



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 10.05.2023

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

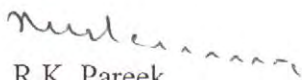
Dear Sir,

We are herewith submitting the water consumption report of 2600 TPD Cement Manufacturing Plant for the month of April'2023.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED


R.K. Pareek
(President)



UIMHLL

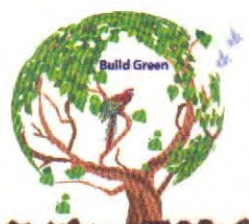


ISO 9001:2015 & 14001:2015
50001:2011 Certified Company

Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
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Tel. : 0361 2345421/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
Web : www.topcem.in

Kolkata :
BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel. : 033 2334 0666 / 0004
Fax : 033 2334 0505
E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : +91 89742 17765 / 70850 58469 / 98625 09599
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

MEGHALAYA CEMENTS LIMITED

FORM - I

(See Rule 4)

Return: Water consumed during the month of April'2023

Name and Address of the consumer	Purpose for which water consumed	Source Tube Well River etc	Reading at the beginning of the first day of the calendar month under report	Reading at the end of the last day of the calendar month under report	Quantity of water consumed in Kilolitres	If the meter was out of order the monthly average consumption of water for the previous 3 month of working periods	Quantity of water qualifying for rebate according to the assesses	Remarks (*)
1	2	3	4	5	6	7	8	9
MEGHALAYA Cements Ltd. Village - Thangskai P.O - Lumshnong Pin No 793210 Jaintia Hills - MEGHALAYA	Domestic purpose	River	(a) 431023 (b) 044187 (c) 838232	(a) 432415 (b) 046392 (c) 840369	5,734	-	-	Qty. of water consumed from river water = 5,734 + 13,537 = 19,271 KL
	Industrial cooling	River	a) 214800 b) 155661 c) 734325	a) 219974 b) 167986 c) 746982	13,537	-	-	Qty of water circulation & returned = 12,204 + 4,415 = 16,619 KL
	Industrial Purpose	-	-	-	Nil	-	-	-

For claiming the rebate under the column 7, the assesses has indicated in this column that has been analytical and the test report were annexed in this return to support the claim.

Note: (1) Initial reading of the return line flow meter at the beginning of the month = 2,757,581
Final reading of the return line flow meter at end of month = 2,769,785

(2) Initial reading of S.T.P flow meter at the beginning of the month = 134,387
Final reading of S.T.P flow meter at the end of the month = 138,802





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To,

Date: 10.05.2023

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

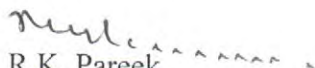
Dear Sir,

We are herewith submitting the Ambient Air Quality Survey report, Ambient Noise Survey report, Surface water Analysis report for the month of **April'2023** for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**


R.K. Pareek
(President)



Sales & Marketing Office :
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HELPLINE NO : 18001233666

Report No.: ENV/MCL/23-24/AA-04/02
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	Near Drilling Point	25.04.2023	30.2	55.7	7.8	8.4
02	Near Haul Road	25.04.2023	27.9	53.9	7.2	7.9

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

M/s MEGHALAYA CEMENTS LIMITED

AMBIENT AIR QUALITY SURVEY

MCL/ENV/LSM-AAQM/2023-24

Location of sampling	South Khliehji Limestone Mine (31.05 Ha)
Date duration of sampling	24.04.2023 to 25.04.2023
Time Duration of sampling	48 hours
Weather	Cloudy
Total Rain Fall, mm (On Date)	00.00 mm
Ambient Temperature (°C) :	Max. - 27.59°C, Min. - 17.02°C
Relative Humidity (%) :	Max. - 72.99%, Min. - 46.64%
Wind direction	→S (170.96°)

Wind direction	Analysis Results			Permissible Limits for Rural Areas (By MSPCB 24 hrs Monitoring)
Pollutants	Station No. & Air Quality Survey No.			
	A1. North -East (Near Soil Dump) D/07/2023-24	A2. North - West (Near Haul Road) D/08/2023-24	A3.Southern side (Near Lease Boundary) D/09/2023-24	
	48 hrs.	48 hrs	48 hrs	
Particulate Matters PM10 (µg/m³)	48.29	51.37	43.16	100
Particulate Matters PM2.5 (µg/m³)	26.47	31.14	28.52	60

Remarks : The Parameters analysed were found to be within the permissible Limits of Ambient Air Quality Standards (National) for Rural Areas as per EPA Notification GSR 176, April 1996.

