ADITYA BIRLA

UltraTech

To,

Date- 18.09.2024

The District Environmental Engineer
Tamil Nadu Pollution Control Board,
SF.No.4/326, Trichy Main Road,
Keelapalur Village, Ariyalur Taluk,
Ariyalur District - 621707.

Sub- Submission of Environmental Statement (Form –V) financial year 2023-24 for all the Mining leases of M/s UltraTech Cement Ltd, Unit- Reddipalayam Cement Works, District & Taluk Ariyalur of Tamilnadu.

Dear Sir,
Please find enclosed herewith the **Form-V** Environmental Statement of Limestone mining eases of M/s UltraTech cement Ltd, Unit Reddipalayam as listed below for the FY 2023-24.

Sr No	ML No	Village name	District
1	ML-1	Reddipalayam, Pudupalayam and Periyathirukonam Limestone mine	Ariyalur
2	ML-2	Reddipalayam Limestone mine	Ariyalur
3	ML-3	Reddipalayam, Pudupalayam Limestone Mine	Ariyalur
4	ML-7	Alanthuraiyarkattalai Limestone mine-I	Ariyalur
5	ML-8	Varagupadi Limestone Mine	Perambalur
6	ML-9	Alanthuraiyarkattalai Limestone mine-II	Ariyalur
7	ML-13	Ottakovil Limestone Mines	Ariyalur

This is for your kind perusal.

Thanking You
Yours Faithfully

For UltraTech Cement Ltd
Unit: - Reddipalayam Cement Works

K.Karunakara Rao
Unit Head

Copy to- The Joint Chief Environmental Engineer,
Tamil Nadu, Pollution Control Board
Trichy.

The Regional Director
MoEFCC
Chennai

ULTRATECH CEMENT LTD. * ARIYALUR 621 731 * REDDIPALAYAM CEMENT WORKS

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31St MARCH - 2024

PART - A

1) Name & Address of the owner/occupier of the industry operation/process	:	Shri.K.Karunakara Rao Unit Head Reddipalayam, Pudupalayam & Periyathirukonam Limestone Mine (ML-1), UltraTech Cement Ltd., Unit: Reddipalayam Cement Works Ariyalur district, TamilNadu - 621731
2) Industry category Primary: (STC Code) Secondary: (SIC Code)	:	Red ----- -----
3) Production capacity: Units	:	2.0 MTPA (Limestone)
4) Year of Establishment	:	06.01.1987
5) Date of last Environmental Statement submitted	:	22nd September 2023

PART - B
WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption m^3 / day

Source	Min	Max	Avg.
Process	0	60	30
Domestic	0	5	3

Process water consumption per unit of product output

Name of the products	During the last financial year: 2022- 2023	During the current financial year: 2023 - 2024
1) Limestone Mining	Mine was not in operation during the year 2022-2023	Mine was not in operation during the year 2023-2024

Note: water used for dust suppression & afforestation purpose only

ii. Raw Material Consumption

Name of the raw materials	Name of the products	Consumption of raw materials per unit of output	
		During the last financial year: 2022- 2023	During the current financial year: 2023 - 2024
Fuel	Limestone Mining	Mine was not in operation during the year 2022- 2023	Mine was not in operation during the year 2023-2024
Lube			
Power			

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Not Applicable – There is no waste water generated from mining activities. Domestic waste water is treated in septic tank followed by soak pit.		
b) Air	Air Quality abstract is given in Annexure - 1		

PART - D
HAZARDOUS WASTES
[As specified under Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous wasted	Total quantity generated in Kg.	
	During the last financial year: 2022- 2023	During the current financial year: 2023 - 2024
a) From process	No hazardous wastes have been generated	
b) From Pollution control facilities		

PART - E
SOLID WASTES

Sources	Total Quantity in tonnes	
	During the last financial year: 2022- 2023	During the current financial year: 2023 - 2024
a) From process – Overburden is the only solid waste generated	No solid waste generated	No solid waste generated
b) From pollution control facility	NA	NA
c) Quantity recycled or reutilized within the unit	NA	NA

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.

Mine was not operated during the year 2023-24, hence no solid waste (overburden) was generated

PART - G

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

Significant resource conservation measures undertaken as follows.

- Systematic & Scientific Mining Operations by using Mining Software's
- Proportionate Blending of different grades of ore for meeting plant requirements

The above practices contribute to save mineral and help in conserving valuable natural resources. Al so all the surrounding areas are kept free from pollution. The recurring expenses incurred for the financial year 2023-24 is 0.00 Rs/Mt. of limestone production. The expenditure details of environmental protection for the year 2023-24 is attached as Annexure-II.

PART - H

Additional measure or investment proposal for environment protection including abatement of pollution prevention of pollution.

