ADITYA BIRLA

UltraTech

UTCL/SDCW/Env. /2025-26/96

Date-15.09.2025

To,
The Member Secretary
M.P.Pollution Control Board
Parayavaran Parishar, E-5
Arera Colony, Bhopal (M.P.)

Sub: - Submission of Environment Statement Report (Form-V) under Environment Protection Act, 1986 for M/s UltraTech Cement Ltd. Unit: Sidhi Cement Plant Works for the period from April-2024 to March-2025.

Ref: (i) No. J-110011/51/2007-IA II (I) dated 09.08.2007 & Name change letter dated 06.11.2017.
(ii) No. J-11011/546/2010-IA. II(I)dated 08.11.2011 & Name change letter dated 27.11.2017.
(iii) Consent No: AW-60903 Outward No:121148,14/08/2024.

Dear Sir,

This has reference to above and under the provision of Rule 14 of Environment protection act, 1986, we are submitting herewith the Environment Statement (Form-V) for the financial year 2024-25 of Cement Plant with 35 MW Captive power plant.

Kindly, provide us the acknowledgment of acceptance.

Thanking you
Yours faithfully

For UltraTech Cement Ltd,
Unit: Sidhi Cement Works

Sandeep Mishra
Functional Head- Tech.
Encl- As above

Copy to:
1. Regional Officer, MPPCB, HIG-190/191, Nehru Nagar, Rewa (M.P.)
2. Integrated Regional Office, Kendriya Paryavaran Bhawan, Link Road No. 3, Ravishankar Nagar, Bhopal 462016 (M.P.)
3. The Director, Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jorbagh Road, Aliganj New Delhi-110003

UltraTech CEMENT The Engineer's Choice

UltraTech Cement Limited
Sidhi Cement Works, Aditya Vihar, Village-Majhigawan, P.O. Bharatpur, Tehsil - Rampur Naikin, Distt. Sidhi (M.P.) 486 776
Tel. : +91-7802-276701-276710
Registered Office : Ahura Centre, 'B' Wing, 2nd Floor, Mahakali Caves Road, Andheri (East), Mumbai 400 093, India
T: +91 22 6691 7800 / 6691 7801 | F: +91 22 6691 7901 | W : www.ultratechcement.co.in | CIN: L26940MH2000PLC128420

SIDHI CEMENT WORKS
(Cement Plant and 35 MW CPP
(A UNIT OF ULTRATECH CEMENT LIMITED)
SIDHI (M.P)

ENVIRONMENT STATEMENT REPORT

F.Y:2024-2025

SUBMITTED TO
M.P.POLLUTION CONTROL BOARD
BHOPAL (M.P.)

1.0 Introduction

The Aditya Birla Group was named the AON best employer in India for 2018 - the third time over the last 7 years. The Group was earlier ranked fourth in the world and first in Asia Pacific in the 'Top Companies for Leaders' study 2011, conducted by Aon Hewitt, Fortune Magazine and RBL (a strategic HR and leadership advisory firm). The Group has also topped the Nielsen's Corporate Image Monitor 2014-15 and emerged as the 'No.1 Corporate', the 'Best in Class', for the third consecutive year. UltraTech as a brand embodies 'strength', 'reliability' and 'innovation'. Together, these attributes inspire engineers to stretch the limits of their imagination to create homes, buildings and structures that define the new India.

UltraTech Cement Limited is the cement flagship company of the Aditya Birla Group. UltraTech is the largest manufacturer of grey cement, ready-mix concrete (RMC) and white cement in India. UltraTech is the third largest cement company in the world, excluding China, with a consolidated production capacity of 192.26 million tonnes per annum (MTPA) of grey cement. UltraTech is the only cement company globally (outside of China) to have 175+ MTPA of cement manufacturing capacity in a single country. The Company's business operations span UAE, Bahrain, Sri Lanka and India.

Sidhi Cement Works is located 250 km from Jabalpur & 35 Km for Rewa Madhya Pradesh, around 24 km, North-West (NW) from National Highway No. 7 & around 2.3 km , East(E) from NH-75. The plant is pyro-processing technology with Make-L&T- UNIT-1, SLC Separate Line Calciner (SLC KILN –4500 TPD) & UNIT-2, ILC In Line Calciner (ILC KILN – 5000 TPD) Rotary kiln, Coolex cooler modified duoflex low NOx burner with capacity 6-stages low pressure cyclones both preheaters. The cement production process is based on dry process. Present production capacity of integrated Cement plant is 3.5-million-ton Cement, 3.0 Clinker million ton per annum & 35 MW Captive Power Plant (AFBC = Atmospheric Fluidized Bed Combustion Boiler).