Prepared by


(Arti Singh)

Checked & Verified By

Report No.: ENV/MCL/23-24/N-04/01

Date : 09/02/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Haul Road	26.04.2023	67.2	75	64.7	70
2	Near DG House	25.04.2023	70.3	75	65.7	70
3	Residential Colony	25.04.2023	49.6	55	35.2	45
4	Wahiajer Village	26.04.2023	46.5	55	32.4	45
5	Chiehruphi Village	26.04.2023	47.3	55	31.9	45



Checked By: Mr. Pankaj Baroi, ENVIROCON

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M/s MEGHALAYA CEMENTS LIMITED
NOISE LEVEL AT MINES SITE

MCL/ENV/LSM-NL/2022-23

Date: 24.04.2022

LOCATION BETWEEN INTERNAL ROADS AND BENCHES 2,3 IN
SOUTH & WEST DIRECTION OF SOUTH KHLIEHJARI LIMESTONE MINES

TIME	NOISE LEVEL (dB)	TIME	NOISE LEVEL (dB)
	61.8		61.1
6.00 AM	62.4	7.00 PM	61.7
	62.1		60.4
	63.0		59.2
7.00 AM	61.4	8.00 PM	60.0
	60.8		60.4
	62.1		61.9
8.00 AM	62.4	9.00 PM	58.4
	64.1		59.2
	62.7	Noise Level, Leq (day) = 63.70 dB	
9.00 AM	62.1		
	63.0		
	64.1		
10.00 AM	64.6		
	65.3		
	65.9		
11.00 AM	65.3		
	64.9		
	64.1		
12.00 AM	65.9		
	65.8		
	65.3		
1.00 PM	65.9		
	65.3		
	65.2		
2.00 PM	65.0		
	65.9		
	65.7		
3.00 PM	65.9		
	64.7		
	65.9		
4.00 PM	68.4		
	65.9		
	65.3		
5.00 PM	66.2		
	62.9		
	63.0		
6.00 PM	65		
	68		

TIME	NOISE LEVEL (dB)
	42.7
10.00 PM	40.6
	42.7
	39.6
11.00 PM	39.4
	41.0
	41.6
12.00 PM	40.1
	39.3
	38.4
1.00 AM	38.1
	37.2
	39.1
2.00 AM	39.2
	40.1
	39.2
3.00 AM	40.2
	39.2
	38.3
4.00 AM	39.1
	38.2
	38.4
5.00 AM	39.3
	40.2

Noise Level, Leq (Night) = 39.70 dB

Prepared By

Singh
(Arti Singh)



Report No.: ENV/MCL/23-24/SW-04/01
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-3004/01
Collected On : 30-04-2023

Sample Source : Um-Lunar River Upstream
Received On : 02-05-2023

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	4	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	24.4	--	--
4.	pH Value	6.70	6.5 - 8.5	No Relaxation
5.	Suspended Solids	33	--	--
6.	Total Dissolved Solids, mg/l, Max.	131	500	2000
7.	Conductivity, μ S/cm	214	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.3	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	3	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	28	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	37	200	600
14.	Calcium (as Ca), mg/l, Max.	13	75	200
15.	Magnesium (as Mg), mg/l, Max.	3	30	100
16.	Iron (as Fe), mg/l, Max.	0.06	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max.	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	2.8	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	16	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/DW-04/01
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/DW-3004/01
Collected On : 30-04-2023

Sample Source : Guest House
Received On : 02-05-2023

Sample Type : Drinking Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	2	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.21	1	5
5.	pH	6.93	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	132	500	2000
7.	Aluminium (as Al), mg/l, Max.	<0.001	0.03	0.2
8.	Boron (as B), mg/l, Max.	<0.001	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	27	75	200
10.	Chloride (as Cl), mg/l, Max	7.2	250	1000
11.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
12.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
14.	Iron (as Fe), mg/l, Max	<0.02	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	1.3	30	100
16.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
18.	Nitrate (as NO ₃), mg/l, Max	0.24	45	No Relaxation
19.	Sulfate (as SO ₄), mg/l, Max	<1	200	400
20.	Phenolic Compunds (as C ₆ H ₅ OH), mg/l, Max.	<0.001	0.001	0.002
				--Continued--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/DW-04/01
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/DW-3004/01
Collected On : 30-04-2023

Sample Source : Guest House
Received On : 02-05-2023

Sample Type : Drinking Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO ₃) , mg/l, Max	61	200	600
22.	Total Hardness, (as CaCO ₃), mg/l, Max	24	200	600
23.	Cadmium (as Cd), mg/l, Max.	<0.001	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	<0.001	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	<0.001	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	<0.001	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	<0.001	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	<0.001	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
31.	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	No Relaxation
32.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
33.	E. Coli / 100 ml	Absent	Absent	Absent
				--End of Report--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

Remarks: Drinking water from the above source is fit for drinking.



