

# STAR CEMENT MEGHALAYA LIMITED

Ref: SCML/EHS/LUM/2024-25/33

Dated: 05/10/2024

To,

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

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

**Reference** : MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2024-2025/51-A, Dtd: Shillong, the 24<sup>th</sup> April, 2024.

Dear Sir,

This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality monitoring including meteorological data, Stack Emission, Fugitive Emission, Waste monitoring (Surface, STP, ETP) reports of **Star Cement Meghalaya Limited** for the month of **September, 2024**.

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

Thanking You,

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



**Laxmaiah Munjala**  
Unit Head

Enclosed: a/a

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



## STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

| Date (DD-MM-YYYY) | Pressure (mmHg) | Relative Humidity (%) | Temp. (C) | Manual Rain (mm) |
|-------------------|-----------------|-----------------------|-----------|------------------|
| 01-09-2024        | 717.6           | 72.8                  | 18.2      | 0.0              |
| 02-09-2024        | 715.0           | 71.6                  | 17.5      | 0.0              |
| 03-09-2024        | 714.7           | 72.4                  | 18.4      | 12.2             |
| 04-09-2024        | 720.9           | 70.7                  | 18.2      | 0.0              |
| 05-09-2024        | 718.2           | 70.5                  | 18.1      | 0.0              |
| 06-09-2024        | 724.0           | 71.8                  | 17.5      | 0.0              |
| 07-09-2024        | 718.6           | 70.6                  | 20.0      | 0.0              |
| 08-09-2024        | 721.3           | 70.4                  | 19.0      | 0.0              |
| 09-09-2024        | 722.9           | 70.6                  | 18.0      | 0.0              |
| 10-09-2024        | 720.6           | 71.7                  | 18.4      | 0.0              |
| 11-09-2024        | 718.6           | 74.9                  | 18.5      | 0.0              |
| 12-09-2024        | 718.1           | 74.0                  | 20.2      | 0.0              |
| 13-09-2024        | 718.5           | 78.2                  | 18.3      | 0.0              |
| 14-09-2024        | 721.3           | 75.3                  | 18.4      | 0.0              |
| 15-09-2024        | 721.5           | 75.5                  | 19.3      | 0.0              |
| 16-09-2024        | 720.9           | 72.7                  | 18.9      | 0.0              |
| 17-09-2024        | 719.3           | 79.0                  | 16.1      | 12.0             |
| 18-09-2024        | 717.7           | 78.2                  | 14.7      | 0.0              |
| 19-09-2024        | 715.3           | 71.2                  | 16.4      | 0.0              |
| 20-09-2024        | 720.9           | 64.2                  | 16.3      | 0.0              |
| 21-09-2024        | 721.4           | 67.2                  | 17.8      | 0.0              |
| 22-09-2024        | 719.1           | 72.0                  | 18.1      | 0.0              |
| 23-09-2024        | 721.3           | 71.5                  | 18.2      | 0.0              |
| 24-09-2024        | 722.9           | 69.4                  | 19.4      | 2.2              |
| 25-09-2024        | 721.3           | 72.1                  | 18.2      | 9.2              |
| 26-09-2024        | 716.1           | 68.8                  | 17.4      | 4.0              |
| 27-09-2024        | 722.8           | 71.7                  | 17.9      | 2.6              |
| 28-09-2024        | 720.6           | 73.1                  | 18.4      | 25.2             |
| 29-09-2024        | 719.4           | 75.2                  | 15.1      | 44.0             |
| 30-09-2024        | 719.4           | 75.2                  | 15.1      | 26.4             |
|                   |                 |                       | Total     | 137.8            |

