



Ref. No. UTCL/Tanda/Env/2023-24/22

September 05, 2023

To

The Member Secretary,

Uttar Pradesh Pollution Control Board, TC-12th, Vibhuti Khand, Gomtinagar, Lucknow – 226010

Submission of Environmental Statement Report (FY 2022-23) of UltraTech Cement Limited Sub:

(Unit: Tanda Cement Works)

134305/UPPCB/Faizabad(UPPCBRO)/CTO/Air/AMBEDKARNAGAR/2021 dtd 11.10.2021 Ref:

134298/UPPCB/Faizabad(UPPCBRO)/CTO/Water/AMBEDKAR NAGAR/2021 dtd 06.12.2021

Dear Sir,

This is with reference to aforesaid subject and referred Consent to Operate granted by the U.P. Pollution Control Board under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

Hereby, we are pleased to submit Environment Statement Report (Form-V) for the Financial Year 2022-23 for our UltraTech Cement Limited (Unit-Tanda Cement Works) at Village Kanhaura, Post: Husainpur Sudhan, Near NTPC Tanda, Distt. Ambedkarnagar, Uttar Pradesh.

This is for your information and record please.

Thanking you,

Yours faithfully,

For & behalf of

UltraTeck Cement Limited (Unit: Tanda Cement Works)

Nagesh Upadhyay

Asst. Vice President & Unit Head

Encl: Environmental Statement Report (FY'2022-23)

Copy to:

> The Regional Officer, U.P. Pollution Control Board, 1/17/104, Ram Nagar Colony, Ayodhya (U.P.)

Regional Directorate (Lucknow), Central Pollution Control Boards 3rd Floor, B-Block Picup Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh 226010

UltraTech

UltraTech Cement Limited

(Unit: Tanda Cement Works)

Post: Husainpur Sudhan, Near NTPC, Tanda, Distt. Ambedkarnagar (UP) - 224190

T: +915273 284626,284429 I W: www.ultrarechcement.com

Registered Office: 'B' Wing, Ahura Centre, 2nd Floor, Mahkali Caves Road, Andheri (East), Mumbai - 400 093 T: +9122 6691 7800 | CIN: L26940MH2000PLC128420



ENVIRONMENT STATEMENT REPORT (FORM - V)

2022-2023

FOR

M/s. UltraTech Cement Limited

(Unit: Tanda Cement Works)

At

Post: Husainpur Sudhan, Near NTPC Tanda.

District: Ambedkarnagar (UP)

SUBMITTED BY

APPLICANT



M/s. Ultratech Cement Limited

(Unit: Tanda Cement Works)
Post: Husainpur Sudhan,
Near NTPC Tanda,
Distt. Ambedkarnagar (UP) - 224190



CONSULTANT

J.M. EnviroNet Pvt. Ltd.

Registered EIA Consultant by NABET (QCI) Emaar Digital Greens, Tower - B, Unit No. 1517, Golf Course Ext. Road, Sector - 61, Gurugram, Haryana - 122 O11

PART - A

i)	Name and address of the owner / occupier of the industry, operation, or process	:	UltraTech Cement Limited (Unit: Tanda Cement Works) Post: Husainpur Sudhana, Near NTPC Tanda, Distt. Ambedkarnagar (UP) - 224190
ii)	Industry category Primary – (STC Code) Secondary – (SIC Code)	:	Red Category
iii)	Production capacity	:	1.0 MTPA
iv)	Year of Establishment	:	2004
v)	Date of the last environmental Statement submitted	:	September 28, 2022

PART - B

Water and Raw Material Consumption

1) Water consumption m³/d

Process : Cemer

: Cement grinding is dry based process so no use of water in process.

Cooling

: 81

Domestic

: 70

	Process water consumption per unit of product output (m³/t)		
Name of Products	During the previous financial year (2021-22)	During the current financial year (2022-23)	
1) Cement	0.027 (m ³ /t)	0.030 (m ³ /t)	

2) Raw material consumption

		Name of	Consumption of raw materia per unit of output		
Name of Raw Materials		Product	During the previous financial year	During the current financial year	
Clinker	t/t		0.68	0.65	
Gypsum	t/t	Cement	0.019	0.016	
Fly Ash	t/ť		0.30	0.34	

3) Power consumption KWH/Per Ton of Cement.

