

# MEGHA TECHNICAL & ENGINEERS (PVT.) LIMITED

Ref: MTEPL/EHS/LUM/2023-24/21

Dated: 29/01/2024

To,

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

**Subject** : Submission of Environmental Monitoring Report for the month of December, 2023.

**Reference** : MPCB/CON-68(Pt-I)/2006/Pt-I/2022-2023/59, Dtd: Shillong the 29<sup>th</sup> August, 2022.

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, Surface waste monitoring reports of **Megha Technical & Engineers Pvt. Ltd.** for the month of **December, 2023.**

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

Thanking You,

Yours truly,

For **MEGHA TECHNICAL & ENGINEERS PVT. LIMITED**



**Laxmaiah Munjala**  
Unit Head

Enclosed: a/a



**Corporate Office** : Satyam Tower, 3 Alipore Road, 1<sup>st</sup> Floor, Unit No. 9B, Kolkata-700027  
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## MEGHA TECHNICAL & ENGINEERS PVT. LTD

Lumshnong, Meghalaya

| Date (DD-MM-YYYY) | Pressure (mmHg) | Relative Humidity (%) | Temp. (C) | Manual Rain (mm) |
|-------------------|-----------------|-----------------------|-----------|------------------|
| 01-12-2023        | 722.8           | 70.2                  | 22.7      | 0.0              |
| 02-12-2023        | 720.2           | 69.0                  | 22.0      | 0.0              |
| 03-12-2023        | 719.9           | 69.8                  | 22.9      | 0.0              |
| 04-12-2023        | 726.1           | 68.1                  | 22.7      | 0.0              |
| 05-12-2023        | 723.4           | 67.9                  | 22.6      | 0.0              |
| 06-12-2023        | 729.2           | 69.2                  | 22.0      | 0.0              |
| 07-12-2023        | 723.8           | 68.0                  | 20.0      | 13.4             |
| 08-12-2023        | 726.5           | 67.8                  | 19.0      | 16.0             |
| 09-12-2023        | 728.1           | 68.0                  | 22.5      | 0.0              |
| 10-12-2023        | 725.8           | 69.1                  | 22.9      | 0.0              |
| 11-12-2023        | 723.8           | 72.3                  | 23.0      | 0.0              |
| 12-12-2023        | 723.3           | 71.4                  | 24.7      | 0.0              |
| 13-12-2023        | 723.7           | 75.6                  | 22.8      | 0.0              |
| 14-12-2023        | 726.5           | 72.7                  | 22.9      | 0.0              |
| 15-12-2023        | 726.7           | 72.9                  | 23.8      | 0.0              |
| 16-12-2023        | 726.1           | 70.1                  | 23.4      | 0.0              |
| 17-12-2023        | 724.5           | 76.4                  | 20.6      | 0.0              |
| 18-12-2023        | 722.9           | 75.6                  | 19.2      | 0.0              |
| 19-12-2023        | 720.5           | 68.6                  | 20.9      | 0.0              |
| 20-12-2023        | 726.1           | 61.6                  | 20.8      | 0.0              |
| 21-12-2023        | 726.6           | 64.6                  | 22.3      | 0.0              |
| 22-12-2023        | 724.3           | 69.4                  | 22.6      | 0.0              |
| 23-12-2023        | 726.5           | 68.9                  | 22.7      | 0.0              |
| 24-12-2023        | 728.1           | 66.8                  | 23.9      | 0.0              |
| 25-12-2023        | 726.5           | 69.5                  | 22.7      | 0.0              |
| 26-12-2023        | 721.3           | 66.2                  | 21.9      | 0.0              |
| 27-12-2023        | 728.0           | 69.1                  | 22.4      | 0.0              |
| 28-12-2023        | 725.8           | 70.5                  | 22.9      | 0.0              |
| 29-12-2023        | 724.6           | 72.6                  | 19.6      | 0.0              |
| 30-12-2023        | 725.4           | 71.4                  | 22.0      | 0.0              |
| 31-12-2023        | 725.8           | 70.5                  | 22.9      | 0.0              |
|                   |                 |                       | Total     | 29.4             |

