



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 05.08.2022

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

Dear Sir,

We are herewith submitting the Ambient Air Quality Survey report for the month of **July'2022** for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**

Amreshwar

(Authorized Signatory)



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 234542/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
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Kolkata :
BE-77, Salt Lake City
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Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : 03655 278324 / 363 / 364
Fax : 03655 278327
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

M/s MEGHALAYA CEMENTS LIMITED
AMBIENT AIR QUALITY SURVEY

MCL/ENV/LSM-AAQM/2022-23

Location of sampling	South Khliehjri Limestone Mine (31.05 Ha)
Date duration of sampling	20.07.2022 to 21.07.2022
Time Duration of sampling	48 hours
Weather	Rainy
Total Rain Fall, mm (On Date)	09.50 mm
Ambient Temperature (°C) :	Max. - 26.80°C, Min. - 19.82°C
Relative Humidity (%) :	Max. - 103.76%, Min. - 77.02%
Wind direction	→E (94.87°)


Pollutants	Analysis Results			Permissible Limits for Rural Areas (By MSPCB 24 hrs Monitoring)
	Station No. & Air Quality Survey No.			
	A1. North -East (Near Soil Dump) D/34/2022-23	A2. North - West (Near Haul Road) D/35/2022-23	A3. Southern side (Near Lease Boundary) D/36/2022-23	
	48 hrs.	48 hrs	48 hrs	
Particulate Matters PM10 ($\mu\text{g}/\text{m}^3$)	29.61	34.57	26.48	100
Particulate Matters PM2.5 ($\mu\text{g}/\text{m}^3$)	19.53	20.84	13.09	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


(Ujjwal Anurag)





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125

de



To,

Date: 05.08.2022

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

Dear Sir,

We are herewith submitting the Ambient Air Quality survey report along with stack analysis report for the month of July'2022 for 2600 TPD Cement Manufacturing Plant along with 10 MW Captive Power Plant report respectively.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

Amr Kephraoal

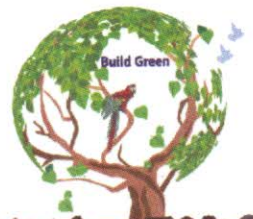
(Authorized Signatory)



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HELPLINE NO : 18001233666

MEGHALAYA CEMENTS LIMITED

AMBIENT AIR QUALITY SURVEY

Location of sampling	MCL, Thangskai				
Date of sampling	13.07.2022 & 14.07.2022				
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:	32.78				
Minimum:	21.27				
Relative Humidity (%):					
Maximum:	93.76				
Minimum:	55.92				
Wind direction	→ S (191.31)				
Pollutants	Analysis results				Permissible Limits For Rural Areas (By MSPCB 24hrs Monitoring)
	Station No. & Air Quality Survey No.				
	1)Opposite Guest house A/13/2022-23	2)Near L/S Crusher A/14/2022-23	3)Near Substation (DW Direction) A/15/2022-23	4) Near CCR Building A/16/2022-23	
	24 hrs.	24 hrs.	24 hrs.	24 hrs.	
Suspended Particulate Matters PM ₁₀ (µg/m ³)	27.69	29.42	36.91	32.37	100µg/m ³
Suspended Particulate Matters PM _{2.5} (µg/m ³)	14.84	17.30	15.69	18.74	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		23.07.2022		
Distance between the industry and sampling Location		25.0 meters 25.0 meters 25.0 meters		
Time duration of sampling		24 hrs		
Weather		Cloudy		
Total Rainfall, mm(On Date)		0.50 mm		
Ambient Temperature(⁰ C):				
Maximum:		29.39		
Minimum:		20.10		
Relative Humidity (%):				
Maximum:		100.68		
Minimum:		71.64		
Wind direction		→S (187.83)		
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/10/2022-23	2)Labour colony side S to W B/11/2022-23	3)JUNGLE Side N to E B/12/2022-23	
	24 hrs.	24 hrs.	24 hrs.	
Suspended Particulate Matters PM ₁₀ (µg/m ³)	32.15	27.60	36.01	100µg/m ³
Suspended Particulate Matters PM _{2.5} (µg/m ³)	13.62	19.47	16.73	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
(Arti Singh)

