

OK



# MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 09.10.2024

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

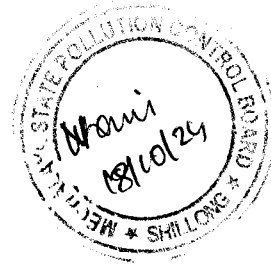
Dear Sir,

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

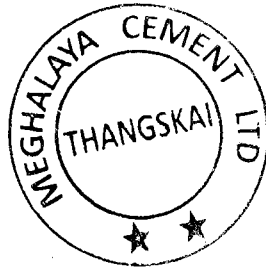
Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



*Momi*  
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 :**  
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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/AA-09/02  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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 <sub>2</sub> (µg/m³)	NO <sub>2</sub> (µg/m³)
	LIMIT(S) →	---	60	100	80	80
01	Near Soil Dump	24.09.2024	33.7	56.3	7.9	8.2
02	Near Haul Road	24.09.2024	35.2	63.9	8.8	9.6
03	Near Lease Boundary	24.09.2024	32.9	55.1	7.5	7.9

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:**

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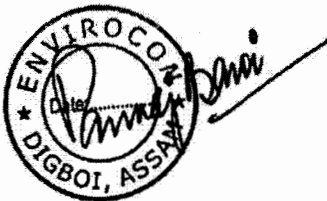
Report No.: ENV/MCL/24-25/N-09/02  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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	24.09.2024	67.5	75	60.5	70
2	Near Soil Dump	24.09.2024	62.8	75	57.3	70
3	Near Lease Boundary	24.09.2024	64.6	75	63.4	70



Checked By: Mr. Pankaj Baroi, ENVIROCON



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Report No.: ENV/MCL/24-25/SW-09/01  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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

### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2609/01  
Collected On : 26-09-2024

Sample Source : Um-Lunar River Upstream  
Received On : 28-09-2024

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.	14	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.6	--	--
4.	pH Value	6.67	6.5 - 8.5	No Relaxation
5.	Suspended Solids	42	--	--
6.	Total Dissolved Solids, mg/l, Max.	128	500	2000
7.	Conductivity, $\mu$ S/cm	181	--	--
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.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max.	8.3	200	600
14.	Calcium (as Ca), mg/l, Max.	22	75	200
15.	Magnesium (as Mg), mg/l, Max.	7	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.	1.7	--	--
19.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> ), mg/l, Max.	5.6	--	--
20.	Free Ammonia (as NH <sub>3</sub> ), 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/24-25/SW-09/02  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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

### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: MCL/2024/SW-2609/02  
Collected On : 26-09-2024

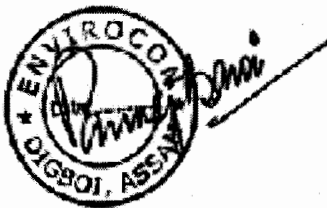
Sample Source : Um-Lunar River Downstream  
Received On : 28-09-2024

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.	16	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.6	--	--
4.	pH Value	6.62	6.5 - 8.5	No Relaxation
5.	Suspended Solids	56	--	--
6.	Total Dissolved Solids, mg/l, Max.	142	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	188	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.8	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	39	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max.	8.8	200	600
14.	Calcium (as Ca), mg/l, Max.	24	75	200
15.	Magnesium (as Mg), mg/l, Max.	8	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.	2.9	--	--
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	6.7	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	--	--

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON



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



# MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 09.10.2024

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

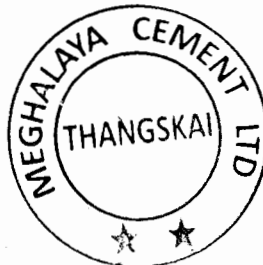
Thanking you Sir,

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

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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/AA-09/01  
Date: 07/10/2024

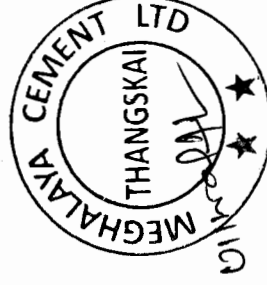
Order No.: 4700031994  
Date: 23/09/2024

