

ADITYA BIRLA



28/UTCL/GCW/Plant ESR/2023-24  
PCB ID: 14813

Date: 21/09/2024

To  
The Member Secretary,  
GUJARAT POLLUTION CONTROL BOARD,  
Paryavaran Bhawan, Sector 10-A,  
GANDHINAGAR - 382010

**Sub.:** To submit the **Environment Statement Report in Form - V** for the Financial Year: 2023-24 for M/s. UltraTech Cement Limited, Unit: Gujarat Cement Works, At: Kovaya-365541, Taluka: Rajula, District: Amreli (Gujarat), (PCB ID: 14813).

Dear Sir,

Please find enclosed herewith the **Environment Statement Report in Form- V** for the Financial Year: **2023-24** for M/s. UltraTech Cement Limited, Unit: Gujarat Cement Works, Village: Kovaya-365541 Taluka: Rajula, District: Amreli (Gujarat) (PCB ID: 14813), against the Consolidated Consent & Authorization vide order No.: AWH -97041 dated 06.11.2018 and order no. AWH no.128375 dated 14.08.2023.

This is for your kind information and record please.

Thanking You.

**For, UltraTech Cement Limited,**  
**Unit: Gujarat Cement Works,**

  
Sambhav Srivastava  
Joint Executive President & Unit Head

Encl.: A/a

**Cc:** The Regional Officer, Gujarat Pollution Control Board, 1st floor, Swastik Complex, Plot No. 1616 – 1617 Near Vir Mokhdaji Circle, Ghogha Road, Bhavnagar, Gujarat



UltraTech Cement Ltd.  
Unit : Gujarat Cement Works,  
P.O. Kovaya, Tal. Rajula, Dist. Amreli,  
Gujarat-365 541

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Website www.ultratechcement.com

**FORM - V**  
[See Rule 14]

**Environmental Statement for the financial year ending the 31<sup>st</sup> March'2024 (FY: 2023-2024)**

**PART - A**

- (i). Name and address of the owner/ Occupier : **Sambhav Srivastava**  
of the industry/operation Or process. Joint Executive President & Unit Head  
M/s. Ultraech Cement Limited,  
Unit: Gujarat Cement Works,  
At Village: Kovaya-365541;  
Taluka: Rajula, District: Amreli (Gujarat).
- (ii). Industry Category - Primary (STC Code) / : Large Scale  
Secondary (STC Code)
- (iii). Production Capacity Units : 

S.No	Production	Capacity	Production/ Generation during 2023-24
1	CLINKER	5.70 MTPA	4.18 MTPA
2	CEMENT	8.0 MTPA	5.26 MTPA
3	WHRB	15 MW	7.98 MW
- (iv). Year of establish : 1996
- (v). Date of the Last Environmental Statement : 29.08.2023  
Submitted

Submission of Environmental Statement is in accordance with the provisions of Rule-14 of the Environment (Protection) Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22-4-1993, G.S.R 386 (E) in the Gazette of India - Extra Ordinary - Part- II, Section - 3, Sub-section [1] No. 155 dated 28-4-1993 by the Ministry of Environment and Forests, Government of India; read with the Notification dated 13-2-1993, G.S.R. 329(E) of the Gazette of India - Extraordinary Part - II Section - 3 Sub-section (i) No. 120 dated 13-3-1993.

"Every person carrying on an Industry, operation or process requiring consent under Section - 25 of the Water (Prevention & Control of Pollution) Act, 1974 (6 of 1974) and under Section - 21 of the Air (Prevention & Control of Pollution) Act, 1981 (14 of 1981) or both or authorization under the Hazardous Wastes (Management & Handling) Rules, 1989 published under the Environment (Protection) Act, 1986 (20 of 1986) shall submit an Environment Statement for the financial year ending the 31<sup>st</sup> March in Form-V to the concerned State Pollution Control Board on or before The Thirtieth Day of September every year beginning 1993".



