



SHREE CEMENT LTD.

(Unit : U.P. Grinding Unit)

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

CIN No. : L26943RJ1979PLC001935

Phone : 05735 233100

Toll Free : 1800 180 6003 / 6004

Website : www.shreecement.in



SCL/UPGU/ ENV/2020-21/ 110

Date: 14/09/2020

To,
The Member Secretary,
Uttar Pradesh Pollution Control Board,
T.C. 12, Vibhuti Khand,
Gomtinagar, Lucknow)

Sub: - Environmental Statement of M/s U.P. Grinding Unit - Shree Cement Ltd. Plot No. 12, Sikandrabad Industrial Area of (UPSIDC), Sikandrabad, Dist. Bulandshahr (Uttar Pradesh) for the period of 2019-20.

Ref: - CTO No: -37710/UPPCB/Bulandshahar (UPPCBRO)/CTO/air/BULANDSHAHAR/2018 dated 15/12/2018


Sir,

Kindly refer to above subject matter and referred letter. In this regard we are submitting herewith the Environmental Statement Report of M/s U.P. Grinding Unit-Shree Cement Ltd. Plot No. 12, Sikandrabad Industrial Area of (UPSIDC), Sikandrabad, and District: Bulandshahr (Uttar Pradesh) for the period of April 2019 to March 2020.

This is for your kind information.

Thanking you,

Yours faithfully,
For U.P. Grinding Unit (A Unit of Shree Cement Ltd),


(Rajeev Kumar Jain)
Sr. G.M (Unit In-charge)

Copy to:

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

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Environmental Statement for U.P Grinding Unit of M/s Shree Cement Limited,
Plot No. 12, Sikandrabad Industrial Area of (UPSIDC),
Sikandrabad, District: Bulandshahr (Uttar Pradesh)
From: April, 2019 to March, 2020

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	M/S U.P Grinding Unit (A Unit of Shree Cement Ltd.) Plot No. 12, Sikandrabad Industrial Area of (UPSIDC), Sikandrabad, and District: Bulandshahr (Uttar Pradesh)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	3 MTPA Cement
4.	Year of Establishment	2015
5.	Date of the last Environmental Audit Report submitted	Unit was commissioned on 30.10.2015

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) **WATER CONSUMPTION:**

Process	:	N.A. (As plant is based on dry Process technology)
Cooling	:	17902 KL
Construction	:	Nil
Domestic	:	12273 KL

Name of Product	Process Water Consumption per Unit of Product Output (Cement)	
	During Previous Financial Year (Apr, 2018 to Mar, 2019)	During Current Financial Year (Apr, 2019 to Mar, 2020)
Cement	0.0120 KL/ MT of Cement	0.0108 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 (Apr, 2018 to Mar, 2019)	During Current Financial Year (Apr, 2019 to Mar, 2020)
1. Clinker	Cement	0.5564	0.5486
2. Gypsum		0.0690	0.1162
3. Fly Ash		0.3746	0.3352

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 (Apr, 2018 to Mar, 2019)	During Current Financial year (Apr, 2019 to Mar, 2020)
Fuel/ Diesel	Power	0.4202	0.4860

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

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

During Previous Financial Year (Apr, 2018 to Mar, 2019)	During Current Financial Year (Apr, 2019 to Mar, 2020)
Cement Mill	Cement Mill
28.49	30.67

(IV) TOTAL CEMENT PRODUCTION (MT):

During Previous Financial Year (Apr, 2018 to Mar, 2019)	During Current Financial Year (Apr, 2019 to Mar, 2020)
Cement Mill (MT)	Cement Mill (MT)
1705246	1651263

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

During Previous Financial Year (Apr, 2018 to Mar, 2019)	During Current Financial Year (Apr, 2019 to Mar, 2020)
N.A	N.A

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	As the plant is being operated on dry process technology, no liquid effluent is generated from the Clinker Grinding Unit. The waste water generated from the office toilet and canteen is being treated in existing STP (Capacity 25 KLD) 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, 2018 to Mar, 2019)	During Current Financial Year (Apr, 2019 to Mar, 2020)
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 = 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.	N.A.

