for green belt development, monitoring and maintenance of pollution control equipment.
2. Monitoring of stack emission and ambient air and water quality is being done regularly in – house as well as NABL certified third party.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil and Personal & Administration departments taking care of Housekeeping.
5. Horticulture Section is taking care of tree plantation and green belt development. Every year we are growing new tree plantation.
6. All belts are covered and bag dust collectors have been provided at all material transfer points.
7. Domestic waste water is being treated at Sewage Treatment Plant (STP). This treated water is being utilized in plantation & gardening.
8. We are maintaining Zero Liquid Discharge (ZLD) from our premises.
9. AWLR with telemetry system has been installed for monthly ground water level monitoring.
10. Covered shed and Silos have been provided for raw material storage.
11. To recharge the ground water, constructed 10 Nos. of artificial rain water harvesting cum recharge structures in plant premises.

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

- Annexure-I : Ambient Air Quality Monitoring Report -2020-21  
 Annexure-II : Ambient Noise level monitoring data-2020-21  
 Annexure-III : Bio-Medical waste generation & disposal quantity-2020-21  
 Annexure-IV : STP treated water quantity-2020-21

**ANNEXURE-I**

**AMBIENT AIR QUALITY MONITORING REPORT - 2020-21(µg/m<sup>3</sup>)**

Location Month	Plant boundary near Main gate area				Plant boundary towards Raja Rampur village				Plant boundary towards CCR Building				Plant boundary near P&A office			
	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>2</sub>	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>2</sub>	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>2</sub>	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>2</sub>
Apr,20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
May,20	46	38	6.0	15.0	41	35	5.0	12.0	47	34	7.0	14.0	51	38	6.0	15.0
Jun,20	54	37	7.0	17.0	46	37	6.0	15.0	45	32	7.0	16.0	52	33	9.0	16.0
Jul,20	51	34	7.0	19.0	50	37	7.0	18.0	52	36	8.0	17.0	50	36	7.0	18.0
Aug,20	47	42	8.0	18.0	48	38	7.0	18.0	50	39	11.0	18.0	56	35	8.0	18.0
Sep,20	60	42	8.0	19.0	57	41	8.0	18.0	58	41	8.0	18.0	59	41	8.0	19.0
Oct,20	64	41	13.0	22.0	59	51	14.0	16.0	60	48	16.0	19.0	62	51	15.0	22.0
Nov,20	95	56	17.0	28.0	93	43	18.0	21.0	92	50	19.0	25.0	94	37	17.0	26.0
Dec,20	75	38	16.0	20.0	64	42	15.0	20.0	65	46	18.0	22.0	61	39	18.0	20.0
Jan,21	47	33	18.0	21.0	57	32	16.0	19.0	54	36	17.0	20.0	49	34	17.0	20.0
Feb,21	50	31	14.0	26.0	52	29	12.0	25.0	53	35	11.0	24.0	47	30	13.0	23.0
Mar,21	52	36	10.0	23.0	53	36	9.0	22.0	57	38	8.0	21.0	43	33	10.0	22.0
<b>Average</b>	<b>58.3</b>	<b>38.9</b>	<b>11.3</b>	<b>20.7</b>	<b>56.4</b>	<b>38.3</b>	<b>10.6</b>	<b>18.5</b>	<b>57.5</b>	<b>39.5</b>	<b>11.8</b>	<b>19.5</b>	<b>56.7</b>	<b>37.0</b>	<b>11.6</b>	<b>19.9</b>

**Noise level at Plant boundary –Leq dB (A) - 2020-21**

Limits/Norms: Day Time – 75 dB (A); Night time – 70 dB (A)						
Day time: 06:00 AM-10:00 PM & Night time: 10:00 PM to 06:00 AM						
Location Month	Plant boundary near Main gate area		Plant boundary towards Rajarampur village		Plant boundary towards CCR Building	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Apr,20	*	*	*	*	*	*
May,20	61.8	50.2	58.1	47.9	62.4	51.8
Jun,20	65.1	54.9	61.7	52	65.1	55.6
Jul,20	65.2	55.3	61.9	52.7	65.3	55.5
Aug,20	64.7	55.7	60.6	51.6	65.2	55.4
Sep,20	64.3	55.1	61.1	51.7	65.2	54.6
Oct,20	65.3	54.2	60.4	51.2	64.9	55.1
Nov,20	65.3	55.1	62.1	53	65.2	54.9
Dec,20	65.4	55.1	61.3	53.1	65.4	55.2
Jan,21	65.6	55.8	61.9	53.2	65.8	55.8
Feb,21	66.2	55.4	62.3	54.2	65.7	55.3
Mar,21	66.7	59.6	63.5	56.7	69.7	57.2
<b>Average</b>	<b>65.1</b>	<b>55.1</b>	<b>61.4</b>	<b>52.5</b>	<b>65.4</b>	<b>55.1</b>

**BIO-MEDICAL WASTE QUANTITY GENERATION & DISPOSAL - 2020-21**

S. No.	Month	Biomedical Waste Generation & Disposal Quantity ( Kg)
1	Apr,20	0.30
2	May,20	2.70
3	Jun,20	1.10
4	Jul,20	1.40
5	Aug,20	0.50
6	Sep,20	0.40
7	Oct,20	0.30
8	Nov,20	0.55
9	Dec,20	0.45
10	Jan-21	0.35
11	Feb-21	0.45
12	Mar-21	7.25 *
	<b>TOTAL</b>	<b>15.75</b>

\*Reason of increase: we have done all employees medical test in the month of March, 2021.

**Monthly domestic effluent quantity at 25 KLD STP -2020-21**

<b>Sr. No.</b>	<b>Month</b>	<b>Monthly total (KL)</b>
1	Apr,20	108
2	May,20	307
3	Jun,20	362
4	Jul,20	348
5	Aug,20	336
6	Sep,20	326
7	Oct,20	368
8	Nov,20	308
9	Dec,20	302
10	Jan-21	264
11	Feb-21	234
12	Mar-21	273
	<b>TOTAL(KL)</b>	<b>3536</b>

**PLANTATION AT AERATED AUTOCLAVE CONCRETE BLOCKS UNIT**

