



# MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 10.10.2023

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 September'2023.

Month

September'2023

Water Consumption

27208.00 m3

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

R.K. Pareek  
(Sr. President)



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. : +91 89742 17765 / 70850 58469 / 98625 09599  
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

o/c



**MEGHALAYA CEMENTS LIMITED**

CIN- U26942ML2003PLC007125



To,

Date: 10.10.2023

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

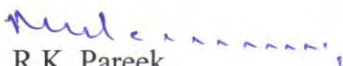
Dear Sir,

We are herewith submitting the Ambient Air Quality Survey report, Ambient Noise Survey report and Water Analysis report for the month of **September'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  
(Sr. 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



Report No.: ENV/MCL/23-24/AA-09/02

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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 (µg/m³)	PM 10 (µg/m³)	SO <sub>2</sub> (µg/m³)	NO <sub>2</sub> (µg/m³)
	LIMIT(S) →	---	60	100	80	80
01	Mines Soil Dump	23.09.2023	32.6	59.2	6.3	7.4
02	Mines Haul Road	23.09.2023	28.7	55.7	5.8	6.6
03	Mines Lease Boundary	23.09.2023	22.4	45.8	<5.0	<5.0

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.

Report No.: ENV/MCL/23-24/AA-09/01

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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 (µg/m³)	PM 10 (µg/m³)	SO <sub>2</sub> (µg/m³)	NO <sub>2</sub> (µg/m³)
	LIMIT(S) →	---	60	100	80	80
01	Residential Colony	22.09.2023	19.2	42.7	5.8	6.3
02	Wahiajer Village	22.09.2023	15.9	38.6	<5.0	<5.0
03	Thangskai Village	22.09.2023	14.6	35.2	<5.0	<5.0
04	Cheruphi Village	22.09.2023	14.1	36.3	<5.0	<5.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/23-24/N-09/01  
Date : 05/10/2023

Order No.: 4700027732  
Date : 11/09/2023

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	Residential Colony	22.09.2023	45.6	55	35.3	45
2	Thangskai Village	22.09.2023	42.7	55	32.4	70
3	Chieruphi Village	22.09.2023	43.1	55	33.6	45



Checked By: Mr. Pankaj Baroi, ENVIROCON



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# MEGHALAYA CEMENTS LIMITED

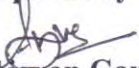
## MONTHLY REPORT: NOISE INTENSITY

September'23

Location		<u>Noise Intensity: dB (A) Leq</u>	
		Noise Value in dB (A) Leq	Noise Level not to exceed, in dB (A) Leq
Drilling Point	Day	56	75
	Night	23	70
Blasting Point	Day	51	75
	Night	27	70
Hauling Point	Day	49	75
	Night	35	70
Crusher	Day	47	75
	Night	31	70

NOTE: Day Time (6:00AM to 9:00PM), Night Time (9:00PM to 6:00AM)

Prepared by

  
Abhigyan Gautam



Checked & Verified by

  
Ujjwal Anurag

Report No.: ENV/MCL/23-24/SW-09/01

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

Village: Thangskai; PO: Lumshnong, Meghalaya

### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-2509/01

Collected On : 25-09-2023

Sample Source : Um-Lunar River Upstream

Received On : 27-09-2023

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.	11	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	26.3	--	--
4.	pH Value	6.74	6.5 - 8.5	No Relaxation
5.	Suspended Solids	45	--	--
6.	Total Dissolved Solids, mg/l, Max.	96	500	2000
7.	Conductivity, $\mu$ S/cm	162	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.9	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	26	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max.	7.8	200	600
14.	Calcium (as Ca), mg/l, Max.	10	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	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.	1.2	--	--
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	5.6	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), 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/SW-09/02

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

Village: Thangskai; PO: Lumshnong, Meghalaya

### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-2509/02

Sample Source : Um-Lunar River Downstream

Sample Type : Surface Water

Collected On : 25-09-2023

Received On : 27-09-2023

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	13	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	26.3	--	--
4.	pH Value	6.71	6.5 - 8.5	No Relaxation
5.	Suspended Solids	49	--	--
6.	Total Dissolved Solids, mg/l, Max.	104	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	175	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.7	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	29	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max.	8.5	200	600
14.	Calcium (as Ca), mg/l, Max.	13	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	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.	2.2	--	--
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	8.7	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), 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: 10.10.2023

