ADITYA BIRLA

UltraTech

O/C

UTCL/SKCW/ENV/ESR/1/23-24/1

Date: - 22.08.2023

To,
Chief Environment Officer, (Circel-4)
U.P. Pollution Control Board,
TC-12 V, Vibhuti Khand.
Gomti Nagar, Lucknow, (UP) 226010.

Subject: Environmental Statement Report for the period from 1st April, 2022 to 31st March 2023.

Sir,
We are submitting herewith Environment Statement Reports (From V) for the period of April 2022 to March 2023 under Air & Water Act by M/s Ultra tech cement Limited (Unit: Sikandrabad Cement Works) Plot No. 19-20, Industrial Area, Sikandrabad, District Bulandshahar (UP).

This for the kind information please.

Your Sincerely,

For Ultra tech Cement Limited
(Unit: Sikandrabad Cement works)

Narayan Prabhakar Joshi
(Senior Vice President)

Copy To;

1. The Regional Office , UP Pollution Control Board ,T-5 Yamunapuram District-Bulandshahar (UP) 203001
2. The Chief Conservator of Forest (C) MoEF&CC, Regional Office (Central Region), Kendriya Bhawan ,5th Floor 'H' Aliganj, Lucknow (UP) -226010.
3. Regional Director, Central Pollution Control Board, PICUP Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow (UP)- 226010

22/8/23

ADITYA BIRLA
UltraTech

ENVIRONMENTAL STATEMENT REPORT 2022-23

Submitted by:

M/s ULTRATECH CEMENT LIMITED

(UNIT: SIKANDRABAD CEMENT WORKS)

Plot No. 19-20 UPSIDC Industrial Area Sikandrabad

District Bulandshahar (Uttar Pradesh)

PART – A

i)	Name and address of the owner / occupier of the industry, operation or process	:	UltraTech Cement Limited (Unit: Sikandrabad Cement Works) 19-20, Sikandrabad Industrial Area – 203205, District- Bulandshahar (Uttar Pradesh)
ii)	Industry category Primary – (STC Code) Secondary – (SIC Code)	:	Red Category
iii)	Production capacity	:	1.0 MTPA
iv)	Year of Establishment	:	April, 2011
v)	Date of the last environmental Statement submitted	:	07.09.2022

PART – B

Water and Raw Material Consumption

i) Water consumption m^3/d

Process : NA (As the plant is based on dry process)
Cooling : 5.56 m^3/d
Domestic : 40.30 m^3/d

Name of Products	Process water consumption per unit of product output (m^3/t)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
Cement	0.0023 KL/MT of Cement	0.0018 KL/MT of Cement

Production	Production of Cement (MT)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
Cement	852508	987007

ii) A. Raw material consumption : Cement Plant

Name of Raw Materials		Name of Product	Consumption of raw material per unit of output	
			During the current financial year (2021-22	During the current financial year (2022-23)
Clinker	t/t	Cement	0.601	0.600
Gypsum	t/t		0.061	0.055
Fly Ash	t/t		0.334	0.345

iii) B. Raw material consumption : D.G. Set

Name of Raw Materials		Name of Product	Consumption of raw material per unit of output (Lts/KWH)	
			During the previous financial year (2021-22)	During the current financial year (2022-23)
H.S. Diesel	1 x 2250 KVA	Power	Nil	Nil
H.S. Diesel	1010 KVA	Power	0.38 Lts/KWH	0.442 Lts/KWH

Note: 1x 2250 K.V.A DG Set is also installed at site but not in operation. Total fuel consumption during the year 2020-2021 was **NIL.**

1010 KVA LT DG set is installed and is being utilized for plant lighting purpose in case of Grid failure, clearing the material in the circuit and for packing plant operation under extreme emergency. The total fuel consumption for this DG set during the financial year 2020-2021 was 3979 LTRS.