- Green belt development and tree plantation is continuous activity. Plantation has been done on OB sites, reclaimed areas and buffer zone. The plantation details given as Annexure-III.
- Rain Water Harvesting in exhaust mine pit for conservation & improvement of ground water table.
- Awareness and implementation of EMS – ISO – 14001 for improvement in Environment by systematic activities, audits and corrective actions.

PART - I

Any other particular in respect of environmental protection and abatement of pollution.

- ✓ Monitoring of Environmental Parameters (Air, Soil, Water, Noise Level) in mines for all seasons.
- ✓ Plantation all along the mines boundary & overburden dumps etc.
- ✓ Frequent water spraying on mine haulage roads, village roads to prevent the fugitive dust generation.
- ✓ Eco-friendly Mining operation using Ripper Dozer/Rock Breaker to minimize noise and ground vibrations

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31St MARCH -2024

PART - A

1) Name & Address of the owner/occupier Of the industry operation/process	:	Shri.K.Karunakara Rao Unit Head Reddipalayam Limestone Mine (ML-2), UltraTech Cement Ltd., Unit: Reddipalayam Cement Works Ariyalur district, Tamilnadu - 621731
2) Industry category Primary: (STC Code) Secondary: (SIC Code)	:	Red ----- -----
3) Production capacity: Units	:	2.0 MTPA (Limestone)
4) Year of Establishment	:	20.03.2006
5) Date of last Environmental Statement submitted	:	22nd September 2023

PART - B
WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption m^3 / day

Source	Min	Max	Avg.
Process	0.0	40	20
Domestic	0.0	5.0	3.0

Process water consumption per unit of product output

Name of the products	During the last financial year: 2022- 2023	During the current financial year: 2023 - 2024
1) Limestone Mining	0.01 cum / ton of limestone	0.01 cum / ton of limestone

Note: water used for dust suppression & afforestation purpose only

ii. Raw Material Consumption

Name of the raw materials	Name of the products	Consumption of raw materials per unit of output	
		During the last financial year: 2022- 2023	During the current financial year: 2023 - 2024
Fuel	Limestone Mining	0.404 ltr/ton	0.516 ltr/ton
Lube		Nil	Nil
Power		0.658 units/ton	0.900 units/ton

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Not Applicable – There is no waste water generated from mining activities. Domestic waste water is treated in septic tank followed by soak pit.		
b) Air	Air Quality abstract is given in Annexure - 1		

PART - D
HAZARDOUS WASTES

[As specified under Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous wasted	Total quantity generated in Kg.	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process	No hazardous wastes have been generated	
b) From Pollution control facilities		

PART - E
SOLID WASTES

Sources	Total Quantity in tonnes	
	During the last financial year: 2022- 2023	During the current financial year: 2023 - 2024
a) From process – Overburden is the only solid waste generated	329686.56	504859.79
b) From pollution control facility	NA	NA
c) Quantity recycled or reutilized within the unit	NA	NA

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.

- No Hazardous waste generated from the mining activity.
- Solid wastes in terms of overburden is removed and stacked at earmarked area and used for refilling of exhausted mine pit.

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - G

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

Significant resource conservation measures undertaken as follows.

- Systematic & Scientific Mining Operations by using Mining Software's
- Proportionate Blending of different grades of ore for meeting plant requirements

The above practices contribute to save mineral and help in conserving valuable natural resources. Also all the surrounding areas are kept free from pollution. The recurring expenses incurred for the financial year 2023-24 is 1.622 Rs/Mt. of limestone production. The expenditure details of environmental protection for the year 2023-24 is attached as Annexure-II.

PART - H

Additional measure or investment proposal for environment protection including abatement of pollution prevention of pollution.

- Green belt development and tree plantation is continuous activity. Plantation has been done on OB sites, reclaimed areas and buffer zone. The plantation details given as Annexure-III.
- Rain Water Harvesting in the bottom most mine pit for conservation & improvement of ground water table.
- Awareness and implementation of EMS – ISO – 14001 for improvement in Environment by systematic activities, audits and corrective actions.

PART - I

Any other particular in respect of environmental protection and abatement of pollution.