PART – E
SOLID WASTE

		Total Quantity	
		During Previous Financial Year (Apr, 2018 to Mar, 2019)	During Current Financial Year (Apr, 2019 to Mar, 2020)
(a)	From Process	N.A	Nil
(b)	From Pollution Control Facility	Dust collected in the Bag Houses and Bag Filters are recycled to the system.	

(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 2019-20.

(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.

(III) Bio-Medical waste:-

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

(IV) Battery waste:-

No battery waste was generated during year 2019-20.

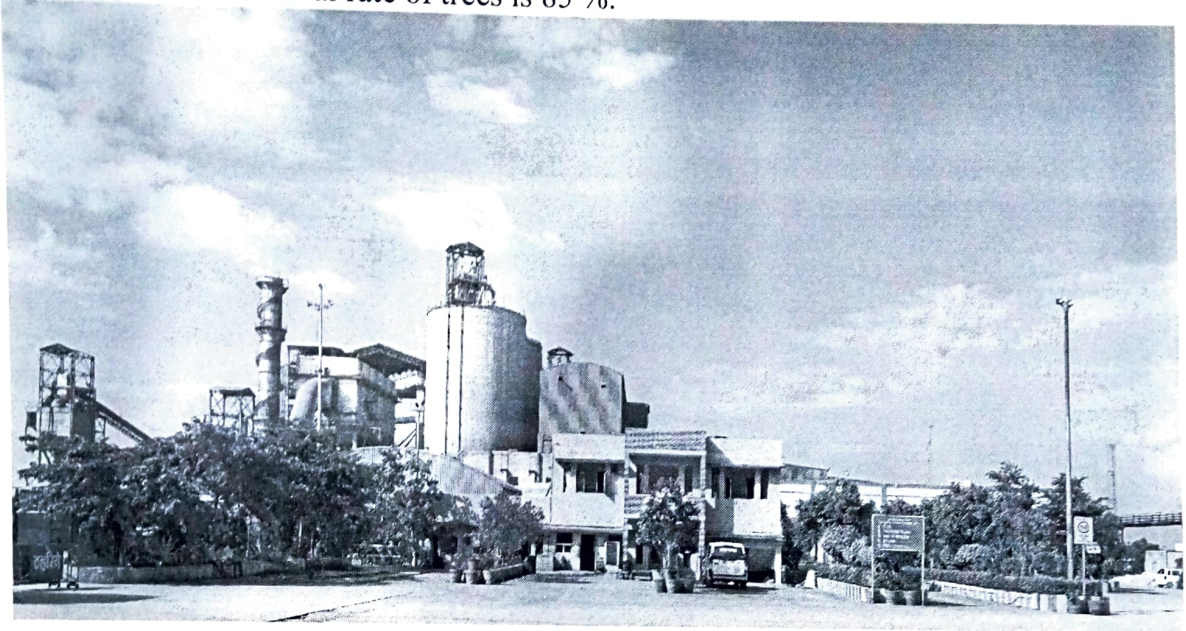
PART – G

IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION

M/s U.P. Grinding Unit (A Unit of Shree Cement Limited) 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 in process and neutralizing the cost of operation of pollution control equipment's and hence no cost impact on the production cost. Further fly ash is also being utilized in the production of PPC cement thus eliminating the harmful impacts on environment.

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 plantation density and bio-diversity of the area. Total Plant area of the site is 137593 sq.m. .Total Plantation/greenbelt area is 45405 sq.m.. Total number of trees under Plantation are 6985, which is 33% of the site area and the survival rate of trees is 85 %.



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. Piezometer AWLR is constructed for monthly water level monitoring.
10. Covered shed and Silos have been constructed for raw material storage.