Checked & Verified by

Ujjwal Anurag
(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

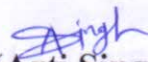
Name of sampling Location : MCL, Thangskai
Date of Sampling : 28.07.2022
Type of Stack : Coal Mill-1
Laboratory reference No : S/40/2022-23

Parameters:

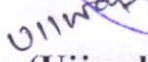
1) Particulate Matter (PM): mg/Nm^3
26.05 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

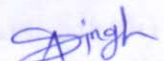
Name of sampling Location : MCL, Thangskai
Date of Sampling : 29.07.2022
Type of Stack : Coal Mill-2
Laboratory reference No : S/41/2022-23

Parameters:

1) Particulate Matter (PM): mg/Nm^3
20.33 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 14.07.2022
Type of Stack : Packing Plant-1
Laboratory reference No : S/42/2022-23

Parameters:

1) Particulate Matter (PM): mg/Nm^3
08.92 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

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(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

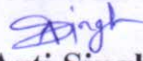
Name of sampling Location : MCL, Thangskai
Date of Sampling : 08.07.2022
Type of Stack : Packing Plant-2
Laboratory reference No : S/43/2022-23

Parameters:


1) Particulate Matter (PM): mg/Nm³
11.28 mg/Nm³

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

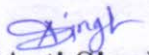
Name of sampling Location : MCL, Thangskai
Date of Sampling : 08.07.2022
Type of Stack : Cement Mill No-1
Laboratory reference No : S/44/2022-23

Parameters:

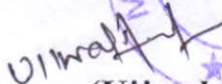
1) Particulate Matter (PM): mg/Nm³
14.57 mg/Nm³

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

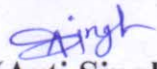
Name of Sampling Location : MCL, Thangskai
Date of Sampling : 15.07.2022
Type of Stack : Cement Mill No-2
Laboratory reference No : S/45/2022-23

Parameters:


1) Particulate Matter (PM): mg/Nm^3
19.45 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 09.07.2022
Type of Stack : **Primary Crusher**
Laboratory reference No : S/46/2022-23

Parameters:

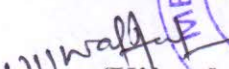
1) Particulate Matter (PM): mg/Nm^3
21.39 mg/Nm^3

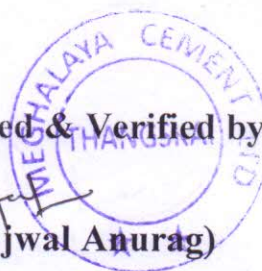
Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 09.07.2022
Type of Stack : Secondary Crusher
Laboratory reference No : S/47/2022-23

Parameters:


1) Particulate Matter (PM): mg/Nm^3
09.04 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

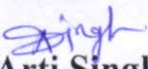
Name of sampling Location : MCL, Thangskai
Date of Sampling : 01.07.2022
Type of Stack : Cooler E.S.P-1
Laboratory reference No : S/48/2022-23

Parameters:


1) Particulate Matter (PM): mg/Nm^3
23.67 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

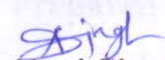
Name of sampling Location : MCL, Thangskai
Date of Sampling : 01.07.2022
Type of Stack : Cooler E.S.P-2
Laboratory reference No : S/49/2022-23

Parameters:

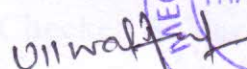
1) Particulate Matter (PM): mg/Nm³
21.64 mg/Nm³

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 12.07.2022
Type of Stack : Kiln & Raw Mill (RABH-1)
Laboratory reference No : S/50/2022-23

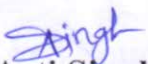
Parameters:

- 1) Particulate Matter (PM) : 09.67 mg/Nm³
- 2) Oxides of Sulfur (as SO₂): 423.61 mg/Nm³
- 3) Oxides of Nitrogen (NO_x): 259.82 mg/Nm³

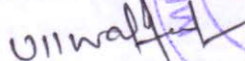
Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Note: *The SO₂ result mentioned in the test report based on the pyritic sulfur presence in our Limestone. The pyritic sulfur percentage in our limestone is >0.50.*