During the previous financial year (2021-22)	During the current financial year (2022-23)
33.17	32.32

4) Total Cement Production

	Production of Cement (MT)		
Total Cement Production	During the previous financial year (2021-22)	During the current financial year (2022-23)	
Cement	9.81 Lakh Metric Ton	9.75 Lakh Metric Ton	

PART - C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

1) Pollutants	Quantity of pollutants discharged (mass/day) i.e., Ton/day	Concentrations of pollutants in discharges (mass/day) i.e., Ton/day	Percentage of variation from prescribed standards with reasons
a) Water (Effluent)	Grinding unit is based on dry process and no any effluent water is generated from the process. Wastewater generating from domestic		
	usage is being treated in and horticulture activities	n the STP and reused in tes.	the dust suppression
b) Air (PM)	0.034	0.000013	-40.064

Note: Percentage of variation is lower from prescribed standards due to uninterruptedly operation and maintenance of Baghouse equipped with cement mill stack.

PART - D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling & Trans boundary Movement Rules)

	Total Quantity (MT)		
Hazardous Wastes	During the previous financial	During the current financial	
	year (2021-22)	year (2022-23)	
1. Used/ Spent Oil (Cat-5.1)	0.00	2.86	
2. Waste Oils (Cat. 5.2)	0.00	0.00	

a) From Process: Not Applicable

b) From pollution control facilities: Not Applicable

PART-E

Solid Wastes

	Total Quantity (Metric Ton)			
Solid Wastes	During the previous During the curren			
	financial year (2021-22) financial year (2022-23			
a) From process:	Nil Nil			
b) From pollution control facilities	Dust collected through Bag house & Bag filters i recycled in the process itself.			
(i) Qty. recycled or reused with in the unit. (ii) Sold (iii) Disposed	There is no solid waste generation from the plan process. The sludge generated from the STP is being utilized as compost in gardening activities.			

PART - F

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

<u>Hazardous Waste</u>: Used oil Cat. 5.1 and waste oil Cat. 5.2, generating from our plant machineries or gear box is temporarily stored in the dedicated storage shed and sold as per the Hazardous Waste Management Rules, 2016.



TEST REPORT

Sample Wumber	JME/TCW/Q/01	Report No.	JME/O/221124001
Nama & Address of	We. Ultratech Coment Limited	Format No	7.5 F-05
Unit	Unit: Tanda Cameni Works. at village Kanhora, P.O. HuesainpurSudhana, Near NTPC, Tehsil-Tanda,	Party Reference No.:	Mili
	Dietrict-Ambedker Nagar, Uttar Pradesh	Reporting Date:	30/11/2022
Sample Description	Used Oil	Recept Oate:	24/11/2022
Sampling Location	Plant Store	Sampling Date	23/11/2022
Chent Representative : (Name & Designation)	Mr. Rajkumar Singh (Asst. Manager ENV.)	Sampling Type:	Grab
Sample collected by	JMELPL Team	Sample Quantity	Tite,
Samping & Analysis Protocol	APHA & USEPA	Packing Status	Temp. Sealed

TEST RESULTS

3. No.	Parameter	Protocol	Result	Unit	Limite
1	Polychlorinated biphenyls (PCBs)	As Per CPCB Guidelines	SOL (DL 2.5)	ppm	<2.0
2.	Lead	As Per CPCB Guidelines	30.14	ppm	100
3.	Arsenic	As Per CPCE Guidelines	0.38	ppm	5
4	Cadmium + Nickel + Chromain	As Per CPCE Guidelines	28.62	ppm	500
ā.	Poly Aromalic Hydrocarbon (PAH)	As Par CPCB Guidelines	0.78	%	- 6

BDL - Selow Detection Limit, DL - Detection Limit

"End of Report"

Hazardous waste analysis report

<u>Solid Waste</u>: Dust collected through Bag house & Bag filters is recycled in the process itself. The scrap generated from maintenance activities viz. metal pieces, wooden planks etc. are collected and sold to outside parties for re-use. Total fly ash sourced from the Thermal Power plants during the year 2022-23 is 2,96,007 MT, which is used for manufacturing of PPC.

