



## STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

| Date (DD-MM-YYYY) | Pressure (mmHg) | Relative Humidity (%) | Temp. (C) | Manual Rain (mm) |
|-------------------|-----------------|-----------------------|-----------|------------------|
| 01-10-2023        | 762.8           | 81.2                  | 28.7      | 0.0              |
| 02-10-2023        | 762.8           | 83.3                  | 30.4      | 62.8             |
| 03-10-2023        | 761.8           | 84.8                  | 30.8      | 9.2              |
| 04-10-2023        | 763.8           | 70.3                  | 31.8      | 0.0              |
| 05-10-2023        | 764.8           | 68.3                  | 28.6      | 18.6             |
| 06-10-2023        | 762.8           | 68.3                  | 22.8      | 34.0             |
| 07-10-2023        | 761.8           | 75.7                  | 23.8      | 68.0             |
| 08-10-2023        | 763.8           | 74.2                  | 25.8      | 90.8             |
| 09-10-2023        | 763.0           | 78.9                  | 26.8      | 21.8             |
| 10-10-2023        | 762.8           | 77.3                  | 30.8      | 0.0              |
| 11-10-2023        | 764.3           | 74.2                  | 30.3      | 0.0              |
| 12-10-2023        | 763.2           | 70.6                  | 29.5      | 2.0              |
| 13-10-2023        | 763.6           | 90.2                  | 30.2      | 0.0              |
| 14-10-2023        | 762.2           | 76.4                  | 29.5      | 0.0              |
| 15-10-2023        | 762.5           | 72.2                  | 27.2      | 0.0              |
| 16-10-2023        | 763.2           | 79.4                  | 30.9      | 0.0              |
| 17-10-2023        | 763.8           | 84.8                  | 30.8      | 0.0              |
| 18-10-2023        | 764.3           | 70.3                  | 31.8      | 0.0              |
| 19-10-2023        | 761.8           | 68.3                  | 28.6      | 0.0              |
| 20-10-2023        | 764.0           | 68.3                  | 22.8      | 0.0              |
| 21-10-2023        | 761.8           | 75.7                  | 23.8      | 0.0              |
| 22-10-2023        | 763.8           | 74.2                  | 25.8      | 0.0              |
| 23-10-2023        | 763.0           | 78.9                  | 26.8      | 12.6             |
| 24-10-2023        | 762.8           | 77.3                  | 30.8      | 4.2              |
| 25-10-2023        | 764.3           | 74.2                  | 30.3      | 0.0              |
| 26-10-2023        | 763.2           | 70.6                  | 29.5      | 0.0              |
| 27-10-2023        | 763.6           | 90.2                  | 30.2      | 0.0              |
| 28-10-2023        | 762.2           | 76.4                  | 29.5      | 0.0              |
| 29-10-2023        | 762.5           | 72.2                  | 27.2      | 0.0              |
| 30-10-2023        | 763.2           | 79.4                  | 30.9      | 0.0              |
| 31-10-2023        | 763.6           | 72.2                  | 27.2      | 0.0              |
|                   |                 |                       | Total     | 324.0            |

