



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.04.2023

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 **March'2023** for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**


Authorized Signatory



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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

Report No.: ENV/MCL/22-23/AA-03/01

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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 Houl Road (31.05 Ha mines)	27.03.2023	23.7	48.6	7.9	9.6
02	Near DG Area	30.03.2023	27.8	52.3	6.8	7.7

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
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/2022-23

Location of sampling	South Khliehji Limestone Mine (31.05 Ha)
Date duration of sampling	23.03.2023 to 24.03.2023
Time Duration of sampling	48 hours
Weather	Clear
Total Rain Fall, mm (On Date)	01.50 mm
Ambient Temperature (°C) :	Max. - 22.07°C, Min. - 13.56°C
Relative Humidity (%) :	Max. - 97.14%, Min. - 70.54%
Wind direction	→S (174.61°)

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/88/2022-23	A2. North - West (Near Haul Road) D/89/2022-23	A3. Southern side (Near Lease Boundary) D/90/2022-23	
	48 hrs.	48 hrs	48 hrs	
Particulate Matters PM10 (µg/m³)	36.42	38.23	32.26	100
Particulate Matters PM2.5 (µg/m³)	24.81	26.29	27.88	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.



Checked & Verified By

Ujjwal Anurag
(Ujjwal Anurag)

Report No.: ENV/MCL/22-23/N-03/01

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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	Residential Colony	30.03.2023	45.2	55	32.6	45
2	Thangskai Village	28.03.2023	43.1	55	31.4	45
3	Near D G House	30.03.2023	72.6	75	67.2	70
4	Near Haul Road (31.05 Ha Mines)	28.03.2023	49.2	75	35.2	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/22-23/SW-03/01

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/22-23/SW-3103/01

Collected On : 31-03-2023

Sample Source : Um-Lunar River Upstream

Received On : 03-04-2023

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.	6	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	22.6	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	29	--	--
6.	Total Dissolved Solids, mg/l, Max.	126	500	2000
7.	Conductivity, μ S/cm	193	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.2	--	--
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 CaCO_3), mg/l, Max.	6.4	200	600
14.	Calcium (as Ca), mg/l, Max.	17	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	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.	1.8	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	7.2	--	--
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/22-23/SW-03/02

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/22-23/SW-3103/02

Collected On : 31-03-2023

Sample Source : Um-Lunar River Downstream

Received On : 03-04-2023

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	23.6	--	--
4.	pH Value	6.64	6.5 - 8.5	No Relaxation
5.	Suspended Solids	33	--	--
6.	Total Dissolved Solids, mg/l, Max.	126	500	2000
7.	Conductivity, μ S/cm	205	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.3	--	--
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 CaCO_3), mg/l, Max.	6.2	200	600
14.	Calcium (as Ca), mg/l, Max.	19	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	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.	1.6	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	6.7	--	--
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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ofc



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.04.2023

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

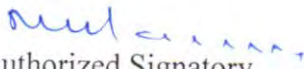
Dear Sir,

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 **March'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**


Authorized Signatory



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Mega Plaza, 4th Floor, Christian Basti
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Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
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E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

Report No.: ENV/MCL/22-23/AA-03/02
Date : 10/04/2023

Order No.: 47000025824
Date : 23/03/2023

Report Issued To: **M/S. 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)	SO₂ (µg/m³)	NO₂ (µg/m³)	NH₃ (µg/m³)	CO (mg/m³)	O₃ (µg/m³)	B(a)P (ng/m³)	C₆H₆ (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	29.03.2023	15.1	29.3	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Thngskai Village	29.03.2023	10.6	25.9	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01



Checked By: Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/22-23/AA-03/01
Date : 10/04/2023

Order No.: 47000025824
Date : 23/03/2023

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 Houl Road (31.05 Ha mines)	27.03.2023	23.7	48.6	7.9	9.6
02	Near DG Area	30.03.2023	27.8	52.3	6.8	7.7