<u>Biodegradable Waste</u>: generating from our residential colony and guest house is being disposed-off in bio-gas plant and gas generating from biogas plant is being used for cooking in our guest house.

PART - G

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

UltraTech Cement Ltd. is a flagship company of the Aditya Birla Group is committed to sustainable development and play a constructive role in Building "A Green and Clean Environment" by adoption of state-of-the-art-technology.

- > To control particulate emissions, air pollution control devices have been installed at different locations covering all transfer point in unit.
- Grinding cement is based on dry process and no effluent generated from the process. Rainwater Water Harvesting system is in practice to conserve the water resources. Sewage/wastewater generating from domestic usage is being treated in STP and 100% reused in horticulture & dust suppression activities.
- > The plant is equipped with appropriate Pollution Control System and its schedule maintenance and upkeeps is being done regularly to meet the environmental norms and plant performance.
- On regular basis environment monitoring done by the NABL Accredited Laboratory and report is being submitted to the U.P. Pollution Control Board, Ayodhya & Lucknow.
- > In the cement manufacturing process, we are using fly ash approx. 34% of total raw materials such initiatives contribute towards conservation of natural resource (i.e., limestone) and air pollution issues due to fly ash generated from power plants as well.

PART - H

Additional measures/investment proposal for environmental protection including abatement of Pollution, Prevention of pollution.

The performance of pollution control equipment's i.e., Bag House and Bag Filters installed has kept the PM emission levels of stack at a significant lower level from the prescribed limit of 30 mg/Nm³. The entire picture of the pollution control is well within the framework of the standard limits prescribed by the regulatory authorities and the consent condition laid by U.P. Pollution Control Board. The expenditure on pollution control equipments maintenance during FY2022-23 are as below.

Sr. No.	Particulars	Rs. in Lacs
A. Recu	ring Expenditure	
1	Environmental monitoring	6.60
2	Ground water monitoring and consultancy	3.79
3	Environment monitoring equipment calibration	0.38
4	Environment personnel and helper wages	1.46
5	Green belt development	3.62
6	Sewage Treatment Plant Operation / Maintenance	4.39
7	APCEs operation and maintenance (excluding energy)	8.77
8	Online monitoring equipment operation and maintenance	3.55
9	Sweeping machine operation and maintenance	6.14
10	Water spraying in yard and roads by tankers	7.29
1	Sum of Rs.	45.99
3. Capita	l Expenditure	FI- 1
1	Bio-gas plant installation	12.15
2	Rainwater Harvesting System	8.25
3	Environment monitoring equipments	3.92
4	Water fogging system	5.96
	Sum of Rs.	30.28
	Grand total expenses of Rs. (In Lacs)	76.27

PART-I

Any other particulars for improving the quality of the environment.

In the Cement Manufacturing Process, we are utilizing considerable amount of Fly Ash that is approximately 34% of total raw materials such initiatives contribute towards conservation of natural resource (i.e., limestone) and prevents air pollution issues due to fly ash generated from power Plants.

Industrial and residential area spreaded over 8.59 ha and out of the total land area approx. 2.90 ha area covered under greenery it is around >33% of total area. Besides, in this year under mega plantation derives of U.P. Govt. we have planted 5000 nos. of saplings in and around our plant premises. In the previous FY 2021-22, we have planted 4350 nos. of saplings based on Miyawaki Method.



Community tree plantation in nearby villages (i.e., Makhdoomnagar and Bihra)





Plantation site visited the Divisional Forest Officer (DFO) Ambedkarnagar and Team

Bio-Gas Plant:

Biodegradable wastes generating from our residential colonies and guest house is being collected from door to door and it is processed in Bio-gas plant. Biogas generation from biogas plant is being used for cooking in guest house. Initiatives was appreciated by the DFO, Ambedkarnagar.