|                                                                                                                                                      |                                                              |                                                                                                   |                                      |                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                                     | <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/2024-25/18                                                                                                      |                                                              |                                                                                                   | Month : September                    |                                                                                                      |
| Location of Sampling: Near Worker 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> )                                                                 |
| 02.09.2024                                                                                                                                           | 38.42                                                        | 28.63                                                                                             | 17.28                                | 18.97                                                                                                |
| 05.09.2024                                                                                                                                           | 40.59                                                        | 28.49                                                                                             | 16.33                                | 17.54                                                                                                |
| 07.09.2024                                                                                                                                           | 36.39                                                        | 27.17                                                                                             | 17.31                                | 18.47                                                                                                |
| 10.09.2024                                                                                                                                           | 42.72                                                        | 26.63                                                                                             | 16.51                                | 17.84                                                                                                |
| 12.09.2024                                                                                                                                           | 41.42                                                        | 25.49                                                                                             | 16.29                                | 15.67                                                                                                |
| 14.09.2024                                                                                                                                           | 39.28                                                        | 28.33                                                                                             | 17.11                                | 17.64                                                                                                |
| 18.09.2024                                                                                                                                           | 38.41                                                        | 27.44                                                                                             | 16.80                                | 16.86                                                                                                |
| 20.09.2024                                                                                                                                           | 41.42                                                        | 27.14                                                                                             | 15.32                                | 16.47                                                                                                |
| 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 – 01                                                                                      |
|                                                                                                                                                      |                                                              |                                                                                                   | Issue No.                            | 1                                                                                                    |
|                                                                                                                                                      | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                 |                                                                                                   | Date of Issue:                       | 24.08.2013                                                                                           |
|                                                                                                                                                      |                                                              |                                                                                                   | Revision No.                         | 5                                                                                                    |
|                                                                                                                                                      |                                                              |                                                                                                   | Date of Rev.                         | 01.12.2020                                                                                           |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/18                                                                                                      |                                                              |                                                                                                   | Month : September                    |                                                                                                      |
| 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> )                                                                 |
| 02.09.2024                                                                                                                                           | 72.75                                                        | 46.69                                                                                             | 16.52                                | 19.56                                                                                                |
| 05.09.2024                                                                                                                                           | 67.40                                                        | 47.57                                                                                             | 15.86                                | 19.09                                                                                                |
| 07.09.2024                                                                                                                                           | 70.63                                                        | 49.23                                                                                             | 16.32                                | 17.07                                                                                                |
| 10.09.2024                                                                                                                                           | 74.62                                                        | 47.56                                                                                             | 16.32                                | 17.07                                                                                                |
| 12.09.2024                                                                                                                                           | 63.04                                                        | 36.48                                                                                             | 16.32                                | 17.07                                                                                                |
| 14.09.2024                                                                                                                                           | 64.54                                                        | 38.85                                                                                             | 16.32                                | 17.07                                                                                                |
| 18.09.2024                                                                                                                                           | 76.03                                                        | 49.18                                                                                             | 16.32                                | 17.07                                                                                                |
| 20.09.2024                                                                                                                                           | 72.14                                                        | 46.47                                                                                             | 16.32                                | 17.07                                                                                                |
| 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 |

|                                                                                                                                                      |                                                              |                                                                                                   |                                      |                                                                                                      |
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|                                                                     | <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/2024-25/18                                                                                                      |                                                              |                                                                                                   | Month : September                    |                                                                                                      |
| 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> )                                                                 |
| 02.09.2024                                                                                                                                           | 49.73                                                        | 41.31                                                                                             | 17.01                                | 20.48                                                                                                |
| 05.09.2024                                                                                                                                           | 51.73                                                        | 40.28                                                                                             | 18.21                                | 23.98                                                                                                |
| 07.09.2024                                                                                                                                           | 47.26                                                        | 36.82                                                                                             | 15.53                                | 16.61                                                                                                |
| 10.09.2024                                                                                                                                           | 51.61                                                        | 37.98                                                                                             | 16.15                                | 18.61                                                                                                |
| 12.09.2024                                                                                                                                           | 53.92                                                        | 41.03                                                                                             | 16.83                                | 20.48                                                                                                |
| 14.09.2024                                                                                                                                           | 51.62                                                        | 39.49                                                                                             | 17.55                                | 18.27                                                                                                |
| 18.09.2024                                                                                                                                           | 44.96                                                        | 26.13                                                                                             | 16.83                                | 19.51                                                                                                |
| 20.09.2024                                                                                                                                           | 43.25                                                        | 24.30                                                                                             | 15.88                                | 17.52                                                                                                |
| 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 |