Total D.G. Power Production (KWH)

During the previous financial year (2021-22)	During the current financial year (2022-23)
12186 KWH	9002 KWH

Power consumption KWH/Per Ton of Cement

During the previous financial year (2021-22)	During the current financial year (2022-22)
27.2146	25.898

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/vol.) i.e., kg/m³	Percentage of variation from prescribed standards with reasons
a) Water (Effluent)	As the plant is being operated on Dry Process Technology, no liquid effluent is generated from the Cement Grinding Unit. The waste water generated from the office toilet, Field Hostel is being treated under 50 KLD sewage treatment plant. The treated water is being reutilized for gardening the Trees, Shrubs, Hedges and green belt development in the entire campus.		
b) Emissions	Ambient Air, Stack Monitoring and Noise Monitoring Results are Enclosed as Annexure 1, 2 & 3 respectively.		

PART – D
HAZARDOUS WASTES

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

Hazardous Wastes	Total Quantity (KL)			
	During the previous financial year (2021-2022)		During the current financial year (2022-2023)	
	Used Oil	Waste Grease	Used Oil	Waste Grease
1. From Process	1.05	1.47	3.97	2.75
2. From Pollution Control Facilities	Nil		Nil	

PART – E
Solid Wastes

Solid Wastes	Total Quantity (Metric Ton)	
	During the previous financial year (2021-2022)	During the current financial year (2022-2023)
a) From process:	No solid waste generated from the cement manufacturing process.	No solid waste generated from the cement manufacturing process.
b) From pollution control facilities	All the collected material reused in process	All the collected material reused in process
(i) Qty. recycled or reused with in the unit.	100%	100%
(ii) Sold	Nil	Nil
(iii) Disposed	Nil	Nil

Note: There is few quantity of hazardous waste generated by some activity of process, which come under the category 5.1 of Hazardous waste management and handling rules, 2008 as amended in 2016. The authorization for Hazardous waste management and Handling Rules 2016 has been granted from the UPPCB, Lucknow. However, there is no hazardous waste generated from pollution control equipment/measures.

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.

Hazardous waste

Cement manufacturing is based on "Dry Process". No hazardous waste generated from the process except used oil, which is drained from Machineries/Equipment's. Used oil is sold out to UPPCB authorized TSDF.

Solid Wastes

No solid waste is generated in the plant. There is a zero discharge from the plant activities. The scrap generated from maintenance activities viz. metal pieces, wooden planks etc. are collected and sold to outside parties for re-use.