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CIN- U26942ML2003PLC007125



To,

Date: 10.05.2023

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.


Dear Sir,

We are herewith submitting the Ambient Air Quality survey report along with stack analysis report, Ambient Noise survey report, Surface water analysis report and Waste water analysis report for the month of **April'2023** for **2600 TPD Cement Manufacturing Plant** along with **10 MW Captive Power Plant** report respectively.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**


R.K. Pareek
(President)



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HELPLINE NO : 18001233666

Report No. : ENV/MCL/23-24/AA-04/03
Date : 09/05/2023

Order No. : 4700026272
Date : 27/04/2023

Report Issued To: **MEGHALAYA CEMENTS LIMITED**

Village: Thangskai, PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS	↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	NH ₃ (µg/m³)	CO (mg/m³)	O ₃ (µg/m³)	B(a)P (ng/m³)	C ₆ H ₆ (µg/m³)	Ni (ng/m³)	As (ng/m³)	Pb (µg/m³)
LIMITS	→	-	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Residential Colony		25.04.2023	19.3	49.7	6.7	7.8	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By: Pankaj Baroi, ENVIROCON

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Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	Near Stone Crusher	25.04.2023	27.4	55.3	7.7	8.9
02	Near DG Area	25.04.2023	25.3	51.6	6.8	7.6

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, **ENVIROCON**



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MEGHALAYA CEMENTS LIMITED

AMBIENT AIR QUALITY SURVEY

Location of sampling	MCL, Thangskai				
Date of sampling	06.04.2023 & 07.04.2023				
Distance between the industry and sampling Location	100.0 meters 20.00 meters 25.00 meters 10.00 meters				
Time duration of sampling	48 hrs				
Weather	Clear				
Total Rainfall, mm(On Date)	0.00 mm				
Ambient Temperature(⁰ C)):					
Maximum:	26.97				
Minimum:	16.99				
Relative Humidity (%):					
Maximum:	71.16				
Minimum:	36.51				
Wind direction (in Degree)	→ S (161.16)				
Pollutants	Analysis results				Permissible Limits For Rural Areas (By MSPCB 24hrs Monitoring)
	Station No. & Air Quality Survey No.				
	1)Opposite Guest house A/01/2023-24	2)Near L/S Crusher A/02/2023-24	3)Near Substation (DW Direction) A/03/2023-24	4) Near CCR Building A/04/2023-24	
	24 hrs.	24 hrs.	24 hrs.	24 hrs.	
Suspended Particulate Matters PM ₁₀ (µg/m ³)	40.34	43.89	34.37	43.01	100µg/m ³
Suspended Particulate Matters PM _{2.5} (µg/m ³)	22.82	26.17	25.05	30.38	60µg/m ³

Remarks: The parameters were analyzed and found within the permissible limits of Ambient Air Quality Standards (National) as per as the EPA Notification G.S.R.826 (E) dated 16th Nov'2009.

Prepared by

(Arti Singh)

Checked & Verified by

(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

CPP AMBIENT AIR QUALITY SURVEY

Location of sampling	CPP, MCL, Thangskai			
Date of sampling	10.04.2023			
Distance between the industry and sampling Location	25.0 meters 25.0 meters 25.0 meters			
Time duration of sampling	24 hrs			
Weather	Clear			
Total Rainfall, mm(On Date)	0.00 mm			
Ambient Temperature(⁰ C)):				
Maximum:	28.70			
Minimum:	19.45			
Relative Humidity (%):				
Maximum:	57.02			
Minimum:	23.65			
Wind direction (in Degree)	→S (179.51)			
Pollutants	Analysis results			Permissible Limits For Rural Areas (By MSPCB 24hrs Monitoring)
	Station No. & Air Quality Survey No.			
	1)Old Yard side S to E B/01/2023-24	2)Labour colony side S to W B/02/2023-24	3)JUNGLE Side N to E B/03/2023-24	
	24 hrs.	24 hrs.	24 hrs.	
Suspended Particulate Matters PM ₁₀ (µg/m ³)	29.64	31.16	28.08	100µg/m ³
Suspended Particulate Matters PM _{2.5} (µg/m ³)	19.03	20.97	22.59	60µg/m ³

Remarks: The parameters were analyzed and found within the permissible limits of Ambient Air Quality Standards (National) as per as the EPA Notification G.S.R.826 (E) dated 16th Nov'2009.

