

# STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2024-25/10

Dated: 12/07/2024

To,

The Member Secretary,  
Meghalaya State Pollution Control Board,  
'ARDEN' Lumpyngngad, Shillong – 793014

**Subject** : Submission of Environmental Monitoring Report for the month of June, 2024.

**Reference** : MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2023-2024/30, Dtd: Shillong, the 27<sup>th</sup> September, 2023.

Dear Sir,

This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality monitoring including meteorological data, Fugitive Emission, Surface water monitoring reports of **Brishyrnot Limestone Deposit-I (MLA 42.051 Ha)** of **Star Cement Meghalaya Limited** for the month of **June, 2024**.

This is for your kind information, record and kindly acknowledge receipt of the same.

Thanking You,

Yours truly,  
For **STAR CEMENT MEGHALAYA LIMITED**



**Laxmaiah Munjala**  
Unit Head





Enclosed: a/a





**Copy To:** The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.











**STAR CEMENT LIMITED**  
Lumshnong, Meghalaya

| Date (DD-MM-YYYY) | Pressure (mmHg) | Relative Humidity (%) | Temp. (C) | Manual Rain (mm) |
|-------------------|-----------------|-----------------------|-----------|------------------|
| 01-06-2024        | 719.9           | 72.3                  | 18.6      | 0.0              |
| 02-06-2024        | 717.3           | 71.1                  | 17.9      | 11.7             |
| 03-06-2024        | 717.0           | 71.9                  | 18.8      | 13.2             |
| 04-06-2024        | 723.2           | 70.2                  | 18.6      | 48.8             |
| 05-06-2024        | 720.5           | 70.0                  | 18.5      | 5.0              |
| 06-06-2024        | 726.3           | 71.3                  | 17.9      | 4.8              |
| 07-06-2024        | 720.9           | 70.1                  | 20.0      | 0.0              |
| 08-06-2024        | 723.6           | 69.9                  | 19.0      | 0.0              |
| 09-06-2024        | 725.2           | 70.1                  | 18.4      | 0.0              |
| 10-06-2024        | 722.9           | 71.2                  | 18.8      | 24.2             |
| 11-06-2024        | 720.9           | 74.4                  | 18.9      | 0.0              |
| 12-06-2024        | 720.4           | 73.5                  | 20.6      | 23.6             |
| 13-06-2024        | 720.8           | 77.7                  | 18.7      | 47.4             |
| 14-06-2024        | 723.6           | 74.8                  | 18.8      | 9.4              |
| 15-06-2024        | 723.8           | 75.0                  | 19.7      | 165.4            |
| 16-06-2024        | 723.2           | 72.2                  | 19.3      | 74.6             |
| 17-06-2024        | 721.6           | 78.5                  | 16.5      | 118.2            |
| 18-06-2024        | 720.0           | 77.7                  | 15.1      | 142.0            |
| 19-06-2024        | 717.6           | 70.7                  | 16.8      | 27.8             |
| 20-06-2024        | 723.2           | 63.7                  | 16.7      | 0.0              |
| 21-06-2024        | 723.7           | 66.7                  | 18.2      | 0.0              |
| 22-06-2024        | 721.4           | 71.5                  | 18.5      | 6.8              |
| 23-06-2024        | 723.6           | 71.0                  | 18.6      | 0.0              |
| 24-06-2024        | 725.2           | 68.9                  | 19.8      | 9.4              |
| 25-06-2024        | 723.6           | 71.6                  | 18.6      | 5.2              |
| 26-06-2024        | 718.4           | 68.3                  | 17.8      | 0.0              |
| 27-06-2024        | 725.1           | 71.2                  | 18.3      | 4.0              |
| 28-06-2024        | 722.9           | 72.6                  | 18.8      | 5.4              |
| 29-06-2024        | 721.7           | 74.7                  | 15.5      | 57.3             |
| 30-06-2024        | 723.6           | 71.6                  | 18.6      | 65.7             |
|                   |                 |                       | Total     | 869.9            |





