



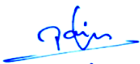
## STAR CEMENT LIMITED

Lumshnong, Meghalaya

| Date (DD-MM-YYYY) | Pressure (mmHg) | Relative Humidity (%) | Temp. (C) | Wind Direction (deg) | Wind Speed- (m/s)        | Manual Rain (mm) |
|-------------------|-----------------|-----------------------|-----------|----------------------|--------------------------|------------------|
| 01-08-2022        | 956.5           | 90.14                 | 25.23     | 207.87               | 0.37                     | 19.8             |
| 02-08-2022        | 956.48          | 89.94                 | 25.26     | 198.38               | 0.8                      | 0.0              |
| 03-08-2022        | 956.39          | 90.98                 | 25.07     | 212.02               | 1.23                     | 4.2              |
| 04-08-2022        | 956.33          | 92.02                 | 24.88     | 236.89               | 1.18                     | 6.2              |
| 05-08-2022        | 956.21          | 93.11                 | 24.53     | 207.29               | 1.24                     | 0.0              |
| 06-08-2022        | 956.18          | 94                    | 24.29     | 191.12               | 1.31                     | 15.6             |
| 07-08-2022        | 956.27          | 94.71                 | 24.2      | 185.44               | 1.25                     | 0.0              |
| 08-08-2022        | 956.29          | 94.64                 | 24.29     | 195.31               | 0.98                     | 0.0              |
| 09-08-2022        | 956.31          | 93.8                  | 24.46     | 220.29               | 0.64                     | 0.0              |
| 10-08-2022        | 956.4           | 93.01                 | 24.36     | 200.6                | 1.04                     | 6.6              |
| 11-08-2022        | 956.5           | 93.23                 | 24.3      | 186.6                | 0.82                     | 0.0              |
| 12-08-2022        | 956.56          | 93.36                 | 24.3      | 198.63               | 1.14                     | 0.0              |
| 13-08-2022        | 956.64          | 94.08                 | 24.19     | 296.7                | 0.86                     | 4.5              |
| 14-08-2022        | 956.82          | 94.11                 | 24.1      | 287.39               | 0.9                      | 0.0              |
| 15-08-2022        | 956.91          | 94.48                 | 24.03     | 320.33               | 0.96                     | 5.0              |
| 16-08-2022        | 957.26          | 94.95                 | 24        | 291.62               | 0.59                     | 9.4              |
| 17-08-2022        | 957.56          | 94.99                 | 24        | 235.74               | 0.68                     | 0.0              |
| 18-08-2022        | 957.8           | 95.57                 | 23.9      | 132.99               | 0.76                     | 0.0              |
| 19-08-2022        | 958.03          | 96.16                 | 23.9      | 200.91               | 1.1                      | 0.0              |
| 20-08-2022        | 958.29          | 96.02                 | 23.91     | 161.57               | 1.14                     | 0.0              |
| 21-08-2022        | 958.64          | 96.37                 | 23.92     | 143.62               | 0.72                     | 0.0              |
| 22-08-2022        | 958.99          | 96.27                 | 24        | 207.24               | 0.52                     | 0.0              |
| 23-08-2022        | 959.27          | 96.23                 | 23.98     | 187.07               | 1.72                     | 4.2              |
| 24-08-2022        | 959.47          | 95.96                 | 23.71     | 189.62               | 1.83                     | 0.0              |
| 25-08-2022        | 959.68          | 96.21                 | 23.45     | 135.26               | 1.14                     | 4.9              |
| 26-08-2022        | 959.69          | 97.06                 | 23.35     | 211.9                | 0.9                      | 0.0              |
| 27-08-2022        | 959.6           | 97.48                 | 23.4      | 230.67               | 0.93                     | 15.2             |
| 28-08-2022        | 959.66          | 97.72                 | 23.36     | 186.62               | 2.27                     | 4.2              |
| 29-08-2022        | 959.76          | 97.93                 | 23.3      | 203.92               | 1.24                     | 7.5              |
| 30-08-2022        | 959.73          | 98.02                 | 23.3      | 170.62               | 0.98                     | 0.0              |
| 31-08-2022        | 959.69          | 98.1                  | 23.27     | 174.98               | 1.8                      | 0.0              |
|                   |                 |                       |           |                      | Total rain of this month | 107.3            |