Sidhi Cement Works is located near Majhigawan village in Rampur Naikin Tehsil, Sidhi District of Madhya Pradesh state at an aerial distance of about 50 km North-East of Sidhi & about 24 km aerial distance from Rewa in Southern direction. The Cement Plant falls at the intersection of geographically located at Latitude 24°32'69" North and Longitude 84°32'67" East & elevation of 325m above MSL.

We have been certified by Bureau Veritas (BV) for Quality Management System (QMS) (ISO-9001:2015), Environmental Management System (EMS)(ISO-14001:2015) & Occupational Health & Safety Assessment Series (OHSAS) (ISO-18001: 2018) Energy Management System (ISO-50001:2018).

FORM- V
(See rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st MARCH 2025
PART- A

(i)	Name and address of the owner/ Occupier of the Industry, operation or process	:	**B. P. Saggu** Joint Executive President & Unit Head Sidhi Cement Works (A Unit of UltraTech Cement Ltd) Vill. Majhigawan, Aditya Vihar Post-Bharatpur Thesil –Rampur Naikin District-Sidhi (M.P.) – 486776 Tel. 91-7802-276701
(ii)	Industry category Primary-(STC Code) Secondary-(SIC Code)	:	Red Category and Large Industry (Primary STC Category)
(iii)	Production Capacity Unit	:	3.0 MTPA (Clinker) 3.5 MTPA (Cement) 35 MW (Captive Power)
(iv)	Year of Establishment	: : :	Unit-I February, 2009 Unit-II January, 2013 35 MW/Hr February, 2009

(v) Date of last Environment Statement Submitted: 23.09.2024

PART- B
WATER AND RAW MATERIAL CONSUMPTION

(i) (A) Water consumption in Plant m^3/day

Process	:	Nil
Cooling	:	941.0
Domestic	:	101.0

(B) Water consumption in TPP 35 MW m^3/day

Process	:	80.0
Cooling	:	405.0
Domestic	:	20.0

Name of Products	Process water consumption per unit of Product output	
	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Clinker	0.089 M^3/MT	0.113 M^3/MT
Cement	0.0185 M^3/MT	0.0177 M^3/MT
Electricity	1.35 M^3/MW	1.5 M^3/MW

(ii) Raw Material Consumption

Name of raw material consume	Name of products	Consumption of raw material Per unit of output MT/ MT of Cement and MT/ KWh for Electricity	
		During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
1.Limestone 2.Laterite (HG) 3.Red Mud/Iron Ore 4. AFR 5. Pet coke	Clinker	1.79 0.041 0.046 0.0016 0.06	1.49 0.03 0.04 0.01 0.08
6.Bauxite 7.Gypsum 8.Fly Ash 9.Coal - Cement	Cement	0.00 0.036 0.347 0.091	0.00 0.023 0.344 0.085
10.Coal - Power	Electricity	7.05	5.77

(iii) Production of Cement (MT)

Production	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Clinker	27,55,043 MT	2781839 MT
Cement	17,46,744 MT	1589930 MT
Electricity	43637 MWH	49344 MWH

PART- C

POLLUTION DISCHARGES TO ENVIRONMENT/ UNIT OF OUTPUT

(PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

(i) Pollution	Quality of Pollutants Discharged (Mass/day) Tons/day	Concentration of Pollutants discharges (mass/volume) (mg/Nm3)	Percentage of variation from prescribed standards	Reasons
(a) Water	Average Value pH- 7.94 mg/l TSS- 55.8 mg/l BOD- 9.25 mg/l COD- 127.6 mg/l	The cement plant based on dry process technology, hence there is no trade effluent generation from cement plant process. The water only required for cooling of plant machinery/ equipment, which is re-circulated & recycled back into the system. Domestic effluent treatment through STP.		
(b) (i) Stack Emission				
Particulate Matter (PM) **Stack emission (Unit-I)**				
1) Raw mill & Kiln Stack	0.222	19.40	-45.93	Bag House
2) Cooler Stack	0.220	21.27	-40.73	ESP
3) Coal Mill Stack	0.038	3.65	-36.33	Bag House
4) Cement mill Stack	0.038	3.58	-39.00	Bag House
5) TPP (35 MW) Stack	0.26	24.08	-30.64	ESP
Stack emission (Unit-II)				
1) Raw mill & Kiln Stack	0.195	16.94	-49.33	Bag House
2) Cooler Stack	0.176	17.25	-32.73	ESP
3) Coal Mill Stack	0.037	3.53	-39.96	Bag House
4) Cement mill Stack	0.030	2.80	-38.63	Bag House
				We have installed above APCDs to control emissions.

