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# BANGUR CEMENT UNIT

(A UNIT OF SHREE CEMENT LTD.)

Near N.H.No.62, Village-Rohi, Udaipur-Udasar,  
Tehsil-Suratgarh-335804, Distt.-Sriganganagar (Raj.) India



SCL/BCU/ ENV/ESR/2018-19/10485-87

Date: 11/09/2019

To,  
The Member Secretary,  
Rajasthan State Pollution Control Board  
4, Institutional Area, Jhalana Doongri,  
JAIPUR-302004 (Rajasthan)

File No-

**Sub: - Environmental Statement of Bangur Cement Unit (A Unit of Shree Cement Limited) at village- Rohi, Udepur-Udasar, Tehsil- Suratgarh, District- Shri Ganganagar (Rajasthan) for the period of 2018-19.**

Ref: - CTO File No: G (CPM)/1000/3944(1)/2017-2018/9381-9383 dated 07<sup>th</sup> Feb, 2018.

Sir,

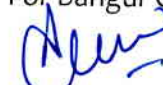
Kindly refer to above subject matter and reference letter. In this regards, we are submitting herewith the Environmental Statement of Bangur Cement Unit (A Unit of Shree Cement Limited) at village- Rohi, Udepur-Udasar, Tehsil- Suratgarh, District- Shri Ganganagar (Rajasthan) for the period of 2018-19.

This is for your kind information.

Thanking you,

Yours faithfully,

For Bangur Cement Unit (A Unit of Shree Cement Limited), Suratgarh

  
(Arun Agarwal)

General Manager (Unit In-charge)

Copy to: 1) The Regional Officer, Regional Office, Rajasthan State Pollution Control Board, 33, Phase-II, Bichwal Industrial Area, Bikaner.

2) The Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (Central Region), Kendriya Bhavan, 5th Floor, Sector 'H' Aliganj, Lucknow (U.P.),

**BEAWAR OFFICE :** Bangur Nagar, Post Box No. 33, Beawar 305 901 (Raj.)

Phone : 01462 228101-6, Fax : 01462 228117 / 119

**JAIPUR OFFICE :** SB-187, Opp. Rajasthan University, Bapu Nagar, JLN Marg, Jaipur-302015

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**Environmental Statement for Clinker Grinding Unit of Bangur Cement Unit  
(A Unit of Shree Cement Limited) at village- Rohi, Udepur-Udasar, Tehsil-  
Suratgarh, District- Shri Ganganagar (Rajasthan)  
From: April, 2018 to March, 2019**

**PART – A**

1.	Name and address of the Owner / Occupier of the Industry operation or process	Bangur Cement Unit (A Unit of Shree Cement Limited) at village- Rohi, Udepur-Udasar, Tehsil- Suratgarh, District- Shri Ganganagar (Rajasthan)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	4.5 MTPA Cement
4.	Year of Establishment	2018
5.	Date of the last Environmental Audit Report submitted	20.09.2018

**PART – B**

**WATER AND RAW MATERIAL CONSUMPTION**

**(I) WATER CONSUMPTION:**

Process : N.A. (As plant is based on dry Process technology)

Cooling : 12217 KL

Construction : Nil

Domestic : 19622 KL

Name of Product	Water Consumption per Unit of Product Output(Cement)	
	During Previous Financial Year	During Current Financial Year
Cement	0.0965 KL/ MT	0.0277 KL/MT

(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 (2017-2018)	During Financial Year (2018-2019)
1. Clinker	Cement	0.5760	0.5962
2. Gypsum		0.0854	0.1010
3. Fly Ash		0.3386	0.3028

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 Current Financial year
Fuel/ Diesel	Power	D.G. not operated so far	

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

During Previous Financial Year (2017-2018)	During Current Financial Year (2018-2019)
Cement Mill	Cement Mill
43.43	31.37

(IV) TOTAL CEMENT PRODUCTION (MT):

During Previous Financial Year	During Current Financial Year
Cement Mill (MT)	Cement Mill (MT)
23320	441056.0

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

During Previous Financial Year	During Current Financial Year
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 mess is treated by STP and used for plantation purpose	
(b)	Air	Please refer Annexure – 1, 2 & 3	

**PART – D**

## HAZARDOUS WASTE

(As specified under Hazardous & Other Wastes (Management & Trans boundary Movement) Rules amended up to 2016)

Hazardous Waste	Total Quantity (KL)	
	During Previous Financial Year	During Current Financial Year
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)	Nil	Nil
(b) From Pollution Control Facilities	N.A.	N.A.

**PART – E**

## SOLID WASTE

		Total Quantity	
		During Previous Financial Year	During Current Financial Year
(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 2018-19.

(II) Used Oil:-

Used oil was not generated during year 2018-19.

(III) Bio-Medical waste:-

Bio-medical waste was not generated during year 2018-19.

(IV) Battery waste:-

Battery waste was not generated during year 2018-19.

(V) Hazardous Waste Utilization:-

Cement manufacturing is based on “Dry Process”. No Hazardous waste is generated from the process except used oil.

(VI) Solid Wastes utilization: - N.A.