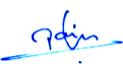
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|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                              | <b>STAR CEMENT LIMITED</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | SCL/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.: SCL/ENV/AAQM/MONTHLY/2022-23/14                                                                                                |                                                    |                                                                                                   | Month: August'22                     |                                                                                                      |
| Location of Sampling: Near Star Club                                                                                                          |                                                    | GPS Coordinate: 25°10'36"N 92°23'16"E 928 m                                                       |                                      |                                                                                                      |
| 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> )                                                                 |
| 03.08.2022                                                                                                                                    | 40.90                                              | 21.44                                                                                             | 7.92                                 | 15.77                                                                                                |
| 05.08.2022                                                                                                                                    | 42.75                                              | 23.30                                                                                             | 9.28                                 | 13.93                                                                                                |
| 08.08.2022                                                                                                                                    | 38.55                                              | 19.05                                                                                             | 10.70                                | 15.68                                                                                                |
| 10.08.2022                                                                                                                                    | 45.40                                              | 21.44                                                                                             | 9.74                                 | 14.30                                                                                                |
| 16.08.2022                                                                                                                                    | 41.80                                              | 20.30                                                                                             | 8.85                                 | 15.70                                                                                                |
| 18.08.2022                                                                                                                                    | 41.44                                              | 23.14                                                                                             | 9.00                                 | 13.20                                                                                                |
| 22.08.2022                                                                                                                                    | 43.18                                              | 22.25                                                                                             | 10.77                                | 14.70                                                                                                |
| 24.08.2022                                                                                                                                    | 44.67                                              | 21.95                                                                                             | 8.95                                 | 13.51                                                                                                |
| 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> )                                                                              |
| <b>Remarks:</b> 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 LIMITED</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | SCL/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.: SCL/ENV/AAQM/MONTHLY/2022-23/15                                                                                                |                                                    |                                                                                                   | Month: August'22                     |                                                                                                      |
| Location of Sampling: Near Pump House                                                                                                         |                                                    | GPS Coordinate: 25°10'42"N 92°23'32"E 919 m                                                       |                                      |                                                                                                      |
| 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> )                                                                 |
| 03.08.2022                                                                                                                                    | 49.15                                              | 30.97                                                                                             | 11.20                                | 16.00                                                                                                |
| 05.08.2022                                                                                                                                    | 47.88                                              | 29.36                                                                                             | 14.14                                | 14.19                                                                                                |
| 08.08.2022                                                                                                                                    | 48.27                                              | 30.72                                                                                             | 11.70                                | 15.47                                                                                                |
| 10.08.2022                                                                                                                                    | 52.74                                              | 27.25                                                                                             | 11.48                                | 12.29                                                                                                |
| 16.08.2022                                                                                                                                    | 47.90                                              | 26.34                                                                                             | 10.75                                | 15.22                                                                                                |
| 18.08.2022                                                                                                                                    | 49.65                                              | 30.80                                                                                             | 12.50                                | 15.95                                                                                                |
| 22.08.2022                                                                                                                                    | 50.10                                              | 29.21                                                                                             | 10.02                                | 12.45                                                                                                |
| 24.08.2022                                                                                                                                    | 47.40                                              | 28.65                                                                                             | 13.50                                | 13.53                                                                                                |
| 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> )                                                                              |
| <b>Remarks:</b> 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 LIMITED</b><br>Lumshnong, Meghalaya |                                             | Reference No.                        | SCL/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.: SCL/ENV/AAQM/MONTHLY/2022-23/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |                                             | Month: August'22                     |                                      |
| Location of Sampling: Near Security Gate - 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    | GPS Coordinate: 25°10'27"N 92°23'37"E 944 m |                                      |                                      |
| 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> ) |
| 03.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 72.70                                              | 40.60                                       | 20.05                                | 25.26                                |
| 05.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 67.35                                              | 35.80                                       | 21.07                                | 26.29                                |
| 08.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 69.58                                              | 42.14                                       | 21.53                                | 24.27                                |
| 10.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 73.57                                              | 40.47                                       | 20.98                                | 23.20                                |
| 16.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70.90                                              | 38.30                                       | 19.50                                | 22.45                                |
| 18.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 72.40                                              | 40.67                                       | 17.82                                | 23.31                                |
| 22.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 74.15                                              | 42.05                                       | 19.98                                | 23.29                                |
| 24.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70.26                                              | 39.34                                       | 19.07                                | 21.20                                |
| 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> )              |
| <b>Remarks:</b> 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> |                                                    |                                             |                                      |                                      |