**PART - B**

**Water and Raw Material Consumption:**

- (I). **Water Consumption m<sup>3</sup>/day:**  
Process & Cooling: 1491.9 m<sup>3</sup>/day  
Domestic: 343.9 m<sup>3</sup>/day

Name of Products	Process Water Consumption per unit of Product Output (in KL)	
	During the Previous Financial Year (2022-23)	During the Current Financial Year (2023-24)
Cement	0.101	0.11

- (II) **Raw Material Consumption:**

(*) Name of Raw Materials	Name of Products	Consumption of Raw Material per Unit Output (in MT)	
		During the Previous Financial Year: 2022-23	During the Current Financial Year: 2023-24
Limestone / Marl	Clinker	1.105	1.156
Sweetener	Clinker	0.324	0.282
Iron Ore & Sludge	Clinker	0.003	0.004
Bauxite, Laterite & Black trap	Clinker	0.077	0.067
Coal & Pet Coke	Clinker	0.086	0.081
Alternative Fuels	Clinker	0.017	0.025
Gypsum	Cement	0.050	0.044
Pozzolona / Fly Ash	Cement	0.119	0.129
Performance Improver	Cement	0.018	0.014

(\*) Industry may use codes if disclosing detail of raw material would violate contractual obligations otherwise all industries have to name the raw materials used.

**PART – C**

**Pollution Discharged to Environment/Unit of Output**  
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants Discharged Tonne/Day	Concentration of Pollutants in Discharges (Mass/Volume)	Percentage of Variation from Prescribed Standards with Reasons
(a). Water (b). Air	<b>Enclosed as Annexure-1A, 1B, 1C, 1D and 1E</b>		



**PART - D**

**HAZARDOUS WASTES**

**[As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016]**

Hazardous Wastes	Total Quantity (Kg.)	
	During the Previous Financial Year 2022-23	During the Current Financial Year 2023-24
(a). From Process  (b). From Pollution Control Facilities	Enclosed as Annexure-2	

**PART - E**

**SOLID WASTES**

Hazardous Wastes	Total Quantity (Kg.)	
	During the Previous Financial Year 2022-23	During the Current Financial Year 2023-24
(a). From Process (b). From Pollution Control Facilities (c) (1).Quantity recycled or reutilized within the unit. (2). Sold (3). Dispose	Not Applicable	

**PART - F**

**Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

Hazardous waste is sold to MoEF/GPCB/CPCB approved recycler / co-process in our cement kiln as per our CC&A condition. No solid waste is generated from cement dry process. Detail is enclosed as Annexure-2.

**PART - G**

**Impact of the pollution abatement measures taken on conservation of natural resources and or the cost of production.**

**On an average, 32 % of fly ash is utilized in manufacture of Portland Pozzolana cement during 2023-24, thereby limestone consumption per ton of cement is reduced and ultimately greenhouse gas i.e. CO<sub>2</sub> emission per ton of cement is also reduced.**



## PART – H

### **Additional measures/investment proposed for environmental protection including abatement of pollution/prevention of pollution.**

Plantation of the uprooted trees during Tauktae cyclone is being under progress in phase manner. Detail of the Plantation have done during 2023-24 is given in below table:

#### Plantation done during Fy: 2023-24

Location	Time Period	Total Trees Planted	Total Tree Survival (before Taukate)	Total Tree Survival (after Taukate) 31.10.2021	Tree planted in 2022-23	Tree Survival in 2023-24	Total Tree Survival till (Mar-2024)	Remarks
Mines Area	1996-2024	277606	243998	123625	6000	5362	134466	Plantation loss due to cyclone Tauktae from 17.05.2021 After Assessment by 3rd party the plantation report submission dated 31.10.2021
TPP	2009-2024	28344	27201	21016	159	143	23115	
Cement plant & Colony area	1996-2024	30604	27705	20531	300	280	23362	

The total expense towards environment protection / conservation during the year 2023-24 is about Rs. 582.69 Lacs, detail given in the below table.

#### Expense for environment protection / resource conservation during Fy: 2023-24

S. No.	Recurring cost	TOTAL in INR Lacs
1	Personnel for general environmental management activities	21.0
2	BMW Treatment and Disposal of Waste ( Costs)	1.28
3	Maintenance cost of the Air pollution control devices (bag house, ESP, etc)	296.57
4	Treatment of Sewage and effluent cost (operational and Maintenance cost)	74.18
5	Horticulture	149.66
6	Civil jobs like road repairing, drain cleaning, road sweeping, pucca road	40.0
<b>Total recurring Expenditure in INR Lacs</b>		<b>582.69</b>

The CSR expense during the year 2023-24 is about Rs. 155.83 Lacs, detail given in the below table