|                                                                                                                                        |                                                              |                                                                                                   |                                      |                                                                                                      |
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|                                                       | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | SCML/Env/F – 01                                                                                      |
|                                                                                                                                        |                                                              |                                                                                                   | Issue No.                            | 1                                                                                                    |
|                                                                                                                                        |                                                              |                                                                                                   | Date of Issue:                       | 24.08.2013                                                                                           |
|                                                                                                                                        | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                 |                                                                                                   | Revision No.                         | 5                                                                                                    |
|                                                                                                                                        |                                                              |                                                                                                   | Date of Rev.                         | 01.12.2020                                                                                           |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/18                                                                                        |                                                              |                                                                                                   | Month : September                    |                                                                                                      |
| Location of Sampling: Near Raw Mill Hopper                                                                                             |                                                              | GPS Coordinate: 25°10'45"N 92°23'26.65"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> )                                                                 |
| 02.09.2024                                                                                                                             | 70.87                                                        | 43.46                                                                                             | 16.69                                | 18.89                                                                                                |
| 05.09.2024                                                                                                                             | 74.14                                                        | 44.65                                                                                             | 16.75                                | 17.05                                                                                                |
| 07.09.2024                                                                                                                             | 66.50                                                        | 40.82                                                                                             | 14.96                                | 18.80                                                                                                |
| 10.09.2024                                                                                                                             | 65.36                                                        | 47.05                                                                                             | 14.75                                | 17.42                                                                                                |
| 12.09.2024                                                                                                                             | 71.70                                                        | 43.35                                                                                             | 15.93                                | 18.82                                                                                                |
| 14.09.2024                                                                                                                             | 71.72                                                        | 46.64                                                                                             | 14.78                                | 16.32                                                                                                |
| 18.09.2024                                                                                                                             | 74.36                                                        | 48.72                                                                                             | 15.54                                | 17.82                                                                                                |
| 20.09.2024                                                                                                                             | 72.99                                                        | 45.51                                                                                             | 16.09                                | 16.63                                                                                                |
| NAAQS permissible limits for Rural, Industrial, Residential Area                                                                       | 100 (µg/m <sup>3</sup> )                                     | 60 (µg/m <sup>3</sup> )                                                                           | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )                                                                              |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                              |                                                                                                   |                                      |                                                                                                      |
| <br>Analysed by                                     |                                                              | <br>Checked by |                                      | <br>Verified By |

|                                                                                                                                               |                                                                                                   |                                                                                                      |                                      |                                      |
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|                                                              | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya                                      |                                                                                                      | Reference No.                        | SCML/Env/F – 01                      |
|                                                                                                                                               |                                                                                                   |                                                                                                      | Issue No.                            | 1                                    |
|                                                                                                                                               |                                                                                                   |                                                                                                      | Date of Issue:                       | 24.08.2013                           |
|                                                                                                                                               | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                                                      |                                                                                                      | Revision No.                         | 5                                    |
|                                                                                                                                               |                                                                                                   |                                                                                                      | Date of Rev.                         | 01.12.2020                           |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/18                                                                                               |                                                                                                   |                                                                                                      | Month : September                    |                                      |
| Location of Sampling: Near Water Reservoir                                                                                                    |                                                                                                   | GPS Coordinate: 25°10'45"N 92°23'54"E 410 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> ) |
| 02.09.2024                                                                                                                                    | 53.48                                                                                             | 39.04                                                                                                | 16.75                                | 17.82                                |
| 05.09.2024                                                                                                                                    | 60.75                                                                                             | 40.90                                                                                                | 16.81                                | 15.98                                |
| 07.09.2024                                                                                                                                    | 56.55                                                                                             | 41.04                                                                                                | 15.02                                | 17.73                                |
| 10.09.2024                                                                                                                                    | 53.05                                                                                             | 39.04                                                                                                | 14.81                                | 16.35                                |
| 12.09.2024                                                                                                                                    | 59.80                                                                                             | 37.90                                                                                                | 15.99                                | 17.75                                |
| 14.09.2024                                                                                                                                    | 59.44                                                                                             | 40.74                                                                                                | 14.84                                | 15.25                                |
| 18.09.2024                                                                                                                                    | 56.58                                                                                             | 39.85                                                                                                | 15.60                                | 16.75                                |
| 20.09.2024                                                                                                                                    | 54.54                                                                                             | 38.40                                                                                                | 16.15                                | 15.56                                |
| 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 |                                      |                                      |