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|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                                     | <b>STAR CEMENT LIMITED</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | SCL/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.: Tongseng Village /2022-23/17                                                                                                          |                                                    |                                                                                                   | Month: August'22                     |                                                                                                      |
| Location of Sampling: Tongseng Village                                                                                                               |                                                    | GPS Coordinate: 25°10'08"N 92°24'17"E 756 m                                                       |                                      |                                                                                                      |
| 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> )                                                                 |
| 27.08.2022                                                                                                                                           | 37.59                                              | 16.02                                                                                             | 8.15                                 | 10.59                                                                                                |
| 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> )                                                                              |
| <p><b>Remarks:</b> 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 |

|                                                                                                                          |                                                           |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|------------|--------------|---------------------------------------------------------------------------------------------------------------|---------------|-----------------|-------------------|
|                                         | <b>STAR CEMENT LIMITED</b><br>Lumshnong, Meghalaya        |                       |                                                                                                   |            |              |                                                                                                               | Reference No. | SCL/Env/F-02    |                   |
|                                                                                                                          |                                                           |                       |                                                                                                   |            |              |                                                                                                               | Issue No.     | 1               |                   |
|                                                                                                                          | <b>STACK EMISSION MONITORING ANALYSIS REPORT</b>          |                       |                                                                                                   |            |              |                                                                                                               | Date of Issue | 01.05.2019      |                   |
|                                                                                                                          |                                                           |                       |                                                                                                   |            |              |                                                                                                               | Revision No.  | 5               |                   |
| Report No: SCL/ENV/STACK/MONTHLY/2022-23/05                                                                              |                                                           |                       |                                                                                                   |            |              | Date of Rev. 01.06.2021                                                                                       |               |                 |                   |
| <b>Analysis Result</b>                                                                                                   |                                                           |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
| <b>A.</b>                                                                                                                | General Information About Stack                           |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
| 1                                                                                                                        | Stack Identification No                                   | S-1                   | S-2                                                                                               | S-3        | S-4          | S-5                                                                                                           | S-6           | S-7             | S-8               |
| 2                                                                                                                        | Stack Connected to                                        | Kiln/Raw Mill         | Coal Mill                                                                                         | Cooler     | Roller Press | Cement Mill                                                                                                   | Packing Plant | Primary Crusher | Secondary Crusher |
| 3                                                                                                                        | Material of Construction (Stack/Duct)                     | Mild Steel            | Mild Steel                                                                                        | Mild Steel | Mild Steel   | Mild Steel                                                                                                    | Mild Steel    | Mild Steel      | Mild Steel        |
| 4                                                                                                                        | Shape of duct                                             | Circular              | Circular                                                                                          | Circular   | Circular     | Circular                                                                                                      | Circular      | Circular        | Circular          |
| 5                                                                                                                        | Whether duct is provided with permanent platform & ladder | Yes                   | Yes                                                                                               | Yes        | Yes          | Yes                                                                                                           | Yes           | Yes             | Yes               |
| <b>B.</b>                                                                                                                | Physical characteristic of stack                          |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
| 1                                                                                                                        | Stack Height from ground level (meter)                    | 45.4                  | 37                                                                                                | 30.4       | 24           | 30                                                                                                            | 28            | 21              | 17                |
| 2                                                                                                                        | Duct diameter at sampling point (meter)                   | 3                     | 1.2                                                                                               | 2.8        | 1.4          | 1.5                                                                                                           | 1.1           | 1.2             | 1.0               |
| 3                                                                                                                        | Sampling height point from ground level (meter)           | -                     | -                                                                                                 | -          | -            | -                                                                                                             | -             | -               | -                 |
| 4                                                                                                                        | Cross sectional area of Duct/Stack (m <sup>2</sup> )      | 7.07                  | 1.13                                                                                              | 6.15       | 1.54         | 1.77                                                                                                          | 0.95          | 1.13            | 0.79              |