|  |  |   |                                      |  |
|--|--|---|--------------------------------------|--|
|   | <b>STAR CEMENT MEGHALAYA LIMITED</b><br><b>Brishyrnot Limestone Deposit - I (MLA 42.051)</b><br>Lumshnong, Meghalaya |   | Reference No.                        | SCML/Env/F - 01  |
|  |  |   | Issue No.                            | 1  |
|  |  |   | Date of Issue:                       | 24.08.2013   |
|  | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>   |   | Revision No.                         | 5  |
| Date of Rev.   |  |   | 01.12.2020                           |  |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/15  |  |   | Month : June                         |  |
| Location of Sampling: Mines Entrance Haul Road   |  | GPS Coordinate: 25°10'14.88"N 92°24'52.13"E   |                                      |  |
| Sampling Duration:   | 24 Hrs.  | 24 Hrs.   | 24 Hrs.                              | 24 Hrs.  |
| Date of Sampling   | PM <sub>10</sub> (µg/m <sup>3</sup> )  | PM <sub>2.5</sub> (µg/m <sup>3</sup> )  | SO <sub>2</sub> (µg/m <sup>3</sup> ) | NO <sub>2</sub> (µg/m <sup>3</sup> )   |
| 26.06.2024   | 75.14  | 48.98   | 17.72                                | 24.65  |
| NAAQS permissible limits for Rural, Industrial, Residential Area   | 100 (µg/m <sup>3</sup> )   | 60 (µg/m <sup>3</sup> )   | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )  |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |  |   |                                      |  |
| <br>Analysed by                                       |  | <br>Checked By |                                      | <br>Verified By |





|   |  |   |                         |                         |
|---|--|---|-------------------------|-------------------------|
|    | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Brishyrot Limestone Deposit - I (MLA 42.051)<br>Lumshnong, Meghalaya |   | Reference No.           | SCML/Env/F - 01         |
|   |  |   | Issue No.               | 1                       |
|   | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>   |   | Date of Issue:          | 24.08.2013              |
|   |  |   | Revision No.            | 5                       |
|   |  |   | Date of Rev.            | 01.12.2020              |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/15   |  |   | Month : June            |                         |
| Location of Sampling: ROC Drilling Point  |  | GPS Coordinate: 25°10'15.92"N 92°24'55.38"E |                         |                         |
| Sampling Duration:  | 24 Hrs.  | 24 Hrs.                                     | 24 Hrs.                 | 24 Hrs.                 |
| Date of Sampling  | PM <sub>10</sub> (µg/m³)   | PM <sub>2.5</sub> (µg/m³)                   | SO <sub>2</sub> (µg/m³) | NO <sub>2</sub> (µg/m³) |
| 26.06.2024  | 68.65  | 45.59                                       | 16.32                   | 20.68                   |
| NAAQS permissible limits for Rural, Industrial, Residential Area  | 100 (µg/m³)  | 60 (µg/m³)                                  | 80 (µg/m³)              | 80 (µg/m³)              |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.  |  |   |                         |                         |
| <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <br/>           Analysed by         </div> <div style="text-align: center;"> <br/>           Checked By         </div> <div style="text-align: center;"> <br/>           Verified By         </div> </div> |  |   |                         |                         |

|   |   |   |                         |  |
|---|---|---|-------------------------|--|
|    | <b>STAR CEMENT MEGHALAYA LIMITED</b><br><b>Brishyrnot Limestone Deposit - I (MLA 42.051)</b><br><b>Lumshnong, Meghalaya</b> |   | Reference No.           | SCML/Env/F - 01  |
|   |   |   | Issue No.               | 1  |
|   |   |   | Date of Issue:          | 24.08.2013   |
|   | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>  |   | Revision No.            | 5  |
| Date of Rev.  |   |   | 01.12.2020              |  |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/15   |   |   | Month : June            |  |
| Location of Sampling: Excavator Point   |   | GPS Coordinate: 25°10'16.34"N 92°24'54.97"E 745 m   |                         |  |
| Sampling Duration:  | 24 Hrs.   | 24 Hrs.   | 24 Hrs.                 | 24 Hrs.  |
| Date of Sampling  | PM <sub>10</sub> (µg/m³)  | PM <sub>2.5</sub> (µg/m³)   | SO <sub>2</sub> (µg/m³) | NO <sub>2</sub> (µg/m³)  |
| 26.06.2024  | 64.07   | 48.47   | 16.79                   | 21.88  |
| NAAQS permissible limits for Rural, Industrial, Residential Area  | 100 (µg/m³)   | 60 (µg/m³)  | 80 (µg/m³)              | 80 (µg/m³)   |
| <p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p> |   |   |                         |  |
| <br>Analysed by  |   | <br>Checked By |                         | <br>Verified By |

