



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 09.11.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpynggad,
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 **October'2024** for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

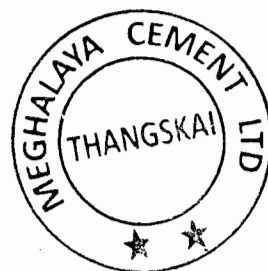
Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



[Handwritten Signature]
Authorized Signatory



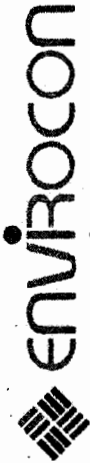
Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 234542/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
Web : www.topcem.in

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





Recognised By

Pollution Control Board, Assam

Envirocon Building, I.O.C.L (AOD) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified
ISO 45001:2018 Certified

Report No. : ENV/MCL/24-25/AA-10/01

Date : 07/11/2024

Order No. : 4700032340

Date : 21/10/2024

Report Issued To: MEGHALAYA CEMENTS LIMITED

Village: Thangskai, PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	NH ₃ (µg/m³)	CO (mg/m³)	O ₃ (µg/m³)	B(a)P (ng/m³)	C ₆ H ₆ (µg/m³)	Ni (ng/m³)	As (ng/m³)	Pb (µg/m³)
LIMITS →	--	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Near Residential Colony	22.10.2024	27.6	57.6	6.2	7.6	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Wahiajer Village	23.10.2024	23.1	43.8	5.8	7.2	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By: Pankaj Baroi, ENVIROCON

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

Report No.: ENV/MCL/24-25/AA-10/02
Date : 07/11/2024

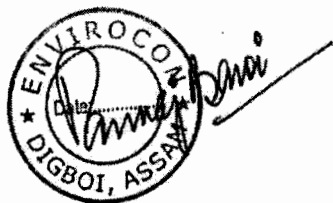
Order No.: 4700032340
Date : 21/10/2024

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 ₂ (µg/m³)	NO ₂ (µg/m³)
	LIMIT(S) →	---	60	100	80	80
01	Near Soil Dump	22.10.2024	35.3	63.8	7.7	8.1
02	Near Haul Road	22.10.2024	36.2	67.2	8.6	9.4
03	Near Lease Boundary	22.10.2024	33.8	61.3	7.3	7.7

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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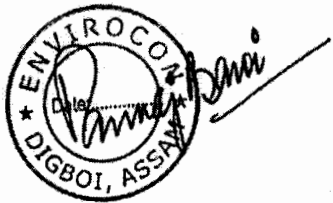
Report No.: ENV/MCL/24-25/N-10/02
Date : 07/11/2024

Order No.: 4700032340
Date : 21/10/2024

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	Mines Haul Road	22.10.2024	68.6	75	62.7	70
2	Near Soil Dump	22.10.2024	64.5	75	59.5	70
3	Near Lease Boundary	22.10.2024	65.9	75	64.6	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SW-10/01
Date : 07/11/2024

Order No.: 4700032340
Date : 21/10/2024

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2510/01
Collected On : 25-10-2024

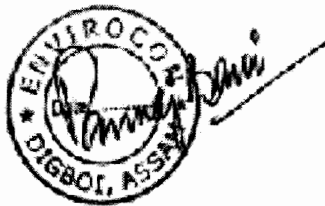
Sample Source : Um-Lunar River Upstream
Received On : 28-10-2024

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.	15	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	24.6	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	43	--	--
6.	Total Dissolved Solids, mg/l, Max.	129	500	2000
7.	Conductivity, μ S/cm	182	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.4	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	27	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO ₃), mg/l, Max.	8.4	200	600
14.	Calcium (as Ca), mg/l, Max.	26	75	200
15.	Magnesium (as Mg), mg/l, Max.	9	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.	1.9	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	5.8	--	--
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/24-25/SW-10/02
Date : 07/11/2024

Order No.: 4700032340
Date : 21/10/2024

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

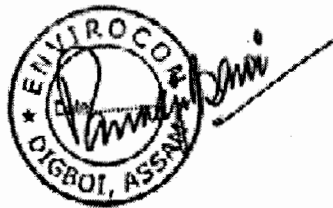
SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2510/02 Sample Source : Um-Lunar River Downstream Sample Type : Surface Water
Collected On : 25-10-2024 Received On : 28-10-2024 Collected By : Envirocon Representative