### CSR Expense – Fy: 2023-24

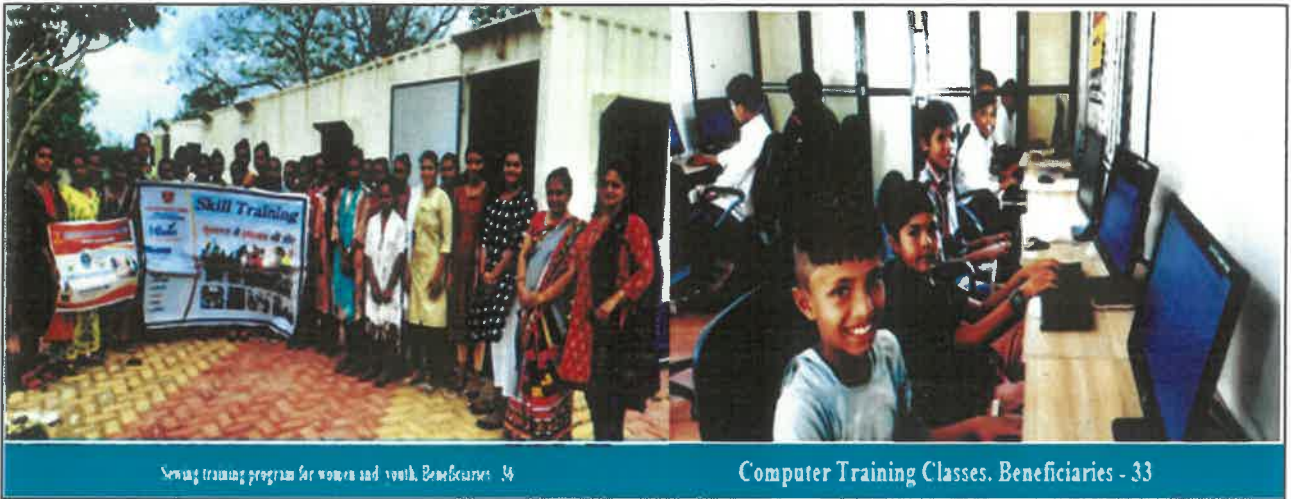
S.No	PARTICULARS	2023-24 in Lacs
1	Education	37.62
2	Health	20.48
3	Sustainable Livelihood	30.02
4	Infrastructure Development	36.82
5	Social Empowerment & Welfare	2.27
6	Others	28.62
<b>Grand Total in Lacs</b>		<b>155.83</b>

### PART – I

#### Any other particulars for improving the quality of the environment

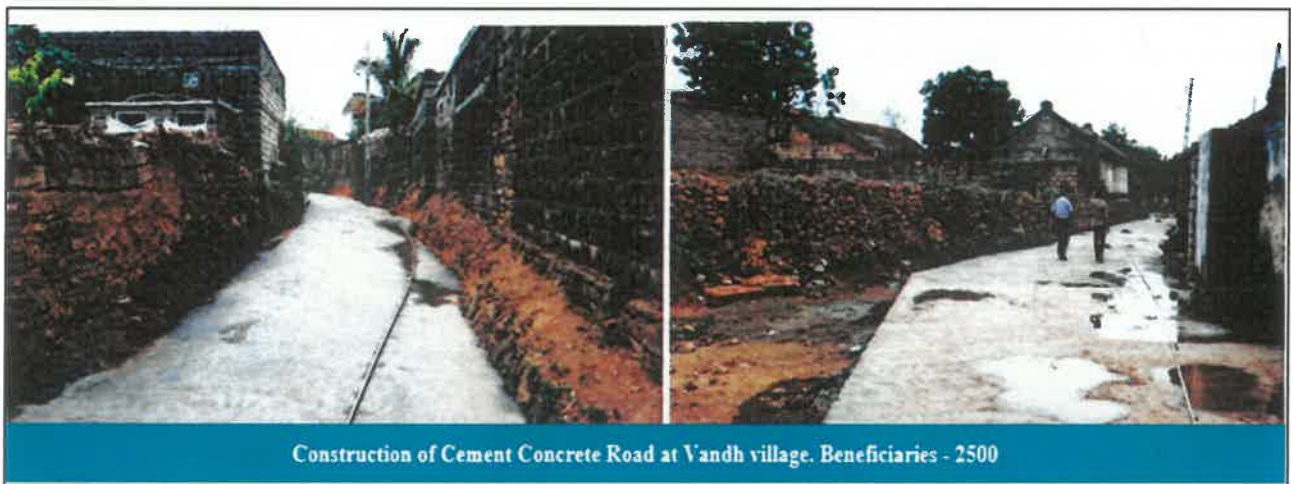
1. GCW commissioned ultra-filtration in STP and finally treated water from STP connected to cement plant cooling tower and started utilizing for industrial purpose and thereby reduction in fresh water use.
2. Bed ash generated from our Captive Thermal Plant is sent to brick manufacturer for making bricks.