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 13.07.2022
Type of Stack : Kiln& Raw Mill (RABH-2)
Laboratory reference No : S/51/2022-23

Parameters:

- 1) Particulate Matter (PM): 19.26 mg/Nm³
- 2) Oxides of Sulfur (as SO₂): 431.94 mg/Nm³
- 3) Oxides of Nitrogen (NO_x): 207.19 mg/Nm³

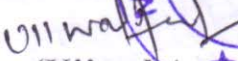
Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

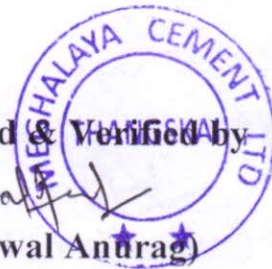
Note: *The SO₂ result mentioned in the test report based on the pyritic sulfur presence in our Limestone. The pyritic sulfur percentage in our limestone is >0.50.*

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : -
Type of Stack : C.P.P.
Laboratory reference No : S/52/2022-23

Parameters:

- 1) Particulate Matter (PM): - mg/Nm³
- 2) Oxides of Sulfur (as SO₂): - mg/Nm³
- 3) Oxides of Nitrogen (NO_x): - mg/Nm³

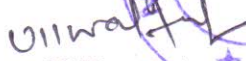
(Note - Stop Due to Maintenance)

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.3305 (E) dated 07th Dec'2015.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 05.08.2022

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

Dear Sir,

We are herewith submitting the Process Fugitive Emission report of the month **July'2022** for **2600 TPD Cement Manufacturing Plant** along with **10 MW Captive Power Plant** report respectively.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**

Ann Kethinooal

(Authorized Signatory)



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HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

PROCESS FUGITIVE EMISSION TEST RESULTS

July'2022

Date of Testing	Location	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	As per the Standard Limit ($\mu\text{g}/\text{m}^3$)
04.07.2022	Lime stone Storage Area	1789	5000
04.07.2022	Coal Storage Area	631	2000
05.07.2022	Clinker Loading Area	1348	5000
05.07.2022	Cement Loading Area	1109	5000
09.07.2022	Coal Storage Area (CPP)	697	2000
09.07.2022	Fly Ash Silo Area (CPP)	679	2000

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 05.08.2022

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 **July'2022**.

<u>Month</u>	<u>Water Consumption</u>
July'2022	0.00 m3

(Note-Stop due to Maintenance))

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

(Authorized Signatory)



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To,

Date: 05.08.2022

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 **July'2022**.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**

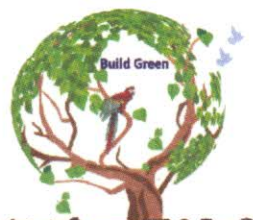
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HELPLINE NO : 18001233666

MEGHALAYA CEMENTS LIMITED

FORM - I

(See Rule 4)

Return: Water consumed during the month of July'2022

1 Name and Address of the consumer	2 Purpose for which water consumed	3 Source Tube Well River etc	4 Reading at the beginning of the first day of the calendar month under report	5 Reading at the end of the last day of the calendar month under report	6 Quantity of water consumed in Kilolitres	7 If the meter was out of order the monthly average consumption of water for the previous 3 month of working periods	8 Quantity of water qualifying for rebate according to the assesses	9 Remarks (*)
MEGHALAYA Cements Ltd. Village - Thangskai P.O - Lumshnong Pin No 793210 Jaintia Hills - MEGHALAYA	Domestic purpose	River	(a) 413350 (b) 023705 (c) 809929	(a) 416341 (b) 026735 (c) 814912	11,004	-	-	Qty. of water consumed from river water = 11,004 + 14,535 = 25,539 KL
	Industrial cooling	River	a) 131422 b) 052467 c) 625588	a) 144282 b) 065167 c) 639324	14,535	-	-	Qty of water returned = 19,059 + 5702 = 24,761 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 = 2,621,449

Final reading of the return line flow meter at end of month = 88,535

(2) Initial reading of S.T.P flow meter at the beginning of the month = 94,237

Final reading of S.T.P flow meter at the end of the month = 94,237