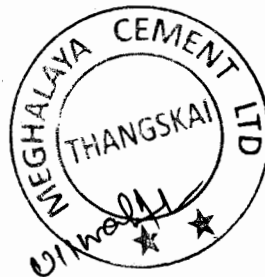
Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	18	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	24.6	--	--
4.	pH Value	6.63	6.5 - 8.5	No Relaxation
5.	Suspended Solids	57	--	--
6.	Total Dissolved Solids, mg/l, Max.	143	500	2000
7.	Conductivity, μ S/cm	190	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.9	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	41	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO ₃), mg/l, Max.	9.2	200	600
14.	Calcium (as Ca), mg/l, Max.	29	75	200
15.	Magnesium (as Mg), mg/l, Max.	10	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.	3.2	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	6.9	--	--
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.

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MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 09.11.2024

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 **October'2024** for **2600 TPD Cement Manufacturing Plant** along with **10 MW Captive Power Plant** report respectively.

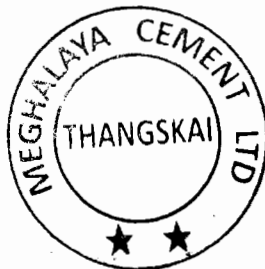
Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**



[Handwritten Signature]
Authorized Signatory



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
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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



Recognised By

Pollution Control Board, Assam

Envirocon Building, I.O.C.L. (AOD) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam - 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified
ISO 45001:2018 Certified

Report No.: ENV/MCL/24-25/AA-10/01
Date: 07/11/2024

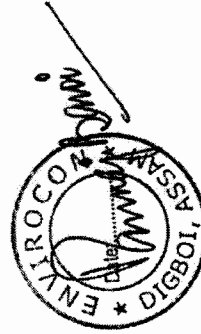
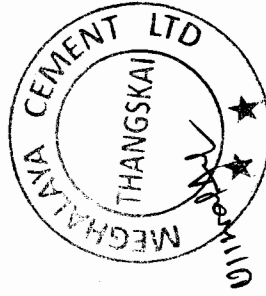
Order No.: 4700032340
Date: 21/10/2024

Report Issued To: MEGHALAYA CEMENTS LIMITED
Village: Thangskai, PO: Lumshong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	NH ₃ (µg/m³)	CO (mg/m³)	O ₃ (µg/m³)	B(a)P (ng/m³)	C ₆ H ₆ (µg/m³)	Ni (ng/m³)	As (ng/m³)	Pb (µg/m³)
LIMITS →	-	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Near Residential Colony	22.10.2024	27.6	57.6	6.2	7.6	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Wahiajer Village	23.10.2024	23.1	43.8	5.8	7.2	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



Checked By: Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/AA-10/03

Date : 07/11/2024

Order No.: 4700032340

Date : 21/10/2024

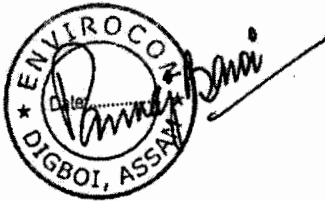
Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**

Village: Thangskai; PO: Lumshnong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
	LIMIT(S) →	---	60	100	80	80
01	Near CCR Building	23.10.2024	36.2	63.2	5.3	6.5
02	Near LS Crusher	23.10.2024	41.3	72.6	7.5	8.2
03	Near CPP Area	23.10.2024	44.8	76.7	8.6	9.7

Analysis Protocol: IS 5182



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Report No.: ENV/MCL/24-25/SE-10/11

Date : 07/11/2024

Order No.: 4700032340

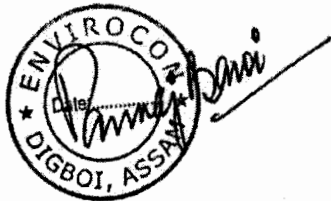
Date : 21/10/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/11		
02	Date of Sampling	24.10.2024		
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)	4.4		
08	Flow Rate (Nm ³ /hr)	17444		
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/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-10/12
Date : 07/11/2024

