

# STAR CEMENT MEGHALAYA LIMITED

Regd. Office & Works : Lunshnong, PO-Khaliehriat, Distt.- East Jaintia Hills, Meghalaya-793210  
Ph: 03655-278215/16/18, Fax: 03655-278217, e-mail: [lunshnong@starcement.co.in](mailto:lunshnong@starcement.co.in)

Ref: SCML/EHS/LUM/2021-22/32

Dated: 25/02/2022

To,

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

Subject: Monthly Environmental Monitoring Report.

Ref. No.: MPCB/TB-115-2009/2020-2021/08, Dated. Shillong, the 26<sup>th</sup> March, 2021.

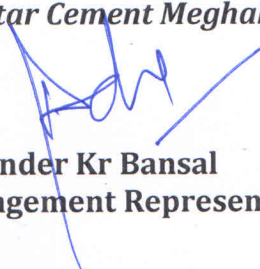
Dear Sir,

Please find enclosed herewith the monthly Environmental monitoring reports of Ambient Air Quality including meteorological, Stack Emission, Fugitive Emission & Water quality (STP, ETP & surface) monitoring reports of **M/s Star Cement Meghalaya Limited** for the month of **January, 2022** for your kind perusal.

This is for your kind information record please.

With Best Regards

For **Star Cement Meghalaya Limited**

  
**Devender Kr Bansal**  
Management Representative

**Enclosed:** As mentioned above

- CC to: 1) The Deputy Director General of Forest (Central), Ministry of Environment Forest & Climate Change Govt. of India, Regional Office, Shillong, Meghalaya - 793021.  
2) The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-793 014.

**STARCEMENT**  
**Solid Setting**

Corporate Office : Satyam Tower, 3 Alipore Road, 1<sup>st</sup> Floor, Unit No. 9B, Kolkata-700027  
Ph: +91 33 2448 4169 / 4170 / 4693, Fax: +91 332448 4168, e-mail: [kolkata@starcement.co.in](mailto:kolkata@starcement.co.in)  
CIN : U63090ML2005PLC008011

|                                                                                   |                                                       |                                             |                         |                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------------|-------------------------|
|  | STAR CEMENT MEGHALAYA LIMITED<br>Lumshnong, Meghalaya |                                             | Reference No.           | SCML/Env/F – 01         |
|                                                                                   |                                                       |                                             | Issue No.               | 1                       |
|                                                                                   |                                                       |                                             | Date of Issue:          | 24.08.2013              |
|                                                                                   | AMBIENT AIR QUALITY MONITORING REPORT                 |                                             | Revision No.            | 5                       |
|                                                                                   |                                                       |                                             | Date of Rev.            | 01.12.2020              |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2021-22/27                                   |                                                       | Month: Jan'22                               |                         |                         |
| 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/m³)                              | PM <sub>2.5</sub> ( µg/m³)                  | SO <sub>2</sub> (µg/m³) | NO <sub>2</sub> (µg/m³) |
| 05-01-2022                                                                        | 52.47                                                 | 33.25                                       | 12.52                   | 18.24                   |
| 08-01-2022                                                                        | 49.24                                                 | 31.45                                       | 14.67                   | 15.24                   |
| 11-01-2022                                                                        | 53.29                                                 | 35.98                                       | 13.48                   | 17.29                   |
| 14-01-2022                                                                        | 48.34                                                 | 36.24                                       | 12.97                   | 16.54                   |
| 18-01-2022                                                                        | 48.29                                                 | 34.29                                       | 11.35                   | 15.48                   |
| 22-01-2022                                                                        | 54.72                                                 | 33.67                                       | 15.49                   | 18.34                   |
| 25-01-2022                                                                        | 50.45                                                 | 31.58                                       | 13.57                   | 14.24                   |
| 28-01-2022                                                                        | 51.35                                                 | 36.62                                       | 14.28                   | 16.28                   |
| NAAQS permissible limits for Rural, Industrial, Residential Area                  | 100 (µg/m³)                                           | 60 (µg/m³)                                  | 80 (µg/m³)              | 80 (µg/m³)              |

