

etc



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 10.07.2024

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

Dear Sir,

We are herewith submitting the Ambient Air Quality Survey report, Ambient Noise Survey report and Water Analysis report for the month of **June'2024** for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

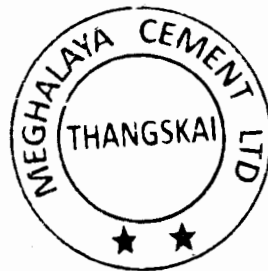
Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



Mukul Chandra
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
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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



ENVIROCON

Recognised By

Pollution Control Board, Assam

Envirocon Building, I.O.C.L (AOD) New Market
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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-06/02

Date : 08/07/2024

Order No.: 4700030976

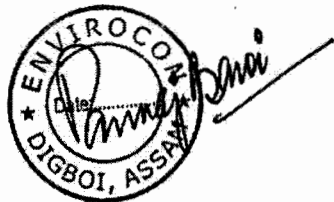
Date : 24/06/2024

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	27.06.2024	23.9	46.8	6.9	7.1
02	Near Haul Road	27.06.2024	29.4	49.5	7.2	8.3
03	Near Lease Boundary	27.06.2024	25.2	48.2	6.4	6.8

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.

Report No.: ENV/MCL/24-25/AA-06/01
 Date : 08/07/2024

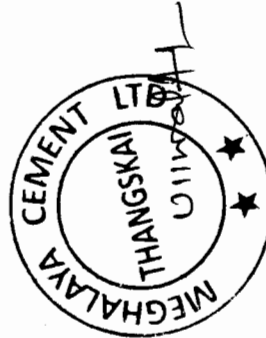
Order No.: 4700030976
 Date : 24/06/2024

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)	Cd/Hg (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	26.06.2024	19.3	39.7	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Chiehruphi Village	27.06.2024	17.6	35.1	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



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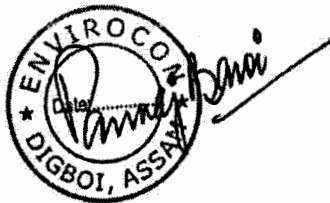
Report No.: ENV/MCL/24-25/N-06/02
Date : 08/07/2024

Order No.: 4700030976
Date : 24/06/2024

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	Mines Haul Road	27.06.2024	67.5	75	62.9	70
2	Near Soil Dump	27.06.2024	62.7	75	59.5	70
3	Near Lease Boundary	27.06.2024	64.1	75	61.7	70



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Date : 08/07/2024

Order No.: 4700030976
Date : 24/06/2024

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

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/DW-2806/01
Collected On : 28-06-2024

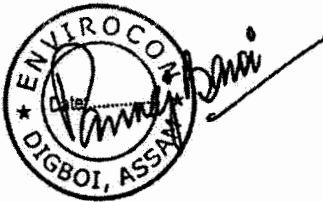
Sample Source : Residential Colony
Received On : 30-06-2024

Sample Type : Drinking Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	1	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.05	1	5
5.	pH	6.92	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	64	500	2000
7.	Aluminium (as Al), mg/l, Max.	<0.001	0.03	0.2
8.	Boron (as B), mg/l, Max.	<0.001	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	18	75	200
10.	Chloride (as Cl), mg/l, Max	6.3	250	1000
11.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
12.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
14.	Iron (as Fe), mg/l, Max	<0.02	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	2	30	100
16.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
18.	Nitrate (as NO ₃), mg/l, Max	<0.1	45	No Relaxation
19.	Sulfate (as SO ₄), mg/l, Max	<1	200	400
20.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max.	<0.001	0.001	0.002
				--Continued--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Date : 08/07/2024

Order No.: 4700030976
Date : 24/06/2024

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

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/DW-2806/01
Collected On : 28-06-2024

