



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 06.07.2023

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

Dear Sir,

We are herewith submitting the Ambient Air Quality Survey report, Ambient Noise Survey report and Water Analysis report for the month of **June'2023** for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**

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

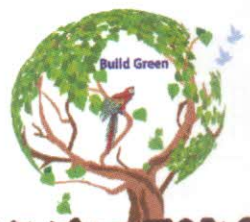


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District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : 03655 278324 / 363 / 364
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E-mail : meghalaya@topcem.in

HELPLINE NO : 18001233666



Report No.: ENV/MCL/23-24/AA-06/02
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →		60	100	80	80
01	Drilling Point	24.06.2023	26.4	55.2	BDL	BDL
02	Hauling Point	24.06.2023	29.1	58.6	BDL	BDL
03	Blasting Point	24.06.2023	34.2	69.3	BDL	BDL

Analysis Protocol: IS 5182

BDL: Below Detection Level



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

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

M/s MEGHALAYA CEMENTS LIMITED
AMBIENT AIR QUALITY SURVEY

MCL/ENV/LSM-AAQM/2023-24

Location of sampling	South Khliehji Limestone Mine (31.05 Ha)
Date duration of sampling	12.06.2023 to 13.06.2023
Time Duration of sampling	48 hours
Weather	Cloudy
Total Rain Fall, mm (On Date)	19.00 mm
Ambient Temperature (°C) :	Max. - 24.94°C, Min. - 19.21°C
Relative Humidity (%) :	Max. - 107.76%, Min. - 84.07%
Wind direction	→S (105.86°)


Pollutants	Analysis Results			Permissible Limits for Rural Areas (By MSPCB 24 hrs Monitoring)
	Station No. & Air Quality Survey No.			
	A1. North -East (Near Soil Dump) D/25/2023-24	A2. North - West (Near Haul Road) D/26/2023-24	A3.Southern side (Near Lease Boundary) D/27/2023-24	
	48 hrs.	48 hrs	48 hrs	
Particulate Matters PM10 (µg/m³)	31.29	39.81	29.92	100
Particulate Matters PM2.5 (µg/m³)	22.09	26.64	20.48	60

Remarks : The Parameters analysed were found to be within the permissible Limits of Ambient Air Quality Standards (National) for Rural Areas as per EPA Notification GSR 176, April 1996.

Prepared by


(Arti Singh)

Checked & Verified By


(Ujjwal Anurag)

Report No.: ENV/MCL/23-24/N-06/02

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Drilling Point	23.06.2023	67.4	75	35.8	70
2	Hauling Point	23.06.2023	62.4	75	33.1	70



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Date : 05/07/2023

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Date : 13/06/2023

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

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Residential Colony	22.06.2023	46.7	55	33.7	45
2	Thangskai Village	22.06.2023	44.8	55	32.8	45
3	Wahiajer Village	23.06.2023	42.3	55	35.4	45



Checked By: Mr. Pankaj Baroi, ENVIROCON

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M/s MEGHALAYA CEMENTS LIMITED
NOISE LEVEL AT MINES SITE

MCL/ENV/LSM-NL/2023-24

Date: 23.06.2023

LOCATION BETWEEN INTERNAL ROADS AND BENCHES 2,3 IN
SOUTH & WEST DIRECTION OF SOUTH KHLIEHJARI Limestone MINES

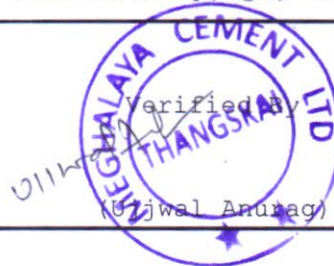
TIME	NOISE LEVEL (dB)
	60.8
6.00 AM	61.4
	61.1
	62.0
7.00 AM	60.4
	59.8
	61.1
8.00 AM	61.4
	63.1
	61.7
9.00 AM	61.1
	62.0
	63.1
10.00 AM	63.6
	64.3
	64.9
11.00 AM	64.3
	63.9
	63.1
12.00 AM	64.9
	64.8
	64.3
1.00 PM	64.9
	64.3
	64.2
2.00 PM	64.0
	64.9
	64.7
3.00 PM	64.9
	63.7
	64.9
4.00 PM	67.4
	64.9
	64.3
5.00 PM	65.2
	61.9
	62.0
6.00 PM	64.0
	67.0