**Remarks:** All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.

  
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|                                                                                   |                                                       |                                             |                         |                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------------|-------------------------|
|  | STAR CEMENT MEGHALAYA LIMITED<br>Lumshnong, Meghalaya |                                             | Reference No.           | SCML/Env/F – 01         |
|                                                                                   |                                                       |                                             | Issue No.               | 1                       |
|                                                                                   |                                                       |                                             | Date of Issue:          | 24.08.2013              |
|                                                                                   | AMBIENT AIR QUALITY MONITORING REPORT                 |                                             | Revision No.            | 5                       |
|                                                                                   |                                                       |                                             | Date of Rev.            | 01.12.2020              |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2021-22/28                                   |                                                       | Month: Jan'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/m³)                              | PM <sub>2.5</sub> ( µg/m³)                  | SO <sub>2</sub> (µg/m³) | NO <sub>2</sub> (µg/m³) |
| 04-01-2022                                                                        | 52.63                                                 | 32.54                                       | 12.54                   | 16.94                   |
| 08-01-2022                                                                        | 51.54                                                 | 34.42                                       | 15.24                   | 16.45                   |
| 10-01-2022                                                                        | 55.14                                                 | 31.59                                       | 10.67                   | 17.57                   |
| 14-01-2022                                                                        | 53.42                                                 | 35.17                                       | 11.70                   | 17.05                   |
| 19-01-2022                                                                        | 51.25                                                 | 33.56                                       | 14.64                   | 15.24                   |
| 22-01-2022                                                                        | 49.98                                                 | 34.92                                       | 12.20                   | 16.52                   |
| 27-01-2022                                                                        | 50.37                                                 | 31.45                                       | 11.98                   | 13.34                   |
| 29-01-2022                                                                        | 54.84                                                 | 35.34                                       | 12.45                   | 16.27                   |
| NAAQS permissible limits for Rural, Industrial, Residential Area                  | 100 (µg/m³)                                           | 60 (µg/m³)                                  | 80 (µg/m³)              | 80 (µg/m³)              |

**Remarks:** All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.

  
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|-----------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------|--------------------------------------|--------------------------------------|
|  | STAR CEMENT MEGHALAYA LIMITED<br>Lumshnong, Meghalaya |                                             | Reference No.                        | SCML/Env/F – 01                      |
|                                                                                   |                                                       |                                             | Issue No.                            | 1                                    |
|                                                                                   |                                                       |                                             | Date of Issue:                       | 24.08.2013                           |
|                                                                                   | AMBIENT AIR QUALITY MONITORING REPORT                 |                                             | Revision No.                         | 5                                    |
|                                                                                   |                                                       |                                             | Date of Rev.                         | 01.12.2020                           |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2021-22/29                                   |                                                       |                                             | Month: Jan'22                        |                                      |
| 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> ) |
| 03-01-2022                                                                        | 48.54                                                 | 29.47                                       | 19.34                                | 21.65                                |
| 06-01-2022                                                                        | 49.34                                                 | 30.49                                       | 17.58                                | 24.14                                |
| 12-01-2022                                                                        | 47.25                                                 | 31.54                                       | 20.50                                | 19.34                                |
| 15-01-2022                                                                        | 51.37                                                 | 30.68                                       | 16.34                                | 17.92                                |
| 17-01-2022                                                                        | 48.39                                                 | 32.45                                       | 18.34                                | 21.38                                |
| 21-01-2022                                                                        | 49.48                                                 | 32.56                                       | 19.34                                | 25.34                                |
| 25-01-2022                                                                        | 48.46                                                 | 30.47                                       | 15.35                                | 20.45                                |
| 28-01-2022                                                                        | 50.98                                                 | 29.67                                       | 18.73                                | 18.64                                |
| NAAQS permissible limits for Rural, Industrial, Residential Area                  | 100 (µg/m <sup>3</sup> )                              | 60 (µg/m <sup>3</sup> )                     | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )              |