ii) Ambient Air Quality Monitoring at Plant Boundary

Location	Near TPP			Annapurna			Near L/S Crusher			Near Auto work shop			Limits (µg/m3)	
Parameters	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	24 Hr	Annual
PM 2.5	20.9	50.7	36.7	17.0	54.0	38.0	23.2	56.1	39.6	20.0	54.6	36.8	60.0	40.0
PM 10	34.4	77.9	54.9	28.5	81.6	59.4	36.1	91.1	60.8	33.8	78.1	55.0	100.0	60.0
SO2	8.00	22.5	14.0	7.5	22.0	13.3	7.50	19.5	13.6	6.00	19.5	11.6	80.0	50.0
NO2	15.5	31.5	23.8	15.5	31.0	24.3	15.5	33.0	24.3	15.5	28.5	22.0	80.0	50.0

PART- D

(HAZARDOUS WASTES)

Hazardous & other waste (Management & Transboundary Movement) Rules, 2016

Hazardous Wastes	Total Quantity (MTs)	
(1) From process:	During the Previous financial Year (2023-24)	During the current financial Year (2024-25)
(a) Used or Spent Oil (Cat. I- 5.1)-	2.6 MT	3.0 MT
(b) Wastes or residues Containing Oil (Cat. I -5.2)-	1.20 MT	2.0 MT
(c) Spent ion Exchange Resin containing toxic metals (Cat-I 35.2)-	0.0 MT	0.0 MT
(d) Wastes cotton or residues Containing oil (Cat. I- 5.1)-	0.0 MT	0.0 MT
(e)Empty Barrels/Containers with hazardous chemical (Cat-I 33.1)-	2.2 MT	1.04 MT
(2) From pollution Control Facilities:	Nil	Nil

PART- E

SOLID WASTES

TOTAL QUANTITY (MTs)		
Solid Waste	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
(a) From Process	No solid waste is generated from the cement manufacturing process. 105516 MT Fly ash and 34732 MT bottom ash generated from TPP and 100% utilized in cement manufacturing.	No solid waste is generated from the cement manufacturing process. 19031 MT Fly ash and 383848 MT bottom ash generated from TPP and 100% utilized in cement manufacturing.
(b) From Pollution Control Equipment	All the collected material is recycled in the process.	All the collected material is recycled in the process.
(c)(i) Qty. recycled or reutilized within the unit.	All the collected swept solid waste is reused in the process.	All the collected swept solid waste is reused in the process.
(ii) Sold	Nil	Nil
(iii)Disposed	Nil	Nil

PART- F

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

1) **Hazardous Waste Management:**

The in-house generated used spent oil (Cat. 5.1) from and plant machineries/equipment is being stored in M.S. drums on concreted floor under covered room and is being sold out to authorized recycler.

2) **Solid Waste Management:**

- Solid waste generated from pollution control equipment (Bag houses, ESP & bag filters) recycled back into the system and reutilized.
- The refractory bricks and iron/steel scrap etc. disposed to vendors.
- Road & paved areas are being regular cleaned by sweeping machines.
- The non- biodegradable and bio-degradable waste from plant & colony is being segregated into manure for horticulture purpose.

PART- G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION OF THE POLLUTION ABATEMENT

1. Replacement of damaged filter bags in Bag House to effectively control the dust emission during material transport to improve the air quality inside the plant premises.
2. Green belt development in and around the plant premises
3. Construction of concrete roads in and around factory premises.
4. Continuous water spraying on roads for controlling the fugitive emission.
5. Water sprinkler installed at L/S Crusher and haulage road plant premise.
6. Good housekeeping practices being followed to avoid dust deposition on roads.
7. Extension of Covered shed for coal shed, gypsum shed, laterite shed.
8. Installed of online CAAQMS (Continuous Ambient Air Quality Monitoring Station) at Upwind & Downwind direction in plant premise.
9. Installed online CEMS (Continuous Emission Monitoring Station) at Raw Mill & Kiln Stack of both Unit and CPP-35 MW.
10. We have engaged 04 nos. mechanized road-sweeping machines to clean the concrete roads. A good housekeeping practice has already been adopted.

PART- H

ADDITIONAL MEASURES/ INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION.

Following measures have been adopted for abatement of pollution, conservation of natural resources:

1. Conservation of Limestone:

Limestone is being used for the manufacturing of cement by the proper blending of different grade of limestone for preparation of proper raw mix design which can be produced a good quality of cement. The raw mix design has been prepared in such a way that it reduces the limestone saturation factor by which substantial quality of limestone has been conserved. In the same manner as per the Regulation of Bureau of Indian Standard (BIS).