PART – G

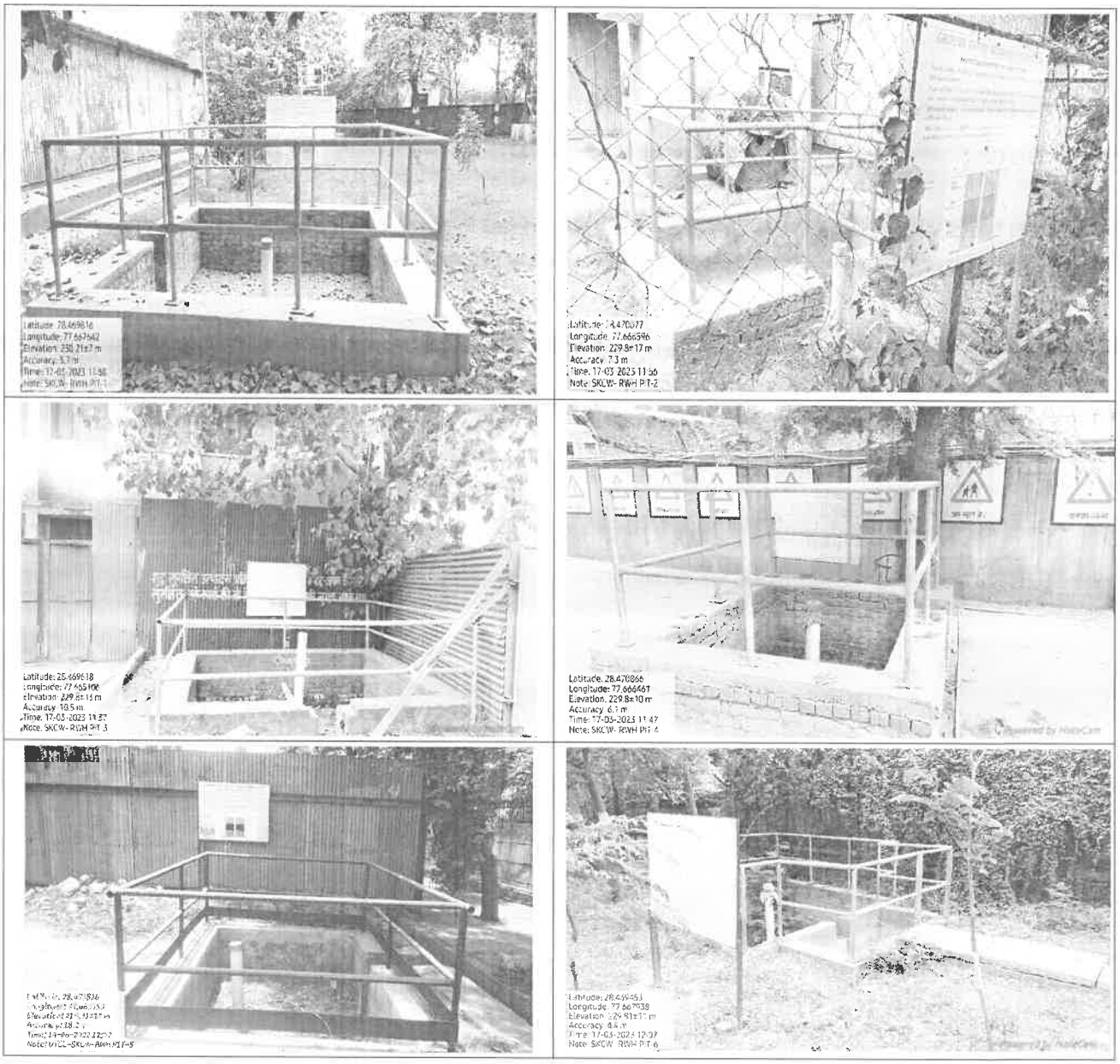
Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

