

o/c

CIN No. : L26943RJ1979PLC001935
Phone : 01462 228101-6
Toll Free : 1800 180 6003 / 6004
Fax : 01462 228117 / 228119
E-Mail : shreebwr@shreecementltd.com
Website : www.shreecement.in



SHREE CEMENT LTD.

Regd. Office:

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



SCL/Ras/Oxygen Plant/Env. Statement/2016-17

8529

Date: 20/09/2016

To,

File No. C-142

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

Sub: - Environmental Statement for the period from April 2015 to March 2016 for Unit-Oxygen Plant of M/s Shree Cement Limited situated at Village- Ras Bhingarh, Tehsil- Jaitaran, Dist- Pali (Raj).

Ref: - CTO No.- F.(CPM)/Pali(Jaitaran)/1024(1)/2013-2014/9179-9181 dated 30.03.2016

Sir,

We are submitting herewith Environmental Statement for the period from April 2015 to March 2016 for Unit-Oxygen gas Plant of M/s Shree Cement Limited situated at Village- Ras Bhingarh, Tehsil- Jaitaran, Dist- Pali (Raj).

This is for your kind information please.

Thanking you,
Yours faithfully,

For Shree Cement Ltd;

R. Bhargava

(Rakesh Bhargava)
Vice President (Environment)

V. Singh

Copy to:-

1. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Central Regional Office, Kendriya Bhawan, 5th Floor Sector H, Aliganj, Lucknow – 226024 (U.P.)
2. The Regional Officer (Regional Office), Rajasthan Board for the Prevention & Control of Pollution, S / A-6, Mandia Road, Industrial Area, Near Pali Urban Co-Operative Bank, PALI- MARWAR- 306401 (Raj.)

o/c - Environment Dept. Ras

ENVIRONMENTAL STATEMENT
M/s Shree Cement Limited: Unit- Oxygen Plant
Period from : April 2015 to : March 2016

FORM – V

PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Unit-Oxygen Gas Plant M/s Shree Cement Ltd. Village: Ras/Bhimgarh, Tehsil: Jaitaran, Dist:Pali - 306107 (Rajasthan)
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	80.00 M ³ / hrs. (Oxygen)
4.	Year of Establishment	2013
5.	Date of the last Environmental Statement Submitted	20/9/2015

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

Process	:	N.A. (Water is not used as process is Cryogenic Distillation technology)
Cooling and dust Suppression	:	Nil
Domestic	:	71710 KL (Common for Cement Plant & Power Plant and Mine)

(II) RAW MATERIAL CONSUMPTION: Atmospheric Air

(III) POWER CONSUMPTION (KWH/ M³ OF Oxygen):

During Previous Financial Year (2014-2015)	During Current Financial Year (2015-2016)
1.631	1.709

(IV) TOTAL OXYGEN PRODUCTION (M³):

During Previous Financial Year (2014-2015)	During Current Financial Year (2015-2016)
307837	310946

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)	Water	As the plant is being operated on Cryogenic Distillation technology, no liquid effluent is generated from the Oxygen plant. The waste water generated from the office toilet and mess is treated in STP and treated water is used in plantation. Analysis Report of STP treated water is attached as Annexure-3	

PART – D
HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rule, 2016)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2014-2015)	During Current Financial Year (2015-2016)
a) From Process (Cement manufacturing is based on “Dry Process” No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments)	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, D.G.Set and Nimbeti Limestone Mines. Total Quantity generated from April-2014 to March-2015 = 18480 Ltrs. Old Stock = 2730 Ltrs. Total Used oil = 21210 Ltrs. Sold-out to registered recycler = 21210 Ltrs. Balance Quantity= 0 Ltrs	Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, D.G.Set and Nimbeti Limestone Mines. Total Quantity generated from April-2015 to March-2016 = 22470 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 22470 Ltrs. Sold-out to registered recycler = 22470 Ltrs. Balance Quantity= 0 Ltrs
(b) From Pollution Control Facilities	N.A.	N.A.