2. Conservation of Mineral Gypsum

We have used fertilizer industry byproduct which is waste in nature and its chemical properties are as good gypsum was used for cement manufacturing process.

3. Conservation of Fossil Fuel

(a) Utilization of Plastic waste as AFR

We have used high calorific value waste in co-processed AFR i.e. Plastic Waste, Biomass Briquette, FMCG Waste, Wood waste.

(b) Utilization of Pet coke

We have used refinery industry byproduct which is waste in nature and its chemical properties are good and used as fuel for replace of coal.

(c) Utilization of Red Mud

We have used Aluminum industry byproduct which is waste in nature and its chemical properties are good for replace of Laterite & Bauxite.

4. Energy conservation:

(a) Reduction in Thermal energy consumption:

The raw mix quality and process parameters have been maintained which resulted to reduction in Specific Heat per kg of clinker production.

(b)Energy Consumption

Energy Consumption is being monitored systematically on daily basis through power consumption report meetings and appropriate measures are evolved through this monitoring process resulting steadily decline in specific power consumption since plant commissioning. Involvement of workers, junior level, middle level & senior executives are ensured to achieve the desired goal.

The specific power consumption figures for last two years are shown below:

Key Performance Indicator (KPI)	FY 2023-2024	FY 2024-2025
Clinker Production	27,55,043	27,81,839
Sp. Power Cons./MT Clinker	59.58	61.87
Cement Production (WPC+PPC)	17,46,744	15,89,930
Sp. Power Cons./ MT Cement grinding	30.08	29.88
Sp. Power Cons./ MT Cement	68.07	69.91
Thermal Energy as Specific Heat (Kcal / kg Clk.)	703.77	706.03

(c)Energy Conservation measures taken-

Below mentioned are the major initiatives which had been taken to achieve reduction in energy consumption in all activities:

Sr. No.	Energy efficiency improvement measures (EEIM)	UOM	Saving as per UOM
1	Installation of fan less Colling tower in place of Colling tower in post climatization.	MWh/ annum	215.28
2	BLDC Fan 200 Nos. installation.	MWh/ annum	34.7
3	Coficon make ACC replaced with energy efficient ACC fan (03 Nos.)	MWh/ annum	721.67
4	75 KW Compressor installation	MWh/ annum	613

5. Utilization of fly ash for the manufacturing of cement:

Captive Power Plants were having capacity of 35 MW TPP which fly ash is being stored in closed silos from where it has been pneumatically conveyed to cement plant and directly to the cement mill for the cement grinding process. Apart from this we are also consuming fly ash for PPC cement manufacturing which is being collected from the different thermal power plant and being transported in closed container and being directly feed in the cement grinding through pneumatic feeding system.

6. Online real time Ambient Air Quality Monitoring Station (AAQMS) & CEMS:

Commissioned 02 nos. of CAAQMS at Upwind & Downwind direction in plant premise & 3 nos. CEMS at Raw Mill & Kiln Stack of both Unit and TPP-35 MW as per the approved location by RO, MPPCB, Rewa. The transmission of real time data started displaying in CPCB/MPPCB website & plant main gate for public domain w.e.f. 20.07.2012 for CAAQMS & 01.06.2015 for CEMS. 08 nos. Continuous monitoring system (Opacity meter) has been installed in all major stacks i.e. Raw mill & Kiln(U-I&II), Coal mill(U-I&II), Cooler(U-I&II), Cement mill(U-I&II) & 35MW-TPP.

7. Installation of pollution control devices:

02 nos. ESPs installed at 35 mw TPP, Clinker Cooler and 06 Nos. Bag house have been installed at Raw Mill & Kiln (U-I&II), Coal Mill (U-I&II) & Cement Mill (U-I&II) and Bag filters provided at Limestone Crusher, Cement Packer and all transfer point

8. Use of STP treated water:

We have latest and advance aerobic technology-based Sewage Treatment Plant which comprises of:

1. Screen Chamber with Oil & Grease Trap-800 KLD
2. Equalization Tank-69.60 m3/hr
3. Aerator I&II-64.0 m3/hr
4. Tube Settlers Tank-75.0 m3/hr
5. Primary Sand Filter (PSF)-33.30 m3/hr
6. Activated Carbon Filter (ACF)-33.30 m3/hr
7. Chlorine Contact Tank-34.20 m3/hr
8. Treated Water Tank-188.10 m3/hr
9. Sludge dry beds-15.0-unit 4 m3