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 and Water analysis report for the month of **September'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  
(Sr. President)

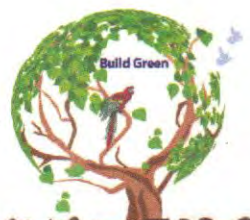


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District : East Jaintia Hills, Meghalaya, PIN: 793210  
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**HELPLINE NO : 18001233666**

Report No.: ENV/MCL/23-24/AA-09/01

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )
	LIMIT(S) →	---	60	100	80	80
01	Residential Colony	22.09.2023	19.2	42.7	5.8	6.3
02	Wahiajer Village	22.09.2023	15.9	38.6	<5.0	<5.0
03	Thangskai Village	22.09.2023	14.6	35.2	<5.0	<5.0
04	Cheruphi Village	22.09.2023	14.1	36.3	<5.0	<5.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON



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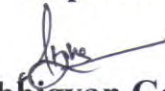
**Core Services:** Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs  
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# MEGHALAYA CEMENTS LIMITED

## AMBIENT AIR QUALITY SURVEY

Location of sampling		MCL, Thangskai			
Date of sampling		28.09.2023 & 29.09.2023			
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)		1.25 mm			
Ambient Temperature( <sup>0</sup> C)):					
Maximum:		30.74			
Minimum:		21.47			
Relative Humidity (%):					
Maximum:		94.85			
Minimum:		63.38			
Wind direction (in Degree)		→ SW (222.07)			
Pollutants	Analysis results				Permissible Limits For Rural Areas (By MSPCB 24hrs Monitoring)
	Station No. & Air Quality Survey No.				
	1)Opposite Guest house A/21/2023-24	2)Near L/S Crusher A/22/2023-24	3)Near Substation (DW Direction) A/23/2023-24	4) Near CCR Building A/24/2023-24	
	24 hrs.	24 hrs.	24 hrs.	24 hrs.	
Suspended Particulate Matters PM <sub>10</sub> (µg/m <sup>3</sup> )	48.05	45.83	51.24	46.68	100µg/m <sup>3</sup>
Suspended Particulate Matters PM <sub>2.5</sub> (µg/m <sup>3</sup> )	22.45	25.23	21.25	26.32	60µg/m <sup>3</sup>

**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 16<sup>th</sup> Nov'2009.

Prepared by  
  
(Abhigyan Gautam)


Checked & Verified by  
  
(Ujjwal Anurag)

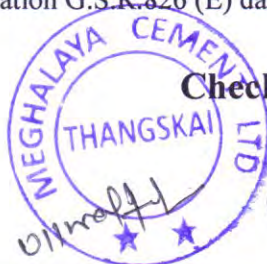
# MEGHALAYA CEMENTS LIMITED

## CPP AMBIENT AIR QUALITY SURVEY

Location of sampling	CPP, MCL, Thangskai		
Date of sampling	14.09.2023		
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)	1.50 mm		
Ambient Temperature( <sup>0</sup> C):			
Maximum:	30.88		
Minimum:	20.13		
Relative Humidity (%):			
Maximum:	170.68		
Minimum:	70.71		
Wind direction (in Degree)	→SE(131.25)		
Pollutants	Analysis results		
	Station No. & Air Quality Survey No.		
	1)Old Yard side S to E B/16/2023-24	2)Labour colony side S to W B/17/2023-24	3)JUNGLE Side N to E B/18/2023-24
	24 hrs.	24 hrs.	24 hrs.
Suspended Particulate Matters PM <sub>10</sub> (µg/m <sup>3</sup> )	41.27	39.15	33.54
Suspended Particulate Matters PM <sub>2.5</sub> (µg/m <sup>3</sup> )	28.53	29.14	25.54
			100µg/m <sup>3</sup> 60µg/m <sup>3</sup>

**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 16<sup>th</sup> Nov'2009.

Prepared by  
  
(Abhigyan Gautam)