|                                                                                                                                               |                                                              |                                                                                                   |                                      |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                              | <b>STAR CEMENT MEGHALAYA LIMITED</b><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/2023-24/07                                                                                               |                                                              |                                                                                                   | Month : October                      |                                                                                                      |
| Location of Sampling: Vishwakarma Colony                                                                                                      |                                                              | GPS Coordinate: 25°10'46"N 92°23'17"E 552 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> )                                                                 |
| 04.10.2023                                                                                                                                    | 25.87                                                        | 18.91                                                                                             | 16.54                                | 20.74                                                                                                |
| 06.10.2023                                                                                                                                    | 28.04                                                        | 18.77                                                                                             | 15.59                                | 19.31                                                                                                |
| 10.10.2023                                                                                                                                    | 23.84                                                        | 17.45                                                                                             | 16.57                                | 20.24                                                                                                |
| 12.10.2023                                                                                                                                    | 30.17                                                        | 16.91                                                                                             | 15.77                                | 19.61                                                                                                |
| 14.10.2023                                                                                                                                    | 28.87                                                        | 15.77                                                                                             | 15.55                                | 17.44                                                                                                |
| 17.10.2023                                                                                                                                    | 26.73                                                        | 18.61                                                                                             | 14.50                                | 19.41                                                                                                |
| 19.10.2023                                                                                                                                    | 25.86                                                        | 17.72                                                                                             | 14.18                                | 18.63                                                                                                |
| 21.10.2023                                                                                                                                    | 28.87                                                        | 17.42                                                                                             | 14.58                                | 18.24                                                                                                |
| 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 MEGHALAYA LIMITED</b><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/2023-24/07                                                                                               |                                                              |                                                                                                   | Month : October                      |                                                                                                      |
| 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> )                                                                 |
| 04.10.2023                                                                                                                                    | 62.19                                                        | 38.96                                                                                             | 15.78                                | 21.33                                                                                                |
| 06.10.2023                                                                                                                                    | 56.84                                                        | 39.84                                                                                             | 15.86                                | 19.09                                                                                                |
| 10.10.2023                                                                                                                                    | 59.07                                                        | 40.50                                                                                             | 16.32                                | 17.07                                                                                                |
| 12.10.2023                                                                                                                                    | 63.06                                                        | 38.83                                                                                             | 15.77                                | 16.00                                                                                                |
| 14.10.2023                                                                                                                                    | 60.39                                                        | 36.66                                                                                             | 14.29                                | 15.25                                                                                                |
| 17.10.2023                                                                                                                                    | 61.89                                                        | 39.03                                                                                             | 12.61                                | 16.11                                                                                                |
| 19.10.2023                                                                                                                                    | 67.44                                                        | 43.42                                                                                             | 12.61                                | 16.11                                                                                                |
| 21.10.2023                                                                                                                                    | 63.55                                                        | 40.71                                                                                             | 12.61                                | 16.11                                                                                                |
| 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 MEGHALAYA LIMITED</b><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/2023-24/07                                                                                                      |                                                              |                                                                                                   | Month : October                      |                                                                                                      |
| Location of Sampling: Near STP                                                                                                                       |                                                              | GPS Coordinate: 25°10'49"N 92°23'58"E 947 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> )                                                                 |
| 04.10.2023                                                                                                                                           | 26.18                                                        | 20.59                                                                                             | 16.27                                | 22.25                                                                                                |
| 06.10.2023                                                                                                                                           | 28.18                                                        | 19.56                                                                                             | 17.47                                | 25.75                                                                                                |
| 10.10.2023                                                                                                                                           | 29.50                                                        | 21.89                                                                                             | 14.79                                | 18.38                                                                                                |
| 12.10.2023                                                                                                                                           | 33.85                                                        | 23.05                                                                                             | 15.41                                | 20.38                                                                                                |
| 14.10.2023                                                                                                                                           | 31.47                                                        | 21.41                                                                                             | 16.09                                | 22.25                                                                                                |
| 17.10.2023                                                                                                                                           | 29.17                                                        | 19.87                                                                                             | 16.81                                | 20.04                                                                                                |
| 19.10.2023                                                                                                                                           | 33.40                                                        | 17.40                                                                                             | 16.09                                | 21.28                                                                                                |
| 21.10.2023                                                                                                                                           | 31.69                                                        | 15.57                                                                                             | 15.14                                | 19.29                                                                                                |
| 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 MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya |                                                                                                          |             |                                                                                                                      | Reference No. | SCML/Env/F-02 |            |
|                                                                                                                                                               |                                                              |                                                                                                          |             |                                                                                                                      | Issue No.     | 1             |            |
|                                                                                                                                                               | <b>STACK EMISSION MONITORING ANALYSIS REPORT</b>             |                                                                                                          |             |                                                                                                                      | Date of Issue | 01.05.2019    |            |
|                                                                                                                                                               |                                                              |                                                                                                          |             |                                                                                                                      | Revision No.  | 5             |            |
| Report No: SCML/ENV/STACK/MONTHLY/2023-24/07                                                                                                                  |                                                              |                                                                                                          |             |                                                                                                                      | Date of Rev.  |               | 01.06.2021 |
| <p align="center"><b>Analysis Result</b></p>                                                                                                                  |                                                              |                                                                                                          |             |                                                                                                                      |               |               |            |