Sewing training program for women and youth, Beneficiaries - 4

Computer Training Classes, Beneficiaries - 33



Construction of Cement Concrete Road at Vandh village, Beneficiaries - 2500

**Signature of a person carrying out an industry (operation or process)**

Date: 21.09.2024

Place: Kovaya

Name: **Sambhav Sriyastava**  
 Designation: **Joint Executive President & Unit Head**  
 Address: **UltraTech Cement Limited**  
**(Unit: Gujarat Cement Works)**  
**Village-Kovaya, Taluka- Rajula**  
**District- Amreli, (Gujarat)- 365541**



**Average Stack Emission Monitoring Results of  
Unit: Gujarat Cement Works of M/s. UltraTech Cement Limited,**

**During Period: April'2023 to March'2024**

**Pollution Discharge to Environment from Phase – I**

S. No.	Source	Pollutants	Limits (mg/Nm <sup>3</sup> )	Avg. Concentration	% Variation From Limit
1	Raw Mill & Kiln Exit Gases	PM	30	15.89	-47.03
2	Coal Mill Exit Gases	PM	30	14.63	-51.25
3	Clinker Cooler Exit Gases	PM	30	15.34	-48.86
4	Limestone Crusher	PM	30	14.82	-50.61

**Pollution Discharge to Environment from Phase – II**

S. No.	Source	Pollutants	Limits (mg/Nm <sup>3</sup> )	Avg. Concentration	% Variation From Limit
1	Raw Mill & Kiln Exit Gases	PM	30	16.36	-45.47
2	Coal Mill Exit Gases	PM	30	12.54	-58.19
3	Clinker Cooler Exit Gases	PM	30	14.58	-51.42
4	Limestone Crusher	PM	30	14.93	-50.22

**Pollution Discharge to Environment from Cement Mills**

S. No.	Source	Pollutants	Limits (mg/Nm <sup>3</sup> )	Avg. Concentration	% Variation From Limit
1	Cement Mill - 1	PM	30	13.96	-53.47
2	Cement Mill - 2	PM	30	16.34	-45.53
3	Cement Mill - 3	PM	30	16.56	-44.81
4	Cement Mill - 4	PM	30	14.42	-51.94

**Pollution Discharge to Environment from Cement Packing Plants**

S. No.	Source	Pollutants	Limits (mg/Nm <sup>3</sup> )	Avg. Concentration	% Variation From Limit
1	Cement Packing Plant-1	PM	30	14.30	-52.33
2	Cement Packing Plant-2	PM	30	14.87	-50.44
3	Cement Packing Plant-3	PM	30	14.58	-51.42
4	Cement Packing Plant-4	PM	30	17.58	-41.42



**Annexure - 1B**

Average Stack Emission Monitoring Results of					
Unit: Gujarat Cement Works of M/s. UltraTech Cement Limited,					
During Period: April'2023 to March'2024					
Pollution Discharge to Environment from DG Sets (2 x 6 MW=12MW)					
S. No.	Source	Pollutants	Limits (mg/Nm <sup>3</sup> )	Average Concentration	% Variation From Limit
1	DG Set-1	PM	150	--	--
		SO <sub>2</sub>	100	--	--
		NO <sub>x</sub>	50	--	--
2	DG Set-2	PM	150	--	--
		SO <sub>2</sub>	100	--	--
		NO <sub>x</sub>	50	--	--

**Note: DG set was not in operation during FY 2023-24. DG sets are only for standby mode.**

**Annexure – 1C**

Average RO/WHRs Plant Reject Water Analysis Results of				
During Period: April'2023 to March'2024				
S. No.	Particulars	Limits	Average Result	% Variation From Limit
1	pH	6.5 to 8.5	7.31	-13.47
2	Colour (Co. Pt. Scale) (Units)	100	28.50	-50.58
3	Temperature (°C) (Receiving / Discharge)	Not more than 5deg.cent. Higher than the receiving temperature	31/34	within limit
4	Total Suspended Solids (mg/l)	100	47.50	-46.58
5	Phosphates (mg/l)	6	3.31	-54.86
6	Hexavalent chromium (mg/l)	0.1	<0.01	within limit
7	Total Chromium (mg/l)	0.2	<0.01	within limit
8	Bio-Assay Test	90% survival of fish after 96 hours in 100% effluent	Average 95.4 % fish survived after 96 hours in 100% effluent	within limit