|                                                                                                                                                          |                                                              |                                                                                                          |             |                                                                                                                      |                  |               |
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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/2024-25/18                                                                                                             |                                                              |                                                                                                          |             |                                                                                                                      | Month: September |               |
| <b>Analysis Result</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        | 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                                             | 06-09-2024                                                                                               | 09-09-2024  | 10-09-2024                                                                                                           | 11-09-2024       | 16-09-2024    |
| 2                                                                                                                                                        | Ambient Temp (°C)                                            | 23                                                                                                       | 22          | 24                                                                                                                   | 26               | 35            |
| 3                                                                                                                                                        | Stack Gas Temp (°C)                                          | 27                                                                                                       | 16          | 133                                                                                                                  | 69               | 123           |
| 4                                                                                                                                                        | Exit Velocity of Gas (m/sec.)                                | 12.72                                                                                                    | 12.93       | 9.82                                                                                                                 | 9.14             | 7.95          |
| 5                                                                                                                                                        | Flow Rate (Nm <sup>3</sup> / sec.)                           | 24.20                                                                                                    | 14.07       | 179.15                                                                                                               | 19.25            | 71.30         |
| 6                                                                                                                                                        | Quantity of Emission (Nm <sup>3</sup> / Hr)                  | 87111.33                                                                                                 | 50644.92    | 644933.58                                                                                                            | 69310.62         | 256663.47     |
| 7                                                                                                                                                        | Concentration of PM (mg/Nm <sup>3</sup> )                    | 20.7                                                                                                     | 20.4        | 18.4                                                                                                                 | 20.2             | 18.9          |
| 8                                                                                                                                                        | Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )       | -                                                                                                        | -           | 511.4                                                                                                                | -                | -             |
| 9                                                                                                                                                        | Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )       | -                                                                                                        | -           | 359.0                                                                                                                | -                | -             |
| 10                                                                                                                                                       | Oxygen (O <sub>2</sub> ) (%)                                 | 9.2                                                                                                      | 9.8         | 8.2                                                                                                                  | 10.0             | 9.0           |
| <b>E. Remarks</b>                                                                                                                                        |                                                              |                                                                                                          |             |                                                                                                                      |                  |               |
| <b>Standard</b>                                                                                                                                          |                                                              |                                                                                                          |             |                                                                                                                      |                  |               |
| PM - 30 mg/Nm <sup>3</sup>                                                                                                                               |                                                              | SO <sub>2</sub> - 1000 mg/Nm <sup>3</sup>                                                                |             | NO <sub>x</sub> - 800 mg/Nm <sup>3</sup>                                                                             |                  |               |
| Particulate Matter (PM), Sulphur di-oxide (SO <sub>2</sub> ), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add) |                                                              |                                                                                                          |             |                                                                                                                      |                  |               |
| <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/2024-25/18                                                                                                                                                                                                                                                                                                                                   |                                                              |                                |                                |                   |
| Month - September                                                                                                                                                                                                                                                                                                                                                           |                                                              |                                |                                |                   |
| Date                                                                                                                                                                                                                                                                                                                                                                        | Location                                                     | Fugitive Emission Results      | As per CPCB/BIS Guideline      |                   |
|                                                                                                                                                                                                                                                                                                                                                                             |                                                              |                                | Limit                          |                   |
|                                                                                                                                                                                                                                                                                                                                                                             |                                                              | (in $\mu\text{g}/\text{m}^3$ ) | (in $\mu\text{g}/\text{m}^3$ ) |                   |
