



UTCL/BCW/ENVT/2023-24/039

25th August' 2023

To

The Member Secretary,
Andhra Pradesh Pollution Control Board
Paryavaran Bhavan, APIIC Colony Rd,
Guru Nanak Colony, Autonagar, Vijayawada,
Andhra Pradesh-520007

Sub: Submission of Environmental Statement of Cement Plant & CPP in Form - V for the financial year 2022-23.

Ref: i) MoEFCC letter no.J.11011/821/2008-IA.II (I) dated, 26th November, 2009
ii) MoEFCC letter no.J.11011/821/2008-IA.II (I)-Pt dated, 13th April, 2016
iii) MoEFCC letter no.J.11011/821//2008-IA.II (I) dated 19th June, 2018
iv) Consent Order No. APPCB/VJA/VJA/13518/HO/CFO/2018 dt.02.01.2018
v) Consent Order No. APPCB/VJA/VJA/13518/HO/CFO/2018 dated 22/09/2022

Dear Sir,

We, M/s. UltraTech Cement Limited, Unit: Balaji Cement Works are herewith submitting Environmental Statement of **Cement Plant & CPP (35 MW & 25 MW)** in the prescribed format '**Form-V**' for the financial year 2022-23, in respect of above referred EC & CFOs', for your kind reference and record.

Kindly acknowledge the same.

Yours faithfully,

For UltraTech Cement Limited

Unit: Balaji Cement Works

Dr. K. Sridhar

Joint Executive President & Unit Head

Enclosures: Environmental Statement of Cement Plant and CPP (35 MW & 25 MW) in Form - V for the financial year 2022-23

Copy to: i) The Environmental Engineer, APPCB, Regional office, Plot No.41, Sri Kanakadurga Officers' Colony, Gurunanak Road, Vijayawada - 520 008.

ii) The Regional Director, Integrated Regional Office, MoEF&CC, Buckinghampeta, Vijayawada, Andhra Pradesh-520002.



UltraTech Cement Limited

(Unit : Balaji Cement Works)

Village + Post : Budawada, Mandal : Jaggaiahpet, Dist. Krishna, Andhra Pradesh - 521 175.

T : +91 08654 285011-18 | W:www.ultratechcement.com

Registered Office : 'B' Wing, Ahura Centre, 2nd Floor, Mahakali Caves Road, Andheri (East), Mumbai - 400 093

T : +91 22 6691 7800 | CIN : L26940MH2000PLC128420

ULTRATECH CEMENT LIMITED

Unit: BALAJI CEMENT WORKS

CEMENT PLANT & CPP ENVIRONMENT AUDIT STATEMENT REPORT 2022-2023

FORM – V

Environment Statement for the financial year ending with 31st March 2023

PART – A

1	Name & address of the owner/ occupier of the industry, operation or process	Dr. K. Sridhar JEP & Unit Head UltraTech Cement Limited, Unit: Balaji Cement Works Survey No.99, Budawada, Jaggayyapeta Mandal, NTR Dist., (AP) - 521175.
2	Industry Category (STC Code) Secondary (SIC Code)	Cement & CPP, Red Category
3	Production Capacity- Units	5.0 MTPA Cement 3.6 MTPA Clinker 35 MW & 25 MW Electric Power
4	Year of establishment	2011 for Cement Plant & 35 MW CPP & 2016 for 25MW CPP
5	Date of last environmental statement	26.09.2022

PART – B

1	Water Consumption m3/day process			
	Process + Cooling		2361 m ³ /day	
	Domestic		590 m ³ /day	
	Name of Products		Water consumption per unit of products	
			During the previous financial year 2021-2022	During the current financial year 2022-2023
	1	Cement	0.227 m ³ /MT	0.165 m ³ /MT
	2	Elec. Power (60MW=35MW+25MW)	0.314 m ³ /MWH	0.31 m ³ /MWH

1 Substituted by Rule 2(b) of Environment (Protection) Amendment Rules, 1993 notified vide G.S.R. 386 (E) dated 22.04.1993