|  |   |                                |                                |
|--|---|--------------------------------|--------------------------------|
|   | STAR CEMENT MEGHALAYA LIMITED<br>Lumshnong, Meghalaya | Reference No.                  | SCML/Env/F – 07 (a)            |
|  |   | Issue No.                      | 1                              |
|  |   | Date of Issue:                 | 01.12.2018                     |
|  | FUGITIVE EMISSION REPORT                              | Revision No.                   | 2                              |
| Date of Rev.   |   | 01.12.2020                     |                                |
| Ref: SCML/ENV/FUGITIVE/MONTHLY/2024-25/15  |   |                                |                                |
| Brishyrnot Limestone Deposit - I (MLA 42.051)  |   |                                |                                |
| Month - June   |   |                                |                                |
| Date   | Location  | Fugitive Emission Results      | As per CPCB/BIS<br>Guideline   |
|  |   |                                | Limit                          |
|  |   | (in $\mu\text{g}/\text{m}^3$ ) | (in $\mu\text{g}/\text{m}^3$ ) |
| 26.06.2024   | Near Lime Stone loading area                          | 1540                           | 5000                           |
| <div><div><br/>Analyzed By</div><div><br/>Checked By</div><div><br/>Verified By</div></div> |   |                                |                                |



|                   | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>(42.051 Ha)<br>Lumshnong, Meghalaya |   | Document No.   |  | SCML/EHS/Env/F-03 |  |
|--|---|---|----------------|--|-------------------|--|
|  |   |   | Effective Date |  | 01-05-2019        |  |
|  |   |   | Revision No.   |  | 04                |  |
|  | <b>NOISE LEVEL MONITORING REPORT</b>  |   | Revision Date  |  | 01-01-2021        |  |
| Ref: SCML(LM)/ENV/NOISE/MONTHLY/2024-25/015  |   |   |                |  | Date:- 26.06.2024 |  |
| <b>Brishyrrnot Limestone Deposit - I (MLA 42.051)</b>  |   |   |                |  |                   |  |
| <b>Month - June</b>  |   |   |                |  |                   |  |
| S. No.   | Location  | Measured Values dB(A) Day time (6:00am to 10:00pm)  |                |  | Norms In dB(A)    |  |
|  |   | Min.  | Max.           | Avg.   |                   |  |
| 1  | <b>Excavator</b>  |   |                |  | 75                |  |
|  | <b>A) Operator Cabin (Door Open)</b>  |   |                |  |                   |  |
|  | a) At Low engine RPM  | 57.4  | 66.2           | 61.8   |                   |  |
|  | b) At High engine RPM   | 62.2  | 71.0           | 66.6   |                   |  |
|  | <b>B) Operator Cabin(Door Close)</b>  |   |                |  |                   |  |
|  | a) At Low engine RPM  | 59.5  | 65.5           | 62.5   |                   |  |
|  | b) At High engine RPM   | 62.2  | 69.8           | 66.0   |                   |  |
|  | <b>C) Periphery of the Engine</b>   |   |                |  |                   |  |
|  | a) At 1 mtr. Distance( At low RPM)  | 59.7  | 70.4           | 65.1   |                   |  |
|  | b) At 1 mtr. Distance (At high RPM)   | 60.9  | 71.6           | 66.3   |                   |  |
|  | c) At 5 mtr. Distance (At low RPM)  | 55.3  | 68.5           | 61.9   |                   |  |
|  | d) At 5 mtr. Distance (At high RPM)   | 57.7  | 69.6           | 63.6   |                   |  |
|  | <b>D) Behind the Engine</b>   |   |                |  |                   |  |
|  | a) At 1 mtr. Distance( At low RPM)  | 61.0  | 66.7           | 63.9   |                   |  |
|  | b) At 1 mtr. Distance (At high RPM)   | 68.1  | 70.7           | 69.4   |                   |  |
| c) At 5 mtr. Distance (At low RPM)   | 59.2  | 62.2  | 60.7           |  |                   |  |
| d) At 5 mtr. Distance (At high RPM)  | 61.9  | 68.2  | 65.1           |  |                   |  |
| 2  | <b>Rock Breaker</b>   |   |                |  | 75                |  |
|  | <b>A) Operator Cabin</b>  |   |                |  |                   |  |
|  | a) At Low engine RPM  | 62.8  | 63.5           | 63.2   |                   |  |
|  | b) At High engine RPM   | 65.1  | 70.4           | 67.8   |                   |  |
|  | <b>B) Rock Breaker Point (At 5 mtr. Distance)</b>                           |   |                |  |                   |  |
|  | a) Left Side  | 56.9  | 65.0           | 61.0   |                   |  |
|  | b) Right Side   | 53.6  | 66.7           | 60.2   |                   |  |
|  | c) Front Side   | 56.3  | 68.3           | 62.3   |                   |  |
| <br>Measured By |   | <br>Checked By |                | <br>Verified By |                   |  |

