



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 04.12.2021

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

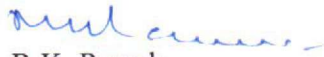
Dear Sir,

We are herewith submitting the Ambient Air Quality survey report along with stack analysis report for the month of **November'2021** 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
(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

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

MEGHALAYA CEMENTS LIMITED

AMBIENT AIR QUALITY SURVEY

| | | | | | |
|--|--|--|--|--------------------------------------|--|
| Location of sampling | | MCL, Thangskai | | | |
| Date of sampling | | 28.11.2021 & 29.11.2021 | | | |
| 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 | | Clear | | | |
| Total Rainfall, mm(On Date) | | 00.00 mm | | | |
| Ambient Temperature(⁰ C): | | | | | |
| Maximum: | | 22.93 | | | |
| Minimum: | | 12.68 | | | |
| Relative Humidity (%): | | | | | |
| Maximum: | | 85.55 | | | |
| Minimum: | | 42.79 | | | |
| Wind direction | | → S (192.28) | | | |
| Pollutants | Analysis results | | | | Permissible Limits For Rural Areas (By MSPCB 24hrs Monitoring) |
| | Station No. & Air Quality Survey No. | | | | |
| | 1)Opposite Guest house A/29/2021-22 | 2)Near L/S Crusher A/30/2021-22 | 3)Near Substation (DW Direction) A/31/2021-22 | 4) Near CCR Building A/32/2021-22 | |
| | 24 hrs. | 24 hrs. | 24 hrs. | 24 hrs. | |
| Suspended Particulate Matters PM ₁₀ (µg/m ³) | 51.36 | 62.59 | 69.28 | 63.47 | 100µg/m ³ |
| Suspended Particulate Matters PM _{2.5} (µg/m ³) | 26.44 | 30.68 | 37.09 | 29.45 | 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

(Kamalesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

CPP AMBIENT AIR QUALITY SURVEY

| Location of sampling | CPP, MCL, Thangskai | | |
|---|---|--|--|
| Date of sampling | 30.11.2021 | | |
| 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: | 22.66 | | |
| Minimum: | 12.47 | | |
| Relative Humidity (%): | | | |
| Maximum: | 78.47 | | |
| Minimum: | 47.31 | | |
| Wind direction | →SW(235.38) | | |
| Pollutants | Analysis results | | |
| | Station No. & Air Quality Survey No. | | |
| | 1)Old Yard side S to E B/22/2021-22 | 2)Labour colony side S to W B/23/2021-22 | 3)JUNGLE Side N to E B/24/2021-22 |
| | 24 hrs. | 24 hrs. | 24 hrs. |
| Suspended Particulate Matters PM ₁₀ (µg/m ³) | 42.59 | 39.07 | 33.18 |
| Suspended Particulate Matters PM _{2.5} (µg/m ³) | 21.47 | 25.99 | 29.67 |
| | | | 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

(Kamalesh Kr.Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai

Date of Sampling : 03.11.2021

Type of Stack : Coal Mill-1

Laboratory reference No : S/92/2021-22

Parameters:

1) Particulate Matter (PM): mg/Nm^3

21.59 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by

(Kamalesh Kr. Choudhary)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 03.11.2021
Type of Stack : Coal Mill-2
Laboratory reference No : S/93/2021-22

Parameters:


1) Particulate Matter (PM): mg/Nm^3
10.67 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamlesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

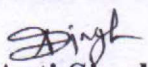
Name of sampling Location : MCL, Thangskai
Date of Sampling : 06.11.2021
Type of Stack : Packing Plant-1
Laboratory reference No : S/94/2021-22

Parameters:

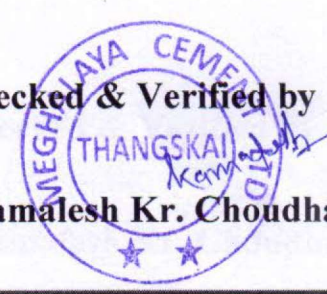
1) Particulate Matter (PM): mg/Nm^3
20.58 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamalesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