Checked & Verified by  
(Ujjwal Anurag)

Report No.: ENV/MCL/23-24/SE-09/09

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/09		
02	Date of Sampling	24.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
05	Stack Diameter (Meter)	1.19		
06	Flue Gas Temperature (°C)	30		
07	Exit Velocity of Gas (m/sec)	4.2		
08	Flow Rate (Nm³/hr)	16541		
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-09/10  
Date : 05/10/2023

Order No.: 4700027732  
Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/10		
02	Date of Sampling	24.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Secondary Crusher		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	29		
07	Exit Velocity of Gas (m/sec)	4.1		
08	Flow Rate (Nm³/hr)	11440		
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-09/05

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/05		
02	Date of Sampling	23.09.2023		
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)	180		
07	Exit Velocity of Gas (m/sec)	19.7		
08	Flow Rate (Nm³/hr)	329818		
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	21	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	604	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	229	mg/Nm³	600



Checked By: Mr. Pankaj Baroi, ENVIROCON



**NOTE:**

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**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.

Report No.: ENV/MCL/23-24/SE-09/06

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/06		
02	Date of Sampling	23.09.2023		
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)	182		
07	Exit Velocity of Gas (m/sec)	21.3		
08	Flow Rate (Nm³/hr)	309278		
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)	643	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	239	mg/Nm³	600



Checked By: Mr. Pankaj Baroi, ENVIROCON



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**Associate Services:** Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/MCL/23-24/SE-09/01

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/01		
02	Date of Sampling	22.09.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill – 1		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	15.8		
08	Flow Rate (Nm³/hr)	56868		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	15	mg/Nm³	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/23-24/SE-09/02

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/02		
02	Date of Sampling	22.09.2023		
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)	14.6		
08	Flow Rate (Nm³/hr)	53202		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	20	mg/Nm³	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/23-24/SE-09/03

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/03		
02	Date of Sampling	22.09.2023		
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)	231		
07	Exit Velocity of Gas (m/sec)	10.5		
08	Flow Rate (Nm³/hr)	137638		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm³	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/04		
02	Date of Sampling	22.09.2023		
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)	223		
07	Exit Velocity of Gas (m/sec)	9.2		
08	Flow Rate (Nm³/hr)	122543		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm³	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-09/07

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/07		
02	Date of Sampling	23.09.2023		
03	Material of Construction	M <sub>s</sub> .		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	71		
07	Exit Velocity of Gas (m/sec)	14.3		
08	Flow Rate (Nm³/hr)	50443		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm³	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-09/08

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/08		
02	Date of Sampling	23.09.2023		
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)	69		
07	Exit Velocity of Gas (m/sec)	14.1		
08	Flow Rate (Nm³/hr)	50028		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm³	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-09/11

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/11		
02	Date of Sampling	24.09.2023		
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)	31		
07	Exit Velocity of Gas (m/sec)	16.4		
08	Flow Rate (Nm³/hr)	16094		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	17	mg/Nm³	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/23-24/SE-09/12

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/12		
02	Date of Sampling	24.09.2023		
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)	29		
07	Exit Velocity of Gas (m/sec)	15.7		
08	Flow Rate (Nm³/hr)	43808		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	20	mg/Nm³	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/23-24/SE-09/13

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-09/13		
02	Date of Sampling	24.09.2023		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Stack Diameter (Meter)	2.53		
06	Flue Gas Temperature (°C)	97		
07	Exit Velocity of Gas (m/sec)	8.2		
08	Flow Rate (Nm³/hr)	119541		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	39	mg/Nm³	50
ii.	Sulphur Dioxide (as SO₂)	317	mg/Nm³	600
iii.	Oxides of Nitrogen (as NOₓ)	177	mg/Nm³	300



Checked By: Mr. Pankaj Baroi, ENVIROCON

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# MEGHALAYA CEMENTS LIMITED

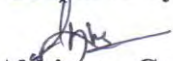
## MONTHLY REPORT: NOISE INTENSITY

September'23

Location		<u>Noise Intensity: dB (A) Leq</u>	
		Noise Value in dB (A) Leq	Noise Level not to exceed, in dB (A) Leq
Captive Power Plant	Day	46	75
	Night	39	70
DG House	Day	43	75
	Night	35	70
Guest House	Day	49	75
	Night	36	70
Crusher	Day	47	75
	Night	31	70