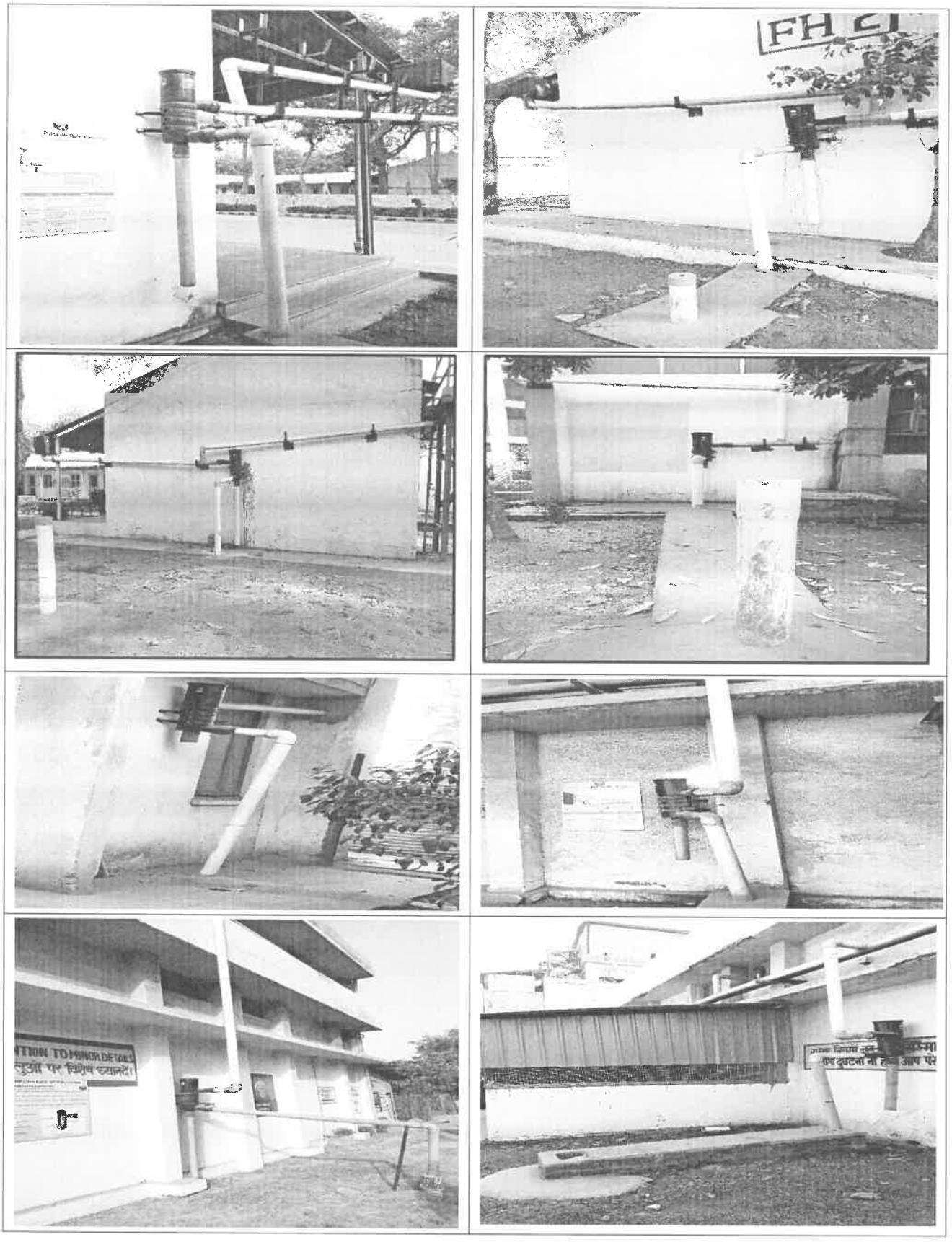
M/s UltraTech Cement Limited Unit: Sikandrabad Cement Works is being operated on dry process technology, which is cost effective and environmentally clean technology.

- All hose, pipelines, storage tanks are leak proof to avoid water or air leakage, which conserve natural resources and power consumption.
- Unit frequently measure the ground water level, noise level, ambient air quality and stack emission level.
- Unit consumed 336826.81 MT of Fly Ash and 4159.36 MT of Pond Ash in FY-2022-23, which eliminate adverse effect on environment and reduce the natural source for production.
- The advantage of dry process is also in fuel economy. Equipment is like Bag house control for stack emissions from the plant and Bag filters installed at various material transfer points to clean the process and arrest emissions. The particulate matter collected in APCE is recycled in process and neutralizing the cost of operation of pollution control equipment is recycled in process and neutralizing the cost of operation of pollution control equipment's and hence no cost impact on the production cost.
- Total 06 numbers of surface type and 08 numbers of Roof top rainwater harvesting structure have been prepared to augment ground water during rainy season and increase ground water level.
  - Near Security Main Gate
  - Near Annapurna mess