Aerobic sludge process (ASP) based Aerobic technology. FAB (Fluidized Aerobic Bio Sludge) Technology is basically an attached growth technology where the complete growth of microorganism is achieved through attach process. The growth of micro-organism is achieved with the help of floating PVC media called the FAB media. FAB aeration activated sludge process using fine bubble diffused aeration system equipped with MGF, ACF has been installed. The capacity of Treatment Plant is 800 KL per day. The STP is upgraded from secondary treatment to tertiary treatment system by installing activated carbon filter, multi-grade & Chlorination. The generated sewage from different parts of colony is collected in raw sewage tank at STP where blowing is being done for homogenization of raw sewage water. This homogenized sewage water comes to aeration tank for sufficient aeration of sewage water and then conveyed to clarifier where suspended particle is being separated from raw sewage through tube settler. After that clarified water collected in intermediate holding tank and sludge settled at the bottom of clarifier is transported to sludge drying beds. Now the water from the intermediate tank is passed through pressure sand filter and then activated carbon filter and ultimately collected in the final holding tank where Chlorination is being done. Seventy percent of tertiary treated water is being used in the cement manufacturing process & remaining in horticulture activities. The Performance Evaluation Sewage Treatment Plant vetted by JP test & Research Centre, Ghaziabad (UP) Recognized from MoEF&CC.

9. Adopted of Zero Liquid Discharge (ZLD):

The Cement plant based on "Dry process technology" hence there is no effluent/waste water generation from cement plant process. The water only used for cooling & spraying

purpose, which is been re-circulated/recycled back into the system. Trade effluent/waste water generating from CPP (35 MW) process is being reutilized after neutralization for ash quenching & dust suppression in plant. Hence, there is no discharge of effluent/waste water on land inside/outside the premises. We are maintained **"Zero liquid Discharge (ZLD)"** by 100% utilization of treated waste water. Zero Liquid Discharge (ZLD) is a treatment process designed to remove all the liquid waste from a system and 100 % water utilized in-house. No water should be discharged outside in any case. We have established as system for treatment of all type of waste water and ensure 100 % water utilization in-house. The focus of ZLD is to treatment of waste water (domestic and industrial) and clean water for suitable reuse and to reutilization for gainful purpose either in process/dust suppression/horticulture etc.

STP Treated Water Quality Report (FY:2024-25)				
Parameters	**pH**	**B.O. D**	**C.O. D**	**T.S. S**
Unit	**All values are in mg/l except pH**			
Avg.	7.94	127.67	9.25	55.75
Min.	7.64	74.00	3.00	32.00
Max.	8.22	194.00	18.00	82.00
Standards	**6.5-9.0**	**30.00**	**250.00**	**100.00**

10. Water conservation:

3.0 km garland drain constructed around the plant for rain water harvesting in colony and plant premises. This harvested rain water is stored in our own manmade reservoir. The total rain water is collected and stored in this reservoir, the stored water are used for cement manufacturing process for cooling purpose.

In addition to the 05 captive adjacent mines pits (Overall Storage capacity–23.0 Lacs M^3), 01 no. rain water storage pond at plant Storage capacity 0.36 Lacs M^3), 01 rain water storage pond at colony (Storage capacity 0.15 lacs M^3) and are being maintained. Further 04 nos. of roof top Rain Water Harvesting structures are also being maintained for ground water recharge.

11. Solid Waste Management:

Solid waste generated from pollution control equipment (Bag houses, ESP & bag filters) recycled back into the system and reutilized. The refractory bricks and iron/steel scrap etc. disposed to vendors. Road & paved areas are being regular cleaned by sweeping machines. The non- biodegradable and bio-degradable waste from plant & colony is being segregated into combustible for co-processing in kiln and manure for horticulture purpose.

12. Collection & segregation of bio-degradable and non-bio-degradable waste

The collection & segregation of colony bio-degradable waste is being done in scientific manner. All colony household have been provided two colour bins for collection & storage of bio-degredable & non bio-degredable type waste. The segregated waste in two forms and further are collected in two bags from door to door & the stored in bigger riksha mounted bins. The segregated bio-degradable waste collected and converted into bio-gas through installation of bio-gas generation plant. The bio-gas generated in being ultimately utilized in the Annapurna Mess as a substitute fuel.

13. Noise Abatement:

Noise levels are being controlled through acoustic hoods, silencers, enclosures i.e. installed 25 Nos. blower silencers, 15 Nos. of compressor silencer and 12 Nos. of high-speed cooling fans attached with silencer at clinker cooler area. The noise level has been come down up to 7.0% in impulsive noise monitoring. A. cylindrical drum size silencer is hooked after cooling fan and exist Ambient Air to reduce machine impulsive noise.