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 <sub>2</sub> (µg/m³)	NO <sub>2</sub> (µg/m³)	NH <sub>3</sub> (µg/m³)	CO (mg/m³)	O <sub>3</sub> (µg/m³)	B(a)P (ng/m³)	C <sub>6</sub> H <sub>6</sub> (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	24.09.2024	31.2	56.8	<5.0	<6.0	<5.0	<0.01	<1.0	<0.1	<0.01	<0.01	<0.01	<0.01
Wahiajer Village	25.09.2024	22.5	41.7	<5.0	<6.0	<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-09/03  
Date : 07/10/2024

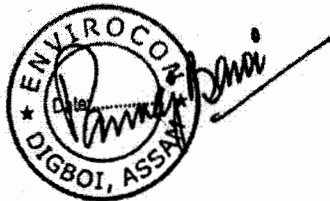
Order No.: 4700031994  
Date : 23/09/2024

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 <sup>3</sup> )	PM 10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
	LIMIT(S) →	---	60	100	80	80
01	Near CCR Building	25.09.2024	33.4	59.1	<5.0	<6.0
02	Near LS Crusher	25.09.2024	39.7	62.5	7.2	7.8
03	Near CPP Area	25.09.2024	41.5	64.7	8.1	9.4

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-09/11  
Date : 07/10/2024

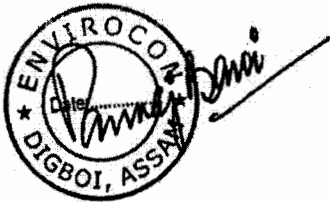
Order No.: 4700031994  
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/11		
02	Date of Sampling	26.09.2024		
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 <sup>3</sup> /hr)	16707		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	14	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-09/12  
Date : 07/10/2024

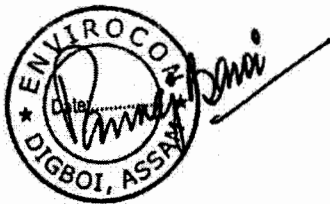
Order No.: 4700031994  
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/12		
02	Date of Sampling	26.09.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Secondary Crusher		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	31		
07	Exit Velocity of Gas (m/sec)	4.6		
08	Flow Rate (Nm <sup>3</sup> /hr)	12751		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
I	Particulate Matter	17	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>1. Results reported are valid at the time of and under the prevailing conditions of measurement.</li> <li>2. Results refer only to the particular parameters tested.</li> <li>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.</li> </ol>
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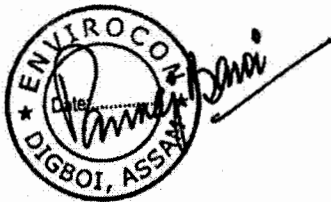
Report No.: ENV/MCL/24-25/SE-09/07  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/07		
02	Date of Sampling	25.09.2024		
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)	17.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	292483		
09	Type of Fuel Used	Kiln Coal		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	652	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	282	mg/Nm <sup>3</sup>	600



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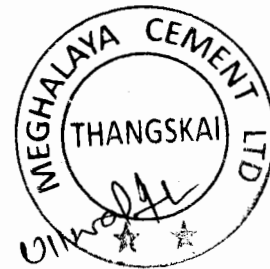
Report No.: ENV/MCL/24-25/SE-09/08  
 Date : 07/10/2024

Order No.: 4700031994  
 Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/08		
02	Date of Sampling	25.09.2024		
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)	167		
07	Exit Velocity of Gas (m/sec)	16.8		
08	Flow Rate (Nm <sup>3</sup> /hr)	252254		
09	Type of Fuel Used	Kiln Coal		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	667	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	293	mg/Nm <sup>3</sup>	600



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-09/01  
 Date : 07/10/2024

Order No.: 4700031994  
 Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/01		
02	Date of Sampling	24.09.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill – 1		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	12.6		
08	Flow Rate (Nm <sup>3</sup> /hr)	45350		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm <sup>3</sup>	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/24-25/SE-09/02  
 Date : 07/10/2024