- ✓ Monitoring of Environmental Parameters (Air, Soil, Water, Noise Level) in mines for all seasons.
- ✓ Plantation all along the mines boundary & overburden dumps etc.
- ✓ Frequent water spraying on mine haulage roads, village roads to prevent the fugitive dust generation.
- ✓ Eco-friendly Mining operation using Ripper Dozer/Rock Breaker to minimize noise and ground vibrations

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31St MARCH -2024

PART - A

1) Name & Address of the owner/occupier of the industry operation/process : Shri.K.Karunakara Rao
Unit Head
Reddipalayam & Pudupalayam Limestone Mine (ML-3),
UltraTech Cement Ltd.,
Unit: Reddipalayam Cement Works
Ariyalur district, Tamilnadu - 621731

2) Industry category : Red
Primary: (STC Code) : -----
Secondary: (SIC Code) : -----

3) Production capacity: Units : 0.5 MTPA (Limestone)

4) Year of Establishment : 03.03.2006

5) Date of last Environmental Statement submitted : 22nd September 2023

PART - B
WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption m^3 / day

Source	Min	Max	Avg.
Process	0.0	25	20
Domestic	0.0	2	1

Process water consumption per unit of product output

Name of the products	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
1) Limestone Mining	0.02 cum / ton of limestone	0.01 cum / ton of limestone

ii. Raw Material Consumption

Name of the raw materials	Name of the products	Consumption of raw materials per unit of output	
		During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
Fuel	Limestone Mining	0 ltr/ton	0 ltr/ton
Lube		Nil	Nil
Power		0 units/ton	0 units/ton

ULTRATECH CEMENT LTD * ARIYALUR 621 731 * REDDIPALAYAM CEMENT WORKS

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Not Applicable – There is no waste water generated from mining activities. Domestic waste water is treated in septic tank followed by soak pit.		
b) Air	Air Quality abstract is given in Annexure - 1		

PART - D
HAZARDOUS WASTES

[As specified under Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous wasted	Total quantity generated in Kg.	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process	No hazardous wastes have been generated	
b) From Pollution control facilities		

PART - E
SOLID WASTES

Sources	Total Quantity in tonnes	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process – Overburden is the only solid waste generated	NA	NA
b) From pollution control facility	NA	NA
c) Quantity recycled or reutilized within the unit	NA	NA

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.

- Mine was not operated during the year 2023-24, hence no solid waste (overburden) was generated.

ULTRATECH CEMENT LTD
ARIYALUR
621 731
REDDIPALAYAM CEMENT WORKS

PART - G

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

Significant resource conservation measures undertaken as follows.

- Systematic & Scientific Mining Operations by using Mining Software's
- Proportionate Blending of different grades of ore for meeting plant requirements

The above practices contribute to save mineral and help in conserving valuable natural resources. Also, all the surrounding areas are kept free from pollution. The recurring expenses incurred for the financial year 2023-24 is 0.00 Rs/Mt of limestone production. The expenditure details of environmental protection for the year 2023-24 is attached as Annexure-II.

PART - H

Additional measure or investment proposal for environment protection including abatement of pollution prevention of pollution.

- Green belt development and tree plantation is continuous activity. Plantation has been done on OB sites, reclaimed areas and buffer zone. The plantation details given as Annexure-III.
- Rain Water Harvesting in the bottom most mine pit for conservation & improvement of ground water table.
- Awareness and implementation of EMS – ISO – 14001 for improvement in Environment by systematic activities, audits and corrective actions.

PART - I

Any other particular in respect of environmental protection and abatement of pollution.

- ✓ Monitoring of Environmental Parameters (Air, Soil, Water, Noise Level) in mines for all seasons.
- ✓ Plantation all along the mines boundary & overburden dumps etc.
- ✓ Frequent water spraying on mine haulage roads, village roads to prevent the fugitive dust generation.
- ✓ Eco-friendly Mining operation using Ripper Dozer/Rock Breaker to minimize noise and ground vibrations

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31St MARCH -2024

PART - A

1) Name & Address of the owner/occupier of the industry operation/process	:	Shri.K.Karunakara Rao Unit Head Periyanagalur Limestone Mine (ML-5), UltraTech Cement Ltd., Unit: Reddipalayam Cement Works Ariyalur district, Tamilnadu - 621731
2) Industry category Primary: (STC Code) Secondary: (SIC Code)	:	Red ----- -----
3) Production capacity(CTO): Units	:	0.050 MTPA (Limestone)
4) Year of Establishment	:	03.03.2006
5) Date of last Environmental Statement submitted	:	22nd September 2023

PART - B
WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption m^3 / day

Source	Min	Max	Avg.
Process	0.0	0.0	0.0
Domestic	0.0	0.0	0.0

Process water consumption per unit of product output

Name of the products	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
1) Limestone Mining	Mine was not in operation during the year 2022 – 2023 for not having EC.	Mine was not in operation during the year 2023 – 2024.