**Remarks:** All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.

  
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------|-------------|------------------------------|---------------|---------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <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             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                                           |             |                              | Date of Rev.  | 01.06.2021    |
| Report No: SCML/Env/Stack/Monthly/2021-22/57 Month: January'22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                              |                                           |             |                              |               |               |
| <b><u>Analysis Result</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                              |                                           |             |                              |               |               |
| <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     | Coller        |
| 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                                             | 28.01.2022                                | 12.01.2022  | 04.01.2022                   | 08.01.2022    | 19.01.2022    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ambient Temp (°C)                                            | 29                                        | 25          | 28                           | 27            | 32            |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Stack Gas Temp (°C)                                          | 36                                        | 52          | 112                          | 55            | 103           |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Exit Velocity of Gas (m/sec.)                                | 7.71                                      | 9.92        | 9.41                         | 8.11          | 7.07          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Flow Rate (Nm <sup>3</sup> / sec.)                           | 13.97                                     | 9.49        | 171.74                       | 16.76         | 65.59         |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quantity of Emission (Nm <sup>3</sup> / Hr)                  | 50279.32                                  | 34149.02    | 618279.50                    | 60337.42      | 236136.57     |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Concentration of PM (mg/Nm <sup>3</sup> )                    | 19.52                                     | 15.26       | 23.33                        | 25.24         | 17.13         |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )       | -                                         | -           | 802.99                       | -             | -             |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Concentration of NOx (mg/Nm <sup>3</sup> )                   | -                                         | -           | 224.62                       | -             | -             |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Oxygen (O <sub>2</sub> ) (%)                                 | 9.5                                       | 9.12        | 10.85                        | 8.75          | 9.67          |
| <b>E. Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |                                           |             |                              |               |               |
| Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                              |                                           |             |                              |               |               |
| PM - 30 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              | SO <sub>2</sub> - 1000 mg/Nm <sup>3</sup> |             | NOx - 800 mg/Nm <sup>3</sup> |               |               |
| Particulate Matter (PM), Sulphur di-oxide (SO <sub>2</sub> ), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)                                                                                                                                                                                                                                                                                                                                                                                                         |                                                              |                                           |             |                              |               |               |
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <br/> <b>Analysis by</b> </div> <div style="text-align: center;"> <br/> <b>Checked by</b> </div> <div style="text-align: center;"> <br/> <b>Authorized Signatory</b> </div> </div> |                                                              |                                           |             |                              |               |               |

|                                                                                   |                                          |                |                   |
|-----------------------------------------------------------------------------------|------------------------------------------|----------------|-------------------|
|  | <b>STAR CEMENT MEGHALAYA<br/>LIMITED</b> | 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/2021-22/010

Month - Jan 2022

| Date       | Location                  | Fugitive Emission Results      | Limit                          |
|------------|---------------------------|--------------------------------|--------------------------------|
|            |                           | (in $\mu\text{g}/\text{m}^3$ ) | (in $\mu\text{g}/\text{m}^3$ ) |
| 07.01.2022 | Coal Storage Section      | 1356                           | 2000                           |
| 07.01.2022 | Limestone Storage Section | 1323                           | 5000                           |
| 07.01.2022 | Clinker Loading Section   | 1505                           | 2000                           |

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

|                 |                                            |
|-----------------|--------------------------------------------|
| Report No. - 10 | Date of sample collection: - 11.01.2022    |
|                 | Date of Analysis: 11.01.2022 to 14.01.2022 |

| Sr.No. | Parameter                                          | Unit  | STP Inlet  | 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                                                 | -     | 7.81       | -                                                                                                                                                                                                       |
| 2      | Colour                                             | Hazen | Colourless | -                                                                                                                                                                                                       |
| 3      | Odour                                              | -     | Odourless  | -                                                                                                                                                                                                       |
| 4      | Chloride                                           | mg/L  | 60.4       | -                                                                                                                                                                                                       |
| 5      | Total Hardness as CaCO <sub>3</sub>                | mg/L  | 147.2      | -                                                                                                                                                                                                       |
| 6      | Suspended Solids                                   | mg/L  | 80.6       | -                                                                                                                                                                                                       |
| 7      | Total Dissolve Solids                              | mg/L  | 261        | -                                                                                                                                                                                                       |
| 8      | Chemical Oxygen Demand                             | mg/L  | 268        | -                                                                                                                                                                                                       |
| 9      | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L  | 147.5      | -                                                                                                                                                                                                       |
| 10     | Oil & Grease                                       | mg/L  | 8.2        | -                                                                                                                                                                                                       |
| 11     | Temperature                                        | ° C   | 24.5       | -                                                                                                                                                                                                       |
| 12     | Conductivity                                       | μS/cm | 420.4      | -                                                                                                                                                                                                       |

  
Analysis By

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

Report No. - 10

Date of sample collection: - 11.01.2022

Date of Analysis: 11.01.2022 to 14.01.2022

| Sr.No. | Parameter                                          | Unit  | 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 -<br>dated Shillong, the 3rd Sep,2014 |
|--------|----------------------------------------------------|-------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | pH                                                 | -     | 7.30       | 5.5 to 9.0                                                                                                                                                                                                    |
| 2      | Colour                                             | Hazen | Colourless | -                                                                                                                                                                                                             |
| 3      | Odour                                              | -     | Odourless  | -                                                                                                                                                                                                             |
| 4      | Chloride                                           | mg/L  | 55.7       | -                                                                                                                                                                                                             |
| 5      | Total Hardness as CaCO <sub>3</sub>                | mg/L  | 143.2      | -                                                                                                                                                                                                             |
| 6      | Suspended Solids                                   | mg/L  | 8.5        | 100                                                                                                                                                                                                           |
| 7      | Total Dissolve Solids                              | mg/L  | 254        | -                                                                                                                                                                                                             |
| 8      | Chemical Oxygen Demand                             | mg/L  | 42.3       | 250                                                                                                                                                                                                           |
| 9      | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L  | 6.4        | 30                                                                                                                                                                                                            |
| 10     | Oil & Grease                                       | mg/L  | < 3.0      | 10                                                                                                                                                                                                            |
| 11     | Temperature                                        | ° C   | 25.2       | Shall not exceed 5.0°C above the receiving<br>water temperature                                                                                                                                               |
| 12     | Conductivity                                       | μS/cm | 408        | -                                                                                                                                                                                                             |