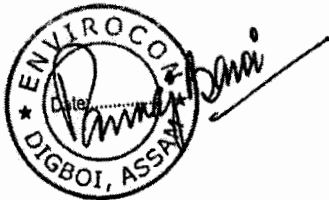
Order No.: 4700032340
Date : 21/10/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/12		
02	Date of Sampling	24.10.2024		
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)	4.5		
08	Flow Rate (Nm ³ /hr)	12515		
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/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-10/07

Date : 07/11/2024

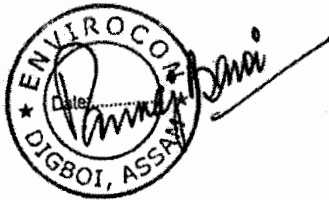
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Date : 21/10/2024

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Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/07		
02	Date of Sampling	23.10.2024		
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)	176		
07	Exit Velocity of Gas (m/sec)	19.1		
08	Flow Rate (Nm ³ /hr)	322622		
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	24	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	659	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	289	mg/Nm ³	600



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Report No.: ENV/MCL/24-25/SE-10/08

Order No.: 4700032340

Date : 07/11/2024

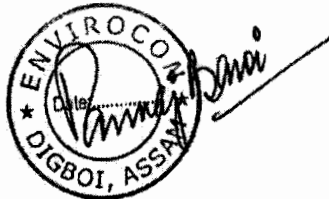
Date : 21/10/2024

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

Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/08		
02	Date of Sampling	23.10.2024		
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)	171		
07	Exit Velocity of Gas (m/sec)	18.3		
08	Flow Rate (Nm ³ /hr)	272301		
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	22	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	661	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	288	mg/Nm ³	600



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-10/01
Date : 07/11/2024

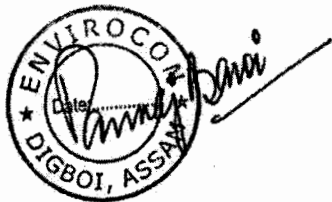
Order No.: 4700032340
Date : 21/10/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/01		
02	Date of Sampling	22.10.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill - 1		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	52		
07	Exit Velocity of Gas (m/sec)	12.3		
08	Flow Rate (Nm ³ /hr)	45490		
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/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON



<p>NOTE:</p> <ol style="list-style-type: none"> Results reported are valid at the time of and under the prevailing conditions of measurement. Results refer only to the particular parameters tested. 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.

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Report No.: ENV/MCL/24-25/SE-10/02

Date : 07/11/2024

Order No.: 4700032340

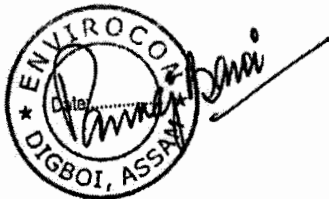
Date : 21/10/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/02		
02	Date of Sampling	22.10.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill - 2		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	48		
07	Exit Velocity of Gas (m/sec)	11.1		
08	Flow Rate (Nm ³ /hr)	40939		
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/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-10/05
Date : 07/11/2024

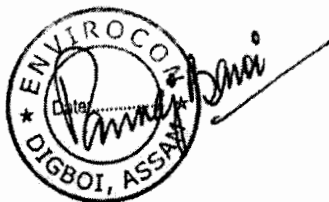
Order No.: 4700032340
Date : 21/10/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/05		
02	Date of Sampling	22.10.2024		
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)	117		
07	Exit Velocity of Gas (m/sec)	6.8		
08	Flow Rate (Nm ³ /hr)	115193		
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/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-10/06
Date : 07/11/2024

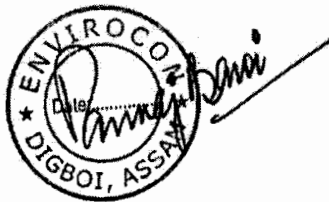
Order No.: 4700032340
Date : 21/10/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/06		
02	Date of Sampling	23.10.2024		
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)	116		
07	Exit Velocity of Gas (m/sec)	7.1		
08	Flow Rate (Nm ³ /hr)	120584		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	29	mg/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/24-25/SE-10/09