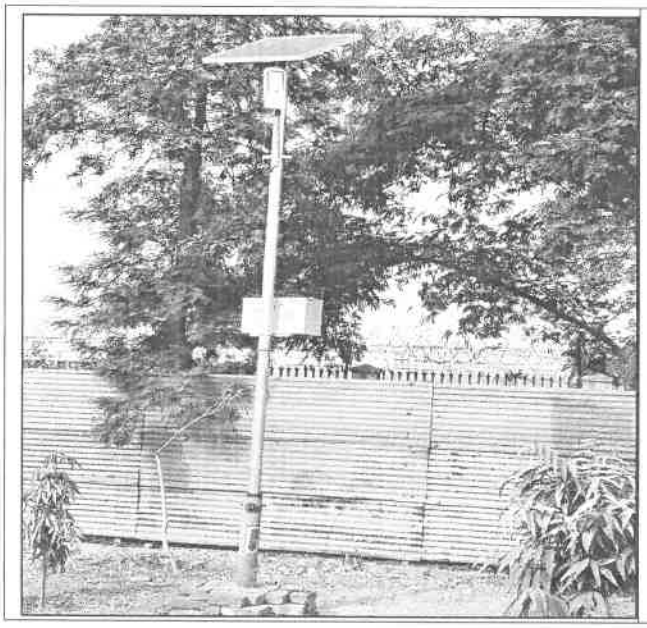
- Near Steel Yard
- Near Dispatch Gate
- Near dispatch Weigh Bridge
- Near RMH Weigh Bridge

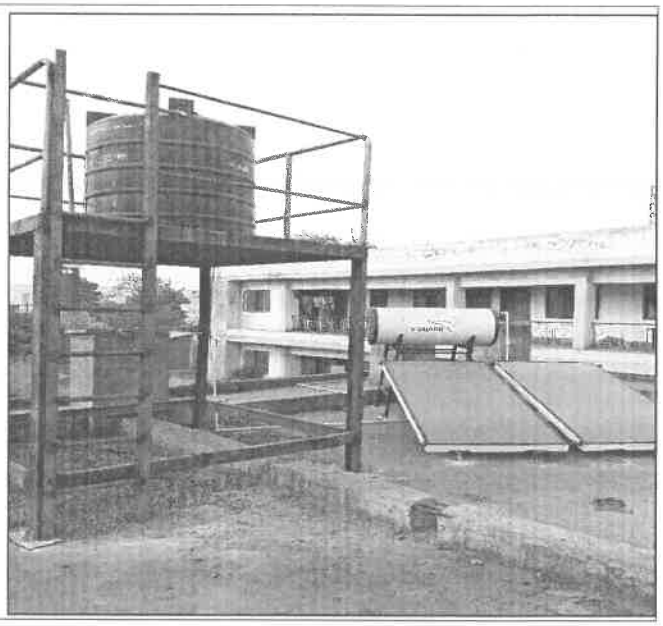
The photographs are below:





Solar Energy has been used in 4 nos. Of solar light and solar water heater installed in the plant, shown below:





- Vermicomposting is being followed in the plant

PART – H

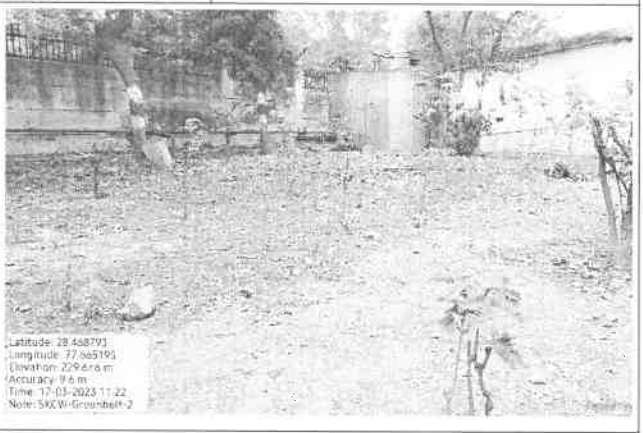
Additional measures/investment proposal for environmental protection including abatement of Pollution, prevention of pollution.

Maintenance of pollution control equipment, monitoring and analysis are carried out regularly.