Sample Source : Residential Colony
Received On : 30-06-2024

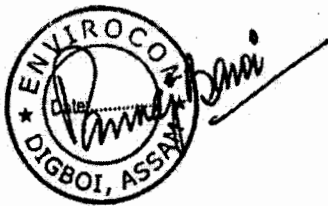
Sample Type : Drinking Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO ₃) , mg/l, Max	43	200	600
22.	Total Hardness, (as CaCO ₃), mg/l, Max	16	200	600
23.	Cadmium (as Cd), mg/l, Max.	<0.001	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	<0.001	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	<0.001	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	<0.001	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	<0.001	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	<0.001	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
31.	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	No Relaxation
32.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
33.	E. Coli / 100 ml	Absent	Absent	Absent
				--End of Report--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

Remarks: Drinking water from the above source is fit for drinking.



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Report No.: ENV/MCL/24-25/SW-06/01
 Date : 08/07/2024

Order No.: 4700030976
 Date : 24/06/2024

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2806/01
 Collected On : 28-06-2024

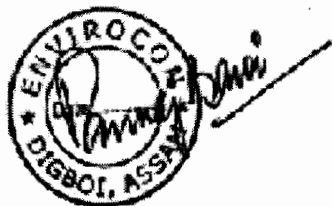
Sample Source : Um-Lunar River Upstream
 Received On : 30-06-2024

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.	11	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	23.9	--	--
4.	pH Value	6.69	6.5 - 8.5	No Relaxation
5.	Suspended Solids	46	--	--
6.	Total Dissolved Solids, mg/l, Max.	134	500	2000
7.	Conductivity, μ S/cm	186	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.4	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	30	--	--
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.	8.8	200	600
14.	Calcium (as Ca), mg/l, Max.	21	75	200
15.	Magnesium (as Mg), mg/l, Max.	6	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.	2.1	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	6.1	--	--
20.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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Report No.: ENV/MCL/24-25/SW-06/02
Date : 08/07/2024

Order No.: 4700030976
Date : 24/06/2024

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2806/02
Collected On : 28-06-2024

Sample Source : Um-Lunar River Downstream
Received On : 30-06-2024

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	23.9	--	--
4.	pH Value	6.65	6.5 - 8.5	No Relaxation
5.	Suspended Solids	57	--	--
6.	Total Dissolved Solids, mg/l, Max.	140	500	2000
7.	Conductivity, μ S/cm	188	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.9	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	37	--	--
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.	8.9	200	600
14.	Calcium (as Ca), mg/l, Max.	23	75	200
15.	Magnesium (as Mg), mg/l, Max.	6	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.	2.6	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	6.8	--	--
20.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125

ofc



To,

Date: 10.07.2024

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

Dear Sir,

We are herewith submitting the Ambient Air Quality survey report along with stack analysis report, Ambient Noise survey report and Water analysis report for the month of June'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



Mukul...
Authorized Signatory



Sales & Marketing Office :
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Tel. : 0361 2345421/22/23, Fax : 0361 2345419
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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



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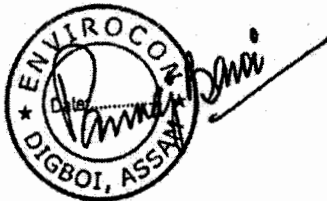
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 Village: Thangskai; PO: Lumshnong, Meghalaya

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 Substation	26.06.2024	23.6	44.6	<5.0	<6.0
02	Near LS Crusher	26.06.2024	28.4	49.5	6.6	7.2
03	Near Substation	26.06.2024	30.9	50.2	6.2	6.8

Analysis Protocol: IS 5182



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Date : 08/07/2024

Order No.: 4700030976
Date : 24/06/2024

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Village: Thangskai, PO: Lumshong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