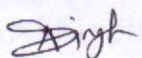
Name of sampling Location : MCL, Thangskai
Date of Sampling : 06.11.2021
Type of Stack : Packing Plant-2
Laboratory reference No : S/95/2021-22

Parameters:


1) Particulate Matter (PM): mg/Nm^3
17.41 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamallesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 08.11.2021
Type of Stack : Cement Mill No-1
Laboratory reference No : S/96/2021-22

Parameters:

1) Particulate Matter (PM): mg/Nm^3
16.29 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamalesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

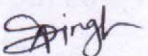
Name of Sampling Location : MCL, Thangskai
Date of Sampling : 08.11.2021
Type of Stack : Cement Mill No-2
Laboratory reference No : S/97/2021-22

Parameters:

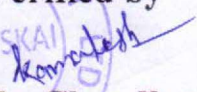
1) Particulate Matter (PM): mg/Nm^3
18.41 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamalesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 05.11.2021
Type of Stack : Primary Crusher
Laboratory reference No : S/98/2021-22

Parameters:

1) Particulate Matter (PM): mg/Nm^3

29.35 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamalesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

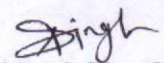
Name of sampling Location : MCL, Thangskai
Date of Sampling : 05.11.2021
Type of Stack : Secondary Crusher
Laboratory reference No : S/99/2021-22

Parameters:


1) Particulate Matter (PM): mg/Nm^3
23.22 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamallesh Kr. Choudhary)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 12.11.2021
Type of Stack : Cooler E.S.P-1
Laboratory reference No : S/100/2021-22

Parameters:


1) Particulate Matter (PM): mg/Nm^3
21.65 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamatesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 13.11.2021
Type of Stack : Cooler E.S.P-2
Laboratory reference No : S/101/2021-22

Parameters:


1) Particulate Matter (PM): mg/Nm^3
28.91 mg/Nm^3

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamalesh Kr. Choudhary)



MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 15.11.2021
Type of Stack : Kiln & Raw Mill (RABH-1)
Laboratory reference No : S/102/2021-22

Parameters:

- 1) Particulate Matter (PM) : 21.49 mg/Nm³
2) Oxides of Sulfur (as SO₂): 413.57 mg/Nm³
3) Oxides of Nitrogen (NOx): 221.08 mg/Nm³

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Note: The SO₂ result mentioned in the test report based on the pyritic sulfur presence in our Limestone. The pyritic sulfur percentage in our limestone is >0.50.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamallesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : 15.11.2021
Type of Stack : Kiln & Raw Mill (RABH-2)
Laboratory reference No : S/103/2021-22

Parameters:

- 1) Particulate Matter (PM): 24.13 mg/Nm³
- 2) Oxides of Sulfur (as SO₂): 459.27 mg/Nm³
- 3) Oxides of Nitrogen (NO_x): 217.64 mg/Nm³

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.497 (E) dated 10th May'2016.

Note: *The SO₂ result mentioned in the test report based on the pyritic sulfur presence in our Limestone. The pyritic sulfur percentage in our limestone is >0.50.*

Prepared by


(Arti Singh)

Checked & Verified by


(Kamalesh Kr. Choudhary)

MEGHALAYA CEMENTS LIMITED

STACK ANALYSIS REPORT

Name of sampling Location : MCL, Thangskai
Date of Sampling : -
Type of Stack : C.P.P.
Laboratory reference No : S/104/2021-22

Parameters:

- 1) Particulate Matter (PM): - mg/Nm³
- 2) Oxides of Sulfur (as SO₂): - mg/Nm³
- 3) Oxides of Nitrogen (NO_x): - mg/Nm³

(Note – Stopped due to maintenance)

Remarks: The parameter was tested and found within the permissible limits of the Stack Emission Standards as per as the EPA Notification G.S.R.3305 (E) dated 07th Dec'2015.