TIME	NOISE LEVEL (dB)
	60.3
7.00 PM	60.9
	59.6
	58.4
8.00 PM	59.2
	59.6
	61.1
9.00 PM	57.6
	58.4
Noise Level, Leq (day) = 62.70 dB	

TIME	NOISE LEVEL (dB)
	41.9
10.00 PM	39.8
	41.9
	38.8
11.00 PM	38.6
	40.2
	40.8
12.00 PM	39.3
	38.5
	37.6
1.00 AM	37.3
	36.4
	38.3
2.00 AM	38.4
	39.3
	38.4
3.00 AM	39.4
	38.4
	37.5
4.00 AM	38.3
	37.4
	37.6
5.00 AM	38.5
	39.4
Noise Level, Leq (Night) = 38.80 dB	

Prepared By


(Arti Singh)



Report No.: ENV/MCL/23-24/SW-06/01
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-2506/01
Collected On : 25-06-2023

Sample Source : Um-Lunar River Upstream
Received On : 27-06-2023

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	10	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.7	--	--
4.	pH Value	6.71	6.5 - 8.5	No Relaxation
5.	Suspended Solids	31	--	--
6.	Total Dissolved Solids, mg/l, Max.	131	500	2000
7.	Conductivity, μ S/cm	198	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.5	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	31	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	6.9	200	600
14.	Calcium (as Ca), mg/l, Max.	14	75	200
15.	Magnesium (as Mg), mg/l, Max.	1	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.	7.7	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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

Report No.: ENV/MCL/23-24/SW-06/02
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-2506/02
Collected On : 25-06-2023

Sample Source : Um-Lunar River Downstream
Received On : 27-06-2023

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	8	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	31	--	--
6.	Total Dissolved Solids, mg/l, Max.	129	500	2000
7.	Conductivity, μ S/cm	209	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.6	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	28	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	6.4	200	600
14.	Calcium (as Ca), mg/l, Max.	15	75	200
15.	Magnesium (as Mg), mg/l, Max.	1	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	1.8	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	6.9	--	--
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/23-24/WW-06/02

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/STP-2506/01

Sample Source : STP Outlet (MCL)

Sample Type : ETP Treated Water

Collected On : 25-06-2023

Received On : 27-06-2023

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	Ph	7.19	6.5 – 9.0
2	Total Suspended Solids (as TSS), mg/l	38	<100
3	Fecal Coliform (as FC), MPN/100 ml	648	<1000
4	Biochemical Oxygen Demand (as BOD), mg/l	15	30
5	Chemical Oxygen Demand (as COD), mg/l	79	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	3.2	50*
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	8.1	100*
10	Free Ammonia (as NH ₃), 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



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Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/ETP-2506/01

Sample Source : ETP Outlet (MCL)

Sample Type : ETP Treated Water

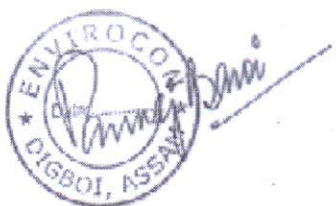
Collected On : 25-06-2023

Received On : 27-06-2023

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 422(E), 19.05.1993]
1	Ph	6.88	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	34	100
4	Biochemical Oxygen Demand (as BOD), mg/l	20	30
5	Chemical Oxygen Demand (as COD), mg/l	76	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	18	50
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	31	100
10	Free Ammonia (as NH ₃), mg/l	<0.01	5.0

Analysis Protocol: IS 3025



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MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 06.07.2023

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


Dear Sir,

We are herewith submitting the Ambient Air Quality survey report along with stack analysis report, Ambient Noise survey report and Water analysis report for the month of **June'2023** for **2600 TPD Cement Manufacturing Plant** along with **10 MW Captive Power Plant** report respectively.

Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**


R.K. Pareek
(Sr. President)



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HELPLINE NO : 18001233666



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Date : 05/07/2023

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Date : 13/06/2023

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

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →					
		---	60	100	80	80
01	Residential Colony	23.06.2023	19.6	43.2	7.2	9.1
02	Near DG House	23.06.2023	24.9	49.6	7.6	8.3
03	Near Primary Crusher	23.06.2023	27.4	53.6	7.9	8.9

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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MEGHALAYA CEMENTS LIMITED

AMBIENT AIR QUALITY SURVEY

Location of sampling		MCL, Thangskai			
Date of sampling		12.06.2023 & 13.06.2023			
Distance between the industry and sampling Location		100.0 meters 20.00 meters 25.00 meters 10.00 meters			
Time duration of sampling		48 hrs			
Weather		Cloudy			
Total Rainfall, mm(On Date)		10.25 mm			
Ambient Temperature(⁰ C)):					
Maximum:		24.94			
Minimum:		19.21			
Relative Humidity (%):					
Maximum:		107.26			
Minimum:		84.07			
Wind direction (in Degree)		→ E (109.29)			
Pollutants	Analysis results				Permissible Limits For Rural Areas (By MSPCB 24hrs Monitoring)
	Station No. & Air Quality Survey No.				
	1)Opposite Guest house A/09/2023-24	2)Near L/S Crusher A/10/2023-24	3)Near Substation (DW Direction) A/11/2023-24	4) Near CCR Building A/12/2023-24	
	24 hrs.	24 hrs.	24 hrs.	24 hrs.	
Suspended Particulate Matters PM ₁₀ (µg/m ³)	36.54	52.47	46.32	33.12	100µg/m ³
Suspended Particulate Matters PM _{2.5} (µg/m ³)	26.87	22.51	20.05	18.23	60µg/m ³

Remarks: The parameters were analyzed and found within the permissible limits of Ambient Air Quality Standards (National) as per as the EPA Notification G.S.R.826 (E) dated 16th Nov'2009.

Prepared by

(Arti Singh)
(Arti Singh)

Checked & Verified by

(Ujjwal Anurag)
(Ujjwal Anurag)

MEGHALAYA CEMENTS LIMITED

CPP AMBIENT AIR QUALITY SURVEY

Location of sampling	CPP, MCL, Thangskai		
Date of sampling	24.06.2023		
Distance between the industry and sampling Location	25.0 meters 25.0 meters 25.0 meters		
Time duration of sampling	24 hrs		
Weather	Clear		
Total Rainfall, mm(On Date)	0.00 mm		
Ambient Temperature(⁰ C):			
Maximum:	30.61		
Minimum:	19.89		
Relative Humidity (%):			
Maximum:	101.33		
Minimum:	69.44		
Wind direction (in Degree)	→SE (129.38)		
Pollutants	Analysis results		
	Station No. & Air Quality Survey No.		
	1)Old Yard side S to E B/07/2023-24	2)Labour colony side S to W B/08/2023-24	3)JUNGLE Side N to E B/09/2023-24
	24 hrs.	24 hrs.	24 hrs.
Suspended Particulate Matters PM ₁₀ (µg/m ³)	22.89	25.21	32.65
Suspended Particulate Matters PM _{2.5} (µg/m ³)	19.42	17.73	26.54
			Permissible Limits For Rural Areas (By MSPCB 24hrs Monitoring)
			100µg/m ³
			60µg/m ³

Remarks: The parameters were analyzed and found within the permissible limits of Ambient Air Quality Standards (National) as per as the EPA Notification G.S.R.826 (E) dated 16th Nov:2009.

Prepared by

(Arti Singh)

Checked & Verified by

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Date : 05/07/2023

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Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/11		
02	Date of Sampling	24.06.2023		
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)	6.7		
08	Flow Rate (Nm³/hr)	26651		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	14	mg/Nm³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-06/12
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/12		
02	Date of Sampling	24.06.2023		
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)	8.4		
08	Flow Rate (Nm³/hr)	23285		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-06/01

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/01		
02	Date of Sampling	22.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill – 1		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	10.6		
08	Flow Rate (Nm³/hr)	38152		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-06/02
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/02		
02	Date of Sampling	22.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill – 2		
05	Stack Diameter (Meter)	1.18		
06	Flue Gas Temperature (°C)	48		
07	Exit Velocity of Gas (m/sec)	17.5		
08	Flow Rate (Nm³/hr)	63968		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-06/04

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/04		
02	Date of Sampling	23.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	RABH (Kiln & Raw Mill)- 1		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	183		
07	Exit Velocity of Gas (m/sec)	23.8		
08	Flow Rate (Nm³/hr)	395840		
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	17	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	674	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	415	mg/Nm³	600



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-06/05
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/05		
02	Date of Sampling	23.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	RABH (Kiln & Raw Mill)- 2		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	180		
07	Exit Velocity of Gas (m/sec)	20.8		
08	Flow Rate (Nm³/hr)	303352		
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	20	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	695	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	453	mg/Nm³	600