Sr. No.	Particulars	Expenditure (in Rs. Lakh), In FY-2022-23
1	Air Pollution Control Measures	7.20
3	Environmental Monitoring	10.71
4	Waste Management	1.44
5	Green Belt/Plantation (inside and outside)	0.90
6	Water Management	2.66

Yearly Plantation Details:

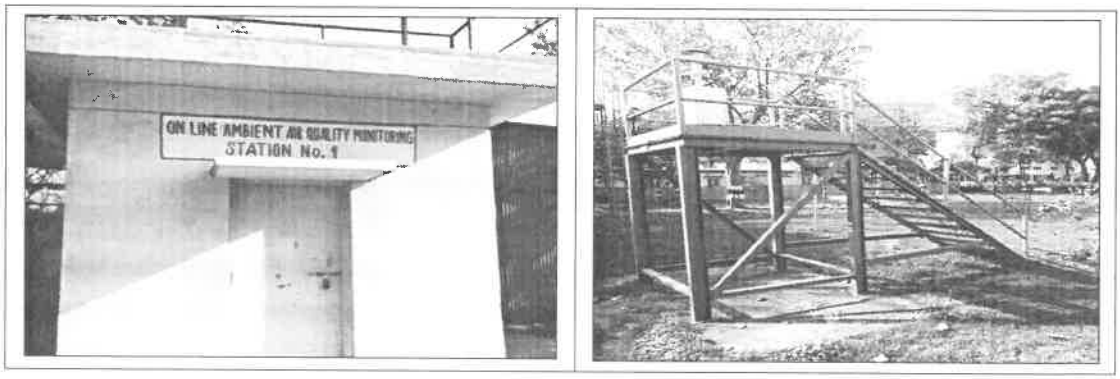
Year	Type of Species	Nos. Of tree	Age of trees	Survival Rate
2020-21	Tree	510	3	90
2021-22	Tree	500	2	80
2022-23	Tree	300	1.5	100



PART – I

Any other particulars for improving the quality of the environment.

1. Unit has separate environment cell headed by Senior Executive to carry out various management and monitoring functions towards clean environment
2. 02 Nos of CAAQMS (Continuous Ambient Air Quality Monitoring System), one in up wind direction and second in down wind direction installed and data transferring continuously.



3. 02 Nos. of CEMS (Continuous Emission Monitoring System) installed in Mill venting and Main Bag House stack.
4. Stack emission and ambient air monitoring is being done regularly.
5. Unit has installed 50 KLD STP and treated water is being used for horticulture purpose.
6. Fly ash transportation is carried out in closed tankers from the thermal power plant to our plant and unloaded in a closed silo by a pneumatic conveying system.
7. No effluent is generated from the process as cement grinding is based on dry process technology.
8. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
9. Unit is carrying out environmental awareness drives on regular basis.
10. Plantation activities are conducted by plant management on regular basis:

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Annexure – 1

UltraTech Cement Limited (Unit: Sikandrabad Cement Works)												
AMBIENT AIR QUALITY												
Year, 2022-23												
Location Month	NEAR GATE NO. 2				NEAR DISPATCH GATE				NEAR FIRE PUMP HOUSE			
	PM_{10} ($\mu g/M^3$)	$PM_{2.5}$ ($\mu g/M^3$)	SO_2 ($\mu g/M^3$)	NO_x ($\mu g/M^3$)	PM_{10} ($\mu g/M^3$)	$PM_{2.5}$ ($\mu g/M^3$)	SO_2 ($\mu g/M^3$)	NO_x ($\mu g/M^3$)	PM_{10} ($\mu g/M^3$)	$PM_{2.5}$ ($\mu g/M^3$)	SO_2 ($\mu g/M^3$)	NO_x ($\mu g/M^3$)
Apr-22	67.69	35.12	12.28	22.25	59.81	30.12	10.26	18.15	62.07	32.86	10.54	19.08
May-22	72.94	41.81	11.62	23.77	65	34.31	10.8	20.23	68.13	36.47	10.65	21.19
Jun-22	58.34	26.59	11.09	20.27	53.26	25.34	8.65	16.57	54.58	32.34	10.5	16.48
Jul-22	54.45	23.71	10.24	18.69	50.6	21.08	9.36	15.73	57.33	28.37	9.98	16.52
Aug-22	56.26	27.88	10.47	19.2	48.96	23.05	8.41	16.21	55.11	31.52	10.72	17.06
Sep-22	53.67	24.46	10.2	18.65	47.93	22.81	7.79	15.24	49.12	29.11	9.45	15.16
Oct-22	63.04	32.51	10.35	20.39	54.03	28.75	9.09	16.4	57.45	34.93	10.16	17.21
Nov-22	68.71	35.44	11.28	22.23	58.89	31.34	9.91	17.88	62.65	38.07	11.07	18.76
Dec-22	**71.21**	38.28	12.18	24.01	63.6	33.85	10.7	19.31	67.66	41.12	11.96	20.26
Jan-23	76.47	40.05	13.24	30.13	68.78	40.21	11.81	20.68	74.23	46.41	13.45	21.82
Feb-23	71.48	38.11	13.29	25.76	64.55	35.7	11.27	20.21	67.5	38.57	11.42	21.18
Mar-23	74.65	42.04	15.67	30.56	68.43	40.65	13.67	23.54	72.21	43.76	12.87	22.34
Average	65.74	33.83	11.83	22.99	58.65	30.60	10.14	18.35	62.34	36.13	11.06	18.92
Min	53.67	23.71	10.20	18.65	47.93	21.08	7.79	15.24	49.12	28.37	9.45	15.16
Max	76.47	42.04	15.67	30.56	68.78	40.65	13.67	23.54	74.23	46.41	13.45	22.34

Annexure – 2

UltraTech Cement Limited (Unit: Sikandrabad Cement Works)				
Annual Stack Monitoring Result				
2022-23				
S. No.	Month	Norms for SPM Emission from Stack	Location	
			Cement Mill Stack	Roller Press Stack
1	Apr-22	30 mg/Nm^3	15.4	14.2
2	May-22		15.6	14.5
3	Jun-22		20.34	17.26
4	Jul-22		15.7	14.6
5	Aug-22		16.8	15.2
6	Sep-22		18.1	21.44
7	Oct-22		14.2	15.2
8	Nov-22		15.8	16.4
9	Dec-22		18.9	19.3
10	Jan-23		17.8	18.5
11	Feb-23		10.5	12.8
12	Mar-23		10.9	13.3
Average			15.84	16.06
Min			10.50	12.80
Max			20.34	21.44

Annexure – 3

UltraTech Cement Limited (Unit: Sikandrabad Cement Works)							
Ambient Noise Level Monitoring Report							
YEAR 2022-23							
S. No.	Location	NEAR GATE NO. 2		NEAR DISPATCH GATE		NEAR FIRE PUMP HOUSE	
	Month	Day time	Night time	Day time	Night time	Day time	Night time
1	Apr-22	55.2	51.2	62.1	59.3	57.1	52.9
2	May-22	54.5	50.7	61.9	58.2	56	51.6
3	Jun-22	62.2	57.7	69.3	66.1	66.4	61.6
4	Jul-22	56.4	50.4	62.1	59.4	57.2	52.1
5	Aug-22	57.1	50.7	65.4	62.7	59.5	55.4
6	Sep-22	59.1	54.8	66.5	63.5	61.1	56.7
7	Oct-22	58	53.8	65.3	62.3	60.2	55.6
8	Nov-22	62.1	57.7	69.1	64.3	63.1	57.9
9	Dec-22	62.7	58.2	69.8	65.2	63.6	58.7
10	Jan-23	60.1	55.8	66.9	62.5	60.3	55.7
11	Feb-23	61.5	54.6	65.7	63.8	59.9	54.8
12	Mar-23	61.8	54.9	67.9	55.5	60.2	55.5
Average		59.23	54.21	66.00	61.90	60.38	55.71
Min		54.50	50.40	61.90	55.50	56.00	51.60
Max		62.70	58.20	69.80	66.10	66.40	61.60