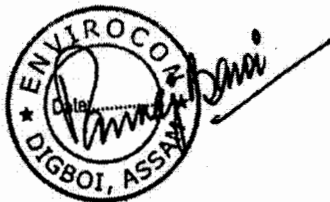
Order No.: 4700031994  
 Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/02		
02	Date of Sampling	24.09.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill - 2		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	49		
07	Exit Velocity of Gas (m/sec)	11.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	40812		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
I.	Particulate Matter	23	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:**

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Report No.: ENV/MCL/24-25/SE-09/05  
 Date : 07/10/2024

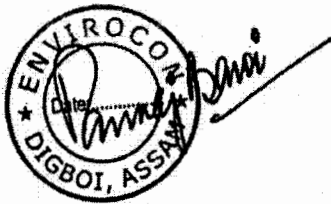
Order No.: 4700031994  
 Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/05		
02	Date of Sampling	24.09.2024		
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)	113		
07	Exit Velocity of Gas (m/sec)	7.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	123233		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i	Particulate Matter	26	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-09/06  
Date : 07/10/2024

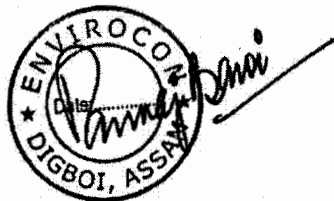
Order No.: 4700031994  
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/06		
02	Date of Sampling	25.09.2024		
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)	118		
07	Exit Velocity of Gas (m/sec)	7.6		
08	Flow Rate (Nm <sup>3</sup> /hr)	128416		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>1. Results reported are valid at the time of and under the prevailing conditions of measurement.</li> <li>2. Results refer only to the particular parameters tested.</li> <li>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.</li> </ol>
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Report No.: ENV/MCL/24-25/SE-09/09  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/09		
02	Date of Sampling	25.09.2024		
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)	64		
07	Exit Velocity of Gas (m/sec)	12.7		
08	Flow Rate (Nm <sup>3</sup> /hr)	45730		
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 <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-09/10  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/10		
02	Date of Sampling	25.09.2024		
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)	70		
07	Exit Velocity of Gas (m/sec)	15.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	53775		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>1. Results reported are valid at the time of and under the prevailing conditions of measurement.</li> <li>2. Results refer only to the particular parameters tested.</li> <li>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</li> </ol>
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Report No.: ENV/MCL/24-25/SE-09/03  
Date : 07/10/2024

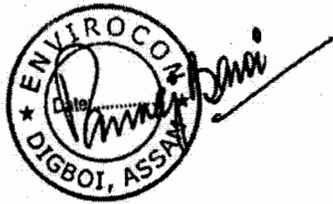
Order No.: 4700031994  
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/03		
02	Date of Sampling	24.09.2024		
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)	28		
07	Exit Velocity of Gas (m/sec)	12.4		
08	Flow Rate (Nm <sup>3</sup> /hr)	12290		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i	Particulate Matter	23	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-09/04

Date : 07/10/2024

Order No.: 4700031994

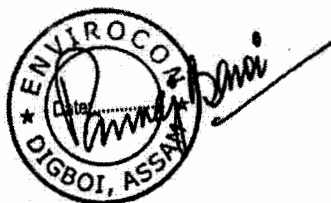
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/04		
02	Date of Sampling	24.09.2024		
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)	30		
07	Exit Velocity of Gas (m/sec)	14.9		
08	Flow Rate (Nm <sup>3</sup> /hr)	41439		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
I.	Particulate Matter	27	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/SE-09/13  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	MCL/2024/SE-09/13		
02	Date of Sampling	26.09.2024		
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)	7.6		
08	Flow Rate (Nm³/hr)	110199		
09	Type of Fuel Used	Coal		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	43	mg/Nm³	50
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	418	mg/Nm³	600
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	185	mg/Nm³	300
iv.	Mercury (as Hg)	<0.001	mg/Nm³	0.03



Checked By: Mr. Pankaj Baroi, ENVIROCON

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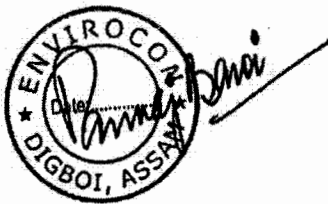
Report No.: ENV/MCL/24-25/N-09/01  
 Date : 07/10/2024