|   | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>(42.051 Ha)<br>Lumshnong, Meghalaya |  | Document No.   |               | SCML/EHS/Env/F-03 |
|--|---|--|----------------|---------------|-------------------|
|  |   |  | Effective Date |               | 01-05-2019        |
|  |   |  | Revision No.   |               | 04                |
|  | <b>NOISE LEVEL MONITORING REPORT</b>  |  |                | Revision Date |                   |
| Ref: SCML(LM)/ENV/NOISE/MONTHLY/2024-25/015 <span style="float: right;">Date:- 26.06.2024</span>   |   |  |                |               |                   |
| <b>Brishyrrnot Limestone Deposit - I (MLA 42.051)</b>  |   |  |                |               |                   |
| <b>Month - June</b>  |   |  |                |               |                   |
| S. No.   | Location  | Measured Values dB(A) Day time (6:00am to 10:00pm) |                |               | Norms in dB(A)    |
|  |   | Min.   | Max.           | Avg.          |                   |
| 3  | <b>Drill Machine</b>  |  |                |               | 75                |
|  | <b>A) Compressor</b>  |  |                |               |                   |
|  | a) At 1 mtr. Distance   | 66.0   | 72.5           | 69.3          |                   |
|  | b) At 5 mtr. Distance   | 61.9   | 71.1           | 66.5          |                   |
|  | <b>B) Drilling Point (At 5 mtr. Distance)</b>                               |  |                |               |                   |
|  | a) Left Side  | 63.0   | 71.1           | 67.0          |                   |
|  | b) Right Side   | 62.0   | 72.0           | 67.0          |                   |
|  | c) Front Side   | 61.0   | 71.1           | 66.1          |                   |
| 4  | <b>Dozer</b>  |  |                |               | 75                |
|  | <b>A) Operator Cabin</b>  |  |                |               |                   |
|  | a) At Low engine RPM  | 57.4   | 63.0           | 60.2          |                   |
|  | b) At High engine RPM   | 63.6   | 71.3           | 67.5          |                   |
|  | <b>B) Periphery of the Engine</b>   |  |                |               |                   |
|  | a) At 1 mtr. Distance( At low RPM)  | 59.3   | 67.1           | 63.2          |                   |
|  | b) At 1 mtr. Distance (At high RPM)   | 63.3   | 70.5           | 66.9          |                   |
|  | c) At 5 mtr. Distance (At low RPM)  | 53.5   | 59.8           | 56.7          |                   |
|  | d) At 5 mtr. Distance (At high RPM)   | 60.0   | 68.0           | 64.0          |                   |
|  | <b>c) Behind the Engine</b>   |  |                |               |                   |
|  | a) At 1 mtr. Distance( At low RPM)  | 55.6   | 62.0           | 58.8          |                   |
|  | b) At 1 mtr. Distance (At high RPM)   | 59.3   | 66.1           | 62.7          |                   |
|  | c) At 5 mtr. Distance (At low RPM)  | 53.2   | 58.1           | 55.7          |                   |
|  | d) At 5 mtr. Distance (At high RPM)   | 56.7   | 60.1           | 58.4          |                   |
| 5  | <b>Dumper</b>   |  |                |               |                   |
|  | <b>A) Empty Dumper</b>  |  |                |               |                   |
|  | a) Open Window  | 64.5   | 70.5           | 67.5          |                   |
|  | b) Close Window   | 58.5   | 64.0           | 61.3          |                   |
|  | <b>B) Loaded Dumper</b>   |  |                |               |                   |
|  | a) Open Window  | 65.7   | 71.0           | 68.4          |                   |
| b) Close Window  | 61.0  | 65.3   | 63.2           |               |                   |
| <div style="display: flex; justify-content: space-between; align-items: flex-end; padding-top: 20px;"> <div> <br/>       Analyzed by     </div> <div> <br/>       Checked by     </div> <div> <br/>       Verified By     </div> </div> |   |  |                |               |                   |