  
Analysis By

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

Report No. - 05

Date of sample collection: - 11.01.2022  
Date of Analysis: 11.01.2022 to 14.01.2022

| Sr.No. | Parameter                                          | Unit | ETP Inlet | 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                                                 | -    | 7.9       | -                                                                                                                                                                                                       |
| 2      | Suspended Solids                                   | mg/L | 74        | -                                                                                                                                                                                                       |
| 3      | Total Dissolve Solids                              | mg/L | 754       | -                                                                                                                                                                                                       |
| 4      | Chemical Oxygen Demand                             | mg/L | 328.0     | -                                                                                                                                                                                                       |
| 5      | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L | 71.4      | -                                                                                                                                                                                                       |
| 6      | Oil & Grease                                       | mg/L | 122.8     | -                                                                                                                                                                                                       |
| 7      | Dissolved Oxygen                                   | mg/L | 2.4       | -                                                                                                                                                                                                       |
| 8      | Temperature                                        | ° C  | 24.8      | -                                                                                                                                                                                                       |

  
Analysis By

  
Checked By

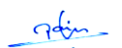
  
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|-----------------------------------------------------------------------------------|-------------------------------------------------------|----------------|--------------|
|  | STAR CEMENT MEGHALAYA LIMITED<br>Lumshnong, Meghalaya | Reference No.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

Report No. - 10

Date of sample collection: - 11.01.2022  
Date of Analysis: 11.01.2022 to 14.01.2022

| Sr.No. | Parameter                                          | Unit | ETP 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                                                 | -    | 7.3        | 5.5 to 9.0                                                                                                                                                                                              |
| 2      | Suspended Solids                                   | mg/L | 17         | 100                                                                                                                                                                                                     |
| 3      | Total Dissolve Solids                              | mg/L | 690        | -                                                                                                                                                                                                       |
| 4      | Chemical Oxygen Demand                             | mg/L | 25.1       | 250                                                                                                                                                                                                     |
| 5      | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L | 3.7        | 30                                                                                                                                                                                                      |
| 6      | Oil & Grease                                       | mg/L | 2.2        | 10                                                                                                                                                                                                      |
| 7      | Dissolved Oxygen                                   | mg/L | 6.4        | -                                                                                                                                                                                                       |
| 8      | Temperature                                        | ° C  | 25.15      | Shall not exceed 5.0°C above the receiving water temperature                                                                                                                                            |

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

Report No. -10

Date of sample collection: - 13.01.2022

Date of Analysis: 13.01.2022 to 17.01.2022

| Sr.No. | Parameter                                          | Unit  | Nala Up Stream  | Nala Down Stream | Standards norms<br>as per IS 2296 |
|--------|----------------------------------------------------|-------|-----------------|------------------|-----------------------------------|
| 1      | pH                                                 | -     | 7.85            | 7.69             | 6.5 - 8.5                         |
| 2      | Colour                                             | Hazen | Colourless      | Colourless       | 300                               |
| 3      | Odour                                              | -     | Unobjectionable | Unobjectionable  | Unobjectionable                   |
| 4      | Chloride                                           | mg/L  | 143.3           | 146.1            | -                                 |
| 5      | Total Hardness as CaCO <sub>3</sub>                | mg/L  | 14.9            | 14.1             | 300                               |
| 6      | Suspended Solids                                   | mg/L  | 87.9            | 82.4             | -                                 |
| 7      | Total Dissolve Solids                              | mg/L  | 87              | 82.5             | 500                               |
| 8      | Chemical Oxygen Demand                             | mg/L  | ND              | ND               | -                                 |
| 9      | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L  | ND              | ND               | 2.0                               |
| 10     | Oil & Grease                                       | mg/L  | ND              | ND               | -                                 |
| 11     | Temperature                                        | ° C   | 26.90           | 27.67            | -                                 |
| 12     | Conductivity                                       | μS/cm | 330.04          | 325.42           | -                                 |



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