| <b>A. General Information About Stack</b>                                                                                                                     |                                                              |                                                                                                          |             |                                                                                                                      |               |               |            |
| 1                                                                                                                                                             | Stack Identification No                                      | S-1                                                                                                      | S-2         | S-3                                                                                                                  | S-4           | S-5           |            |
| 2                                                                                                                                                             | Stack Connected to                                           | LS Crusher                                                                                               | Add Crusher | Kiln/Raw Mill                                                                                                        | Coal Mill     | Cooler        |            |
| 3                                                                                                                                                             | Material of Construction (Stack/Duct)                        | Mild Steel                                                                                               | Mild Steel  | Mild Steel                                                                                                           | Mild Steel    | Mild Steel    |            |
| 4                                                                                                                                                             | Shape of duct                                                | Circular                                                                                                 | Circular    | Circular                                                                                                             | Circular      | Circular      |            |
| 5                                                                                                                                                             | Whether duct is provided with permanent platform & ladder    | Yes                                                                                                      | Yes         | Yes                                                                                                                  | Yes           | Yes           |            |
| <b>B. Physical characteristic of stack</b>                                                                                                                    |                                                              |                                                                                                          |             |                                                                                                                      |               |               |            |
| 1                                                                                                                                                             | Stack Height from ground level (meter)                       | 24.2                                                                                                     | 21.0        | 70.0                                                                                                                 | 59.5          | 50.0          |            |
| 2                                                                                                                                                             | Duct diameter at sampling point (meter)                      | 1.6                                                                                                      | 1.2         | 5.8                                                                                                                  | 1.8           | 4.0           |            |
| 3                                                                                                                                                             | Sampling height point from ground level (meter)              | -                                                                                                        | -           | 23.15                                                                                                                | 10.38         | -             |            |
| 4                                                                                                                                                             | Cross sectional area of Duct/Stack (m <sup>2</sup> )         | 2.01                                                                                                     | 1.13        | 26.41                                                                                                                | 2.54          | 12.56         |            |
| <b>C. Pollution Control Device</b>                                                                                                                            |                                                              |                                                                                                          |             |                                                                                                                      |               |               |            |
| 1                                                                                                                                                             | Details of pollution control device attached to stack        | Bag Filter                                                                                               | Bag Filter  | Reverse Air Bag House                                                                                                | Bag Filter    | ESP           |            |
| <b>D. Result of Sampling &amp; Analysis of Gaseous Emission</b>                                                                                               |                                                              |                                                                                                          |             |                                                                                                                      |               |               |            |
| 1                                                                                                                                                             | Date of Sampling                                             | 12.10.2023                                                                                               | 12.10.2023  | 20.10.2023                                                                                                           | 20.10.2023    | 20.10.2023    |            |
| 2                                                                                                                                                             | Ambient Temp (°C)                                            | 24                                                                                                       | 26          | 27                                                                                                                   | 25            | 36            |            |
| 3                                                                                                                                                             | Stack Gas Temp (°C)                                          | 28                                                                                                       | 30          | 145                                                                                                                  | 70            | 125           |            |
| 4                                                                                                                                                             | Exit Velocity of Gas (m/sec.)                                | 13.39                                                                                                    | 12.50       | 8.15                                                                                                                 | 13.80         | 8.89          |            |
| 5                                                                                                                                                             | Flow Rate (Nm <sup>3</sup> / sec.)                           | 25.08                                                                                                    | 12.97       | 144.45                                                                                                               | 30.07         | 79.32         |            |
| 6                                                                                                                                                             | Quantity of Emission (Nm <sup>3</sup> / Hr)                  | 90297.11                                                                                                 | 46693.11    | 520031.99                                                                                                            | 108252.61     | 285539.53     |            |
| 7                                                                                                                                                             | Concentration of PM (mg/Nm <sup>3</sup> )                    | 15.5                                                                                                     | 18.2        | 13.9                                                                                                                 | 24.3          | 16.2          |            |
| 8                                                                                                                                                             | Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )       | -                                                                                                        | -           | 264                                                                                                                  | -             | -             |            |
| 9                                                                                                                                                             | Concentration of NOx (mg/Nm <sup>3</sup> )                   | -                                                                                                        | -           | 115                                                                                                                  | -             | -             |            |
| 10                                                                                                                                                            | Oxygen (O <sub>2</sub> ) (%)                                 | 9.0                                                                                                      | 9.5         | 9.4                                                                                                                  | 9.2           | 8.5           |            |
| <b>E. Remarks</b>                                                                                                                                             |                                                              |                                                                                                          |             |                                                                                                                      |               |               |            |
| <p align="center"><b>Standard</b></p>                                                                                                                         |                                                              |                                                                                                          |             |                                                                                                                      |               |               |            |
| PM - 30 mg/Nm <sup>3</sup>                                                                                                                                    |                                                              | SO <sub>2</sub> - 1000 mg/Nm <sup>3</sup>                                                                |             | NOx - 800 mg/Nm <sup>3</sup>                                                                                         |               |               |            |
| <i>Particulate Matter (PM), Sulphur di-oxide (SO<sub>2</sub>), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)</i> |                                                              |                                                                                                          |             |                                                                                                                      |               |               |            |
| <br><b>Analysis by</b>                                                     |                                                              | <br><b>Checked by</b> |             | <br><b>Authorized Signatory</b> |               |               |            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya |                                | Document No.                   | SCML/EHS/Env/F-04 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |                                | Date of Issued                 | 01-05-2019        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |                                | Revision No.                   | 2                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FUGITIVE EMISSION MONITORING REPORT                          |                                | Revision Date                  | 01-01-2021        |
| Ref: SCML/ENV/FUGITIVE/MONTHLY/2023-24/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                              |                                |                                |                   |
| Month - October                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |                                |                                |                   |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Location                                                     | Fugitive Emission Results      | As per CPCB/BIS Guideline      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |                                | Limit                          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              | (in $\mu\text{g}/\text{m}^3$ ) | (in $\mu\text{g}/\text{m}^3$ ) |                   |
| 09.10.2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Coal Storage Section                                         | 1124                           | 2000                           |                   |
| 09.10.2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Limestone Storage Section                                    | 1230                           | 5000                           |                   |
| 09.10.2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Clinker Loading Section                                      | 1532                           | 2000                           |                   |
| <div style="display: flex; justify-content: space-around; align-items: flex-end; margin-top: 200px;"> <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> |                                                              |                                |                                |                   |