Date : 07/11/2024

Order No.: 4700032340

Date : 21/10/2024

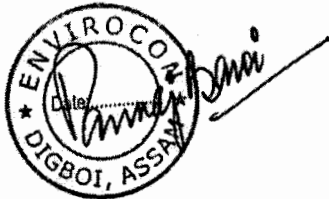
Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**

Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/09		
02	Date of Sampling	23.10.2024		
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)	61		
07	Exit Velocity of Gas (m/sec)	12.1		
08	Flow Rate (Nm ³ /hr)	43961		
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/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-10/10
Date : 07/11/2024

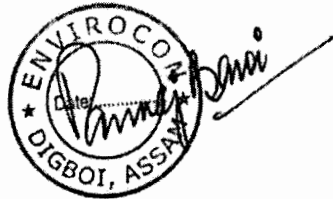
Order No.: 4700032340
Date : 21/10/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/10		
02	Date of Sampling	23.10.2024		
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)	14.8		
08	Flow Rate (Nm ³ /hr)	52513		
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/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/24-25/SE-10/03

Date : 07/11/2024

Order No.: 4700032340

Date : 21/10/2024

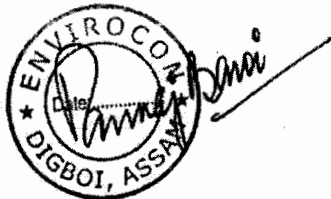
Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**

Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/03		
02	Date of Sampling	22.10.2024		
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)	29		
07	Exit Velocity of Gas (m/sec)	12.7		
08	Flow Rate (Nm ³ /hr)	12546		
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/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-10/04
 Date : 07/11/2024

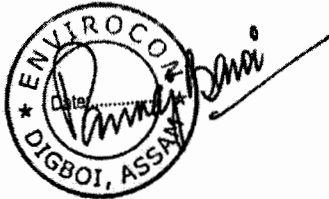
Order No.: 4700032340
 Date : 21/10/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/04		
02	Date of Sampling	22.10.2024		
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)	31		
07	Exit Velocity of Gas (m/sec)	15.2		
08	Flow Rate (Nm ³ /hr)	42134		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-10/13

Date : 07/11/2024

Order No.: 4700032340

Date : 21/10/2024

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

Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-10/13		
02	Date of Sampling	24.10.2024		
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)	98		
07	Exit Velocity of Gas (m/sec)	7.2		
08	Flow Rate (Nm ³ /hr)	104680		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	44	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	408	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	178	mg/Nm ³	300



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/N-10/01
Date : 07/11/2024

Order No.: 4700032340
Date : 21/10/2024

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	23.10.2024	49.5	55	43.6	45
2	Near L.S Crusher	23.10.2024	71.7	75	66.7	70
3	Thangskai Village	23.10.2024	42.5	55	37.4	45
4	Near CCR Building	23.10.2024	69.3	75	65.6	70



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/24-25/SW-10/01

Date : 07/11/2024

Order No.: 4700032340

Date : 21/10/2024

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

Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2510/01

Sample Source : Um-Lunar River Upstream

Sample Type : Surface Water

Collected On : 25-10-2024

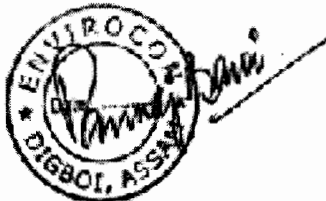
Received On : 28-10-2024

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	15	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	24.6	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	43	--	--
6.	Total Dissolved Solids, mg/l, Max.	129	500	2000
7.	Conductivity, μ S/cm	182	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.4	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	27	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO ₃), mg/l, Max.	8.4	200	600
14.	Calcium (as Ca), mg/l, Max.	26	75	200
15.	Magnesium (as Mg), mg/l, Max.	9	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.	1.9	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	5.8	--	--
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/24-25/SW-10/02
Date : 07/11/2024

Order No.: 4700032340
Date : 21/10/2024

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2510/02
Collected On : 25-10-2024

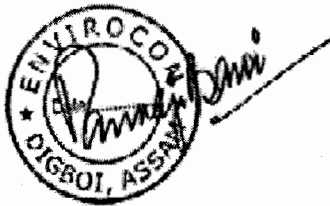
Sample Source : Um-Lunar River Downstream
Received On : 28-10-2024