Prepared by

(Signature)
(Arti Singh)

Checked & Verified by

(Signature)
THANGSKAI
(Ujjwal Anurag)

Regd. Office and Works: Village Thangskai, P.O. Lumshnong, Dist - East Jaintia Hills, Meghalaya Pin-793210 Ph.:03655-278324/363/364 Corporate Office: BE-77, Salt Lake City, Sector - 1, Kolkata - 700 064, Ph.:033 23340666/0004, Fax: 03655 278327

Report No.: ENV/MCL/23-24/SE-04/09
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/09		
02	Date of Sampling	27.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
05	Stack Diameter (Meter)	1.19		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	5.4		
08	Flow Rate (Nm³/hr)	21409		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	14	mg/Nm³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-04/10

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/10		
02	Date of Sampling	27.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Secondary Crusher		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	31		
07	Exit Velocity of Gas (m/sec)	6.9		
08	Flow Rate (Nm³/hr)	19127		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	18	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-04/11

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/11		
02	Date of Sampling	27.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill – 1		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	55		
07	Exit Velocity of Gas (m/sec)	16.8		
08	Flow Rate (Nm³/hr)	58341		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-04/12

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/12		
02	Date of Sampling	27.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill – 2		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	49		
07	Exit Velocity of Gas (m/sec)	14.3		
08	Flow Rate (Nm³/hr)	49971		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-04/01

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/01		
02	Date of Sampling	25.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	RABH (Kiln & Raw Mill)- 1		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	179		
07	Exit Velocity of Gas (m/sec)	24.7		
08	Flow Rate (Nm³/hr)	414444		
09	Type of Fuel Used	Kiln Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	667	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	419	mg/Nm³	600
iv.	Mercury (Hg)	0.005	mg/Nm³	0.03



Checked By: Mr. Pankaj Baroi, **ENVIROCON**



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Report No.: ENV/MCL/23-24/SE-04/02

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/02		
02	Date of Sampling	25.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	RABH (Kiln & Raw Mill)- 2		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	176		
07	Exit Velocity of Gas (m/sec)	21.2		
08	Flow Rate (Nm³/hr)	311940		
09	Type of Fuel Used	Kiln Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	18	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	685	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	463	mg/Nm³	600
iv.	Mercury (Hg)	0.008	mg/Nm³	0.03



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Report No.: ENV/MCL/23-24/SE-04/03
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/03		
02	Date of Sampling	25.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P. – 1		
05	Stack Diameter (Meter)	2.8		
06	Flue Gas Temperature (°C)	217		
07	Exit Velocity of Gas (m/sec)	10.2		
08	Flow Rate (Nm³/hr)	137526		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	28	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-04/04

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/04		
02	Date of Sampling	25.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P. – 2		
05	Stack Diameter (Meter)	2.8		
06	Flue Gas Temperature (°C)	221		
07	Exit Velocity of Gas (m/sec)	9.8		
08	Flow Rate (Nm³/hr)	131063		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-04/05
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/05		
02	Date of Sampling	26.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	72		
07	Exit Velocity of Gas (m/sec)	14.5		
08	Flow Rate (Nm³/hr)	51001		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-04/06
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/06		
02	Date of Sampling	26.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	66		
07	Exit Velocity of Gas (m/sec)	12.4		
08	Flow Rate (Nm³/hr)	44386		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-04/07
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/07		
02	Date of Sampling	26.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing Plant No. 1		
05	Stack Diameter (Meter)	0.6		
06	Flue Gas Temperature (°C)	30		
07	Exit Velocity of Gas (m/sec)	9.2		
08	Flow Rate (Nm³/hr)	9058		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	16	mg/Nm³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/MCL/23-24/SE-04/08

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/08		
02	Date of Sampling	26.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing Plant No. 2		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	32		
07	Exit Velocity of Gas (m/sec)	11.5		
08	Flow Rate (Nm³/hr)	31773		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-04/13

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-04/13		
02	Date of Sampling	27.04.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	CPP		
05	Stack Diameter (Meter)	2.5		
06	Flue Gas Temperature (°C)	93		
07	Exit Velocity of Gas (m/sec)	9.2		
08	Flow Rate (Nm³/hr)	132388.94		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	42	mg/Nm³	50
ii.	Sulphur Dioxide (as SO₂)	512	mg/Nm³	600
iii.	Oxides of Nitrogen (as NOₓ)	248	mg/Nm³	300
iv.	Mercury (Hg)	0.014	mg/Nm³	0.03