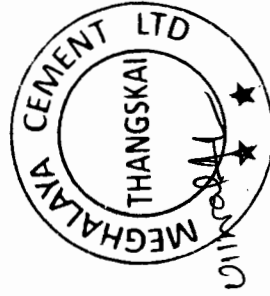
LOCATIONS ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	NH ₃ (µg/m ³)	CO (mg/m ³)	O ₃ (µg/m ³)	B(a)P (ng/m ³)	CaH ₆ (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Pb (µg/m ³)
LIMITS →	-	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. 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	26.06.2024	19.3	39.7	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Chiehruphi Village	27.06.2024	17.6	35.1	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182



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Report No.: ENV/MCL/24-25/SE-06/12
Date : 08/07/2024

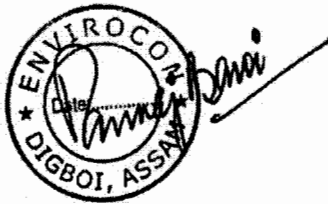
Order No.: 4700030976
Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/12		
02	Date of Sampling	28.06.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Primary Crusher		
05	Stack Diameter (Meter)	1.19		
06	Flue Gas Temperature (°C)	27		
07	Exit Velocity of Gas (m/sec)	4.2		
08	Flow Rate (Nm ³ /hr)	16707		
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/Nm ³	30

*NA: Not Applicable



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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/SE-06/13

Date : 08/07/2024

Order No.: 4700030976

Date : 24/06/2024

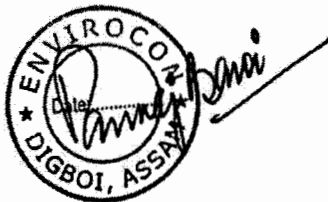
Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**

Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/13		
02	Date of Sampling	28.06.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Secondary Crusher		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	28		
07	Exit Velocity of Gas (m/sec)	4.3		
08	Flow Rate (Nm ³ /hr)	15326		
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/Nm ³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-06/05
Date : 08/07/2024Order No.: 4700030976
Date : 24/06/2024Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-06/05		
02	Date of Sampling	27.06.2024		
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)	173		
07	Exit Velocity of Gas (m/sec)	16.9		
08	Flow Rate (Nm ³ /hr)	287382		
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/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	625	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	212	mg/Nm ³	600



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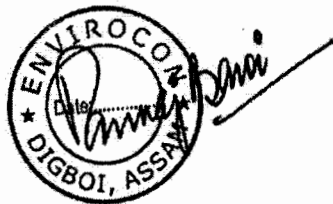
Report No.: ENV/MCL/24-25/SE-06/06
 Date : 08/07/2024

Order No.: 4700030976
 Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/06		
02	Date of Sampling	27.06.2024		
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)	176		
07	Exit Velocity of Gas (m/sec)	17.3		
08	Flow Rate (Nm ³ /hr)	254555		
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/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	586	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	209	mg/Nm ³	600



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Report No.: ENV/MCL/24-25/SE-06/01

Date : 08/07/2024

Order No.: 4700030976

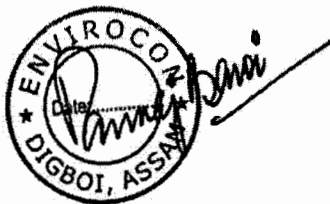
Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/01		
02	Date of Sampling	26.06.2024		
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)	11.8		
08	Flow Rate (Nm ³ /hr)	42602		
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-06/02
Date : 08/07/2024

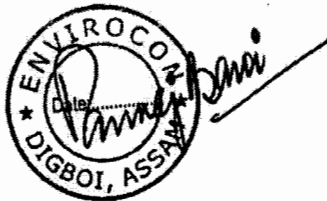
Order No.: 4700030976
Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/02		
02	Date of Sampling	26.06.2024		
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)	11.5		
08	Flow Rate (Nm ³ /hr)	42036		
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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ISO 9001:2015 Certified
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Report No.: ENV/MCL/24-25/SE-06/07
Date : 08/07/2024