| 06.09.2024                                                                                                                                                                                                                                                                                                                                                                  | Coal Storage Section                                         | 1310                           | 2000                           |                   |
| 06.09.2024                                                                                                                                                                                                                                                                                                                                                                  | Limestone Storage Section                                    | 1456                           | 5000                           |                   |
| 06.09.2024                                                                                                                                                                                                                                                                                                                                                                  | Clinker Loading Section                                      | 1783                           | 2000                           |                   |
| <div> <br/> <b>Analyzed By</b> </div> <div> <br/> <b>Checked By</b> </div> <div> <br/> <b>Verified By</b> </div> |                                                              |                                |                                |                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya |                                                       |      |      | Document No.      |                                                         | SCML/EHS/Env/F-03 |      |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|------|------|-------------------|---------------------------------------------------------|-------------------|------|-------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                                       |      |      | Effective Date    |                                                         | 01-05-2019        |      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>NOISE LEVEL MONITORING REPORT</b>                         |                                                       |      |      | Revision No.      |                                                         | 04                |      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                                       |      |      | Revision Date     |                                                         | 01-01-2021        |      |                   |
| Ref: SCML/ENV/NOISE/MONTHLY/2024-25/018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                                                       |      |      | Date:             |                                                         | 09.09.2024        |      |                   |
| <b>Month - September</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |                                                       |      |      |                   |                                                         |                   |      |                   |
| S. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Location                                                     | Measured Values dB(A)<br>Day time (6:00am to 10:00pm) |      |      | Norms<br>In dB(A) | Measured Values dB(A)<br>Night time (10:00pm to 6:00am) |                   |      | Norms<br>in dB(A) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              | Min.                                                  | Max. | Avg. |                   | Min.                                                    | Max.              | Avg. |                   |
| <b>A.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Plant</b>                                                 |                                                       |      |      | <b>75</b>         |                                                         |                   |      | <b>70</b>         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Kiln                                                         | 59.9                                                  | 67.0 | 63.5 |                   | 56.2                                                    | 57.9              | 57.1 |                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Vertical Raw Mill                                            | 61.0                                                  | 67.6 | 64.3 |                   | 54.5                                                    | 60.5              | 57.5 |                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Raw Mill WF                                                  | 57.0                                                  | 68.6 | 62.8 |                   | 57.8                                                    | 60.4              | 59.1 |                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Coal Mill                                                    | 60.4                                                  | 67.3 | 63.9 |                   | 56.2                                                    | 62.3              | 59.3 |                   |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limestone Crusher(Dump Hopper)                               | 60.0                                                  | 67.1 | 63.6 |                   | 57.2                                                    | 57.7              | 57.5 |                   |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Additive Crusher                                             | 60.3                                                  | 68.6 | 64.4 |                   | 52.2                                                    | 59.7              | 56.0 |                   |
| <b>B.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |                                                       |      |      |                   |                                                         |                   |      |                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CCR                                                          | 57.2                                                  | 58.2 | 57.7 |                   | 51.7                                                    | 59.7              | 55.7 |                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Meeting Room                                                 | 56.7                                                  | 62.9 | 59.8 |                   | 52.1                                                    | 52.6              | 52.4 |                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VP'S Room                                                    | 51.1                                                  | 55.3 | 53.2 |                   | 44.3                                                    | 52.7              | 48.5 |                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Inst. Shift Room                                             | 53.4                                                  | 64.1 | 58.8 |                   | 49.2                                                    | 52.2              | 50.7 |                   |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Electrical Office                                            | 59.5                                                  | 65.3 | 62.4 |                   | 44.5                                                    | 56.7              | 50.6 |                   |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | QC Department                                                |                                                       |      |      |                   |                                                         |                   |      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | a)Chemical Lab                                               | 61.3                                                  | 60.5 | 60.9 |                   | 46.9                                                    | 50.9              | 48.9 |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | b)Physical Lab                                               | 58.2                                                  | 65.2 | 61.7 |                   | 46.7                                                    | 56.8              | 51.8 |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | c)XRF Lab                                                    | 59.7                                                  | 62.9 | 61.3 |                   | 44.3                                                    | 50.1              | 47.2 |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | d) Sample Preparation Room                                   | 57.1                                                  | 59.7 | 58.4 |                   | 46.9                                                    | 52.9              | 49.9 |                   |
| <b>C.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Residential</b>                                           |                                                       |      |      | <b>55</b>         |                                                         |                   |      | <b>45</b>         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 450 Quater's                                                 | 41.2                                                  | 45.5 | 43.4 |                   | 36.0                                                    | 35.1              | 35.6 |                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Worker's Colony                                              | 40.6                                                  | 43.0 | 41.8 | 35.2              | 34.9                                                    | 35.1              |      |                   |