Order No.: 4700031994  
 Date : 23/09/2024

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	25.09.2024	48.3	55	42.4	45
2	Near L.S Crusher	25.09.2024	71.6	75	67.9	70
3	Thangskai Village	25.09.2024	41.3	55	36.2	45
4	Near CCR Building	25.09.2024	70.1	75	66.4	70



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Report No.: ENV/MCL/24-25/SW-09/01

Order No.: 4700031994

Date : 07/10/2024

Date : 23/09/2024

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

### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2609/01

Sample Source : Um-Lunar River Upstream

Sample Type : Surface Water

Collected On : 26-09-2024

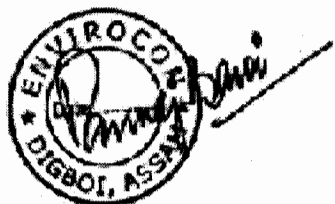
Received On : 28-09-2024

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	14	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.6	--	--
4.	pH Value	6.67	6.5 - 8.5	No Relaxation
5.	Suspended Solids	42	--	--
6.	Total Dissolved Solids, mg/l, Max.	128	500	2000
7.	Conductivity, $\mu$ S/cm	181	--	--
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.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max.	8.3	200	600
14.	Calcium (as Ca), mg/l, Max.	22	75	200
15.	Magnesium (as Mg), mg/l, Max.	7	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.	1.7	--	--
19.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> ), mg/l, Max.	5.6	--	--
20.	Free Ammonia (as NH <sub>3</sub> ), 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-09/02  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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

**SURFACE WATER ANALYSIS RESULTS**

Sample Ref. No. : MCL/2024/SW-2609/02  
Collected On : 26-09-2024

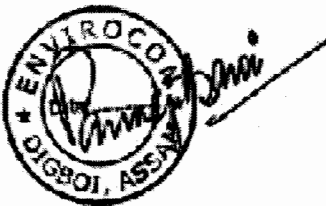
Sample Source : Um-Lunar River Downstream  
Received On : 28-09-2024

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.	16	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.6	--	--
4.	pH Value	6.62	6.5 - 8.5	No Relaxation
5.	Suspended Solids	56	--	--
6.	Total Dissolved Solids, mg/l, Max.	142	500	2000
7.	Conductivity, $\mu$ S/cm	188	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.8	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	39	--	--
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 <sub>3</sub> ), mg/l, Max.	8.8	200	600
14.	Calcium (as Ca), mg/l, Max.	24	75	200
15.	Magnesium (as Mg), mg/l, Max.	8	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.	2.9	--	--
19.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> ), mg/l, Max.	6.7	--	--
20.	Free Ammonia (as NH <sub>3</sub> ), 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/WW-09/01  
 Date : 07/10/2024

Order No.: 4700031994  
 Date : 23/09/2024

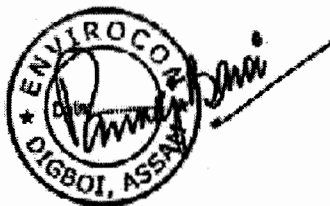
Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**  
 Village: Thangskai; PO: Lumshnong, Meghalaya

**WASTE WATER ANALYSIS RESULTS**

Sample Ref. No. : MCL/2024/ETP-2609/01      Sample Source : ETP Outlet (MCL)      Sample Type : ETP Treated Water  
 Collected On : 26-09-2024      Received On : 28-09-2024      Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 422(E), 19.05.1993]
1	Ph	6.81	6.5 – 9.0
2	Temperature, °C	25.6	shall not exceed 5°C above the receiving water temperature
3	Total Suspended Solids (as TSS), mg/l	38	100
4	Biochemical Oxygen Demand (as BOD), mg/l	23	30
5	Chemical Oxygen Demand (as COD), mg/l	75	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	26	50
9	Total Kjeldahl Nitrogen (as NH <sub>3</sub> ), mg/l	42	100
10	Free Ammonia (as NH <sub>3</sub> ), mg/l	<0.01	5.0

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/24-25/WW-09/02  
Date : 07/10/2024