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

- Annexure-I : Ambient Air Quality Report (SPM, SO₂ and NO_x)
 Annexure-II : Stack Emission Report
 Annexure-III : Noise level monitoring data
 Annexure-IV : Bio-Medical waste generated quantity

ANNEXURE-I

AMBIENT AIR QUALITY ($\mu\text{g}/\text{m}^3$) FOR YEAR 2019-20

Location Month	Plant boundary near main gate area				Plant boundary towards Raja Rampur village.				Plant boundary towards CCR building			
	PM10	PM2.5	SO ₂	NO ₂	PM10	PM2.5	SO ₂	NO ₂	PM10	PM2.5	SO ₂	NO ₂
Apr-19	59	43	10	17	55	39	7	16	58	41	9	17
May-19	58	41	11	17	56	38	7	15	58	39	10	17
Jun-19	56	41	10	16	54	38	7	15	56	38	9	16
Jul-19	54	39	9	15	51	33	8	14	54	40	9	16
Aug-19	56	38	8	17	53	35	7	14	57	38	9	17
Sep-19	54	35	8	17	52	33	6	14	53	36	8	16
Oct-19	56	38	10	19	54	36	9	18	56	38	10	18
Nov-19	61	40	11	19	55	39	10	19	58	40	11	20
Dec-19	74	46	11	20	68	44	10	19	71	44	11	20
Jan-20	63	43	10	19	56	39	9	17	62	41	11	19
Feb-20	60	41	9	17	55	37	8	18	61	41	11	20
Mar-20	57	38	8	18	56	37	9	17	57	40	10	19
Average	59	40	10	18	55	37	8	16	58	40	10	18

ANNEXURE-II

STACK EMISSION LEVEL (mg/Nm^3) FOR YEAR 2019-20

Sr. No.	Month	Pollution Control Measures	PM (mg/Nm^3)
1	April-19	Bag House	18
2	May-19	Bag House	19
3	June-19	Bag House	22
4	July-19	Bag House	23
5	August-19	Bag House	24
6	September-19	Bag House	23
7	October-19	Bag House	22
8	November-19	Bag House	25
9	December-19	Bag House	23
10	January-20	Bag House	25
11	February-20	Bag House	25
12	March-20	Bag House	24
Average			23

ANNEXURE-III**NOISE LEVEL (Leq-dB (A) FOR YEAR 2019-20**

S. No.	Monitoring Location Month	Plant boundary near main gate area		Plant boundary towards Raja Rampur village.		Plant boundary towards CCR building	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
01.	Apr-19	64.3	55.9	60.2	51.8	65.7	55.9
02.	May-19	65.6	56.1	60.7	51.3	64.9	54.3
03.	Jun-19	65.5	55.8	61.6	51.9	65.7	55.5
04.	Jul-19	64.7	55.6	61.2	52.1	65.5	55.4
05.	Aug-19	65.7	55.6	62	52.5	65.1	54.6
06.	Sep-19	64.6	55.9	59.9	50.6	64.2	54.4
07.	Oct-19	65.8	54.9	61.2	52.3	64.8	55.7
08.	Nov-19	65.9	55.3	61.7	52.9	65.3	55.6
09.	Dec-19	65.7	55.6	61.9	52.8	65.5	55.8
10.	Jan-20	66.1	55.8	61.6	52.5	65.4	55.9
11.	Feb-20	65.2	55.4	60.5	52.6	64.9	55.2
12.	Mar-20	64.7	54.5	60.8	51.9	64.7	54.8
Average		65.3	55.5	61.1	52.1	65.1	55.3

ANNEXURE-IV**Bio-Medical waste quantity generated during 2019-20**

S. No.	Month	BIOMEDICAL WASTE GENERATION & DISPOSAL (Kg)
1	April,19	1.4
2	May,19	0.5
3	June,19	0.5
4	July, 19	1.15
5	August,19	0.35
6	September,19	0.8
7	October,19	0.75
8	November,19	0.15
9	December,19	5.1
10	January,20	1.2
11	February,20	0.5
12	March,20	0.55
TOTAL		12.95

*Reason of increase: During December 2019 we have done all employees medical test