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# SHREE CEMENT LTD.

An ISO 9001, 14001, 45001 & 50001 Certified Company

Regd. Office:

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA

SCL/Ras/Oxy Plant/Env. Statement/2020-2021

6032

Date : 10/09/2020

Speed Post

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

File No. C-142

Sub: - Environmental Statement for the period from April 2019 to March 2020 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

Respected Sir,

We are submitting herewith Environmental Statement for the **period from April 2019 to March 2020** 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;

for

**(Dr. Anil Kumar Trivedi)**

**Sr. GM (Environment)**

Copy to:-

1. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Central Regional Office, Kendriya Bhawan, 5<sup>th</sup> 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.)

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

Phone : 0141 4241200, 4241204

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110002

Phone : 011 23370828, 23379218, 23370776

CORP. OFFICE : 21, Strand Road, Kolkata 700001 Phone : 033 22309601-4 Fax : 033 22434226

o/c SCL-  
Ras

**ENVIRONMENTAL STATEMENT**

**FORM – V**

**M/s Shree Cement Limited: Unit- Oxygen Plant**  
**Period from: April 2019 to March 2020**

**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 <sup>3</sup> / hrs. (Oxygen)
4.	Year of Establishment	2013
5.	Date of the last Environmental Statement Submitted	10/9/2019

**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 : 63987 KL (Common for Cement Plant, Power Plant and Mine)

**(II) RAW MATERIAL CONSUMPTION: Atmospheric Air**

**(III) POWER CONSUMPTION (KWH/ M<sup>3</sup> OF Oxygen):**

<b>During Previous Financial Year (2018-2019)</b>	<b>During Current Financial Year (2019-2020)</b>
1.605	1.624

**(IV) TOTAL OXYGEN PRODUCTION (M<sup>3</sup>):**

<b>During Previous Financial Year (2018-2019)</b>	<b>During Current Financial Year (2019-2020)</b>
338296	287909

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

<b>Pollutants</b>	<b>Quantity of Pollutants Discharged (Mass/Day)</b>	<b>Concentration of Pollutants in Discharge (Mass/Value)</b>	<b>Percentage of variation from prescribed standard with reasons</b>
(a)	Water	As the plant is being operated on dry process technology, no liquid effluent is generated from the cement plant. The waste water generated from the office toilet and canteen is being treated in STP and treated water & sludge generated is being used in planation & horticulture activities. Analysis Report of STP treated water is attached as <b>Annexure-3</b>	

**PART – D**  
**HAZARDOUS WASTE**

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

Hazardous Waste	Total Quantity (Ltrs.)	
	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
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)	<p>Common authorization for Hazardous Waste Management &amp; Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant, D.G.Set and Nimbeti Limestone Mines.</p> <p>Total Quantity generated from April-2018 to March-2019 = 12780 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 12780 Ltrs. Sold-out to registered recycler = 0.0 Ltrs. Co-processed in cement kiln = 12780 Ltrs. Balance Quantity= 0 Ltrs</p>	<p>Common authorization for Hazardous Waste Management &amp; Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant, D.G.Set and Nimbeti Limestone Mines.</p> <p>Total Quantity generated from April-2019 to March-2020 = 26820 Ltrs. Old Stock = 0 Ltrs. Total Used oil = 26820 Ltrs. Sold-out to registered recycler = 0.0 Ltrs. Co-processed in cement kiln = 26820 Ltrs.</p>
(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

A. Cement manufacturing is based on “Dry Process” technology. No Hazardous waste is generated from the process except used oil which is drained from machineries / equipment. Used oil is being Co-processed in cement kiln as authorization obtained from RSPCB. Old and scrap lead acid batteries are sold to CPCB authorized recyclers.

Sr. No.	Particulars	Total Quantity	
		During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
1	Used oil (Co processed in Cement Kiln)	12780 KL	26820 KL
2	Lead acid battery waste (Sell to authorized recycler)	7.854 MT	4.986 MT

B. Hazardous wastes were received and co-processed as specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rule, 2016) during the Current Financial Year (2019-2020) – (During the Period of April -2019 to March-2020

S. No.	Type of hazardous waste	Category	Quantity (MT)
1	a) Paint Sludge	21.1	1913.782
2	b) ETP/CETP Sludge	35.3	21572.714
3	c) Phosphate sludge	12.5	199.395
4	d) Oil soaked cotton, Industrial Waste, residue containing oil, Grinding sludge etc.	5.2	4526.749
5	e) Spent acid	26.3	33072.88
6	f) Incineration ash	36.2	95.685

7	g) SOBM	2.1	32126.544
8	h) Cotton rags	33.2	68.645
9	i) Spent Clay	4.5	501.973
10	j) Waste or residues	23.1	2099.45
11	k) Organic Residue	4.4	33.402
12	l) Spent Carbon	28.3	293.33
13	m) Co-Incenerable waste	28.2	668.12
14	n) Distillation residue	28.1	684.92
15	o) Spent Solvent	28.6	551.915
16	p) Plastic waste	33.1	25.42
17	q) Iron Sludge	26.1	1036.34
18	r) Other Waste	N.A	354.84
Total Quantity			99826.104

### **Bio-Medical Wastes:**

Bio-medical waste generated is common for cement plant, power plant and mines. During current financial year April-2019 to March-2020 under the Bio-Medical Waste (Management & Handling) Rules 2016, are as follows.