PART – E
SOLID WASTE

NA

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 both the categories of wastes:

Hazardous Wastes

Oxygen manufacturing is based on “Cryogenic Distillation Technology”. No Hazardous waste is generated from the process except used oil which is drained from Machineries / Equipments. The used oil & Lead acid batteries are sold to CPCB authorized recyclers.

Bio-Medical Wastes:

Bio-medical waste generated is common for cement plant, power plant and mines during current financial year April 2015 to March 2016 under the Bio-Medical Waste (Management & Handling) Rules 2016, are as follows.

	Bio-Medical Waste Quantity (Kg) as per Colour Coding			
	Red (Cat 3 & 6)	Blue (Cat 4 & 7)	Yellow (Cat 1 & 2)	Black (Cat 5,9,10)
April 2015 to March 2016	25.38	38.7	47.41	26.05

Above mentioned waste has been sent to Sales Promoter, CBWTF Bio Medical Treatment Facility, Jaipur Bye Pass Road, Ajmer (Raj.) for disposal.

E- Wastes:

	Total Quantity	
	During Previous Financial Year (2014-2015)	During Current Financial Year (2015-2016)
From Process	820 Kg	Nil
From Pollution Control Facility	Nil	Nil

Solid Wastes: - N.A.

Battery Wastes:

As specified under Batteries (Management and Handling) Amendment Rules, 2010 we have purchased following new batteries of different categories is common for cement plant, power plant and mines -

1	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	During 1 st Apr 2015 to 31 st Mar 2016	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	145	6.050
	b) Two wheeler	Nil	Nil
	(ii) Industrial		
	a) UPS	294	2.352
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	439 Nos	8.402 MT
2	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer/dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent	During 1 st Apr 2015 to 31 st Mar 2016	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive		
	a) Four wheeler	128	6.738
	b) Two wheeler	Nil	Nil
	(ii) Industrial	Nil	Nil
	a) UPS	834	6.512
	b) Motive Power	Nil	Nil
	c) Stand –by	Nil	Nil
	(iii) Others	Nil	Nil
	Total	962 Nos.	13.25 MT

Used battery scrap was sent to CPCB authorized recycler

PART – G

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

Oxygen plant is not using any type of fuel

PART – H

ADDITIONAL MEASURES / INVESTMENTS PROPOSAL FOR ENVIRONMENT PROTECTION INCLUDING ABATEMENT OF POLLUTION

Green belt development and tree plantation is our ongoing process. Plantation has been carried out in an area of around 63.8 hectare with (Total land: 187.56 hc.)165311 trees, which is ~34 % of the total land of plant area.

PART – I

ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.

1. We have full-fledged Environment Department with three separate cells, for monitoring, maintenance of pollution control equipment and Green Belt development.
2. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
3. Civil deptt. taking care of House keeping.
4. Horticulture Department is taking care of tree plantation and green belt development. Every year we are doing tree plantation.