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/MCL/23-24/N-04/01
Date : 09/02/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Haul Road	26.04.2023	67.2	75	64.7	70
2	Near DG House	25.04.2023	70.3	75	65.7	70
3	Residential Colony	25.04.2023	49.6	55	35.2	45
4	Wahiajer Village	26.04.2023	46.5	55	32.4	45
5	Chiehruphi Village	26.04.2023	47.3	55	31.9	45



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/MCL/23-24/DW-04/01
Date : 09/05/2023

Order No.: 4700026272
Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/DW-3004/01
Collected On : 30-04-2023

Sample Source : Guest House
Received On : 02-05-2023

Sample Type : Drinking Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	2	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.21	1	5
5.	pH	6.93	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	132	500	2000
7.	Aluminium (as Al), mg/l, Max.	<0.001	0.03	0.2
8.	Boron (as B), mg/l, Max.	<0.001	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	27	75	200
10.	Chloride (as Cl), mg/l, Max	7.2	250	1000
11.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
12.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
14.	Iron (as Fe), mg/l, Max	<0.02	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	1.3	30	100
16.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
18.	Nitrate (as NO ₃), mg/l, Max	0.24	45	No Relaxation
19.	Sulfate (as SO ₄), mg/l, Max	<1	200	400
20.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max.	<0.001	0.001	0.002
				--Continued--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, **ENVIROCON**



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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
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Report No.: ENV/MCL/23-24/DW-04/01

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/DW-3004/01

Collected On : 30-04-2023

Sample Source : Guest House

Received On : 02-05-2023

Sample Type : Drinking Water

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO_3), mg/l, Max	61	200	600
22.	Total Hardness, (as CaCO_3), mg/l, Max	24	200	600
23.	Cadmium (as Cd), mg/l, Max.	<0.001	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	<0.001	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	<0.001	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	<0.001	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	<0.001	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	<0.001	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
31.	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	No Relaxation
32.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
33.	E. Coli / 100 ml	Absent	Absent	Absent
				--End of Report--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

Remarks: Drinking water from the above source is fit for drinking.



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/23-24/SW-04/01

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-3004/01

Sample Source : Um-Lunar River Upstream

Sample Type : Surface Water

Collected On : 30-04-2023

Received On : 02-05-2023

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	4	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	24.4	--	--
4.	pH Value	6.70	6.5 - 8.5	No Relaxation
5.	Suspended Solids	33	--	--
6.	Total Dissolved Solids, mg/l, Max.	131	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	214	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.3	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	3	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	28	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	37	200	600
14.	Calcium (as Ca), mg/l, Max.	13	75	200
15.	Magnesium (as Mg), mg/l, Max.	3	30	100
16.	Iron (as Fe), mg/l, Max.	0.06	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	2.8	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	16	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 10.05.2023

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the water consumption report of 10 MW Captive Power Plant for the month of April'2023.


<u>Month</u>	<u>Water Consumption</u>
April'2023	6,949.00 m3

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED




R.K. Pareek
(President)



ISO 9001:2015 & 14001:2015
50001:2011 Certified Company

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District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : +91 89742 17765 / 70850 58469 / 98625 09599
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 10.05.2023

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the Process Fugitive Emission report of the month April'2023 for 2600 TPD Cement Manufacturing Plant along with 10 MW Captive Power Plant report respectively.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

R.K. Pareek
R.K. Pareek
(President)



ISO 9001:2015 & 14001:2015
50001:2011 Certified Company

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District : East Jaintia Hills, Meghalaya, PIN: 793210
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HELPLINE NO : 18001233666

Report No.: ENV/MCL/23-24/FE-04/01

Date : 09/05/2023

Order No.: 4700026272

Date : 27/04/2023

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**

Village: Thangskai; PO: Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
01	Clinker Loading Area	26.04.2023	1235	5000
02	Flyash Silo Area (CPP)	26.04.2023	1398	5000
03	Cement Loading Area	26.04.2023	2342	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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MEGHALAYA CEMENTS LIMITED

PROCESS FUGITIVE EMISSION TEST RESULTS

April'2023

Date of Testing	Location	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	As per the Standard Limit ($\mu\text{g}/\text{m}^3$)
11.04.2023	Lime stone Storage Area	1369	5000
12.04.2023	Coal Storage Area	721	2000
13.04.2023	Clinker Loading Area	2254	5000
15.04.2023	Cement Loading Area	2563	5000
18.04.2023	Coal Storage Area (CPP)	1512	2000
24.04.2023	Fly Ash Silo Area (CPP)	968	2000

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)