| <div style="display: flex; justify-content: space-between; align-items: flex-end; padding-top: 20px;"> <div style="text-align: center;"> <br/> Analyzed by </div> <div style="text-align: center;"> <br/> Checked By </div> <div style="text-align: center;"> <br/> Verified By </div> </div> |                                                              |                                                       |      |      |                   |                                                         |                   |      |                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>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/2024-25/18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |      |           |            | Date of sample collection: 16.09.2024<br>Date of Analysis: 16.09.2024 to 19.09.2024                                                                                                                        |               |
| 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 - dated Shillong, the 3rd Sep,2014 |               |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | pH                                                           | -    | 6.8       | 7.1        | 5.5 to 9.0                                                                                                                                                                                                 |               |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Suspended Solids                                             | mg/L | 110       | 40         | 100                                                                                                                                                                                                        |               |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Total Dissolve Solids                                        | mg/L | 465       | 298        | -                                                                                                                                                                                                          |               |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Chemical Oxygen Demand                                       | mg/L | 387       | 43         | 250                                                                                                                                                                                                        |               |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Biochemical Oxygen Demand (For 3 days at 27 °C)              | mg/L | 85        | 14         | 30                                                                                                                                                                                                         |               |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Oil & Grease                                                 | mg/L | 7.5       | <2.0       | 10                                                                                                                                                                                                         |               |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Dissolved Oxygen                                             | mg/L | 5.1       | 6.2        | -                                                                                                                                                                                                          |               |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Temperature                                                  | ° C  | 26        | 25         | Shall not exceed 5.0°C above the receiving water temperature                                                                                                                                               |               |
| <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="text-align: center;"> <br/>           Analysis By         </div> <div style="text-align: center;"> <br/>           Checked By         </div> <div style="text-align: center;"> <br/>           Verified By         </div> </div> |                                                              |      |           |            |                                                                                                                                                                                                            |               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya |       |           |              | Reference No.                                                                                                                                                                                           | SCML/EHS/F-04 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |       |           |              | 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/2024-25/18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |       |           |              | Date of sample collection: 16.09.2024                                                                                                                                                                   |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |       |           |              | Date of Analysis: 16.09.2024 to 19.09.2024                                                                                                                                                              |               |
| 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                                                           | -     | 6.2       | 7.3          | 5.5 to 9.0                                                                                                                                                                                              |               |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Colour                                                       | Hazen | Yellowish | Colourless   | -                                                                                                                                                                                                       |               |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Odour                                                        | -     | Odourless | Odourless    | -                                                                                                                                                                                                       |               |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Chloride                                                     | mg/L  | 90.0      | 63.5         | -                                                                                                                                                                                                       |               |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Total Hardness as CaCO <sub>3</sub>                          | mg/L  | 63.1      | 53.4         | -                                                                                                                                                                                                       |               |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Suspended Solids                                             | mg/L  | 90        | 42.6         | 100                                                                                                                                                                                                     |               |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Total Dissolve Solids                                        | mg/L  | 351       | 305          | -                                                                                                                                                                                                       |               |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Chemical Oxygen Demand                                       | mg/L  | 210       | 45           | 250                                                                                                                                                                                                     |               |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Biochemical Oxygen Demand (For 3 days at 27 °C)              | mg/L  | 60        | 18           | 30                                                                                                                                                                                                      |               |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Oil & Grease                                                 | mg/L  | 6.8       | < 3.0        | 10                                                                                                                                                                                                      |               |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Temperature                                                  | ° C   | 30        | 28           | Shall not exceed 5.0°C above the receiving water temperature                                                                                                                                            |               |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Conductivity                                                 | µS/cm | 524       | 511          | -                                                                                                                                                                                                       |               |
| <div style="display: flex; justify-content: space-between; align-items: flex-end; padding: 10px;"> <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>Verified By</b> </div> </div> |                                                              |       |           |              |                                                                                                                                                                                                         |               |

