O/C.

CIN No. : L26943RJ1979PLC001935
Phone : 05735 233100
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Website : www.shreecement.in

SHREE CEMENT LTD.

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

SCL/UPGU/ ENV/ESR/2021-22/ 199

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

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

Sub: - Submission of Environmental Statement Report by M/s U.P. Grinding Unit (A unit of Shree Cement Ltd.) situated at Plot No. 12, UPSIDC, Sikandrabad Industrial Area, Sikandrabad, and Distt. Bulandshahar (Uttar Pradesh) for the period of 2020-21.

Ref: - CTO No. 99561/UPPCB/Bulandshahar (LAB)/CTO/Air/ BULANDSHAHAR/ 2020 dated 05/11/2020. & CTO No: -101717/UPPCB/Bulandshahar (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 U.P. Grinding Unit (A unit of Shree Cement Ltd.) situated at Plot No. 12, UPSIDC, Sikandrabad Industrial Area, Sikandrabad, and Distt. Bulandshahar (Uttar Pradesh) for the period of April, 2020 to March, 2021.

This is for your kind information and record please.

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

Rajeev Kumar Jain
(Unit In-Charge)

Copy to: **1. The Regional Officer,**
Uttar Pradesh Pollution Control Board,
F-5, Yamunapuram (Behind MMR Mall), Bulandshahar - 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.)

O/C Environment Deptt.

Environmental Statement Report for M/s U.P Grinding Unit (A Unit of Shree Cement Ltd.), Plot No. 12, UPSIDC, Sikandrabad Industrial Area, Sikandrabad
District: Bulandshahar (Uttar Pradesh)
From: April, 2020 to March, 2021

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, UPSIDC, Sikandrabad Industrial Area, Sikandrabad, District-Bulandshahar (Uttar Pradesh)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	3.0 MTPA Cement
4.	Year of Establishment	2015
5.	Date of the last Environmental Audit Report submitted	14.09.2020

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

Process	:	N.A. (As plant is based on dry process technology)
Cooling	:	25749 KL
Construction	:	Nil
Domestic	:	13434 KL

Name of Product	Process Water Consumption per Unit of Product Output (Cement)	
	During Previous Financial Year **(Apr, 2019 to Mar, 2020)**	During Current Financial Year **(Apr, 2020 to Mar, 2021)**
Cement	0.0108 KL/ MT of Cement	0.0121 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, 2019 to Mar, 2020)**	During Current Financial Year **(Apr, 2020 to Mar, 2021)**
1. Clinker	Cement	0.5486	0.5522
2. Gypsum		0.1162	0.1071
3. Fly Ash		0.3352	0.3407

RAW MATERIAL CONSUMPTION: (D.G. Set 250 KVA)

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, 2020 to Mar, 2021)**
Fuel/ Diesel	Power	0.4860	0.4716

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

(III) POWER CONSUMPTION (Kwh/Ton of cement):

During Previous Financial Year **(Apr, 2019 to Mar, 2020)**	During Current Financial Year **(Apr, 2020 to Mar, 2021)**
Cement Mill	Cement Mill
30.67	30.03

(IV) TOTAL CEMENT PRODUCTION (MT):

During Previous Financial Year **(Apr, 2019 to Mar, 2020)**	During Current Financial Year **(Apr, 2020 to Mar, 2021)**
Cement Mill (MT)	Cement Mill (MT)
1651263	2126342

(V) TOTAL D.G. POWER PRODUCTION (Kwh-250 Kva):

During Previous Financial Year **(Apr, 2019 to Mar, 2020)**	During Current Financial Year **(Apr, 2020 to Mar, 2021)**
570	937

PART – C
DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a)	Not Applicable as no waste water generated from the process.	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)	Stack emission data for applicable parameters in Kg/Day	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 (Cement manufacturing (Grinding) is based on "Dry Process" No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipment's)	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, 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 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 2020-21.

(II) Bio-Medical waste:-

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

(III) Battery waste:-

Battery Waste was not generated during year 2020-21

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 Ltd.) 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. 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^2. Total Plantation/greenbelt area is 45057 m^2. 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-:

FY-2020-21		
S. No.	**Particulars**	**Cost Rs. (Lacs)**
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
	Total	**98.13**

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 sheds 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	: Stack Emission Monitoring Report-2020-21
Annexure-III	: Ambient Noise level monitoring data-2020-21
Annexure-IV	: Bio-Medical waste generation & disposal quantity-2020-21
Annexure-V	: STP treated water quantity-2020-21

ANNEXURE-I

AMBIENT AIR QUALITY MONITORING REPORT FOR YEAR 2020-21(µg/m3)

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	SO2	NO2	PM 10	PM 2.5	SO2	NO2	PM 10	PM 2.5	SO2	NO2	PM 10	PM 2.5	SO2	NO2
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
Average	**58.3**	**38.9**	**11.3**	**20.7**	**56.4**	**38.3**	**10.6**	**18.5**	**57.5**	**39.5**	**11.8**	**19.5**	**56.7**	**37.0**	**11.6**	**19.9**

ANNEXURE-II

STACK EMISSION LEVEL MONITORING REPORT YEAR 2020-21

Month	PM (mg/Nm^3)	Dust Load (T/month)	Dust load (Kg/day)	Pollution Control Measures
Apr-20	25	0.525	16.94	Bag House
May-20	26	2.531	81.65	Bag House
Jun-20	22	2.722	90.73	Bag House
Jul-20	24	2.896	90.42	Bag House
Aug-20	23	3.042	98.13	Bag House
Sep-20	22	3.563	118.77	Bag House
Oct-20	24	3.589	115.77	Bag House
Nov-20	25	3.308	110.27	Bag House
Dec-20	26	4.053	130.74	Bag House
Jan-21	21	2.869	92.55	Bag House
Feb-21	23	3.525	125.89	Bag House
Mar-21	20	3.383	109.13	Bag House

ANNEXURE-III

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
Average	**65.1**	**55.1**	**61.4**	**52.5**	**65.4**	**55.1**

ANNEXURE-IV

BIO-MEDICAL WASTE QUANTITY GENERATION & DISPOSAL DURING 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 *
	TOTAL	**15.75**

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

Annexure-V

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

Sr. No.	Month	Monthly total (KL)
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
	TOTAL(KL)	**3536**

PLANTATION AT PLANT PREMISES