NOTE: Day Time (6:00AM to 9:00PM), Night Time (9:00PM to 6:00AM)

Prepared by

  
Abhigyan Gautam



Checked & Verified by

  
Ujjwal Anurag

Report No.: ENV/MCL/23-24/SW-09/01  
Date : 05/10/2023

Order No.: 4700027732  
Date : 11/09/2023

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

### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-2509/01  
Collected On : 25-09-2023

Sample Source : Um-Lunar River Upstream  
Received On : 27-09-2023

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.	11	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	26.3	--	--
4.	pH Value	6.74	6.5 - 8.5	No Relaxation
5.	Suspended Solids	45	--	--
6.	Total Dissolved Solids, mg/l, Max.	96	500	2000
7.	Conductivity, $\mu$ S/cm	162	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.9	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	26	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max.	7.8	200	600
14.	Calcium (as Ca), mg/l, Max.	10	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	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.	1.2	--	--
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	5.6	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), 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/SW-09/02

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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

### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-2509/02

Sample Source : Um-Lunar River Downstream

Sample Type : Surface Water

Collected On : 25-09-2023

Received On : 27-09-2023

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	13	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	26.3	--	--
4.	pH Value	6.71	6.5 - 8.5	No Relaxation
5.	Suspended Solids	49	--	--
6.	Total Dissolved Solids, mg/l, Max.	104	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	175	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.7	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	29	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max.	8.5	200	600
14.	Calcium (as Ca), mg/l, Max.	13	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	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.	2.2	--	--
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	8.7	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), 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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**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.



# MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 10.10.2023

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 September'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  
(Sr. President)



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

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

HELPLINE NO : 18001233666

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



Report No.: ENV/MCL/23-24/FE-09/01

Date : 05/10/2023

Order No.: 4700027732

Date : 11/09/2023

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	Limestone Storage Area	22.09.2023	1862	5000
02	Cement Loading Point	22.09.2023	832	2000
03	Fly Ash Storage Area (CPP)	23.09.2023	906	2000
04	Clinker Loading Point	23.09.2023	2047	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON



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**Associate Services:** Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

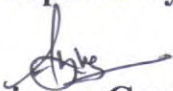
# MEGHALAYA CEMENTS LIMITED

## PROCESS FUGITIVE EMISSION TEST RESULTS

September'23

Date of Testing	Location	Fugitive Emission Results for SPM ( $\mu\text{g}/\text{m}^3$ )	As per the Standard Limit ( $\mu\text{g}/\text{m}^3$ )
06.09.2023	Lime stone Storage Area	2032	5000
07.09.2023	Coal Storage Area	1004	2000
08.09.2023	Clinker Loading Area	1971	5000
09.09.2023	Cement Loading Area	2242	5000
11.09.2023	Coal Storage Area (CPP)	1043	2000
12.09.2023	Fly Ash Silo Area (CPP)	974	2000

Prepared by

  
(Abhigyan Gautam)



Checked & Verified by

  
(Ujjwal Anurag)



**MEGHALAYA CEMENTS LIMITED**

CIN- U26942ML2003PLC007125



To,

Date: 10.10.2023

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 September'2023.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

*Mul...*  
R.K. Pareek  
(Sr. President)



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. : +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 September' 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) 439001 (b) 52274 (c) 846149	(a) 441101 (b) 53274 (c) 847449	4,400	-	-	Qty. of water consumed from river water = 4,400 + 14,013 = 18,413 KL
	Industrial cooling	River	(a) 251867 (b) 205102 (c) 784442	a) 259997 b) 216152 c) 794442	14,013	-	-	Qty of water circulation & returned = 12,087 + 3,080 = 15,167 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 = 2,814,754

Final reading of the return line flow meter at end of month = 2,826,841

(2) Initial reading of S.T.P flow meter at the beginning of the month = 151,720

Final reading of S.T.P flow meter at the end of the month = 154,800