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|-----------------------------------------------------------------------------------|--------------------------------------------------------------|--|--|--------------|----------------|---------------|
|  | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya |  |  |              | Reference No.  | SCML/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.: SCML/ENV/WATER/MONTHLY/2023-24/07
 

Date of sample collection: 10.10.2023  
 Date of Analysis: 10.10.2023 to 13.10.2023

| Sl.No. | Parameter                                       | Unit  | STP Inlet  | STP Outlet | Standard Norms For Discharge of Environment Pollution<br>(Notification Date: - 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 - dated Shillong, the 3rd Sep,2014 |
|--------|-------------------------------------------------|-------|------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | pH                                              | -     | 7.6        | 7.8        | 5.5 to 9.0                                                                                                                                                                                              |
| 2      | Colour                                          | Hazen | Colourless | Colourless | -                                                                                                                                                                                                       |
| 3      | Odour                                           | -     | Odourless  | Odourless  | -                                                                                                                                                                                                       |
| 4      | Chloride                                        | mg/L  | 73         | 74.4       | -                                                                                                                                                                                                       |
| 5      | Total Hardness as CaCO <sub>3</sub>             | mg/L  | 51.0       | 52.2       | -                                                                                                                                                                                                       |
| 6      | Suspended Solids                                | mg/L  | 60         | 17.0       | 100                                                                                                                                                                                                     |
| 7      | Total Dissolve Solids                           | mg/L  | 256        | 299        | -                                                                                                                                                                                                       |
| 8      | Chemical Oxygen Demand                          | mg/L  | 170        | 55         | 250                                                                                                                                                                                                     |
| 9      | Biochemical Oxygen Demand (For 3 days at 27 °C) | mg/L  | 78         | 18.3       | 30                                                                                                                                                                                                      |
| 10     | Oil & Grease                                    | mg/L  | 1.0        | < 3.0      | 10                                                                                                                                                                                                      |
| 11     | Temperature                                     | ° C   | 25         | 25         | Shall not exceed 5.0°C above the receiving water temperature                                                                                                                                            |
| 12     | Conductivity                                    | µS/cm | 477        | 559        | -                                                                                                                                                                                                       |