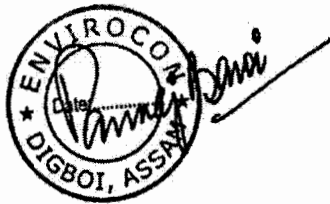
Order No.: 4700030976
Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/07		
02	Date of Sampling	27.06.2024		
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)	234		
07	Exit Velocity of Gas (m/sec)	8.9		
08	Flow Rate (Nm ³ /hr)	115975		
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



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Report No.: ENV/MCL/24-25/SE-06/08
Date : 08/07/2024

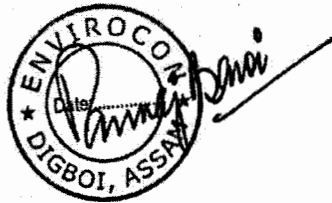
Order No.: 4700030976
Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/08		
02	Date of Sampling	27.06.2024		
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)	231		
07	Exit Velocity of Gas (m/sec)	9.2		
08	Flow Rate (Nm ³ /hr)	120598		
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



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Report No.: ENV/MCL/24-25/SE-06/03

Order No.: 4700030976

Date : 08/07/2024

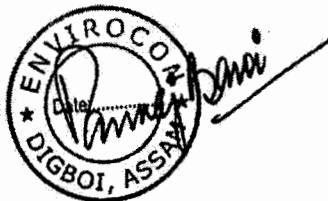
Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/03		
02	Date of Sampling	26.06.2024		
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)	65		
07	Exit Velocity of Gas (m/sec)	12.7		
08	Flow Rate (Nm ³ /hr)	45595		
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/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/MCL/24-25/SE-06/04
Date : 08/07/2024

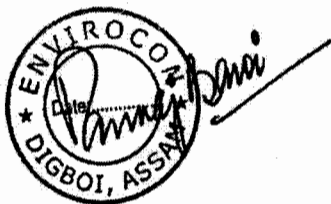
Order No.: 4700030976
Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/04		
02	Date of Sampling	26.06.2024		
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)	13.8		
08	Flow Rate (Nm ³ /hr)	48964		
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



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Report No.: ENV/MCL/24-25/SE-06/10
 Date : 08/07/2024

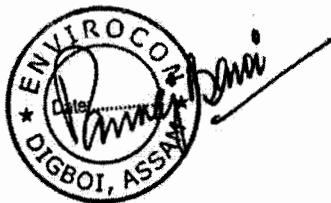
Order No.: 4700030976
 Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/10		
02	Date of Sampling	28.06.2024		
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)	27		
07	Exit Velocity of Gas (m/sec)	11.4		
08	Flow Rate (Nm ³ /hr)	11337		
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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 Date : 08/07/2024

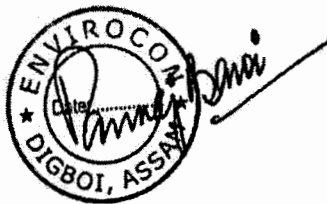
Order No.: 4700030976
 Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/11		
02	Date of Sampling	28.06.2024		
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)	14.2		
08	Flow Rate (Nm ³ /hr)	39362		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
I.	Particulate Matter	18	mg/Nm ³	30

*NA: Not Applicable



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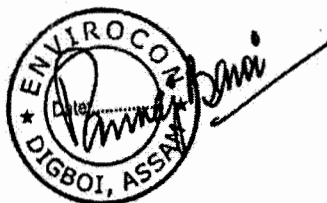
Report No.: ENV/MCL/24-25/SE-06/09
 Date : 08/07/2024

Order No.: 4700030976
 Date : 24/06/2024

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2024/SE-06/09		
02	Date of Sampling	28.06.2024		
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)	99		
07	Exit Velocity of Gas (m/sec)	7.4		
08	Flow Rate (Nm ³ /hr)	107299		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	42	mg/Nm ³	50
ii.	Sulphur Dioxide (as SO ₂)	441	mg/Nm ³	600
iii.	Oxides of Nitrogen (as NO _x)	173	mg/Nm ³	300