The regular checking/maintenance of machineries are being done to reduce/control noise generation from the sources. All the personal protective equipment's (i.e. earplug/ear muffs etc) have been provided to the all workers/employees. The Noise levels at 4 locations along with the ambient air quality is being monitored in-house on monthly basis and on quarterly basis by MPPCB, Rewa.

Ambient Noise level monitoring data (Period: April,2024 to March,2025)

S. No.	Monitoring locations at plant boundary	Ambient Noise level data dB(A)					
		Day Time			Night Time		
		Min	Max	Avg	Min	Max	Avg
1	Near TPP	46.93	69.48	63.13	43.35	65.65	59.77
2	Near Auto workshop	45.14	66.63	60.80	41.64	63.36	54.74
3	Near Office Complex	40.07	64.73	58.60	38.38	57.52	49.98
4	Near LS Crusher	46.91	69.58	62.99	44.85	65.42	59.69
Prescribed Limit: Ambient Noise Level Standards (Industrial Area) 75 dB(A) Day Time (from 6.00 a.m. to 10.00 p.m.) & 70 dB(A) Night Time (from 10.00 p.m. to 6.00 a.m.)							

14. Occupational Health Surveillance Programme

Hospital (15 bedded) was available with 04 doctors along with staff for rendering medical services to the employees and population in and around the local villages. Occupational health check-up of workers has been carried out on 03 type of working area i.e. Normal area ECG, CBC, LFT, KFT, Urine REM, Chest X-Ray, Audiometry Spirometry and 2nd type of area i.e. Dust Prone and Noise prone area Audiometry, Spirometry, Eye test, PFT test, MSD, dermatitis, Sputum test etc was done.

15. Extensive plantation in and around the plant:

We have complete dedicated a team of skilled horticulturists for the afforestation and greenery development program at our plant and mines under the supervision of senior experienced person. We are on fast progress to achieve the full target of development green belt in 40 Ha (33%) area of the plant. The areas for the plantation have already being earmarked. Development of plantation and greenery along the road and unused areas. Ten years' green belt development plan is prepared to cover an area of 40 ha. (33%) of the plant as submitted to MPPCB. The land where green belt has to be developed was identified and earmarked on the layout plant. We have achieved 33% green belt by planting 98644 trees in 48.0 ha. It is most of the plant periphery is covered with three tier by native species i.e. Sisham, Arjun, Neem, Mango, Pipal , Jamun , Jack Fruit etc.

16. Fugitive dust control measures:

Installed 74 nos. Bag filters at transfer points for controlling fugitive dust emissions. The internal roads of the plant have been concreted. Water spray system has been provided on the road side, coal yard & limestone crusher. Roof sheds have been provided for

storage of raw material such as Gypsum and Iron ore. Fly ash is stored in the silo. All the conveyor belts are covered to restrict the fugitive emissions within permissible limits. Bag House and Bag filters are provided at all the transfer points; regular water sprinkling on roads is carried out for dust suppression. Bottom ash is used for land filling in the low-lying area and mined out area. Road sweeping is being done by 4 nos. mechanized sweeping machines. The dust extracted in the air pollution control equipment is being recycled and reutilized in the cement plant.

17. Treatment of Auto workshop effluent:

A gravity settler oils separator (Capacity-168m^3/day) has been installed for treatment of auto workshop effluent. The treated water is used for spraying on mines haulage road for dust suppression & collected oil is sold out to authorized recycler. The basic concept of oil and grease trap is to separate the oily water generated during washing and cleaning of the Heavy Earth Moving Equipment. Gravity settler oil separator compartments are made to give retention time to water to separate oil from water and oil are collected from the upper surface manually in empty oil drum and water are collected in last compartment is being used for haul road dust suppression. No water is allowed to discharge outside the plant premises. Zero discharge is maintained. The treated water is used for spraying on plant haulage road for dust suppression & collected oil is sold out to authorized recycler. We have conducted the Oil & Grease Performance Evaluation vetted by Govt. Engineering College, Rewa (MP).

18. Roof Top & Run off Rain Water Harvesting

It helps us in preservation of rain water and recharging of ground water. Harvested rain water is stored in our own man-made reservoir capacity 11,000 Cubic meter. The total rain water is collected and stored in this reservoir, water is being used not only for raising water table in surrounding vicinity but also for water sprinkling in the cement process for reduction of fugitive dust and suppression of dust emission along with Green Belt Development in mines & plant area.

19. Hazardous waste Management

We have centralized Hazardous waste storage area at Cement plant and Used oil & Waste oil generated is being stored centrally at Cement Plant Hazardous Waste storage area and disposal of the same is done through Authorized Recycler of CPCB/MPPCB only within 90 days. Used oil generated from the maintenance of heavy machinery at auto

workshop is being collected at identified storage shed. Used oil and grease is being sold to the authorized recyclers.