Note: water used for dust suppression & afforestation purpose only

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

ii. Raw Material Consumption

Name of the raw materials	Name of the products	Consumption of raw materials per unit of output	
		During the last financial year: 2022 – 2023	During the current financial year: 2023 - 2024
Fuel	Limestone Mining	Nil	Nil
Lube		Nil	Nil
Power		Nil	Nil

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Not Applicable – There was no waste water generated from mining activities.		
b) Air	Mine was not operated during the year 2023 - 2024		

PART - D
HAZARDOUS WASTES

[As specified under Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous wasted	Total quantity generated in Kg.	
	During the last financial year: 2022 – 2023	During the current financial year: 2023 - 2024
a) From process	No hazardous wastes have been generated	
b) From Pollution control facilities		

PART - E
SOLID WASTES

Sources	Total quantity in tonnes	
	During the last financial year: 2022 – 2023	During the current financial year: 2023 - 2024
a) From process – Overburden is the only solid waste generated	Nil	Nil
b) From pollution control facility	NA	NA
c) Quantity recycled or reutilized within the unit	NA	NA

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.

- Mine was not operated during the year 2023-24, hence no solid waste (overburden) was generated.

PART - G

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

Significant resource conservation measures undertaken as follows.

- Systematic & Scientific Mining Operations by using Mining Software's
- Proportionate Blending of different grades of ore for meeting plant requirements

The above practices contribute to save mineral and help in conserving valuable natural resources. Also all the surrounding areas are kept free from pollution. The recurring expenses incurred for the financial year 2023-24 is 0.00 Rs/Mt. of limestone production. The expenditure details of environmental protection for the year 2023-24 is attached as Annexure-II.

PART - H

Additional measure or investment proposal for environment protection including abatement of pollution prevention of pollution.

- Green belt development and tree plantation is continuous activity. Plantation has been done on OB sites and buffer zone.
- Rain Water Harvesting in the bottom most mine pit for conservation & improvement of ground water table.
- Awareness and implementation of EMS – ISO – 14001 for improvement in Environment by systematic activities, audits and corrective actions.

PART - I

Any other particular in respect of environmental protection and abatement of pollution.

- ✓ Monitoring of Environmental Parameters (Air, Soil, Water, Noise Level) in mines Plantation all along the mines boundary & overburden dumps etc.
- ✓ Frequent water spraying on mine haulage roads, village roads to prevent the fugitive dust generation.
- ✓ Eco-friendly Mining operation using Rock Breaker to minimize noise and ground vibrations

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31St MARCH -2024

PART - A

1) Name & Address of the owner/occupier of the industry operation/process	:	Shri.K.Karunakara Rao Unit Head Alanthuraiyarkattalai Limestone Mine (ML-7), UltraTech Cement Ltd., Unit: Reddipalayam Cement Works Ariyalur district, Tamilnadu - 621731
2) Industry category Primary: (STC Code) Secondary: (SIC Code)	:	Red ----- -----
3) Production capacity: Units	:	0.0712 MTPA (Limestone)
4) Year of Establishment	:	13.12.2012
5) Date of last Environmental Statement submitted	:	22nd September 2023

PART - B
WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption m^3 / day

Source	Min	Max	Avg.
Process	0.0	20	10
Domestic	0.0	2	1

Process water consumption per unit of product output

Name of the products	During the last financial year: 2022 - 2023	During the current financial year: 2023 – 2024
1) Limestone Mining	0.05 cum / ton of limestone	0.004 cum / ton of limestone

Note: water used for dust suppression & afforestation purpose only

ii. Raw Material Consumption

Name of the raw materials	Name of the products	Consumption of raw materials per unit of output	
		During the last financial year: 2022 - 2023	During the current financial year: 2023 – 2024
Fuel	Limestone Mining	0.411 ltr/ton	0.425 ltr/ton
Lube		Nil	Nil
Power		0.047 units/ton	0.004 units/ton

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Not Applicable – There is no waste water generated from mining activities. Domestic waste water is treated in septic tank followed by soak pit.		
b) Air	Air Quality abstract is given in Annexure - 1		

PART - D
HAZARDOUS WASTES
[As specified under Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous wasted	Total quantity generated in Kg.	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 – 2024
a) From process	No hazardous wastes have been generated	
b) From Pollution control facilities		

PART - E
SOLID WASTES

Sources	Total Quantity in tonnes	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 – 2024
a) From process – Overburden is the only solid waste generated	32963.55	6378.52
b) From pollution control facility	NA	NA
c) Quantity recycled or reutilized within the unit	NA	NA

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.

- No Hazardous waste generated from the mining activity.
- Solid wastes in terms of overburden is removed and stacked at earmarked area and used for refilling of exhausted mine pit.

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - G

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

Significant resource conservation measures undertaken as follows.