Prepared by


(Arti Singh)

Checked & Verified by


(Kamallesh Kr. Choudhary)





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 04.12.2021

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

Dear Sir,


We are herewith submitting the Ambient Air Quality Survey report for the month of **November'2021** 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
(President)



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
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Registered 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



M/s MEGHALAYA CEMENTS LIMITED

AMBIENT AIR QUALITY SURVEY

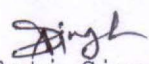
MCL/ENV/LSM-AAQM/2021-22/36

| | |
|-------------------------------|--|
| Location of sampling | South Khliehji Limestone Mine (31.05 Ha) |
| Date duration of sampling | 26.11.2021 to 27.11.2021 |
| Time Duration of sampling | 48 hours |
| Weather | Clear |
| Total Rain Fall, mm (On Date) | 0.00 mm |
| Ambient Temperature (°C) : | Max. - 19.92°C, Min. - 11.77°C |
| Relative Humidity (%) : | Max. - 82.05%, Min. - 49.78% |
| Wind direction | →S (190.30°) |


| 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/70/2021-22 | A2. North - West (Near Haul Road) D/71/2021-22 | A3.Southern side (Near Lease Boundary) D/72/2021-22 | |
| | 48 hrs. | 48 hrs | 48 hrs | |
| Particulate Matters PM10 (µg/m ³) | 63.48 | 60.17 | 58.34 | 100 |
| Particulate Matters PM2.5 - (µg/m ³) | 38.79 | 35.21 | 31.09 | 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


THANGSKAI
(Kamalresh Kr. Choudhary)





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 04.12.2021

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

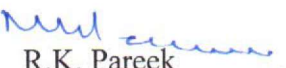
Dear Sir,

We are herewith submitting the Process Fugitive Emission report of the month November'2021 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
(President)



Sales & Marketing Office :
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HELPLINE NO : 18001233666



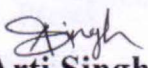
MEGHALAYA CEMENTS LIMITED

PROCESS FUGITIVE EMISSION TEST RESULTS

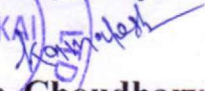
November'2021

| Date of Testing | Location | Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$) | As per the Standard Limit ($\mu\text{g}/\text{m}^3$) |
|-----------------|-------------------------|--|--|
| 10.11.2021 | Lime stone Storage Area | 1739 | 5000 |
| 10.11.2021 | Coal Storage Area | 963 | 2000 |
| 17.11.2021 | Clinker Loading Area | 2058 | 5000 |
| 17.11.2021 | Cement Loading Area | 1729 | 5000 |
| 18.11.2021 | Coal Storage Area (CPP) | 1021 | 2000 |
| 18.11.2021 | Fly Ash Silo Area (CPP) | 984 | 2000 |

Prepared by


(Arti Singh)

Checked & Verified by


(Kamallesh Kr. Choudhary)





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 04.12.2021

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 November'2021.

Month

Water Consumption

November'2021

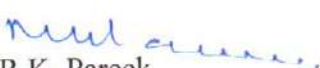
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Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED


R.K. Pareek
(President)



Sales & Marketing Office :
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HELPLINE NO : 18001233666





MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 04.12.2021

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 **November'2021**.



Thanking you Sir,

Yours faithfully,

For **MEGHALAYA CEMENTS LIMITED**


R.K. Pareek
(President)



Sales & Marketing 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

FORM - I

(See Rule 4)

Return: Water consumed during the month of November'2021

| 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 month under report | Reading at the end of the last day of the 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 - Lumshong Pin No 793210 Jaintia Hills - MEGHALAYA | Domestic purpose | River | (a) 386303 (b) 012851 (c) 743158 | (a) 389402 (b) 014629 (c) 751041 | 12,760 | - | - | Qty. of water consumed from river water = 12,760 + 20,910 = 33,670 KL |
| | Industrial cooling | River | a) 804335 b) 353216 c) 507948 | a) 806042 b) 360774 c) 523417 | 20,910 | - | - | Qty of water returned = 1,883 + 1,941 = 3,824 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 = 2,488,350
Final reading of the return line flow meter at end of month = 2,490,233

(2) Initial reading of S.T.P flow meter at the beginning of the month = 81,417
Final reading of S.T.P flow meter at the end of the month = 83,358