20. Air Pollution Control Measures Adopted:

- Water spraying at Limestone Yard & Laterite Yard dump hopper to control fugitive emission.
- Covering of all belt conveyors to control fugitive emission.
- Storage of Laterite, Fly ash, and Coal & Gypsum are being stored under covered shed.
- Cement Plant is equipped with modern pollution control devices, to mitigate the pollution.
- Major pollution control devices: 03 Nos of ESP, 06 Nos of bag house, 04 Nos. Major capacity bag filter.
- 74 Nos. of bag filters equipped at all transfer points for control of dust emission.
- 110 Nos. Energy meter installed for bag filters at transfer points.
- We have engaged 04 nos. mechanized road-sweeping machines to clean the concrete roads. A good housekeeping practice has already been adopted.

21. Eco-development measures including CSR Activities:

Eco-club for the company executives, which is undertaking Environment Awareness programs for the nearby schools & villagers such as poster competition, debates, discussion of various environmental issues of the local area, water & air pollution, tree plantation, rainwater harvesting, housekeeping, sanitary system etc. is working under the aegis environment cell. Corporate Social Responsibility (CSR) activities are already going on. Corporate Social Responsibility (CSR) activities for the eco-development measures including community welfare measures. CSR schemes are already undertaken on need based assessment in and around the villages within 5 km of the site and in consultation with the village Panchayat and the District Administration as part of CSR, employment of local youth after imparting relevant training as may be necessary is being under take.

Financial Years	2023-24	2024-25	CSR Activities
Focus Key Areas	*Lakh (Rs.)*	*Lakh (Rs.)*	
Education	350.0	447.64	Two Higher secondary schools & one ITI are running which covering 1600 students every year. Aditya Birla Public School Aditya Birla Higher Secondary School,AB - ITI Education support programme :- Nabadaya Coaching class - 78 students benefitted. School bag & Sweeter given to 1987 nos Student of 1st to 5th Class benefited from 45 Govt. Primary Schools. Improved the school infrastructure development - Upgrading existing school infrastructure to ensure safety and usability. Provide clean drinking water and organized class rooms to the school students so that quality education can be provided to the students. 146 Nos. Bench Desk, 2 Water Cooler with UV Filter and 40 Nos. Fan installed in schools of Argat & Piprao village which benefitted 750 students.

			103 Student of 1st to 5th Class benefited from Govt. Middle School of Majhigawan villages, 1 Water Cooler with UV Filter and 4 Dari given.
Health	22.25	37.63	Activity: Rural Medical camp, adolescent wellness initiatives, access to clean drinking water through tankers & tube wells, and Infrastructure support to PHCs of the area. Nutrition support to 200 Nos TB patients of Sidhi district in collaboration of district administration. 41 camps benefitted 1561 patients of nearby villages. Support was provided to Community Health Center to strengthen women and child health services and to encourage institutional deliveries. 4 AC, 1 Water Cooler with UV Filter, 1 Suction Machine, 4 Room Heater, 1 LED TV, 3 Waiting Chair, Health & Hygiene Awareness Program - 34 nos events covered 2834 beneficiaries. Eye screening camp organized in village Piprao which covered 184 patients for screening & spectacles. Output: Benefiting 6500 individuals through health initiatives such as health camp, health awareness programs, and clean water access. Enhanced community awareness, reduced waterborne diseases, better adolescent health, and overall improved quality of life.
Sustainable Livelihood	47.89	29.94	To create sustainable livelihoods by providing skill training, employment opportunities, and supporting entrepreneurship, fostering long-term economic growth and self-reliance. Empowering communities through skill development, sustainable employment, and entrepreneurial support to drive long-term economic growth and financial independence. Activity: Supply of Haththela (Street vending cart), vocational basic tailoring training programme for women, ITI courses for rural youths. Output: Reaching a total of 400 beneficiaries through sustainable livelihood initiatives. Improved income stability, enhanced skillsets, and sustainable livelihoods, leading to long-term community welfare. including skill development, vocational training, and entrepreneurial support.
Infrastructure Development	100.0	6.27	To improve community well-being by developing critical infrastructure, including RCC Chairs, Solar lights, pond excavation and essential community assets, ensuring better accessibility and quality of life. Supply of drinking \ Activity: 70 Nos RCC chairs installed. 100 Nos. Solar Light installed in 14 gram panchayats which will benefit more than 1400 households. Pond deepening & strengthening work in Gram Panchayat Argat & Patna