|                                                                                                                                                                                                                                                | STAR CEMENT MEGHALAYA LIMITED<br>Lumshnong, Meghalaya |         |                  |             |               |             |             |            |           |            |                                   | Reference No.                              | SCML/EHS/F-04 |           |                                   |
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|                                                                                                                                                                                                                                                                                                                                |                                                       |         |                  |             |               |             |             |            |           |            |                                   | Issue No.                                  | 1             |           |                                   |
|                                                                                                                                                                                                                                                                                                                                |                                                       |         |                  |             |               |             |             |            |           |            |                                   | Date of Issue:                             | 24.08.2013    |           |                                   |
|                                                                                                                                                                                                                                                                                                                                |                                                       |         |                  |             |               |             |             |            |           |            |                                   | Revision No.                               | 3             |           |                                   |
| WATER TESTING REPORT                                                                                                                                                                                                                                                                                                           |                                                       |         |                  |             |               |             |             |            |           |            |                                   | Date of Rev.                               | 01.06.2019    |           |                                   |
| Reference No.: SCML/ENV/WATER/MONTHLY/2024-25/18                                                                                                                                                                                                                                                                               |                                                       |         |                  |             |               |             |             |            |           |            |                                   | Date of sample collection: 16.09.2024      |               |           |                                   |
| Surface Water Analysis Results                                                                                                                                                                                                                                                                                                 |                                                       |         |                  |             |               |             |             |            |           |            |                                   | Date of Analysis: 16.09.2024 to 19.09.2024 |               |           |                                   |
| S.No.                                                                                                                                                                                                                                                                                                                          | Parameter                                             | Unit    | Umtyrngai Nallah |             | Umutha Nallah |             | Umso Nalah  | Seshympa   | Lunar     | Lukha      | 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                                                    | -       | 7.4              | 7.5         | 7.8           | 7.6         | 7.3         | -          | -         | -          | 8.1                               | 7.8                                        | 7.5           | 8.1       | 6.5 - 8.5                         |
| 2                                                                                                                                                                                                                                                                                                                              | Colour                                                | Hazen   | Colourless       | Colourless  | Colourless    | Colourless  | Colourless  | Colourless | Yellowish | Colourless | Yellowish                         | Yellowish                                  | Yellowish     | Yellowish | 10                                |
| 3                                                                                                                                                                                                                                                                                                                              | Odour                                                 | -       | Unobjectionable  |             |               |             |             |            |           |            |                                   |                                            |               |           |                                   |
| 4                                                                                                                                                                                                                                                                                                                              | Chloride                                              | mg/L    | 33.2             | 35.1        | 30.2          | 36.4        | 33.5        | -          | -         | -          | 26.5                              | 23.4                                       | 27.3          | 28.4      | 250                               |
| 5                                                                                                                                                                                                                                                                                                                              | Total Hardness as CaCO <sub>3</sub>                   | mg/L    | 52.1             | 60.4        | 75.2          | 70.3        | 71.4        | -          | -         | -          | 65.2                              | 51.3                                       | 52.3          | 45.1      | 300                               |
| 6                                                                                                                                                                                                                                                                                                                              | Suspended Solids                                      | mg/L    | 36.2             | 38.4        | 48.6          | 42.5        | 52.1        | -          | -         | -          | 43.5                              | 49.8                                       | 40.1          | 43.5      | -                                 |
| 7                                                                                                                                                                                                                                                                                                                              | Total Dissolve Solids                                 | mg/L    | 215.4            | 218.4       | 222.5         | 250.6       | 240.6       | -          | -         | -          | 110.2                             | 125.5                                      | 90.6          | 315.5     | 500                               |
| 8                                                                                                                                                                                                                                                                                                                              | Biochemical Oxygen Demand<br>(For 3 days at 27 °C)    | mg/L    | 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        | -                                 |
| 10                                                                                                                                                                                                                                                                                                                             | Temperature                                           | ° C     | 26.0             | 25.0        | 25.0          | 26.0        | 27.0        | -          | -         | -          | 24.0                              | 24.0                                       | 25.0          | 26.0      | -                                 |
| 11                                                                                                                                                                                                                                                                                                                             | Conductivity                                          | µS/cm   | 183.2            | 204.6       | 257.6         | 384.0       | 340.0       | -          | -         | -          | 158.3                             | 150.8                                      | 120.5         | 410.2     | -                                 |
| 12                                                                                                                                                                                                                                                                                                                             | Flow                                                  | L / Min | 1204.6           | 1524.0      | 341.6         | 469.5       | 1852.6      | -          | -         | -          | 1424.0                            | 985.6                                      | 1254.0        | 1136.0    |                                   |
| <div>Analized by</div> <div>Checked by</div> <div>Verified by</div> |                                                       |         |                  |             |               |             |             |            |           |            |                                   |                                            |               |           |                                   |