Bio-gas processing and used for cooking in guesthouse



DFO & Team



Environment awareness programs



Tree plantation

The plant is equipped with appropriate Pollution Control System (i.e., Bag House & Bag Filters) and its schedule maintenance and upkeeps are being done regularly to meet the environmental norms and plant performance. On regular basis environment monitoring done by the NABL Accredited Laboratory and report is being submitted to the U.P. Pollution Control Board, Faizabad & Lucknow. Air pollution control measures being adopted are as below: -

- Raw material transfer is being carried out through belt conveyers and bag filters are provided at every transfer point to control the fugitive emission.
- Fly ash is being transported through closed bulker and pneumatically unloaded and stored in the fly ash storage silo.
- Material handling area is paved and regularly sprinkling of water by dedicated tractor mounted water tanker.
- Trees have been planted along the plant boundary which helps to arrest fugitive dust and prevent to spreads outside from plant boundary.







Covered belt conveyer and Bag Filter

Fly ash pneumatic unloading system

Coal & gypsum storage shed





Water sprinkling



Dense tree plantation along boundary

Clinker loading and unloading is being done in the clinker storage shed and never stored in the open area.



Clinker storage yard



Clinker unloading at truck tippler



Water sprinkling inside plant

To control the fugitive emission apart from various measures water sprinkling is being done by dedicated tractor mounted water sprinkler in material handling areas and roads.

Clinker is being shifted from railway siding to the plant by trucks and unloaded thorough truck tippler directly into the mill hopper or covered storage yard.







Photo: Railway siding equipped with air pollution control arrangements

FORM – V
Environment statement for the financial year ending the 31st March 2023

Environment Monitoring Data

Stack	Mo	nitor	ing	Data
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Stack Monito	ring Data	
Stack No.	S-1	
Stack Name	Cement Mill	
Parameter	PM	
Std Limit (mg/Nm³)	30	
Apr-22	19.0	
May-22	16.1	
Jun-22	15.3	
Jul-22	14.2	
Aug-22	20.2	
Sep-22	14.7	
Oct-22	20.1	
Nov-22	14.6	
Dec-22	18.0	
Jan-23	21.3	
Feb-23	19.1	
Mar-23	23.1	
Minimum	14.2	
Maximum	23.1	
Average	17.98	
• • • • • • • • • • • • • • • • • • • •		

Ambient Air Quality

Location 1: Plant Gate Back Side

	Loc	ation 1: Plan	t Gate Back S	side		
Parameters	1	PM 2.5			PM 10	
Std Limit		60 μg/m3			100 μg/m3	
Month	Min	Max	Avg	Min	Max	Avg
Apr-22	34.1	39.7	36.5	59.7	72.4	64.8
May-22	35.9	41.3	37.7	60.6	72.5	66.0
Jun-22	36.2	42.5	38.7	61.3	73.4	66.7
Jul-22	32.3	40.2	35.6	54.2	67.6	60.8
Aug-22	30.7	38.2	33.8	50.9	63.5	57.1
Sep-22	30.7	38.2	34.2	50.4	63.5	56.2
Oct-22	31.5	39.2	34.6	52.3	65.2	57.8
Nov-22	31.0	38.7	35.0	57.2	68.9	62.4
Dec-22	32.2	41.2	36.0	60.1	69.6	64.2
Jan-23	32.6	37.5	34.7	58.2	67.5	62.4
Feb-23	31.2	36.8	33.9	61.1	67.9	64.3
Mar-23	32.4	37.1	34.5	55.6	67.4	60.8

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	ш	ocation 2 : N	lear Main Ga	te				
Parameters		PM 2.5			PM 10	-		
Std Limit		60 μg/m3	-		100 μg/m3			
Month	Min	Max	Avg	Min	Max	Avg		
Apr-22	36.2	45.8	40.1	60.6	73.8	68.9		
May-22	37.3	46.3	41.1	61.9	76.3	70.2		
Jun-22	37.4	47.5	41.0	62.6	77.3	71.2		
Jul-22	36.6	45.6	39.3	58.3	75.1	67.8		
Aug-22	34.8	43.3	37.4	54.8	71.4	63.8		
Sep-22	34.8	43.3	37.8	54.1	71.4	62.4		
Oct-22	35.7	44.5	38.2	55.3	72.2	64.1		
Nov-22	34.2	42.2	38.5	62.0	76.9	67.2		
Dec-22	35.9	45.3	40.0	65.1	73.4	69.4		
Jan-23	36.1	41.7	39.6	70.7	79.9	75.3		
Feb-23	37.3	41.8	40.1	73.6	79.7	76.5		
Mar-23	34.6	44.6	38.5	58.7	73.5	66.5		