- Systematic & Scientific Mining Operations by using Mining Software's
- Proportionate Blending of different grades of ore for meeting plant requirements

The above practices contribute to save mineral and help in conserving valuable natural resources. Also, all the surrounding areas are kept free from pollution. The recurring expenses incurred for the financial year 2023-24 is 6.395 Rs/Mt. of limestone production. The expenditure details of environmental protection for the year 2023-24 is attached as Annexure-II.

PART - H

Additional measure or investment proposal for environment protection including abatement of pollution prevention of pollution.

- Green belt development and tree plantation is continuous activity. Plantation has been done on OB sites and buffer zone. The plantation details given as Annexure-III.
- Rain Water Harvesting in the bottom most mine pit for conservation & improvement of ground water table.
- Awareness and implementation of EMS – ISO – 14001 for improvement in Environment by systematic activities, audits and corrective actions.

PART - I

Any other particular in respect of environmental protection and abatement of pollution.

- ✓ Monitoring of Environmental Parameters (Air, Soil, Water, Noise Level) in mines for all seasons.
- ✓ Plantation all along the mines boundary & overburden dumps etc.
- ✓ Frequent water spraying on mine haulage roads, village roads to prevent the fugitive dust generation.
- ✓ Eco-friendly Mining operation using Rock Breaker to minimize noise and ground vibrations

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31St MARCH -2024

PART - A

1) Name & Address of the owner/occupier of the industry operation/process	:	Shri.K.Karunakara Rao Unit Head Varagupadi Limestone Mine (ML-8), UltraTech Cement Ltd., Unit: Reddipalayam Cement Works Perambalur district, Tamilnadu -621731
2) Industry category Primary: (STC Code) Secondary: (SIC Code)	:	Red ----- -----
3) Production capacity: Units	:	0.5 MTPA (Limestone)
4) Year of Establishment	:	11.01.2017
5) Date of last Environmental Statement submitted	:	22nd September 2023

PART - B
WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption m^3 / day

Source	Min	Max	Avg.
Process	0.0	20	10
Domestic	0.0	2	1

Process water consumption per unit of product output

Name of the products	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
1) Limestone Mining	0.03 cum / ton of limestone	0.03 cum / ton of limestone

Note: water used for dust suppression & afforestation purpose only

ii. Raw Material Consumption

Name of the raw materials	Name of the products	Consumption of raw materials per unit of output	
		During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
Fuel	Limestone Mining	0.393 ltr/ton	0.304 ltr/ton
Lube		Nil	Nil
Power		0.022 units/ton	0.020 units/ton

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Not Applicable – There is no waste water generated from mining activities. Domestic waste water is treated in septic tank followed by soak pit.		
b) Air	Air Quality abstract is given in Annexure - 1		

PART - D
HAZARDOUS WASTES
[As specified under Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous wasted	Total quantity generated in Kg.	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process	No hazardous wastes have been generated	
b) From Pollution control facilities		

PART - E
SOLID WASTES

Sources	Total Quantity in tonnes	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process – Overburden is the only solid waste generated	82077.56	80023.50
b) From pollution control facility	NA	NA
c) Quantity recycled or reutilized within the unit	NA	NA

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.

- No Hazardous waste generated from the mining activity.
- Solid wastes in terms of overburden is removed and stacked at earmarked area and used for refilling of exhausted mine pit.

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - G

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

Significant resource conservation measures undertaken as follows.

- Systematic & Scientific Mining Operations by using Mining Software's
- Proportionate Blending of different grades of ore for meeting plant requirements

The above practices contribute to save mineral and help in conserving valuable natural resources. Also, all the surrounding areas are kept free from pollution. The recurring expenses incurred for the financial year 2023-24 is 12.769 Rs/Mt. of limestone production. The expenditure details of environmental protection for the year 2023-24 is attached as Annexure-II.

PART - H

Additional measure or investment proposal for environment protection including abatement of pollution prevention of pollution.

- Green belt development and tree plantation is continuous activity. Plantation has been done on OB sites and buffer zone. The plantation details given as Annexure-III.
- Rain Water Harvesting in the bottom most mine pit for conservation & improvement of ground water table.
- Awareness and implementation of EMS – ISO – 14001 for improvement in Environment by systematic activities, audits and corrective actions.

PART - I

Any other particular in respect of environmental protection and abatement of pollution.