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Report No.: ENV/MCL/23-24/SE-06/03
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/03		
02	Date of Sampling	22.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P. – 1		
05	Stack Diameter (Meter)	2.8		
06	Flue Gas Temperature (°C)	224		
07	Exit Velocity of Gas (m/sec)	8.3		
08	Flow Rate (Nm³/hr)	110332		
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/Nm³	30

*NA: Not Applicable



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

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/06		
02	Date of Sampling	23.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E. S. P. – 2		
05	Stack Diameter (Meter)	2.8		
06	Flue Gas Temperature (°C)	219		
07	Exit Velocity of Gas (m/sec)	9.6		
08	Flow Rate (Nm³/hr)	128910		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-06/13

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/13		
02	Date of Sampling	25.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 1		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	67		
07	Exit Velocity of Gas (m/sec)	16.3		
08	Flow Rate (Nm³/hr)	58175		
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/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-06/07

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

01	Test Ref. No.	MCL/2023/SE-06/07		
02	Date of Sampling	23.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill No. 2		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	71		
07	Exit Velocity of Gas (m/sec)	14.7		
08	Flow Rate (Nm³/hr)	51854		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm³	30

*NA: Not Applicable

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

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Report No.: ENV/MCL/23-24/SE-06/09
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/09		
02	Date of Sampling	24.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing Plant No. 1		
05	Stack Diameter (Meter)	0.6		
06	Flue Gas Temperature (°C)	30		
07	Exit Velocity of Gas (m/sec)	14.7		
08	Flow Rate (Nm³/hr)	14474		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	15	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/MCL/23-24/SE-06/10

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/10		
02	Date of Sampling	24.06.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing Plant No. 2		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	32		
07	Exit Velocity of Gas (m/sec)	13.5		
08	Flow Rate (Nm³/hr)	37299		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm³	30

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-06/08

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	MCL/2023/SE-06/08		
02	Date of Sampling	24.06.2023		
03	Material of Construction	Refractory Brick		
04	Stack Attached To	Captive Power Plant (CPP)		
05	Stack Diameter (Meter)	2.53		
06	Flue Gas Temperature (°C)	82		
07	Exit Velocity of Gas (m/sec)	9.2		
08	Flow Rate (Nm³/hr)	139787		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	41	mg/Nm³	50
ii.	Sulphur Dioxide (as SO₂)	406	mg/Nm³	600
iii.	Oxides of Nitrogen (as NOₓ)	190	mg/Nm³	300



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Report No.: ENV/MCL/23-24/N-06/01
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Residential Colony	22.06.2023	46.7	55	33.7	45
2	Thangskai Village	22.06.2023	44.8	55	32.8	45
3	Wahiajer Village	23.06.2023	42.3	55	35.4	45



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SW-06/01
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-2506/01
Collected On : 25-06-2023

Sample Source : Um-Lunar River Upstream
Received On : 27-06-2023

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	10	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.7	--	--
4.	pH Value	6.71	6.5 - 8.5	No Relaxation
5.	Suspended Solids	31	--	--
6.	Total Dissolved Solids, mg/l, Max.	131	500	2000
7.	Conductivity, μ S/cm	198	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.5	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	31	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	6.9	200	600
14.	Calcium (as Ca), mg/l, Max.	14	75	200
15.	Magnesium (as Mg), mg/l, Max.	1	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.	7.7	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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

Report No.: ENV/MCL/23-24/SW-06/02
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/SW-2506/02
Collected On : 25-06-2023

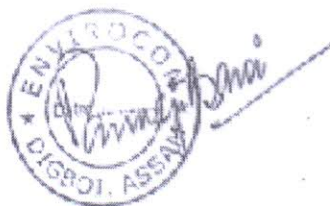
Sample Source : Um-Lunar River Downstream
Received On : 27-06-2023

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	8	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	31	--	--
6.	Total Dissolved Solids, mg/l, Max.	129	500	2000
7.	Conductivity, μ S/cm	209	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.6	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	28	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	6.4	200	600
14.	Calcium (as Ca), mg/l, Max.	15	75	200
15.	Magnesium (as Mg), mg/l, Max.	1	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	1.8	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	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.