	<b>Bio-Medical Waste Quantity (Kg) as per Color Coding</b>			
	<b>Red</b>	<b>Blue</b>	<b>Yellow</b>	<b>White</b>
<b>April 2018 to March 2019</b>	39.21	28.448	41.065	32.01
<b>April 2019 to March 2020</b>	49.00	46.3	19.83	24.171

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
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	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil

**Solid Wastes:** - Other Municipal solid waste generated from all units (Cement Plant, Power Plant, Synthetic Gypsum plant and Nimbeti Limestone Mines) of the entire campus is being collected, manage and disposed as per MSW Rules, 2016.

**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 -

	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	Previous Year Financial Year (1 <sup>st</sup> Apr 2018 to 31 <sup>st</sup> Mar 2019)		Current Year Financial Year (1 <sup>st</sup> Apr 2019 to 31 <sup>st</sup> Mar 2020)	
		(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
1.	Category:				
	(i) Automotive				
	a) Four wheeler	219	9.568	195	4.917
	b) Two wheeler	Nil	Nil	Nil	Nil
	(ii) Industrial				
	a) UPS	66	0.563	310	9.166
	b) Motive Power	Nil	Nil	Nil	Nil
	c) Stand –by	Nil	Nil	Nil	Nil
	(iii) Others	Nil	Nil	3	0.004
	Total	285 Nos	10.131 MT	508 Nos	14.087 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	Previous Year Financial Year (1 <sup>st</sup> Apr 2018 to 31 <sup>st</sup> Mar 2019)		Current Year Financial Year (1 <sup>st</sup> Apr 2019 to 31 <sup>st</sup> Mar 2020)	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)
	(i) Automotive				
	a) Four wheeler	301	7.854	168	4.986
	b) Two wheeler	Nil	Nil	Nil	Nil
	(ii) Industrial				
	a) UPS	112	0.896	0	0
	b) Motive Power	Nil	Nil	Nil	Nil

c) Stand -by	Nil	Nil	Nil	Nil
(iii) Others	Nil	Nil	Nil	Nil
Total	<b>413 Nos</b>	<b>8.750 MT</b>	<b>719 Nos</b>	<b>9.394 MT</b>

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 within our plant area and also outside the plant boundary. Every year we are doing new tree plantation to increase the density and bio-diversity of the area. Plantation has been carried out in an area of around 63.8 hectare with (Total land: 187.56 ha.) 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 Housekeeping.
4. Horticulture Department is taking care of tree plantation and green belt development. Every year we are doing tree plantation.



<b>Shree Cement Ltd, Ras</b>																
<b>Ambient Air Quality (<math>\mu\text{g}/\text{m}^3</math>) Monitoring Report For The Period Of April 2019 To March 2020</b>																
<b>Common for Cement plant &amp; Power plant</b>																
<b>Year:-2019-2020</b>																
Location →	Plant Boundary Near Main Gate				Plant Boundary Near Mess				Plant Boundary towards Stack & Reclaimer				Plant boundary towards village Khera & Jawangarh			
	AAQ in $\mu\text{g}/\text{m}^3$				AAQ in $\mu\text{g}/\text{m}^3$				AAQ in $\mu\text{g}/\text{m}^3$				AAQ in $\mu\text{g}/\text{m}^3$			
Parameter →	PM 2.5	PM10	SO <sub>2</sub>	NO <sub>2</sub>	PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>2</sub>	PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>2</sub>	PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>2</sub>
Apr-2019	34.5	48.1	8.4	11.2	35.1	46.3	7.3	10.9	33.6	46.3	8.0	10.9	32.3	40.5	7.7	10.5
May-2019	32.9	46.8	8.7	12.0	33.8	43.6	8.7	11.2	32.5	44.6	8.4	11.3	31.8	41.4	8.0	10.9
Jun-2019	34.6	48.3	8.5	11.3	34.9	46.9	8.4	11.6	34.3	43.9	8.2	11.2	31.6	43.1	7.8	10.8
Jul-2019	28.9	41.8	8.1	10.4	29.4	41.0	8.1	10.8	31.1	42.9	8.0	10.7	28.9	39.6	7.5	10.1
Aug-2019	20.5	30.0	8.2	9.7	21.4	30.9	8.4	9.6	21.4	31.6	7.9	9.3	20.3	29.0	7.6	9.0
Sep-2019	26.8	36.3	8.2	9.7	25.5	36.1	8.2	9.7	28.0	38.8	6.9	9.5	25.3	35.5	7.6	9.1
Oct-2019	31.2	42.7	8.4	9.9	30.1	41.5	8.4	9.7	35.5	46.9	7.0	9.6	29.8	39.3	7.6	9.3
Nov-2019	33.4	53.3	8.9	12.1	32.5	48.0	8.9	11.9	31.8	44.8	7.5	11.8	27.5	44.0	8.1	11.4
Dec-2019	35.4	50.5	9.4	12.7	33.3	47.8	9.2	13.3	32.0	45.8	7.8	12.7	28.6	45.3	8.5	12.2
Jan-2020	36.9	53.9	9.8	13.9	29.9	49.4	10.	14.9	31.4	47.4	8.4	14.0	26.9	46.6	9.1	13.5
Feb-2020	35.6	51.8	10.3	14.1	34.3	52.3	10.	14.2	30.9	49.8	8.8	13.7	29.6	49.0	9.4	13.1
Mar-2020	33.7	53.0	9.9	12.8	31.5	51.5	9.9	13.0	29.0	51.8	7.6	12.9	28.5	48.2	9.0	12.3
<b>Average</b>	<b>32.0</b>	<b>46.3</b>	<b>8.9</b>	<b>11.6</b>	<b>31.0</b>	<b>44.6</b>	<b>8.8</b>	<b>11.7</b>	<b>30.9</b>	<b>44.5</b>	<b>7.9</b>	<b>11.5</b>	<b>28.4</b>	<b>41.8</b>	<b>8.2</b>	<b>11.0</b>