			Output: Reaching a total of 3800 beneficiaries through infrastructure development initiatives and community asset improvements. Providing drinking water through water tankers to the villagers facing the problem of drinking water during summer. About 1200 families are being provided 245000 litres of water per day in villages during summerseason. Outcome: Enhanced community infrastructure, better accessibility, and strengthened local resilience through efficient resource management and asset development.
Social Causes	0 .90	14.12	Wherever people were facing the problem of drinking water, ensuring availability of clean drinking water through hand pumps so that drinking water can be available to everyone near their homes. 15 nos of tubewells has been installed. Different events like international yoga day, environment day, regular road safety awareness, sports support etc conducted throughout the year. To encourage rural youth towards sports so that they can develop creatively and also can be kept conscious about their health. 750 youths supported with sports equipment.
Total	***521.04***	***535.60***	

PART – I

OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

Following measures have been taken to reduce emission level and maintain good housekeeping at UltraTech Cement Limited, Unit: Sidhi Cement Works.

1. All raw materials stored in silos/covered shed / covered with Tarpaulin.
2. Transportation of Raw material and finished product is being done by tarpaulin covered vehicle / closed bulkers.
3. 115 nos. bag filters provided at all transfer points and belt conveyers are covered.
4. Bag House installed with Raw mill &Kiln, Coal mill & Cement mill stacks. ESPs installed with clinker cooler & CPP Boiler stack. Acoustic enclosure, stack attached with DG Sets.
5. Road sweeping is being done by 04 nos. mechanized sweeping machines.
6. Green belt development in around plant boundary is being done.

Environment Expenditure: - Expenses related to environment protection measures are as Protection of Environment during FY 2024-25

Initiatives for Protection of Environment

S. N.	Initiative taken	Activities	Amount Spent (Rs. In Lakhs) (2024-25)
1	Air Pollution (Control & Prevention)		
i	Effective Operation of Air Pollution control equipment installed at Plant for stack and fugitive dust emissions control/ abatement	Power/Energy to Major Pollution Control Equipment (i.e., ESP's, Bag Houses etc.)	1735.18
ii	Green Belt Development/ Maintenance Activity to control air pollution and to create clean & green environment at Plant, Colony & Mines & horticulture.	Development & Maintenance of green belt & Mines Topsoil handling for Planation activity & Horticulture activities.	71.97
iii	Water spray at mines haul roads/mines activity areas and Plant unpaved/raw material storage areas to control fugitive dust emission	Regular water spray by tankers	79.45
iv	Housekeeping to control of fugitive dust emission & maintain clean/healthy environment at Plant & Colony Area	Sweeping Machine Running Cost	18.26
v	Strengthening of Environment pollution monitoring systems to measure & control pollution	Calibration of Environment Equipment	4.5
		Maintenance/Services of Online continuous Emission Monitoring systems and data connectivity with CPCB/SPCB	18.5
2	Water Pollution (Control & Prevention)		
i	Treatment of domestic wastewater for water pollution control & re-utilization of treated water for fresh water conservation	Operation & maintenance of Sewage Treatment Plant	6.0
3	Waste Collection & Disposal		
i	Collection and disposal of Municipal Solid Waste from Plant & Colony; Biomedical Waste from health Centre and Hazardous Waste (disposable) generated from Plant/Mines/Colony to prevent environment pollution	Collection & proper disposal of waste BMW	9.59

4	Rain Water Harvesting/ Water Conservation		
i	Maintenance of developed Rainwater harvesting structures of Plant and colony for effective recharge of ground water & conservation of natural water resources	Maintenance & Cleaning of Rainwater Harvesting systems & drains	1.5
5	Environment Monitoring & Assessment by External Agencies		
i	Environmental monitoring & assessment by external agencies (third party) to check/ verify the effectiveness of installed environment protection measures	Environment parameters monitoring by third party & MPPCB, ground water level & quality monitoring, EIA Study, Biological Study and ground water renewal application.	96.74
ii	Wildlife Conservation plan of Captive Limestone Mines	Wildlife conservation charges	19.43
6	Fees as per Environment Rules		
i	Deposition of Environment application/inspection fees & CGWA abstraction charges as per legal Rules	Consent to operate renewal fees for Cement Plant, 2x60 MW CPP and 7 Mines	90.49
7	Environment Awareness & Promotion and training		
i	Environment related education & training of personnel employed for awareness about the legal laws and implementation of legal condition at Plant	Environment awareness expenses Vehicle Hire, Painting of Environment awareness and gifts and material for Environment Day celebration.	1.0
8	CSR Expenditure		
i	CSR Expenditure	CSR Expenditure in different activities	535.60
Grand Total in (Rs. In Lakhs)			**2687.77**

For UltraTech Cement Ltd.
Unit: Sidhi Cement Work

Authorized Signatory