- ✓ Monitoring of Environmental Parameters (Air, Soil, Water, Noise Level) in mines for all seasons.
- ✓ Plantation all along the mines boundary & overburden dumps etc.
- ✓ Frequent water spraying on mine haulage roads, village roads to prevent the fugitive dust generation.
- ✓ Eco-friendly Mining operation using Rock Breaker to minimize noise and ground vibrations

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31St MARCH -2024

PART - A

1) Name & Address of the owner/occupier of the industry operation/process : Shri.K.Karunakara Rao
Unit Head
Alanthuraiyarkattalai Limestone Mine (ML-9),
UltraTech Cement Ltd.,
Unit: Reddipalayam Cement Works
Ariyalur district, Tamilnadu - 621704

2) Industry category : Red
Primary: (STC Code) -----
Secondary: (SIC Code) -----

3) Production capacity: Units : 0.3 MTPA (Limestone)

4) Year of Establishment : 01.04.2009

5) Date of last Environmental Statement submitted : 22nd September 2023

PART - B
WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption m^3 / day

Source	Min	Max	Avg.
Process	0.0	30	20
Domestic	0.0	3	1

Process water consumption per unit of product output

Name of the products	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
1) Limestone Mining	0.03 cum / ton of limestone	0.004 cum / ton of limestone

Note: water used for dust suppression & afforestation purpose only

ii. Raw Material Consumption

Name of the raw materials	Name of the products	Consumption of raw materials per unit of output	
		During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
Fuel	Limestone Mining	0.561 ltr/ton	0.681 ltr/ton
Lube		Nil	Nil
Power		0.348 units/ton	0.373 units/ton

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Not Applicable – There is no waste water generated from mining activities. Domestic waste water is treated in septic tank followed by soak pit.		
b) Air	Air Quality abstract is given in Annexure - 1		

PART - D
HAZARDOUS WASTES

[As specified under Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous wasted	Total quantity generated in Kg.	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process	No hazardous wastes have been generated	
b) From Pollution control facilities		

PART - E
SOLID WASTES

Sources	Total Quantity in tonnes	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process – Overburden is the only solid waste generated	274603.09	389904.20
b) From pollution control facility	NA	NA
c) Quantity recycled or reutilized within the unit	NA	NA

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.

- Mine was not operated during the year 2023-24, hence no solid waste (overburden) was generated

PART - G

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

ULTRATECH CEMENT LTD. * ARIYALUR 621 731 * REDDIPALAYAM CEMENT WORKS

Significant resource conservation measures undertaken as follows.

- Systematic & Scientific Mining Operations by using Mining Software's
- Proportionate Blending of different grades of ore for meeting plant requirements

The above practices contribute to save mineral and help in conserving valuable natural resources. Also, all the surrounding areas are kept free from pollution. The recurring expenses incurred for the financial year 2023-24 is 3.724 Rs/Mt of limestone production. The expenditure details of environmental protection for the year 2023-24 is attached as Annexure-II.

PART - H

Additional measure or investment proposal for environment protection including abatement of pollution prevention of pollution.

- Green belt development and tree plantation is continuous activity. Plantation has been done on OB sites, reclaimed areas and buffer zone. The plantation details given as Annexure-III.
- Rain Water Harvesting in the bottom most mine pit for conservation & improvement of ground water table.
- Awareness and implementation of EMS – ISO – 14001 for improvement in Environment by systematic activities, audits and corrective actions.

PART - I

Any other particular in respect of environmental protection and abatement of pollution.

- ✓ Monitoring of Environmental Parameters (Air, Soil, Water, Noise Level) in mines for all seasons.
- ✓ Plantation all along the mines boundary & overburden dumps etc.
- ✓ Frequent water spraying on mine haulage roads, village roads to prevent the fugitive dust generation.
- ✓ Eco-friendly Mining operation using Rock Breaker to minimize noise and ground vibrations

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31St MARCH -2024

PART - A

1) Name & Address of the owner/occupier of the industry operation/process	:	Shri.K.Karunakara Rao Unit Head Ottakovil Limestone Mine (ML-13), UltraTech Cement Ltd., Unit: Reddipalayam Cement Works Ariyalur district, Tamilnadu - 621731
2) Industry category Primary: (STC Code) Secondary: (SIC Code)	:	Red ----- -----
3) Production capacity: Units	:	0.5 MTPA (Limestone)
4) Year of Establishment	:	10.01.2017
5) Date of last Environmental Statement submitted	:	22nd September 2023

PART - B
WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption m^3 / day

Source	Min	Max	Avg.
Process	0.0	20	10
Domestic	0.0	2	1

Process water consumption per unit of product output

Name of the products	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
1) Limestone Mining	0.03 cum / ton of limestone	0.15 cum / ton of limestone

Note: water used for dust suppression & afforestation purpose only

ii. Raw Material Consumption

Name of the raw materials	Name of the products	Consumption of raw materials per unit of output	
		During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
Fuel	Limestone Mining	0.192 ltr/ton	0.241 ltr/ton
Lube		Nil	Nil
Power		3.27 units/ton	0.045 units/ton

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT
(Parameter as specified in the consent issued)