	Le	ocation 3 : N	ear D G Hou	se				
Parameters		PM 2.5		PM 10				
STD Limit		60 μg/m3		100 μg/m3				
Month	Min	Max	Avg	Min	Max	Avg		
Apr-22	34.1	41.9	37.0	59.0	73.2	64.4		
May-22	35.1	42.8	38.0	59.6	75.6	66.3		
Jun-22	31.6	40.4	37.0	60.3	76.3	67.0		
Jul-22	33.2	40.7	35.7	52.6	73.2	59.7		
Aug-22	31.5	38.6	33.8	51.5	68.8	56.5		
Sep-22	29.7	38.6	33.8	48.7	68.8	55.2		
Oct-22	32.3	39.6	34.6	52.8	70.6	58.1		
Nov-22	28.8	36.9	33.2	56.6	70.3	61.7		
Dec-22	30.6	39.1	34.7	60.0	74.5	64.8		
Jan-23	34.5	40.1	37.1	63.1	68.3	65.1		
Feb-23	34.0	40.7	37.1	63.0	69.7	66.1		
Mar-23	32.1	37.0	34.1	55.7	69.9	60.3		

FORM – V
Environment statement for the financial year ending the 31st March 2023

	Locatio	n 4 : UTCL Co	olony (Near 1	remple)				
Parameters		PM 2.5		PM 10				
Std Limit		60 μg/m3			100 μg/m3			
Month	Min	Max	Avg	Min	Max	Avg		
Apr-22	30.4	35.5	32.1	57.9	63.8	60.7		
May-22	32.4	37.5	34.7	58.2	66.4	63.2		
Jun-22	31.5	38.6	35.1	55.3	67.8	62.2		
Jul-22	30.2	36.2	32.4	50.6	67.8	61.		
Aug-22	28.7	34.4	30.8	49.6	63.8	58.0		
Sep-22	28.2	34.4	30.2	45.7	63.8	56.2		
Oct-22	29.4	35.3	31.6	50.9	65.4	59.6		
Nov-22	29.4	34.3	31.8	56.2	67.1	60.9		
Dec-22	31.2	36.4	33.6	59.6	71.1	63.9		
Jan-23	29.1	35.6	32.6	57.2	70.8	61.1		
Feb-23	29.4	34.6	32.2	56.8	62.5	59.3		
Mar-23	28.8	34.0	31.0	56.2	62.2	59.1		

		A	mbie	nt Noi	se Le	vel Me	onito	ring					
	Aj	or-22	Mi	ay-22	Ju	n-22	Ju	1-22	Αι	Aug-22		Sep-22	
	Day time	Night Time											
Prescribed Limits dB (A) Leq	75	70	75	70	75	70	75	70	75	70	75	70	
Colony (Near Temple)	51.7	38.3	53.7	42.9	53.2	43.8	50.8	38.4	49.7	37.6	47.7	36.1	
Near Main Gate	51.5	56.9	65.2	61.7	66.2	62.4	62,4	57.6	60.5	55.8	59.8	54.9	
Near D G House	62.3	57.1	63.5	62.5	61.5	56.6	60,9	58,4	58.4	56	57.8	55.4	
Plant Gate Back Side	64.8	54.3	63.5	57.6	68.4	64.7	62.4	54.9	60.5	53.2	59.9	52.7	
Minimum	51.5	38.3	53.7	42.9	53.2	43.8	50.8	38.4	49.7	37.6	47.7	36.1	
Maximum	64.8	57.1	65.2	62.5	68.4	64,7	62.4	58.4	60.5	56	59.9	55.4	