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.	18	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	24.6	--	--
4.	pH Value	6.63	6.5 - 8.5	No Relaxation
5.	Suspended Solids	57	--	--
6.	Total Dissolved Solids, mg/l, Max.	143	500	2000
7.	Conductivity, μ S/cm	190	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.9	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	41	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO ₃), mg/l, Max.	9.2	200	600
14.	Calcium (as Ca), mg/l, Max.	29	75	200
15.	Magnesium (as Mg), mg/l, Max.	10	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.	3.2	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	6.9	--	--
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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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125

o/c



To,

Date: 09.11.2024

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 **October'2024** for **2600 TPD Cement Manufacturing Plant** along with **10 MW Captive Power Plant** report respectively.

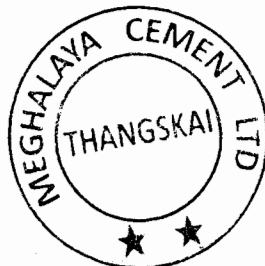
Thanking you Sir,



Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**

[Handwritten Signature]
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. : 03855 278324 / 363 / 364
Fax : 03855 278327
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

Report No.: ENV/MCL/24-25/FE-10/01

Date : 07/11/2024

Order No.: 4700032340

Date : 21/10/2024

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	Cement Loading Point	24.10.2024	1035	2000
02	CPP Coal Storage	24.10.2024	1129	2000
03	Clinker Loading Point	22.10.2024	2346	5000
04	Raw Material Yard	22.10.2024	1754	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON



- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 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.

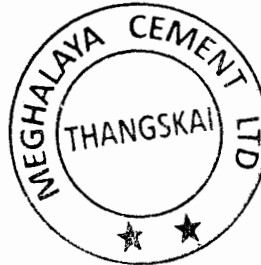
PROCESS FUGITIVE EMISSION TEST RESULTS

October'2024

Date of Testing	Location	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	As per the Standard Limit ($\mu\text{g}/\text{m}^3$)
07.10.2024	Lime stone Storage Area	1142	5000
08.10.2024	Coal Storage Area	1185	2000
09.10.2024	Clinker Loading Area	1935	5000
15.10.2024	Cement Loading Area	2351	5000
16.10.2024	Coal Storage Area (CPP)	1334	2000
17.10.2024	Fly Ash Silo Area (CPP)	989	2000

Prepared by

(Abhigyan Gautam)



Checked & Verified by

Ujjwal Anurag
(Ujjwal Anurag)



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 09.11.2024

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'2024.

Month

October'2024

Water Consumption

15,734 m³

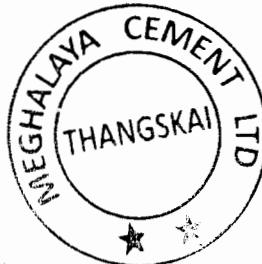
Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



M. J. Jaisankar
Authorized Signatory



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HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125

o/c



To,

Date: 09.11.2024

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

Dear Sir,

We are herewith submitting the water consumption report of 2600 TPD Cement Manufacturing Plant for the month of October'2024.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



Mul...
Authorized Signatory



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HELPLINE NO : 18001233666

MEGHALAYA CEMENTS LIMITED

FORM - I

(See Rule 4)

Return: Water consumed during the month of October'2024

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 Kiloliters	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 Industrial cooling (Cement Plant) Industrial cooling (WHRS)	River River River	(a) 465749 (b) 65978 (c) 866897 (a) 334154 (b) 347851 (c) 919944	(a) 467764 (b) 67267 (c) 868734 (a) 341315 (b) 359993 (c) 927446	5141 12521 8658	- - -	- - -	Qty. of water consumed from river water = 5,141 + 12,521 = 17,662 KL Qty of water circulation & returned = 11,041 + 3,243 = 14,284 KL Used for WHRS

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 = 29, 64, 27
Final reading of the return line flow meter at end of month = 29, 75, 311
(2) Initial reading of S.T.P flow meter at the beginning of the month = 1, 88, 613
Final reading of S.T.P flow meter at the end of the month = 1, 91, 856