  
Analysis By


  
Checked By


  
Verified By

|                                                                                   |                                                              |  |  |              |                |               |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------|--|--|--------------|----------------|---------------|
|  | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya |  |  |              | Reference No.  | SCML/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.: SCML/ENV/WATER/MONTHLY/2023-24/07

Date of sample collection: 10.10.2023

Date of Analysis: 10.10.2023 to 13.10.2023

| Sl.No. | Parameter                                          | Unit | ETP Inlet | ETP 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 -<br>dated Shillong, the 3rd Sep,2014 |
|--------|----------------------------------------------------|------|-----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | pH                                                 | -    | 7.0       | 7.6        | 5.5 to 9.0                                                                                                                                                                                                    |
| 2      | Suspended Solids                                   | mg/L | 96.8      | 47         | 100                                                                                                                                                                                                           |
| 3      | Total Dissolve Solids                              | mg/L | 401       | 298        | -                                                                                                                                                                                                             |
| 4      | Chemical Oxygen Demand                             | mg/L | 317       | 48         | 250                                                                                                                                                                                                           |
| 5      | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L | 98        | 22         | 30                                                                                                                                                                                                            |
| 6      | Oil & Grease                                       | mg/L | 5.4       | < 3.0      | 10                                                                                                                                                                                                            |
| 7      | Dissolved Oxygen                                   | mg/L | 5.0       | 5.5        | -                                                                                                                                                                                                             |
| 8      | Temperature                                        | ° C  | 25        | 25         | Shall not exceed 5.0°C above the<br>receiving water temperature                                                                                                                                               |