Annexure: 1

Shree Cement Ltd, Ras																								
Ambient Air Quality ($\mu\text{g}/\text{M}^3$) & Noise Level Monitoring Report For The Period Of April 2015 To Mar 2016																								
Common for Cement plant & Power plant																								
Year:-2015-2016																								
Location →	Plant Boundary Near Main Gate						Plant Boundary Near Mess						Plant Boundary towards Stacker & Reclaimer						Plant boundary towards village Khara & Jawangarh					
	AAQ in $\mu\text{g}/\text{M}^3$				Noise Level in dB(A)		AAQ in $\mu\text{g}/\text{M}^3$				Noise Level in dB(A)		AAQ in $\mu\text{g}/\text{M}^3$				Noise Level in dB(A)		AAQ in $\mu\text{g}/\text{M}^3$				Noise Level in dB(A)	
Parameter →	PM 2.5	PM-10	SO ₂	NO ₂	Day time	Night time	PM 2.5	PM 10	SO ₂	NO ₂	Day time	Night time	PM 2.5	PM 10	SO ₂	NO ₂	Day time	Night time	PM 2.5	PM 10	SO ₂	NO ₂	Day time	Night time
Apr-15	24.	45.9	8.9	11.5	67.5	54.2	24.9	45.9	8.9	11.5	66.1	57.1	29.8	51.9	8.8	11.4	67.2	62	28.3	52.4	9.0	11.6	67.1	57.1
May-15	23.	45.4	8.7	11.2	66.5	54.3	28.1	48.9	9.3	11.7	66.1	56	28.8	51.3	8.6	11.0	65.1	61	27.8	51.3	8.8	11.3	66.2	56.1
Jun-15	23.	44.5	8.5	11.0	64.0	52.1	27.4	46.8	9.1	11.5	65.1	55.1	27.9	49.8	8.4	10.8	66.3	62	26.4	49.9	8.6	11.0	65.1	55.1
Jul-15	23.	46.0	8.8	11.0	63.5	57.2	25.1	48.3	9.4	11.5	66.9	59.5	28.1	49.6	8.7	10.8	64.7	58.9	26.1	48.9	8.9	11.0	64.2	56.3
Aug-15	23.	44.1	8.5	10.9	63.1	53.1	27.5	45.5	9.0	11.4	64.1	57.2	27.1	48.6	8.3	10.7	65.1	59	26.8	49.9	8.6	10.9	66	56
Sep-15	22.	43.0	8.3	10.8	62.8	54.2	28.1	45.0	8.9	11.3	65.7	58.6	26.5	47.9	8.2	10.6	66.3	60.1	26.8	48.1	8.4	10.8	64.8	58.2
Oct-15	23.	44.3	8.8	10.9	63.8	55.3	28.0	46.8	9.4	11.3	66.4	59.2	26.6	47.0	8.7	10.7	67.2	61.2	26.4	48.6	8.9	10.9	65.8	59.6
Nov-15	24.	42.4	8.9	10.9	62.2	56.2	28.0	47.0	9.5	11.4	65.3	55.8	28.0	48.0	9.0	11.0	66.3	56.3	25.0	48.0	9.0	11.0	65.1	56.7
Dec-15	24.	42.4	8.9	10.9	61.3	55.2	28.0	47.0	9.5	11.4	64.6	53.5	26.6	46.1	8.8	10.8	67.2	56.3	24.6	46.6	8.9	10.9	63.1	55.3
Jan-16	25.	45.9	8.9	11.1	62.5	54.6	24.0	45.4	9.4	11.6	65.4	55.8	27.8	47.6	8.8	11.0	66.9	57.2	25.6	47.3	9.0	11.2	64.1	56.3
Feb-16	24.	43.9	8.8	11.3	61.0	50.1	23.5	46.0	9.4	11.7	62.5	57.6	28.3	46.4	8.7	11.2	60.3	52.3	26.1	45.8	8.9	11.3	65.3	53.2
Mar-16	24.	42.3	8.8	11.1	58.3	49.6	24.5	44.5	9.4	11.5	61.2	54.6	29.4	43.5	8.7	11.0	56.2	51.2	26.5	43.8	8.9	11.1	62.3	52.1
Average	24.	44.2	8.7	11.0	63.0	53.8	26.4	46.4	9.3	11.5	65.0	56.7	27.9	48.1	8.6	10.9	64.9	58.1	26.3	48.4	8.8	11.1	64.9	56.0

Annexure: 2

(STP Treated Water Quality, Year 2015-2016)														
S. No.	Parameter ↓	Apr-15	May-15	Jun-15	July-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Avg.
1	pH	7.5	7.3	7.4	7.5	7.3	7.8	7.6	7.4	7.5	7.6	6.8	6.9	7.4
2	Suspended Solids	60.1	59.1	58.2	59.7	59.1	52.4	54.2	55.4	57.0	56.8	58.1	59.1	57.4
3	Oil and Grease	0.3	0.2	0.1	0.4	0.1	0.2	0.3	0.2	0.3	0.4	0.2	0.1	0.2
4	BOD 3days 27°C	17.1	16.5	15.5	14.8	14.2	12.3	11.3	12.1	13.8	12.8	11.8	11.5	13.6
5	COD	71.2	70.1	69.1	70.2	70.2	67.9	68.4	72.3	71.3	72.4	80.1	75.3	71.5