		A	mbie	nt Noi	se Le	vel M	onito	ring				
	٥	ct-22	Nov-22		Dec-22		Jan-23		Feb-23		М	ar-23
	Day time	Night Time										
Prescribed Limits dB (A) Leq	75	70	· 75	70	75	70	75	70	75	70	75	70
Colony (Near Temple)	50.1	38.3	50.3	38.5	51.1	39.8	52.1	41.2	51.7	40.9	54.3	41.7
Near Main Gate	61.7	56.9	61.9	57.4	62.6.	57.7	68.4	59.2	51.5	47.2	71	59.2
Near D G House	59.6	57.1	59.9	57.4	53.3	42.9	52.8	48.5	62.3	58	54.1	48.1
Plant Gate Back Side	61.7	54.3	61.8	54.9	62.3	55.4	63.7	59.5	64.8	59.2	65.4	59.2
Minimum	50.1	38.3	50.3	38.5	51.1	39.8	52.1	41.2	51.5	40.9	54.1	41.7
Maximum	61.7	57.1	61.9	57.4	62.3	57.7	68.4	59.5	64.8	59.2	71	59.2

					-,		STP: W	ater Water	Analysis I	leport							
Parameter	Limit	Unit	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec=22	Jan-23	Feb-23	Mar-23	Minimum	Maximum	Average
рH	5.5 to 9	2.0	7.28	7.56	7.64	7.59	7.5	7.34	7.76	7.52	7.69	7.64	7.54	7.73	7.28	7.76	7.6
Total Suspended Solids	100	mg/l	10.2	8	16.8	8	9	8	10	8.4	8.9	8.2	10.6	10.87	8	16.8	9.7
BOD (5 days at 20°C)	30	mg/l	17	14	15	13.3	13	14	16	13	16	14	13	13.33	13	17	14.3
COD	250	mg/l	51	60	61.2	58	56	52	57	54	57	52	55	56.38	51	61.2	55.8
Oil & Grease	10	mg/l	BDL	BDL	0.82	BDL	BDL	BDL	BDL	BDL	8DL	BDL	BDL	BDL			

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	WORI	K ZONE NOISE MONITOR	RING	
	LOCATION NO.1	LOCATION NO.2	LOCATION NO.3	LOCATION NO.4
Location Name	Near Cement Mill	Near Coal Mill	Near Packer	Near Weight Bridge
STD Limit dB (A) Leq	90	90	90	90
Apr-22	78.5	71.0	69.5	57.9
May-22	83.3	75.6	76.5	62.2
Jun-22	78.4	71.6	66.1	59.2
Jul-22	80.4	69.4	70,6	59.7
Aug-22	76.4	66.6	66.2	57.9
Sep-22	69.7	71.4	71.5	54.9
Oct-22	77.3	67.9	67.5	59.1
Nov-22	77.5	68.2	67.6	59.4
Dec-22	78.1	71.4	66.5	59.9
Jan-23	77.2	72.2	74.2	61.1
Feb-23	77.4	72.9	75.4	62.5
Mar-23	71.5	74.9	77.4	64.2
Minimum	69.7	66.6	66.1	54.9
Maximum	83.3	75.6	77.4	64.2

	FUGITIVE E	MISSION MONITORING							
	LOCATION NO.1	LOCATION NO.2	LOCATION NO.3						
	Near Packing Plant	Near Clinker Tippler	Rly Siding						
Parameter	SPM (µg/m³)								
STD Limit		2000							
Apr-22	1623	1146	1032						
May-22	1181	958	945						
Jun-22	1230	903	1011						
Jul-22	1164	1088	998						
Aug-22	1106	1023	958						
Sep-22	1180	1098	1025						
Oct-22	1182	1189	1035						
Nov-22	1256	906	1124						
Dec-22	1506	1042	1468						
Jan-23	1418	955	1280						
Feb-23	1389	986	1608						
Mar-23	1457	1121	1324						
Minimum	1106	903	945						
Maximum	1623	1189	1608						
Average	1292	1024	1135						

*****End*****