  
Analysis By

  
Checked By

  
Verified By

|                                                                                                                                                                                                                                                                                            | <div>STAR CEMENT MEGHALAYA LIMITED</div> <div>Lumshnong, Meghalaya</div> |         |                  |             |               |             |             |            |                                   |            |                                            | Reference No.  | SCML/EHS/F-04                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------|------------------|-------------|---------------|-------------|-------------|------------|-----------------------------------|------------|--------------------------------------------|----------------|-----------------------------------|--|
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                          |         |                  |             |               |             |             |            |                                   |            |                                            | Issue No.      | 1                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                          |         |                  |             |               |             |             |            |                                   |            |                                            | Date of Issue: | 24.08.2013                        |  |
|                                                                                                                                                                                                                                                                                                                                                                            | WATER TESTING REPORT                                                     |         |                  |             |               |             |             |            |                                   |            |                                            | Revision No.   | 3                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                          |         |                  |             |               |             |             |            |                                   |            | Date of Rev.                               | 01.06.2019     |                                   |  |
| Reference No.: SCML/ENV/WATER/MONTHLY/2023-24/07                                                                                                                                                                                                                                                                                                                           |                                                                          |         |                  |             |               |             |             |            |                                   |            | Date of sample collection: 09.10.2023      |                |                                   |  |
| Surface Water Analysis Results                                                                                                                                                                                                                                                                                                                                             |                                                                          |         |                  |             |               |             |             |            |                                   |            | Date of Analysis: 09.10.2023 to 12.10.2023 |                |                                   |  |
| S.No.                                                                                                                                                                                                                                                                                                                                                                      | Parameter                                                                | Unit    | Umtyrngai Nallah |             | Umutha Nallah |             | Umso Nalah  | Seshympa   | Umbadoh                           | Tongseng   | Lumshnong                                  | Wahiajer       | Standards norms<br>as per IS 2296 |  |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                          |         | Up Stream        | Down Stream | Up Stream     | Down Stream | Down Stream |            | Seasonal Spring / Seasonal Nallah |            |                                            |                |                                   |  |
| 1                                                                                                                                                                                                                                                                                                                                                                          | pH                                                                       | -       | 7.5              | 7.8         | 7.6           | 8.0         | 8.1         | 7.2        | 7.4                               | 7.5        | 7.1                                        | 7.5            | 6.5 - 8.5                         |  |
| 2                                                                                                                                                                                                                                                                                                                                                                          | Colour                                                                   | Hazen   | Colourless       | Colourless  | Colourless    | Colourless  | Colourless  | Colourless | Colourless                        | Colourless | Colourless                                 | Colourless     | 10                                |  |
| 3                                                                                                                                                                                                                                                                                                                                                                          | Odour                                                                    | -       | Unobjectionable  |             |               |             |             |            |                                   |            |                                            |                | Unobjectionable                   |  |
| 4                                                                                                                                                                                                                                                                                                                                                                          | Chloride                                                                 | mg/L    | 22.2             | 26.9        | 24.8          | 25.5        | 28.2        | 23.0       | 30.8                              | 23.6       | 25.5                                       | 23.8           | 250                               |  |
| 5                                                                                                                                                                                                                                                                                                                                                                          | Total Hardness as CaCO <sub>3</sub>                                      | mg/L    | 43.2             | 65.2        | 73.4          | 78.8        | 82.8        | 45.8       | 18.0                              | 22.0       | 26.4                                       | 43.0           | 300                               |  |
| 6                                                                                                                                                                                                                                                                                                                                                                          | Suspended Solids                                                         | mg/L    | 5.0              | 10.6        | 8.2           | 9.0         | 10.0        | 1.4        | 2.0                               | 3.0        | 1.5                                        | 2.0            | -                                 |  |
| 7                                                                                                                                                                                                                                                                                                                                                                          | Total Dissolve Solids                                                    | mg/L    | 277.2            | 284.6       | 234.7         | 294.0       | 310.2       | 103.9      | 176.1                             | 29.0       | 38.9                                       | 180.9          | 500                               |  |
| 8                                                                                                                                                                                                                                                                                                                                                                          | Biochemical Oxygen Demand<br>(For 3 days at 27 °C)                       | mg/L    | ND               | ND          | ND            | ND          | ND          | ND         | ND                                | ND         | ND                                         | ND             | 2.0                               |  |
| 9                                                                                                                                                                                                                                                                                                                                                                          | Oil & Grease                                                             | mg/L    | ND               | ND          | ND            | ND          | ND          | ND         | ND                                | ND         | ND                                         | ND             | -                                 |  |
| 10                                                                                                                                                                                                                                                                                                                                                                         | Temperature                                                              | ° C     | 25.0             | 25.0        | 25.0          | 25.0        | 25.0        | 25.0       | 25.0                              | 25.0       | 25.0                                       | 25.0           | -                                 |  |
| 11                                                                                                                                                                                                                                                                                                                                                                         | Conductivity                                                             | µS/cm   | 440.0            | 456.0       | 280.2         | 473.5       | 494.4       | 165.6      | 287.7                             | 48.0       | 61.6                                       | 293.3          | -                                 |  |
| 12                                                                                                                                                                                                                                                                                                                                                                         | Flow                                                                     | L / Min | 9822.5           | 20092.4     | 4454.0        | 9704.6      | 9598.2      | 275863.6   |                                   |            | 296.4                                      |                | -                                 |  |
| <div>  <div>Analyzed by</div> </div> <div>  <div>Checked by</div> </div> <div>  <div>Verified by</div> </div> |                                                                          |         |                  |             |               |             |             |            |                                   |            |                                            |                |                                   |  |