| <b>C.</b>                                                                                                                | Pollution Control Device                                  |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
| 1                                                                                                                        | Details of pollution control device attached to stack     | Reverse Air Bag House | Bag Filter                                                                                        | ESP        | Bag Filter   | Bag Filter                                                                                                    | Bag Filter    | Bag Filter      | Bag Filter        |
| <b>D.</b>                                                                                                                | Result of Sampling & Analysis of Gaseous Emission         |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
| 1                                                                                                                        | Date of Sampling                                          | 03.08.2022            | 03.08.2022                                                                                        | 08.08.2022 | 01.08.2022   | 06.08.2022                                                                                                    | 06.08.2022    | 01.08.2022      | 01.08.2022        |
| 2                                                                                                                        | Ambient Temp (°C)                                         | 33                    | 30                                                                                                | 42         | 24           | 22                                                                                                            | 23            | 23              | 21                |
| 3                                                                                                                        | Stack Gas Temp (°C)                                       | 166                   | 60                                                                                                | 360        | 32           | 27                                                                                                            | 35            | 30              | 30                |
| 4                                                                                                                        | Exit Velocity of Gas (m/sec.)                             | 14.28                 | 13.05                                                                                             | 19.55      | 13.82        | 13.64                                                                                                         | 13.01         | 13.66           | 13.38             |
| 5                                                                                                                        | Flow Rate (Nm <sup>3</sup> /sec.)                         | 64.41                 | 12.50                                                                                             | 54.48      | 19.38        | 22.34                                                                                                         | 11.29         | 14.09           | 9.76              |
| 6                                                                                                                        | Quantity of Emission (Nm <sup>3</sup> / Hr)               | 231877.35             | 45011.51                                                                                          | 196145.09  | 69784.09     | 80437.22                                                                                                      | 40660.19      | 50722.00        | 35122.97          |
| 7                                                                                                                        | Concentration of PM (mg/Nm <sup>3</sup> )                 | 15.08                 | 18.12                                                                                             | 14.58      | 16.97        | 22.01                                                                                                         | 23.37         | 24.44           | 20.79             |
| 8                                                                                                                        | Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )    | 548.00                | -                                                                                                 | -          | -            | -                                                                                                             | -             | -               | -                 |
| 9                                                                                                                        | Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )    | 228.00                | -                                                                                                 | -          | -            | -                                                                                                             | -             | -               | -                 |
| 10                                                                                                                       | Oxygen (O <sub>2</sub> ) (%)                              | 10.2                  | 9.2                                                                                               | 9.50       | 9.12         | 10.78                                                                                                         | 9.64          | 10.84           | 11.58             |
| <b>E.</b>                                                                                                                | Remarks                                                   |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
| Standard                                                                                                                 |                                                           |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
| PM - 30 mg/Nm <sup>3</sup>                                                                                               |                                                           |                       | SO <sub>2</sub> - 1000 mg/Nm <sup>3</sup>                                                         |            |              | NO <sub>x</sub> - 800 mg/Nm <sup>3</sup>                                                                      |               |                 |                   |
| Particulate Matter (PM), Sulphur di-oxide (SO <sub>2</sub> ), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP) |                                                           |                       |                                                                                                   |            |              |                                                                                                               |               |                 |                   |
| <br>Analysis by                       |                                                           |                       | <br>Checked by |            |              | <br>Authorized Signatory |               |                 |                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>STAR CEMENT LIMITED</b><br>Lumshnong, Meghalaya |                                | Document No.                   | SCL/EHS/Env/F-04 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|--------------------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |                                | Date of Issued                 | 01-05-2019       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>FUGITIVE EMISSION MONITORING REPORT</b>         |                                | Revision No.                   | 2                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |                                | Revision Date                  | 01-01-2021       |
| <b>Ref: SCL/ENV/FUGITIVE/MONTHLY/2022-23/005</b><br><b>Month - August 2022</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |                                |                                |                  |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Location                                           | Fugitive Emission Results      | As per CPCB/BIS Guideline      |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |                                | Limit                          |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    | (in $\mu\text{g}/\text{m}^3$ ) | (in $\mu\text{g}/\text{m}^3$ ) |                  |
| 04.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Coal Storage Section                               | 1245                           | 2000                           |                  |
| 04.08.2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Limestone Storage Section                          | 1485                           | 5000                           |                  |
| <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <br/> <b>Analyzed By</b> </div> <div style="text-align: center;"> <br/> <b>Checked by</b> </div> <div style="text-align: center;"> <br/> <b>Verified By</b> </div> </div> |                                                    |                                |                                |                  |

