



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 07.11.2022

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 **October'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**

(Authorized Signatory)



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
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. : 03655 278324 / 363 / 364
Fax : 03655 278327
E-mail : meghalaya@topcem.in

HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

AMBIENT AIR QUALITY SURVEY

Location of sampling	MCL, Thangskai				
Date of sampling	14.10.2022 & 15.10.2022				
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(⁰C):					
Maximum:	26.90				
Minimum:	18.23				
Relative Humidity (%):					
Maximum:	97.74				
Minimum:	67.09				
Wind direction	→ S(170.04)				
Pollutants	Analysis results				Permissible Limits For Rural Areas (By MSPCB 24hrs Monitoring)
	Station No. & Air Quality Survey No.				
	1)Opposite Guest house A/25/2022-23	2)Near L/S Crusher A/26/2022-23	3)Near Substation (DW Direction) A/27/2022-23	4) Near CCR Building A/28/2022-23	
	24 hrs.	24 hrs.	24 hrs.	24 hrs.	
Suspended Particulate Matters PM₁₀ (µg/m³)	39.42	40.06	51.73	42.18	100µg/m ³
Suspended Particulate Matters PM_{2.5} (µg/m³)	21.97	25.48	33.19	30.84	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)

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

MEGHALAYA CEMENTS LIMITED

CPP AMBIENT AIR QUALITY SURVEY

Location of sampling		CPP, MCL, Thangskai		
Date of sampling		06.10.2022		
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(⁰C):				
Maximum:		26.27		
Minimum:		18.85		
Relative Humidity (%):				
Maximum:		99.30		
Minimum:		73.63		
Wind direction		→E(98.76)		
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/19/2022-23	2)Labour colony side S to W B/20/2022-23	3)JUNGLE Side N to E B/21/2022-23	
	24 hrs.	24 hrs.	24 hrs.	
Suspended Particulate Matters PM₁₀ (µg/m³)	24.43	19.37	29.68	100µg/m ³
Suspended Particulate Matters PM_{2.5} (µg/m³)	14.94	11.06	18.26	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 : 10.10.2022
Type of Stack : **Coal Mill-1**
Laboratory reference No : S/79/2022-23

Parameters:

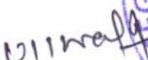
1) Particulate Matter (PM): mg/Nm^3
17.20 mg/Nm^3

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 : 13.10.2022
Type of Stack : Coal Mill-2
Laboratory reference No : S/80/2022-23

Parameters:

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

27.44 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 : 22.10.2022
Type of Stack : **Packing Plant-1**
Laboratory reference No : S/81/2022-23

Parameters:

1) Particulate Matter (PM): mg/Nm³

10.68 mg/Nm³

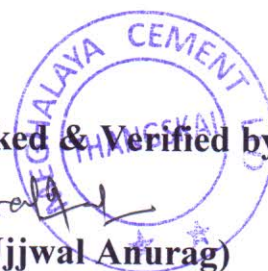
Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 22.10.2022
Type of Stack : Packing Plant-2
Laboratory reference No : S/82/2022-23

Parameters:

1) Particulate Matter (PM): mg/Nm³


12.34 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 : 14.10.2022
Type of Stack : Cement Mill No-1
Laboratory reference No : S/83/2022-23

Parameters:


1) Particulate Matter (PM): mg/Nm³
16.11 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 : 27.10.2022
Type of Stack : Cement Mill No-2
Laboratory reference No : S/84/2022-23

Parameters:


1) Particulate Matter (PM): mg/Nm³
18.92 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

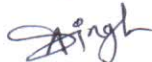
Name of sampling Location : MCL, Thangskai
Date of Sampling : 19.10.2022
Type of Stack : **Primary Crusher**
Laboratory reference No : S/85/2022-23

Parameters:

1) Particulate Matter (PM): mg/Nm^3
18.59 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 : 19.10.2022
Type of Stack : **Secondary Crusher**
Laboratory reference No : S/86/2022-23

Parameters:


1) Particulate Matter (PM): mg/Nm³
08.00 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 : 08.10.2022
Type of Stack : Cooler E.S.P-1
Laboratory reference No : S/87/2022-23

Parameters:

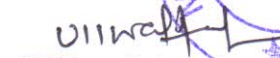
1) Particulate Matter (PM): mg/Nm^3
27.24 mg/Nm^3

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 : 08.10.2022
Type of Stack : Cooler E.S.P-2
Laboratory reference No : S/88/2022-23

Parameters:

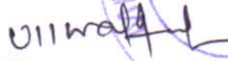
1) Particulate Matter (PM): mg/Nm^3
24.85 mg/Nm^3

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 : 17.10.2022
Type of Stack : **Kiln & Raw Mill (RABH-1)**
Laboratory reference No : S/89/2022-23


Parameters:

- 1) Particulate Matter (PM) : 09.13 mg/Nm³
- 2) Oxides of Sulfur (as SO₂): 684.46 mg/Nm³
- 3) Oxides of Nitrogen (NO_x): 231.91 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 : 18.10.2022
Type of Stack : **Kiln& Raw Mill (RABH-2)**
Laboratory reference No : S/90/2022-23

Parameters:

- 1) Particulate Matter (PM): 16.41 mg/Nm³
- 2) Oxides of Sulfur (as SO₂): 716.68 mg/Nm³
- 3) Oxides of Nitrogen (NO_x): 238.41 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/91/2022-23

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: 07.11.2022

**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 **October'2022** for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**