### **PART – G**

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

Bangur Cement Unit (A unit of 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 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**

- 1) 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. Till date we have developed plantation around 2403 trees & shrubs, this is around 6.8 % green area of the total plant area (30.75 Hect.).
- 2) Opacity meter installed for continuous stack emission monitoring and data transmitted online to server of CPCB & RPCB.
- 3) Replacement of HPSV & CFL lamps of plant area with LED lights and saved approx. 20.9 KW/Day.
- 4) We have installed 06 numbers of solar street lights with having capacity of 0.18 KW/hr watts all.
- 5) Two Nos Compressor DOL feeder convert into Delta Star Panel (In House Prepare) and saved energy 3.75 KW/Hr.
- 6) Two nos. root blowers stopped in both Cement Silo extraction circuit and saved energy 22KW/Hr.
- 7) New VFD installed in both MVR water spray pump, accurate water spray control & saved energy 4 KW/hr.
- 8) New 4 nos.screw feeders VFD installed and saved energy 2.5 KW/Hr.
- 9) Purging time reviewed for 21 Nos Bag Filter operations (purging off time optimized from 5 secs to 30 secs to optimize compressed air Consumption) and saved energy 55 KW/hr.
- 10) 21 Nos Bag Filter RPM optimized and saved energy 20 Kw/Hr.

#### **PART – I**

##### **ANY OTHER PARTICULATES 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 and ambient air and water quality is being done regularly.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.

4. Civil and Personal & Administration departments taking care for of Housekeeping.
5. Horticulture Section is taking care of tree plantation and green belt development. Plantation is under progress.

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

Annexure-I : Ambient Air Quality Report (SPM, SO<sub>2</sub> and NO<sub>x</sub>)

Annexure-II : Stack Emission Report

Annexure-III : Noise level monitoring data

**ANNEXURE-I**

**AMBIENT AIR QUALITY ( $\mu\text{g}/\text{m}^3$ ) FOR YEAR 2018-19**

Ambient Air Quality at Plant Boundary (in $\mu\text{g}/\text{m}^3$ )												
Location Month	Plant Main Gate				Plant boundary behind CCR building				Plant boundary near logistic building			
	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>x</sub>	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>x</sub>	PM 10	PM 2.5	SO <sub>2</sub>	NO <sub>x</sub>
April,18	48	27	13	18	51	28	11	19	49	34	14	20
May,18	47	30	10	21	50	31	10	17	47	29	12	17
June, 18	49	31	14	19	48	32	12	18	46	27	9	17
July,18	51	28	12	20	48	27	13	18	46	28	13	17
Aug,18	49	31	10	18	49	29	12	21	49	30	11	21
Sept,18	50	27	11	19	46	31	10	17	51	26	10	19
Oct, 18	56	36	13	18	60	30	14	22	59	34	12	20
Nov,18	62	32	11	21	58	39	13	17	54	31	10	19
Dec, 18	58	38	10	17	57	32	15	23	61	33	13	21
Jan, 19	61	37	10	15	60	39	12	19	64	40	12	21
Feb,19	57	41	12	16	58	38	14	15	65	39	15	23
March, 19	60	35	11	17	49	32	10	16	63	41	11	19
Average	54	33	11	18	53	32	12	19	55	33	12	20

**ANNEXURE-II**

**STACK EMISSION LEVEL ( $\text{mg}/\text{Nm}^3$ ) FOR YEAR 2018-19**

Sr. No.	Month	Pollution Control Measures	PM ( $\text{mg}/\text{Nm}^3$ )
1.	April,18	Bag House	19.7
2.	May,18	Bag House	21.2
3.	June, 18	Bag House	20.1
4.	July,18	Bag House	21.63
5.	Aug,18	Bag House	17.02
6.	Sept,18	Bag House	18.07
7.	Oct, 18	Bag House	18.07
8.	Nov,18	Bag House	18.57
9.	Dec, 18	Bag House	25.85
10.	Jan, 19	Bag House	21.45
11.	Feb,19	Bag House	18.63
12.	March, 19	Bag House	21.75
Average			20.17

## NOISE LEVEL (Leq-dB (A)) FOR YEAR 2018-19

Noise level at Plant boundary (in dB (A))						
Location Month	Plant Main Gate		Plant boundary behind CCR building		Plant boundary near logistic building	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
April,18	60.5	48.1	60.5	46.5	61.8	47.2
May,18	59.6	46.9	59.6	47.1	60.2	47.1
June, 18	58.3	46.2	63.2	46.7	59.9	46.7
July,18	57.4	46.7	55.8	45.9	55.3	47.4
Aug,18	59.2	47.3	57.2	46.1	49.9	45.8
Sept,18	56.7	48.1	56.1	47.7	54.6	46.2
Oct, 18	61.2	45.8	56.5	46.4	57.3	46.1
Nov,18	60.8	46.2	57.3	48.7	58.9	47.8
Dec, 18	59.2	44.9	58.1	49.1	55.5	50.1
Jan, 19	57.4	43.9	61.2	48.8	58.4	47.1
Feb,19	60.2	48.5	57.4	45.9	63.1	46.3
March, 19	58.9	46.1	55.7	47.5	62.4	49.1
Average	59.1	46.6	58.2	47.2	58.1	47.2