ULTRATECH CEMENT LIMITED

Unit: BALAJI CEMENT WORKS

CEMENT PLANT & CPP ENVIRONMENT AUDIT STATEMENT REPORT 2022-2023

S. No	Raw Material Consumption		Consumption Per unit of output	
	Name of Raw Materials	Name of Products	During the previous financial year 2021-2022	During the current financial year 2022-2023
1	Limestone	Cement	1.1872T/T	1.1079 T/T
2	Laterite-A	Cement	0.0130T/T	0.0186 T/T
3	Laterite-F	Cement	0.0078T/T	0.0008 T/T...
4	Laterite Low grade	Cement	0.0211T/T	0.0289 T/T
5	Fly ash Dry and Pond - Purchased	Cement (PPC)	0.160T/T	0.3009 T/T
	Fly ash TPP - Own Generation	Cement (PPC)	0.032T/T	0.0488 T/T
	Total Fly ash Consumption	Cement (PPC)	0.192T/T	0.3497 T/T
6	Gypsum	Cement	0.004T/T	0.0149 T/T
7	Red mud	Cement	0.013T/T	0.0092 T/T
8	Coal Imported	Cement	0.00275T/T	0.0150 T/T
9	Pet coke	Cement	0.03238T/T	0.0489 T/T
10	Coal Indigenous	Elec. Power (35MW+25MW)	0.110 T/MWH	1.1292 T/MWH

PART - C

Pollution discharged to Environment

		Pollutants	Concentration of Pollutants (mg / Nm3)	Quantity of pollution Generated (Tons / Yr.)	Percentage of variation from prescribed standards
a. Water		Zero Water Discharge			
b. Air					
1	Raw mill/Kiln	PM	23.44	308.85	21.87 % less
		SO2	51.28	671.74	48.72 % less
		NOx	507.41	6668.86	36.57 % less
2	Cooler	PM	22.84	76.83	23.87 % less
3	Coal mill		18.45	11,4	38.5 % less
4	Cement mill-I		18.68	1.10	37.73 % less
5	Cement mill-II		20.79	4.97	30.7 % less
6	Cement mill-III		22.29	14.08	25.7 % less
7	CPP-35MW	PM	34.43	55.19	31.14 % less
		SO2	424.62	678.67	29.23 % less
		NOx	177.21	283.83	40.93 % less
8	CPP-25MW	PM	32.87	13.73	34.26 % less
		SO2	366.57	150.36	38.91 % less
		NOx	181.76	73.32	39.41 % less

ULTRATECH CEMENT LIMITED

Unit: BALAJI CEMENT WORKS

CEMENT PLANT & CPP ENVIRONMENT AUDIT STATEMENT REPORT 2022-2023

PART - D

[as specified under Hazardous Wastes (Management & Handling) Rules]

	Hazardous Wastes	During the previous financial year 2021-2022	During the current financial year 2022-2023
a. From Process	Used Oil (Cement Plant+60MW(35 +25) CPP	2.88	10.73
	High Chrome Grinding Media	Nil	Nil
b. From Pollution Control Facilities	Nil	Nil	Nil

The Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 notified vide S.O.2265(E), dated 24.9. 2008.The *Environment 532 (Protection) Rules, 1986*.

PART - E

Solid Wastes

Description	During the previous financial year 2021-2022	During the current financial year 2022-2023
a. From process (Cement Plant)	Nil	Nil
b. From process (35+25 CPP) Fly ash & Bed ash)	1,10,414.16 MT	89721.105 MT
b. Quantity recycled or reutilized .	1,10,414.16 MT	89721.105 MT

PART - F

Please specify the characteristics (in terms of concentration and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous Waste

Type	Quantity (KL)	Mode of Disposal
Used oil	8.4 KL	Sold to M/s Sravanthi lubricants authorized recycler of APPCB. The closing stock as on 31-03-2023 is 3.37 KL.
High Chrome Grinding Media	Nil	Nil

Solid Waste

Type	Quantity (Tonnes)	Mode of Disposal
Fly ash (35+25 MW)	89721.105 MT	Self-consumption in manufacturing of Cement (PPC)

ULTRATECH CEMENT LIMITED

Unit: BALAJI CEMENT WORKS

CEMENT PLANT & CPP ENVIRONMENT AUDIT STATEMENT REPORT 2022-2023

PART – G

Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.