|                                                                                   |                                                    |  |  |              |                |              |
|-----------------------------------------------------------------------------------|----------------------------------------------------|--|--|--------------|----------------|--------------|
|  | <b>STAR CEMENT LIMITED</b><br>Lumshnong, Meghalaya |  |  |              | Reference No.  | SCL/EHS/F-04 |
|                                                                                   |                                                    |  |  |              | Issue No.      | 1            |
|                                                                                   | <b>WATER TESTING REPORT</b>                        |  |  |              | Date of Issue: | 24.08.2013   |
|                                                                                   |                                                    |  |  |              | Revision No.   | 3            |
|                                                                                   |                                                    |  |  | Date of Rev. | 01.06.2019     |              |

Reference No.: SCL/ENV/WATER/MONTHLY/2022-23/05

Date of sample collection: - 05.08.2022  
Date of Analysis: 05.08.2022 to 08.08.2022

| Sl.No. | Parameter                                          | Unit  | STP Inlet  | STP Outlet | Standard Norms For Discharge of Environment Pollution<br>(Notification Date: - 19th May 1993) &<br>Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 - dated<br>Shillong, the 3rd Sep,2014 |
|--------|----------------------------------------------------|-------|------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | pH                                                 | -     | 7.4        | 7.84       | 5.5 to 9.0                                                                                                                                                                                                    |
| 2      | Colour                                             | Hazen | Colourless | Colourless | -                                                                                                                                                                                                             |
| 3      | Odour                                              | -     | Odourless  | Odourless  | -                                                                                                                                                                                                             |
| 4      | Chloride                                           | mg/L  | 47.9       | 49.6       | -                                                                                                                                                                                                             |
| 5      | Total Hardness as CaCO <sub>3</sub>                | mg/L  | 92.0       | 98.0       | -                                                                                                                                                                                                             |
| 6      | Suspended Solids                                   | mg/L  | 68.4       | 3.5        | 100                                                                                                                                                                                                           |
| 7      | Total Dissolve Solids                              | mg/L  | 306        | 278        | -                                                                                                                                                                                                             |
| 8      | Chemical Oxygen Demand                             | mg/L  | 110        | 30.0       | 250                                                                                                                                                                                                           |
| 9      | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L  | 72.0       | 3.0        | 30                                                                                                                                                                                                            |
| 10     | Oil & Grease                                       | mg/L  | 6.6        | < 3.0      | 10                                                                                                                                                                                                            |
| 11     | Temperature                                        | ° C   | 25.0       | 25.0       | Shall not exceed 5.0°C above the receiving<br>water temperature                                                                                                                                               |
| 12     | Conductivity                                       | µS/cm | 571.0      | 520        | -                                                                                                                                                                                                             |

  
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Lumshnong, Meghalaya

|                |              |
|----------------|--------------|
| Reference No.  | SCL/EHS/F-04 |
| Issue No.      | 1            |
| Date of Issue: | 24.08.2013   |
| Revision No.   | 3            |
| Date of Rev.   | 01.06.2019   |

**WATER TESTING REPORT**

Reference No.: SCL/ENV/WATER/MONTHLY/2022-23/05

**Surface Water Analysis Report**  
Month: August-2022

Date of sample collection: - 20.08.2022

Date of Analysis: 20.08.2022 to 23.08.2022

| S.No. | Parameter                                          | Unit  | Umtyrngai Nallah |             | Umutha Nallah |             | Lumshnong                         | Umbadoh    | Tongseng   | Wahiajer   | Standards norms<br>as per IS 2296 |
|-------|----------------------------------------------------|-------|------------------|-------------|---------------|-------------|-----------------------------------|------------|------------|------------|-----------------------------------|
|       |                                                    |       | Up Stream        | Down Stream | Up Stream     | Down Stream | Seasonal Spring / Seasonal Nallah |            |            |            |                                   |
| 1     | pH                                                 | -     | 7.80             | 7.76        | 7.70          | 7.80        | 7.45                              | 7.3        | 7.5        | 7.36       | 6.5 - 8.5                         |
| 2     | Colour                                             | Hazen | Colourless       | Colourless  | Colourless    | Colourless  | Colourless                        | Colourless | Colourless | Colourless | 10                                |
| 3     | Odour                                              | -     | Unobjectionable  |             |               |             |                                   |            |            |            | Unobjectionable                   |
| 4     | Chloride                                           | mg/L  | 44               | 46          | 36            | 37          | 49                                | 47         | 49         | 45         | 250                               |
| 5     | Total Hardness as CaCO <sub>3</sub>                | mg/L  | 70               | 78          | 74            | 80          | 20                                | 15         | 20         | 13         | 300                               |
| 6     | Suspended Solids                                   | mg/L  | 20               | 24          | 23            | 25          | 5                                 | 2          | 1          | 14         | -                                 |
| 7     | Total Dissolve Solids                              | mg/L  | 186              | 239         | 176           | 180         | 126                               | 133        | 119        | 125        | 500                               |
| 8     | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L  | ND               | ND          | ND            | ND          | ND                                | ND         | ND         | ND         | 2.0                               |
| 9     | Oil & Grease                                       | mg/L  | ND               | ND          | ND            | ND          | ND                                | ND         | ND         | ND         | -                                 |
| 10    | Temperature                                        | ° C   | 25               | 25          | 25            | 25          | 25                                | 25         | 25         | 25         | -                                 |
| 11    | Conductivity                                       | µS/cm | 301              | 395         | 290           | 298         | 204                               | 224        | 210        | 229        | -                                 |
| 12    | Flow                                               | L/m   | 3833.5           | 12016.2     | 1143.2        | 7124.1      | 3690.8                            | -          | -          | -          | -                                 |

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