Order No.: 4700031994  
Date : 23/09/2024

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

**WASTE WATER ANALYSIS RESULTS**

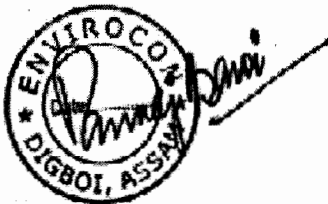
Sample Ref. No. : MCL/2024/STP-2609/02      Sample Source : STP Outlet (MCL)      Sample Type : STP Treated Water  
Collected On : 26-09-2024      Received On : 28-09-2024      Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	Ph	7.13	6.5 – 9.0
2	Total Suspended Solids (as TSS), mg/l	33	<100
3	Fecal Coliform (as FC), MPN/100 ml	655	<1000
4	Biochemical Oxygen Demand (as BOD), mg/l	19	30
5	Chemical Oxygen Demand (as COD), mg/l	83	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	3.9	50*
9	Total Kjeldahl Nitrogen (as NH <sub>3</sub> ), mg/l	8.8	100*
10	Free Ammonia (as NH <sub>3</sub> ), mg/l	<0.01	5.0*

Analysis Protocol: IS 3025

MPN: Most Probable Number

\*Limit as per G.S.R. 422(E), 19.05.1993



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.



# MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 09.10.2024

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

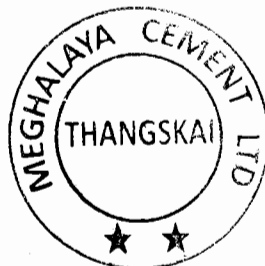


Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

*Neil...*  
Authorized Signatory



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

Report No.: ENV/MCL/24-25/FE-09/01

Date : 07/10/2024

Order No.: 4700031994

Date : 23/09/2024

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	26.09.2024	964	2000
02	CPP Coal Storage	26.09.2024	891	2000
03	Clinker Loading Point	24.09.2024	2257	5000
04	Raw Material Yard	24.09.2024	1247	5000

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
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  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

September'2024

Date of Testing	Location	Fugitive Emission Results for SPM ( $\mu\text{g}/\text{m}^3$ )	As per the Standard Limit ( $\mu\text{g}/\text{m}^3$ )
03.09.2024	Lime stone Storage Area	1024	5000
04.09.2024	Coal Storage Area	982	2000
07.09.2024	Clinker Loading Area	2254	5000
08.09.2024	Cement Loading Area	2144	5000
10.09.2024	Coal Storage Area (CPP)	1247	2000
11.09.2024	Fly Ash Silo Area (CPP)	967	2000

Prepared by  
(Abhigyan Gautam)



Checked & Verified by  
*Ujjwal Anurag*  
(Ujjwal Anurag)

01c



# MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125



To,

Date: 09.10.2024

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 September'2024.

Month

September'2024

Water Consumption

13,487m<sup>3</sup>

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



*Mukul...*  
Authorized Signatory



**Sales & Marketing Office :**  
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E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666



# MEGHALAYA CEMENTS LIMITED

CIN-U26942ML2003PLC007125

01c



To,

Date: 09.10.2024

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

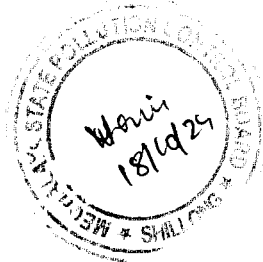
Dear Sir,

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

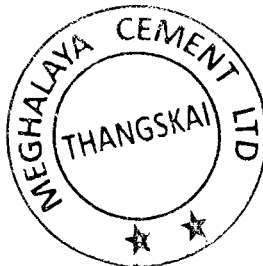
Thanking you Sir,

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 September' 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	River	(a) 463758 (b) 64964 (c) 865173	(a) 465749 (b) 65978 (c) 866897	4729	-	-	Qty. of water consumed from river water = 4,729 + 12,883 = 17,612 KL
	Industrial cooling	River	(a) 326978 (b) 335465 (c) 911867	(a) 334154 (b) 347851 (c) 919944	12883	-	-	Qty of water circulation & returned = 11,633 + 3,123 = 14,756 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, 52,637 Final reading of the return line flow meter at end of month= 29, 64,270

(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, 91,736



Name of Customer  
Address