ENERGY CONSERVATION

- ❖ Use of CFL in all building and offices & LED street lights.
- ❖ Installation of energy star rated ACs for offices and load centers
- ❖ Use of VFD in place of conventional one
- ❖ 6-stage pre-heater itself is energy saving effort
- ❖ Utilization of hot air gases released from kiln
- ❖ Installation of VRMs for raw mill & coal mill.
- ❖ Reduced Specific power consumption from 74.404 Kwh/MT to 70.215 Kwh/MT in FY22-23.

WATER CONSERVATION

- ❖ Construction of STP to Maintain Zero Waste Water.
- ❖ Discharge- all type of treated water will be utilized for specific purposes such as plantation, dust suppression etc.
- ❖ Installation of air-cooled condenser for CPP, in place of conventional large size Cooling towers.

SOLID WASTE MANAGEMENT

- ❖ Practicing principle of 2R i.e., Reduce & Reuse
- ❖ All the waste will be segregated on the basis on degradability/recyclability; then accordingly they will be disposed. Bio-degradable waste from township & plant area will be composted and the manure generated so, will be used for horticulture purpose.
- ❖ All the hazard/nonhazardous waste will be disposed in our kiln through co-processing.
- ❖ Maximum possible utilization of Fly ash.
- ❖ 750 KLD STP is installed and in operation, sludge collected will be utilized as manure for green belt development

GREEN BELT DEVELOPMENT:

Green belt is being developed, in phased manner in consultation with DFO-Vijayawada.

71.0 Ha of Greenbelt was developed till date which is more than 33% (61.61 Ha) of total land (183.65 Ha) acquired.

Number of survival plants is 1,02,231

Planted various varieties of plants like, Neem, Tekoma, Teak, Kadamba, Gulmohar, Mahagoni, Alstonia, Akasia, Poppulina, Conocarpus erectus, and fruit bearing plants like Mango, Guava, Pomegranate, Jack fruit, Bear etc.

Three Road sweeping Machines & Vacuum cum road sweeping machines are being used for cleaning concrete roads.

ULTRATECH CEMENT LIMITED

Unit: BALAJI CEMENT WORKS

CEMENT PLANT & CPP ENVIRONMENT AUDIT STATEMENT REPORT 2022-2023

PART - H

Additional investment proposal for environmental protection including abatement of pollution.

1. Environmental Protection Cost for the year 2022-23

S.No	Description	Amount (in Lakhs)
1	Air Pollution Control Equipment's maintenance	109.92
2	STP operation and maintenance	11.22
3	Greenbelt Development	47.85
4	Fugitive control Measures	12.46
5	Electricity Consumption Cost of APCE	1862.4
6	Environmental Monitoring Cost	11.35
7	OCEMS & Online Ambient Air Quality Monitoring Systems and maintenance	12.48
Total		2067.68

The Environment (Protection) Rules, 1986

PART - I

Miscellaneous

Any other particulates in respect of environment protection and abatement of pollution

CSR expenditure details for the Year FY2022 -23 are given below

Focus Area	Budget Allocated FY 2022-23	Expenditure Incurred so far (as on 31 March'23)
Education	2,07,00,000	1,49,29,327.00
Health Care	55,66,000	19,10,472.00
Sustainable Livelihoods	30,00,000	2,00,000.00
Infrastructure Development	39,00,000	1,24,32,556.00
Social Empowerment		19,95,000.00
Total	3,31,66,000	3,14,67,355.00

ULTRATECH CEMENT LIMITED

Unit: BALAJI CEMENT WORKS

CEMENT PLANT & CPP ENVIRONMENT AUDIT STATEMENT REPORT 2022-2023

Observed World Environment Day-2023:

UltraTech Cement Limited, Balaji Cement Works has Observed World Environment Day-2023 in grand manner. Organized different competitions among all to create awareness and awarded during the Function. Green walk for to create awareness on Environment & to avoid Plastic usage by all colony ladies and company employees and Plantation done near 4th Number gate with 200 No's saplings by involving all.



Environment Pledge by all Employees & contract workmen



**Prizes Distribution to Employees & Contract workmen
Participated in Environment day Competitions**

ULTRATECH CEMENT LIMITED

Unit: BALAJI CEMENT WORKS

CEMENT PLANT & CPP ENVIRONMENT AUDIT STATEMENT REPORT 2022-2023



Green walk for to create awareness on Environment & to avoid Plastic waste



Plantation by Involving All