(Authorized Signatory)



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
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Village: Thangskai, P.O. & P.S. Lumshnong
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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	26.10.2022 to 27.10.2022
Time Duration of sampling	48 hours
Weather	Clear
Total Rain Fall, mm (On Date)	00.00 mm
Ambient Temperature (°C) :	Max. - 28.62°C, Min. - 18.83°C
Relative Humidity (%) :	Max. - 93.65%, Min. - 75.82%
Wind direction	→S (195.28°)

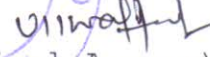
Pollutants	Analysis Results			Permissible Limits for Rural Areas (By MSPCB 24 hrs Monitoring)
	Station No. & Air Quality Survey No.			
	A1. North -East (Near Soil Dump) D/61/2022-23	A2. North - West (Near Haul Road) D/62/2022-23	A3. Southern side (Near Lease Boundary) D/63/2022-23	
	48 hrs.	48 hrs	48 hrs	
Particulate Matters PM10 (µg/m ³)	32.59	37.42	29.81	100
Particulate Matters PM2.5 (µg/m ³)	22.48	23.19	16.86	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

Thangskai , Meghalaya

UPSTREAM WATER ANALYSIS REPORT FOR THE YEAR 2021-22 (Near toilet area)

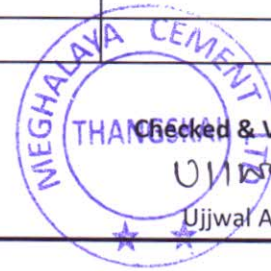
Name of the Mine:- SOUTH KHLIEHJRI LIMESTONE MINES

Date:-28.09.2022

Sl. No.	Parameters	Obtained Values in	Permissible Limit
		October'2022	
1	pH	7.2	6.5 – 8.5
2	Dissoled Oxygen	12.1	-
3	Total Dissolve Solids	158	<500
4	Conductivity (mg/Lit)	139	-
5	Total Hardness (mg/	238	<300
6	Calcium Hardness	147	<200
7	Magnesuim Hardness	91	<100
8	Alkalinity (mg/Lit)	74	<200

Prepared By

Arti Singh



Checked & Verified By

Ujjwal Anurag

Meghalaya cements limited

Thangskai , Meghalaya

DOWNSTREAM WATER ANALYSIS REPORT FOR THE MONTH OF OCT'2022 (Southern side of reject dump)

Name of the Mine:- SOUTH KHLIEHJRI LIMESTONE MINES

Date:-29.10.2022

Sl. No.	Parameters	Obtained Values in	Permissible Limit
		October'2022	
1	pH	7.1	6.5 – 8.5
2	Dissoled Oxygen	11.96	-
3	Total Dissolve Solids	157	<500
4	Conductivity (mg/Lit)	163	-
5	Total Hardness (mg/	217	<300
6	Calcium Hardness	154	<200
7	Magnesuim Hardness	63	<100
8	Alkalinity (mg/Lit)	59	<200

Prepared By

Arti Singh

Checked & Verified By



Ujjwal Anurag





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 07.11.2022

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 October'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

(Authorized Signatory)

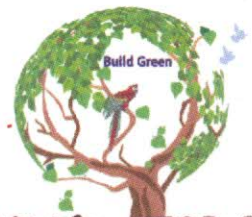


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HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

PROCESS FUGITIVE EMISSION TEST RESULTS

October'2022

Date of Testing	Location	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	As per the Standard Limit ($\mu\text{g}/\text{m}^3$)
13.10.2022	Lime stone Storage Area	2189	5000
13.10.2022	Coal Storage Area	1029	2000
18.10.2022	Clinker Loading Area	1753	5000
18.10.2022	Cement Loading Area	1824	5000
21.10.2022	Coal Storage Area (CPP)	1067	2000
21.10.2022	Fly Ash Silo Area (CPP)	913	2000

Prepared by


(Arti Singh)

Checked & Verified by


(Ujjwal Anurag)





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 07.11.2022

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 **October'2022**.

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

(Note-Stop due to Maintenance))

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**

(Authorized Signatory)

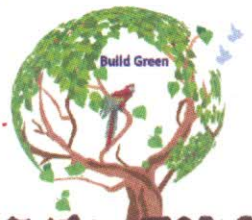


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HELPLINE NO : 18001233666





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 07.11.2022

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 **October'2022**.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

(Authorized Signatory)



Sales & Marketing Office :
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Fax : 03655 278327
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

MEGHALAYA CEMENTS LIMITED

FORM - I

(See Rule 4)

Return: Water consumed during the month of October'2022

1	2	3	4	5	6	7	8	9
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 (*)
MEGHALAYA Cements Ltd. Village - Thangskai P.O - Lumshnong Pin No 793210 Jaintia Hills - MEGHALAYA	Domestic purpose	River	(a) 420779 (b) 030762 (c) 822272	(a) 422639 (b) 033012 (c) 825477	7,315	-	-	Qty. of water consumed from river water = 7,315 + 12,370 = 19,685 KL
	Industrial cooling	River	a) 170200 b) 86662 c) 661532	a) 183900 b) 98862 c) 673732	12,370	-	-	Qty of water circulation & returned = 20,626 + 5104 = 25,730 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 = 21,675,472
Final reading of the return line flow meter at end of month = 2,696,098

(2) Initial reading of S.T.P flow meter at the beginning of the month = 105,113
Final reading of S.T.P flow meter at the end of the month = 110,217