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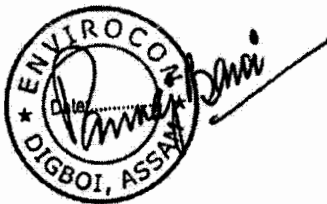
Report No.: ENV/MCL/24-25/N-06/01
 Date : 08/07/2024

Order No.: 4700030976
 Date : 24/06/2024

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	Residential Colony	26.06.2024	43.5	55	40.2	45
2	Near L.S Crusher	26.06.2024	67.4	75	63.9	70
3	Near Sub-station	26.06.2024	65.6	75	60.5	70
4	Near CCR Building	26.06.2024	66.5	75	62.7	70



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Report No.: ENV/MCL/24-25/SW-06/01
Date : 08/07/2024

Order No.: 4700030976
Date : 24/06/2024

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

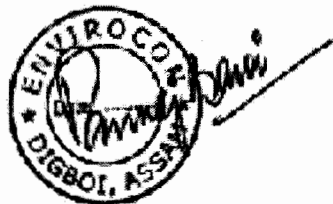
SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2806/01 Sample Source : Um-Lunar River Upstream Sample Type : Surface Water
Collected On : 28-06-2024 Received On : 30-06-2024 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	23.9	--	--
4.	pH Value	6.69	6.5 - 8.5	No Relaxation
5.	Suspended Solids	46	--	--
6.	Total Dissolved Solids, mg/l, Max.	134	500	2000
7.	Conductivity, μ S/cm	186	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.4	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	30	--	--
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.	8.8	200	600
14.	Calcium (as Ca), mg/l, Max.	21	75	200
15.	Magnesium (as Mg), mg/l, Max.	6	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.	2.1	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	6.1	--	--
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-06/02
Date : 08/07/2024

Order No.: 4700030976
Date : 24/06/2024

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2806/02
Collected On : 28-06-2024

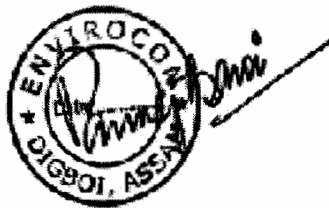
Sample Source : Um-Lunar River Downstream
Received On : 30-06-2024

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	23.9	--	--
4.	pH Value	6.65	6.5 - 8.5	No Relaxation
5.	Suspended Solids	57	--	--
6.	Total Dissolved Solids, mg/l, Max.	140	500	2000
7.	Conductivity, μ S/cm	188	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.9	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	37	--	--
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.	8.9	200	600
14.	Calcium (as Ca), mg/l, Max.	23	75	200
15.	Magnesium (as Mg), mg/l, Max.	6	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.	2.6	--	--
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	6.8	--	--
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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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.: **EW/MCL/24-25/DW-06/01**
Date: **02/07/2024**

Order No.: **4700030976**
Date: **24/06/2024**

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

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: **MCL/2024/DW-2806/01**
Collected On: **28-06-2024**

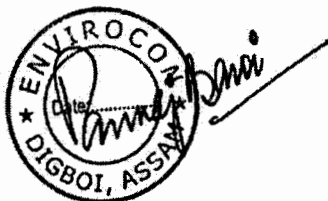
Sample Source: **Residential Colony**
Received On: **30-06-2024**

Sample Type: **Drinking Water**
Collected By: **Envirocon Representative**

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* In the Absence of Alternate Source
1.	Colour, Hazen Units, Max	1	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.05	1	5
5.	pH	6.92	6.5 - 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	64	500	2000
7.	Aluminium (as Al), mg/l, Max.	<0.001	0.03	0.2
8.	Boron (as B), mg/l, Max.	<0.001	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	18	75	200
10.	Chloride (as Cl), mg/l, Max	6.3	250	1000
11.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
12.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
14.	Iron (as Fe), mg/l, Max	<0.02	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	2	30	100
16.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
18.	Nitrate (as NO ₃), mg/l, Max	<0.1	45	No Relaxation
19.	Sulfate (as SO ₄), mg/l, Max	<1	200	400
20.	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max.	<0.001	0.001	0.002
				--Continued--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON



NOTE:

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Report No.: ENV/MCL/24-25/DW-06/01
Date : 08/07/2024

Order No.: 4700030976
Date : 24/06/2024

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

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/DW-2806/01
Collected On : 28-06-2024

Sample Source : Residential Colony
Received On : 30-06-2024

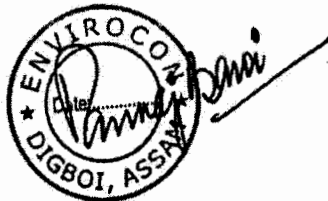
Sample Type : Drinking Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO ₃) , mg/l, Max	43	200	600
22.	Total Hardness, (as CaCO ₃), mg/l, Max	16	200	600
23.	Cadmium (as Cd), mg/l, Max.	<0.001	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	<0.001	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	<0.001	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	<0.001	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	<0.001	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	<0.001	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
31.	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	No Relaxation
32.	Faecal Coliforms / 100 ml	Absent	Absent	Absent
33.	E. Coli / 100 ml	Absent	Absent	Absent
				-End of Report-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

Remarks: Drinking water from the above source is fit for drinking.



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

o/c



To,

Date: 10.07.2024

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 June'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



Neil...
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

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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



Report No.: ENV/MCL/24-25/FE-06/01
Date : 08/07/2024

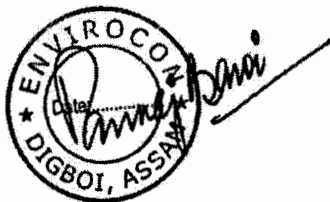
Order No.: 4700030976
Date : 24/06/2024

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	28.06.2024	716	2000
02	Fly Ash Silo Area (CPP)	28.06.2024	725	2000
03	Clinker Loading Point	27.06.2024	1839	5000
04	Raw Material Yard	27.06.2024	692	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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o/c



MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 10.07.2024

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

Dear Sir,

We are herewith submitting the water consumption report of 10 MWCaptive Power Plantfor the month of June'2024.

Month

June'2024

Water Consumption

17,990m³

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

[Handwritten signature]
12/7/24

[Handwritten signature]
Authorized Signatory



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

HELPLINE NO : 18001233666





MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125

etc



To,

Date: 10.07.2024

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 June'2024.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

Blhe
10/7/24

Mukul Chandra
Authorized Signatory



Sales & Marketing Office :
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District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : 03655 278324 / 363 / 364
Fax : 03655 278327
E-mail : meghalaya@topcem.in

HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

FORM - I

(See Rule 4)

Return: Water consumed during the month of June'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 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 MEGHALAYA Cements Ltd. Village - Thangskai P.O - Lumshnong Pin No 793210 Jaintia Hills - MEGHALAYA	2 Domestic purpose	3 River	4 (a) 457798 (b) 61794 (c) 860805	5 (a) 459965 (b) 62788 (c) 862575	6 4931	7 -	8 -	9 Qty. of water consumed from river water = 4,931 + 12,524 = 17,455 KL
	Industrial cooling	River	(a) 308456 (b) 302935 (c) 883137	(a) 314564 (b) 313647 (c) 893996	12524	-	-	Qty of water circulation & returned = 11,917 + 3,238 = 15,155 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 = 29,21,790
Final reading of the return line flow meter at end of month = 29,33,707

(2) Initial reading of S.T.P flow meter at the beginning of the month = 1,80,414
Final reading of S.T.P flow meter at the end of the month = 1,83,652