Analysis Protocol: IS 5182



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

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Report No.: ENV/MCL/22-23/SE-03/11

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/11		
02	Date of Sampling	30.03.2023		
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)	5.6		
08	Flow Rate (Nm³/hr)	22201		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	12	mg/Nm³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/22-23/SE-03/12

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/12		
02	Date of Sampling	30.03.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Secondary Crusher		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	30		
07	Exit Velocity of Gas (m/sec)	7.3		
08	Flow Rate (Nm³/hr)	20302		
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/22-23/SE-03/03

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/03		
02	Date of Sampling	27.03.2023		
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)	181		
07	Exit Velocity of Gas (m/sec)	21.3		
08	Flow Rate (Nm³/hr)	355821		
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)	694	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	419	mg/Nm³	600



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Report No.: ENV/MCL/22-23/SE-03/04

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/04		
02	Date of Sampling	27.03.2023		
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)	178		
07	Exit Velocity of Gas (m/sec)	19.6		
08	Flow Rate (Nm³/hr)	287118		
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)	716	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	463	mg/Nm³	600



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Date : 23/03/2023

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Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/01		
02	Date of Sampling	27.03.2023		
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)	223		
07	Exit Velocity of Gas (m/sec)	9.7		
08	Flow Rate (Nm³/hr)	129201		
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



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Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/02		
02	Date of Sampling	27.03.2023		
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)	10.5		
08	Flow Rate (Nm³/hr)	140425		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/22-23/SE-03/09

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/09		
02	Date of Sampling	30.03.2023		
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)	10.2		
08	Flow Rate (Nm³/hr)	36712		
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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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/22-23/SE-03/10

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/10		
02	Date of Sampling	30.03.2023		
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)	18.6		
08	Flow Rate (Nm³/hr)	67778		
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



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/22-23/SE-03/05
Date : 10/04/2023

Order No.: 47000025824
Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/05		
02	Date of Sampling	28.03.2023		
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)	65		
07	Exit Velocity of Gas (m/sec)	15.8		
08	Flow Rate (Nm³/hr)	56724		
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



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/22-23/SE-03/06
Date : 10/04/2023

Order No.: 47000025824
Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/06		
02	Date of Sampling	28.03.2023		
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)	13.2		
08	Flow Rate (Nm³/hr)	46836		
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



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/22-23/SE-03/07

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/07		
02	Date of Sampling	29.03.2023		
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)	28		
07	Exit Velocity of Gas (m/sec)	12.3		
08	Flow Rate (Nm³/hr)	12151		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	13	mg/Nm³	30

*NA: Not Applicable



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/22-23/SE-03/08

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/22-23/SE-03/08		
02	Date of Sampling	29.03.2023		
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)	11.7		
08	Flow Rate (Nm³/hr)	32432		
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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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/MCL/22-23/N-03/01

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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	30.03.2023	45.2	55	32.6	45
2	Thangskai Village	28.03.2023	43.1	55	31.4	45
3	Near D G House	30.03.2023	72.6	75	67.2	70
4	Near Haul Road (31.05 Ha Mines)	28.03.2023	49.2	75	35.2	70



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/22-23/SW-03/01

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/22-23/SW-3103/01

Sample Source : Um-Lunar River Upstream

Sample Type : Surface Water

Collected On : 31-03-2023

Received On : 03-04-2023

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	6	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	22.6	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	29	--	--
6.	Total Dissolved Solids, mg/l, Max.	126	500	2000
7.	Conductivity, μ S/cm	193	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.2	--	--
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 CaCO_3), mg/l, Max.	6.4	200	600
14.	Calcium (as Ca), mg/l, Max.	17	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	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.	1.8	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	7.2	--	--
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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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/22-23/SW-03/02