Pollutants	Quantity of pollution discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Not Applicable – There is no waste water generated from mining activities. Domestic waste water is treated in septic tank followed by soak pit.		
b) Air	Air Quality abstract is given in Annexure - 1		

PART - D
HAZARDOUS WASTES
[As specified under Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous wasted	Total quantity generated in Kg.	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process	No hazardous wastes have been generated	
b) From Pollution control facilities		

PART - E
SOLID WASTES

Sources	Total Quantity in tonnes	
	During the last financial year: 2022 - 2023	During the current financial year: 2023 - 2024
a) From process – Overburden is the only solid waste generated	0	124658.36
b) From pollution control facility	NA	NA
c) Quantity recycled or reutilized within the unit	NA	NA

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.

- No Hazardous waste generated from the mining activity.
- Solid wastes in terms of overburden is removed and stacked at earmarked area and used for refilling of exhausted mine pit.

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

PART - G

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

Significant resource conservation measures undertaken as follows.

- Systematic & Scientific Mining Operations by using Mining Software's
- Proportionate Blending of different grades of ore for meeting plant requirements

The above practices contribute to save mineral and help in conserving valuable natural resources. Also all the surrounding areas are kept free from pollution. The recurring expenses incurred for the financial year 2023-24 is 8.181 Rs/Mt. of limestone production. The expenditure details of environmental protection for the year 2023-24 is attached as Annexure-II.

PART - H

Additional measure or investment proposal for environment protection including abatement of pollution prevention of pollution.

- Green belt development and tree plantation is continuous activity. Plantation has been done on OB sites and buffer zone. The plantation details given as Annexure-III.
- Rain Water Harvesting in the bottom most mine pit for conservation & improvement of ground water table.
- Awareness and implementation of EMS – ISO – 14001 for improvement in Environment by systematic activities, audits and corrective actions.

PART - I

Any other particular in respect of environmental protection and abatement of pollution.

- ✓ Monitoring of Environmental Parameters (Air, Soil, Water, Noise Level) in mines for all seasons.
- ✓ Plantation all along the mines boundary & overburden dumps etc.
- ✓ Frequent water spraying on mine haulage roads, village roads to prevent the fugitive dust generation.
- ✓ Eco-friendly Mining operation using Rock Breaker to minimize noise and ground vibrations

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

ANNEXURE - I

Period - Apr-23 to Mar -24								Unit : µg / m3 & (mg/m3)					
Location	Parameters	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
Reddipalayam, Pudupalayam & Periyathirukonam Limestone Mine boundary	PM10	51.5	50.8	51.4	49.7	52.3	50.5	51.8	52.4	51.3	50.2	51.5	51.1
	PM2.5	21.3	22.6	21.4	21.6	22.2	21.9	22.7	20.8	20.2	21.1	23.2	21.4
	SO2	10.2	10.1	11.1	11.1	10.9	10.4	10.8	10.6	10.7	11.5	11.1	10.2
	NOx	10.1	10.0	10.0	11.5	10.3	10.6	10.3	10.1	11.1	11.6	11.7	11.2
	CO	0.42	0.39	0.37	0.36	0.32	0.35	0.32	0.35	0.31	0.33	0.35	0.35
Reddipalayam Limestone Mine boundary	PM10	68.5	65.5	67.4	58.6	55.3	55.5	61.9	55.4	52.3	58.3	65.5	66.1
	PM2.5	25.4	28.6	26.4	26.5	25.2	25.9	26.8	24.8	23.2	28.1	29.2	29.4
	SO2	12.1	11.5	12.5	11.9	12.9	11.4	13.7	12.6	12.7	11.5	15.1	11.2
	NOx	15.9	11.0	14.0	12.1	14.3	13.6	11.2	11.1	10.1	12.6	12.7	13.2
	CO	0.61	0.59	0.56	0.55	0.54	0.55	0.56	0.45	0.44	0.53	0.56	0.55
Reddipalayam & Pudupalayam Limestone Mine boundary	PM10	58.2	55.8	57.4	48.6	58.3	55.5	61.1	55.4	52.3	56.3	55.5	56.1
	PM2.5	25.5	24.3	25.4	25.6	24.2	25.9	25.7	24.8	25.2	25.5	23.2	24.4
	SO2	15.4	15.52	14.5	16.8	15.9	14.4	15.5	15.6	16.7	14.5	15.0	15.2
	NOx	15.0	16.2	16.0	15.8	15.3	16.6	14.9	15.1	14.1	15.6	15.7	16.2
	CO	0.69	0.54	0.56	0.56	0.55	0.55	0.53	0.55	0.59	0.53	0.56	0.55
Alanthuraiyarkattalai Limestone Mine boundary-I	PM10	50.3	51.6	60.8	55.2	56.0	55.1	54.2	49.2	48.8	53.5	59.5	55.9
	PM2.5	35.1	35.5	31.9	34.1	36.5	34.6	33.2	30.9	30.6	33.4	34.6	35.5
	SO2	12.7	11.0	12.8	12.9	11.8	11.3	12.4	12.7	10.9	10.1	12.5	11.4
	NOx	16.5	16.5	15.2	15.6	15.4	16.9	14.2	10.9	10.2	16.1	14.6	16.4
	CO	0.55	0.59	0.59	0.55	0.57	0.53	0.52	0.49	0.51	0.59	0.57	0.54
Varagupadi Limestone Mine	PM10	54.5	54.1	53.2	55.0	54.8	55.2	55.6	50.4	50.4	54.6	55.2	58.4
	PM2.5	33.6	30.8	29.4	29.9	28.4	26.5	25.9	27.3	26.5	29.1	31.5	27.5
	SO2	15.3	13.4	12.5	14.9	15.8	12.9	11.4	15.4	14.6	13.1	11.5	15.5
	NOx	18.1	17.2	15.2	13.8	15.1	12.2	10.5	10.3	10.8	16.5	17.2	15.4