**Annexure – 1D**

Average Sewage Treatment Water Analysis Results of					
During Period: April'2023 to March'2024					
Parameters As Specified In Consent Issued for STP					
S. No.	Particulars		Limits	Average Concentration	% Variation From Limit
1	pH	-	6.6 to 9.0	7.20	-19.95
2	BOD	mg/l	30	7.65	-74.50
3	Total Suspended Solids (mg/l)	mg/l	<100	0.55	-99.45
4	Fecal Coliform	counts/100ml	<1000MPN	absent	-



Average Ambient Air Quality Monitoring Results					
During Period: <u>April'2023</u> to <u>March'2024</u>					
S. No.	Locations	Pollutants	Limit ( $\mu\text{g}/\text{m}^3$ )	Avg. Results ( $\mu\text{g}/\text{m}^3$ )	% Variation from Limit
1	On Terrace of Admin Building	SO <sub>2</sub>	50	11.5	-76.9
		NO <sub>2</sub>	40	16.4	-58.9
		PM <sub>10</sub>	60	53.2	-11.4
		PM <sub>2.5</sub>	40	30.3	-24.2
2	At Village Kovaya	SO <sub>2</sub>	50	12.3	-75.5
		NO <sub>2</sub>	40	17.0	-57.6
		PM <sub>10</sub>	60	53.0	-11.6
		PM <sub>2.5</sub>	40	30.6	-23.5
3	On Terrace of Aditya Birla Public School	SO <sub>2</sub>	50	11.3	-77.3
		NO <sub>2</sub>	40	16.2	-59.6
		PM <sub>10</sub>	60	50.3	-16.2
		PM <sub>2.5</sub>	40	30.2	-24.5
4	At Jetty Area	SO <sub>2</sub>	50	10.5	-78.9
		NO <sub>2</sub>	40	15.3	-61.7
		PM <sub>10</sub>	60	51.7	-13.9
		PM <sub>2.5</sub>	40	30.0	-24.9
5	TPP Near Nursery / WTP	SO <sub>2</sub>	50	13.7	-72.6
		NO <sub>2</sub>	40	18.5	-53.7
		PM <sub>10</sub>	60	53.1	-11.5
		PM <sub>2.5</sub>	40	30.9	-22.7
6	Near Mines Garage (Workshop)	SO <sub>2</sub>	50	12.2	-75.7
		NO <sub>2</sub>	40	18.1	-54.9
		PM <sub>10</sub>	60	49.9	-16.9
		PM <sub>2.5</sub>	40	29.5	-26.4



## HAZARDOUS WASTES

[As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016]

Hazardous Wastes	Authorization Quantity as per CC&A in MT	Hazardous Waste details During 2022-23.				Hazardous Waste details During 2023-24.			
		Total Quantity Generated (MT)	Sold to recycler (MT)	Self used (MT)	Remarks	Total Quantity Generated (MT)	Sold to recycler (MT)	Self used /Co-processed in our Cement Kiln (MT)	Remarks
(a). From Process:									
1). Used / Spent Oil ( Cat.5.1)	70 MT/Annum	8.170	4.530	4.285	Self use	15.975	14.923	1.000	--
2). Grease & Oil Containing Waste (Cat.5.2)	265MT/Annum	23.610	23.58	0.030	--	19.765	19.750	0.015	--
3). Oil/Grease containing clothes/rags (Cat.5.2)	10MT/Annum	0.180	0	0.180	Co-processed in our cement kiln as per CC&A condition.	0.000	0.000	0.000	
4). Oily Waste From Re-refiners Unit only (Cat.5.2)	525 MT/Annum	1.505	1.49	0.015	Self use	0.000	0.000	0.000	--
5). Discarded Container (Cat.33.1)	250 MT/Annum	7.362	6.237	0.000	--	15.667	12.410	1.452	--
6). Sludge and Filters contaminated with oil (Cat.3.3)	1 MT/Annum	0	0	0	--	0	0	0	--
(b). From Pollution Control Facilities		NIL	NIL	NIL	--	NIL	NIL	NIL	--