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/22-23/SW-3103/02

Collected On : 31-03-2023

Sample Source : Um-Lunar River Downstream

Received On : 03-04-2023

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	23.6	--	--
4.	pH Value	6.64	6.5 - 8.5	No Relaxation
5.	Suspended Solids	33	--	--
6.	Total Dissolved Solids, mg/l, Max.	126	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	205	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.3	--	--
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 CaCO_3), mg/l, Max.	6.2	200	600
14.	Calcium (as Ca), mg/l, Max.	19	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	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.	1.6	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	6.7	--	--
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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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/22-23/WW-03/01
Date : 10/04/2023

Order No.: 47000025824
Date : 23/03/2023

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.: MCL/22-23/ETP-3103/01 Sample Source : ETP Outlet (MCL) Sample Type : ETP Treated Water
Collected On : 31-03-2023 Received On : 03-04-2023 Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 422(E), 19.05.1993]
1	Ph	6.86	6.5 – 9.0
2	Temperature, °C	25.4	shall not exceed 5°C above the receiving water temperature*
3	Total Suspended Solids (as TSS), mg/l	33	<100
4	Biochemical Oxygen Demand (as BOD), mg/l	21	30
5	Chemical Oxygen Demand (as COD), mg/l	73	250*
6	Oil & Grease, mg/l	<4.0	10.0*
7	Total Residual Chlorine, mg/l	<0.01	1.0*
8	Ammonical Nitrogen (as N), mg/l	16	50*
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	29	100*
10	Free Ammonia (as NH ₃), mg/l	<0.01	5.0*

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.

ofc



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.04.2023

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 for the month of **March'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**


Authorized Signatory



01111111



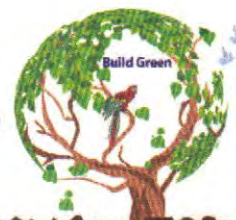
ISO 9001:2015 & 14001:2015
50001:2011 Certified Company

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

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



Report No.: ENV/MCL/22-23/FE-03/01

Date : 10/04/2023

Order No.: 47000025824

Date : 23/03/2023

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	Lime Stone Storage Area	29.03.2023	1196	5000
02	Coal Storage Area	29.03.2023	582	2000
03	Cement Loading Area	28.03.2023	2253	5000

Analysis Protocol: IS 5182



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
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MEGHALAYA CEMENTS LIMITED

PROCESS FUGITIVE EMISSION TEST RESULTS

March'2023

Date of Testing	Location	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	As per the Standard Limit ($\mu\text{g}/\text{m}^3$)
10.03.2023	Lime stone Storage Area	1330	5000
11.03.2023	Coal Storage Area	683	2000
13.03.2023	Clinker Loading Area	2137	5000
15.03.2023	Cement Loading Area	2571	5000
17.03.2023	Coal Storage Area (CPP)	1450	2000
18.03.2023	Fly Ash Silo Area (CPP)	1080	2000



Checked & Verified by

Ujjwal Anurag

(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.04.2023

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 **March'2023**.

Month

Water Consumption

March'2023

0.00 m3

(Note-Stopped as per management decision)

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**

Authorized Signatory



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

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

CIN- U26942ML2003PLC007125



TOPCEM
CEMENT

Mazbooti ka bharosa...hamesha

To,

Date: 12.04.2023

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 March'2023.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

Mul...
Authorized Signatory



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

Sales & Marketing Office :
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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 March'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) 429643 (b) 041987 (c) 836122	(a) 431023 (b) 044187 (c) 838232	5,690	-	-	Qty. of water consumed from river water = 5,690 + 15,296 = 20,986 KL
	Industrial cooling	River	a) 209631 b) 143367 c) 721686	a) 214800 b) 155661 c) 734325	15,296	-	-	Qty of water circulation & returned = 10,199 + 4,607 = 14,806 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 = 2,747,382

Final reading of the return line flow meter at end of month = 2,757,581

(2) Initial reading of S.T.P flow meter at the beginning of the month = 129,780

Final reading of S.T.P flow meter at the end of the month = 134,387