<b>Shree Cement Ltd, Ras</b>								
<b>Ambient Noise Level dB(A) Monitoring Report For The Period Of April 2019 To March 2020</b>								
<b>Common for Cement plant &amp; Power plant</b>								
<b>Year:-2019-2020</b>								
<b>Location</b> →	<b>Plant Boundary Near Main Gate</b>		<b>Plant Boundary Near Mess</b>		<b>Plant Boundary towards Stackers &amp; Reclaimer</b>		<b>Plant boundary towards village Khera &amp; Jawangarh</b>	
	<b>Noise Level in dB(A)</b>		<b>Noise Level in dB(A)</b>		<b>Noise Level in dB(A)</b>		<b>Noise Level in dB(A)</b>	
<b>Parameter</b> →	<b>Day time</b>	<b>Night time</b>	<b>Day time</b>	<b>Night time</b>	<b>Day time</b>	<b>Night time</b>	<b>Day time</b>	<b>Night time</b>
	Apr-2019	72.60	63.40	71.20	62.80	65.80	67.30	68.10
May-2019	71.80	66.20	72.1	62.80	66.90	65.80	62.60	59.90
Jun-2019	72.40	65.20	71.00	61.80	67.90	63.80	64.60	60.80
Jul-2019	71.90	64.10	70.50	61.40	68.90	64.50	64.60	60.90
Aug-2019	73.70	64.70	71.10	60.30	72.60	62.50	68.60	59.30
Sep-2019	73.20	67.20	72.00	63.20	69.50	62.00	67.50	61.00
Oct-2019	74.10	68.10	70.20	65.40	68.60	62.30	65.90	61.30
Nov-2019	72.30	67.60	65.60	58.80	70.60	65.80	67.20	62.40
Dec-2019	71.60	66.60	68.50	57.90	69.50	64.50	65.20	58.90
Jan-2020	71.90	65.60	64.60	59.60	72.60	62.20	62.60	59.60
Feb-2020	70.50	63.70	64.00	58.60	73.20	63.40	61.50	57.20
Mar-2020	71.90	60.60	64.90	59.40	72.20	61.70	60.30	56.80
<b>Average</b>	<b>72.33</b>	<b>65.25</b>	<b>68.51</b>	<b>61.00</b>	<b>69.86</b>	<b>63.82</b>	<b>64.89</b>	<b>59.85</b>

(STP Treated Water Quality, Year 2019-2020)

S. No.	Parameter ↓	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Avg.
1	pH	7.38	7.51	7.29	7.3	7.12	7.37	7.26	7.36	7.35	7.54	7.46	7.33	7.36
2	Total Suspended Solids	32	30	34	39	42	36	53	68	32	59	53	65	45.25
3	Oil and Grease	2	2.9	3.1	2.5	2.9	2.8	1.89	1.44	<4.0	2.84	1.85	2.03	2.39
4	BOD 3days 27°C	10	11	15	13	16	12	11	10	18	14.6	12.4	16.2	13.27
5	COD	79.9	61.2	58.4	60	55	43	59	74	47.8	75.1	89.5	93.2	66.34