ULTRATECH CEMENT LTD ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

	CO	0.54	0.52	0.51	0.52	0.56	0.54	0.44	0.47	0.48	0.55	0.54	0.53
Alanthuraiyarkattalai Limestone Mine boundary-II	PM10	51.1	52.5	59.8	56.2	56.0	55.1	54.8	49.2	48.8	53.5	59.1	55.1
	PM2.5	35.5	35.5	31.9	34.5	36.5	34.6	33.5	30.9	30.6	33.4	34.6	35.5
	SO2	12.7	12.1	12.8	12.8	11.8	11.8	12.7	10.7	10.9	10.1	12.4	11.4
	NOx	17.4	16.5	15.2	15.6	15.4	16.9	14.9	10.9	10.2	16.2	14.6	16.4
	CO	0.60	0.58	0.59	0.56	0.57	0.53	0.52	0.49	0.51	0.59	0.57	0.54
Ottakovil Limestone Mine	PM10	57.1	55.0	56.6	57.1	55.6	55.1	55.6	52.7	52.4	52.3	61.7	59.4
	PM2.5	30.5	32.1	30.6	30.2	29.0	29.2	31.6	30.2	29.2	29.9	30.5	33.5
	SO2	13.5	11.8	10.3	10.2	10.4	10.2	10.2	10.3	10.7	10.2	11.2	15.6
	NOx	15.5	15.5	12.2	10.4	10.5	12.0	10.0	11.3	11.7	11.5	11.1	11.4
	CO	0.61	0.49	0.51	0.55	0.56	0.51	0.42	0.45	0.41	0.66	0.57	0.53

ANNEXURE – II

ANNUAL OPERATING EXPENSES FOR MINES ENVIRONMENT MANAGEMENT 2023-24

Sl. No.	Particulars	Expenses (Rs. Lakhs)
1	Environment Monitoring (Air, Water, Noise & Dust)	9.00
2	TNPCB Environment Monitoring Reports	1.25
3	Dust Suppression expenses	2.37
4	Road Maintenance works	13.00
5	Afforestation & maintenance expenses (32943 saplings planted)	26.50
6	Garland drains & bushes clearing work	0.85
7	TNPCB Consent Fees	1.0
8	Environment week celebrations	0.3
TOTAL		**54.27**

ULTRATECH CEMENT LTD. ARIYALUR 621 731 REDDIPALAYAM CEMENT WORKS

ANNEXURE – III

AFFORESTATION CARRIED OUT AT MINES AREA - 2023-24

Location of Plantation	Area (Hect)	No of Saplings	Species / Type of Plant
Villiperingiyam Limestone Mine	3.2	8000	Pungan, Jamun and Iluppai
Reddipalayam Limestone Mine	0.14	280	Various Fruit saplings, Millingtonia (Maramalli),Tamarind,Phelta forum
Reddipalayam & Pudupalayam Limestone Mine	13.48	14139	Pungan,Tamarind,Vagai,Phelta forum
Alanthuraiyarkattalai Mines- I	0.56	1120	Fruit Saplings, Phelta forum
Alanthuraiyarkattalai Mines- II	1.36	3404	Phelta forum,Pungan,Tamarind,Vagai, Glircidia,Fruit Saplings
Varagupadi Limestone Mine	1.68	3000	Pungan,Tamarind,Vagai,Phelta forum
Ottakovil Limestone Mine	1.45	3000	Pungan,Tamarind,Vagai,Phelta forum
Total	**21.87**	**32943**