Report No.: ENV/MCL/23-24/WW-06/02
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2023/STP-2506/01
Collected On : 25-06-2023

Sample Source : STP Outlet (MCL)
Received On : 27-06-2023

Sample Type : ETP Treated Water
Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	Ph	7.19	6.5 – 9.0
2	Total Suspended Solids (as TSS), mg/l	38	<100
3	Fecal Coliform (as FC), MPN/100 ml	648	<1000
4	Biochemical Oxygen Demand (as BOD), mg/l	15	30
5	Chemical Oxygen Demand (as COD), mg/l	79	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	3.2	50*
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	8.1	100*
10	Free Ammonia (as NH ₃), 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

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Report No.: ENV/MCL/23-24/WW-06/02
Date : 05/07/2023

Order No.: 4700026718
Date : 13/06/2023

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No.: MCL/2023/STP-2506/01
Collected On : 25-06-2023

Sample Source : STP Outlet (MCL)
Received On : 27-06-2023

Sample Type : ETP Treated Water
Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
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3	Fecal Coliform (as FC), MPN/100 ml	648	<1000
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5	Chemical Oxygen Demand (as COD), mg/l	79	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	3.2	50*
9	Total Kjeldahl Nitrogen (as NH ₃), mg/l	8.1	100*
10	Free Ammonia (as NH ₃), 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

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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: 06.07.2023

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

Dear Sir,

We are herewith submitting the Process Fugitive Emission report of the month June'2023 for 2600 TPD Cement Manufacturing Plant along with 10 MW Captive Power Plant report respectively.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

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



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 2345421/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
Web : www.topcem.in

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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/23-24/FE-06/01

Date : 05/07/2023

Order No.: 4700026718

Date : 13/06/2023

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

PROCESS FUGITIVE EMISSION TEST RESULTS

Sl. No.	Locations	Date of Sampling	Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
01	Lime Stone Storage Area	22.06.2023	1153	5000
02	Coal Yard CPP Side	22.06.2023	567	2000
03	Crushing Point	23.06.2023	2238	5000
04	Loading Point	23.06.2023	2179	5000

Analysis Protocol: IS 5182



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

NOTE:

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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: 06.07.2023

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

Dear Sir,


We are herewith submitting the water consumption report of 10 MW Captive Power Plant for the month of **June'2023**.

<u>Month</u>	<u>Water Consumption</u>
June'2023	28,277.00 m3

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED


R.K. Pareek
(Sr. President)



Sales & Marketing Office :
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G.S. Road, Guwahati - 781 005
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Registered Office :
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District : East Jaintia Hills, Meghalaya, PIN: 793210
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Fax : 03655 278327
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 06.07.2023

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


Dear Sir,

We are herewith submitting the water consumption report of 2600 TPD Cement Manufacturing Plant for the month of June'2023.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED


R.K. Pareek
(Sr. President)



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E-mail : meghalaya@topcem.in

HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

FORM - I

(See Rule 4)

Return: Water consumed during the month of June' 2023

Name and Address of the consumer	Purpose for which water consumed	Source Tube Well River etc	Reading at the beginning of the first day of the calendar month under report	Reading at the end of the last day of the calendar month under report	Quantity of water consumed in Kilolitres	If the meter was out of order the monthly average consumption of water for the previous 3 month of working periods	Quantity of water qualifying for rebate according to the assesses	Remarks (*)
1	2	3	4	5	6	7	8	9
MEGHALAYA Cements Ltd. Village - Thangskai P.O - Lumshnong Pin No 793210 Jaintia Hills - MEGHALAYA	Domestic purpose	River	(a) 433536 (b) 048224 (c) 842782	(a) 435818 (b) 049754 (c) 844051	5,081	-	-	Qty. of water consumed from river water = 5,081 + 13,461 = 18,542 KL
	Industrial cooling	River	a) 229837 b) 179555 c) 757614	a) 239951 b) 189992 c) 769234	13,461	-	-	Qty of water circulation & returned = 14,950 + 3,760 = 18,710 KL
	Industrial Purpose	-	-	-	Nil	-	-	-

For claiming the rebate under the column 7, the assesses has indicated in this column that has been analytical and the test report were annexed in this return to support the claim.

Note: (1) Initial reading of the return line flow meter at the beginning of the month = 2,783,351
Final reading of the return line flow meter at end of month = 2,798,301

(2) Initial reading of S.T.P flow meter at the beginning of the month = 142,773
Final reading of S.T.P flow meter at the end of the month = 146,533



Name of Customer
Address