|                                                                                                                                        |                                                                                                   |                                             |                                                                                                      |                                      |
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|                                                       | <b>MEGHA TECHNICAL &amp; ENGINEERS PVT. LTD</b><br>Lumshnong, Meghalaya                           |                                             | Reference No.                                                                                        | MTEPL/Env/F – 01                     |
|                                                                                                                                        |                                                                                                   |                                             | Issue No.                                                                                            | 1                                    |
|                                                                                                                                        |                                                                                                   |                                             | Date of Issue:                                                                                       | 24.08.2013                           |
|                                                                                                                                        |                                                                                                   |                                             | Revision No.                                                                                         | 5                                    |
| <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                                                                                           |                                                                                                   |                                             | Date of Rev.                                                                                         | 01.12.2020                           |
| Reference No.: MTEPL/ENV/AAQM/MONTHLY/2023-24/09                                                                                       |                                                                                                   |                                             | Month : December                                                                                     |                                      |
| 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> ) |
| 01.12.2023                                                                                                                             | 64.39                                                                                             | 40.17                                       | 13.66                                                                                                | 17.87                                |
| 04.12.2023                                                                                                                             | 59.04                                                                                             | 41.05                                       | 14.68                                                                                                | 18.90                                |
| 09.12.2023                                                                                                                             | 61.27                                                                                             | 41.71                                       | 15.14                                                                                                | 16.88                                |
| 13.12.2023                                                                                                                             | 65.26                                                                                             | 40.04                                       | 14.59                                                                                                | 15.81                                |
| 15.12.2023                                                                                                                             | 62.59                                                                                             | 37.87                                       | 13.11                                                                                                | 13.48                                |
| 18.12.2023                                                                                                                             | 64.09                                                                                             | 40.24                                       | 11.43                                                                                                | 14.03                                |
| 20.12.2023                                                                                                                             | 69.64                                                                                             | 44.63                                       | 16.17                                                                                                | 18.01                                |
| 28.12.2023                                                                                                                             | 65.75                                                                                             | 41.92                                       | 15.26                                                                                                | 15.85                                |
| NAAQS permissible limits for Rural,<br>Industrial, Residential Area                                                                    | 100 (µg/m <sup>3</sup> )                                                                          | 60 (µg/m <sup>3</sup> )                     | 80 (µg/m <sup>3</sup> )                                                                              | 80 (µg/m <sup>3</sup> )              |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                                                                   |                                             |                                                                                                      |                                      |
| <br>Analysed by                                     | <br>Checked by |                                             | <br>Verified By |                                      |

|                                                                                                                                        |                                                                                                   |                                             |                                                                                                      |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------|
|                                                       | <b>MEGHA TECHNICAL &amp; ENGINEERS PVT. LTD</b><br>Lumshnong, Meghalaya                           |                                             | Reference No.                                                                                        | MTEPL/Env/F – 01                     |
|                                                                                                                                        |                                                                                                   |                                             | Issue No.                                                                                            | 1                                    |
|                                                                                                                                        |                                                                                                   |                                             | Date of Issue:                                                                                       | 24.08.2013                           |
|                                                                                                                                        |                                                                                                   |                                             | Revision No.                                                                                         | 5                                    |
| <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                                                                                           |                                                                                                   |                                             | Date of Rev.                                                                                         | 01.12.2020                           |
| Reference No.: MTEPL/ENV/AAQM/MONTHLY/2023-24/09                                                                                       |                                                                                                   |                                             | Month : December                                                                                     |                                      |
| Location of Sampling: Vishwakarma Colony                                                                                               |                                                                                                   | GPS Coordinate: 25°10'46"N 92°23'17"E 552 m |                                                                                                      |                                      |
| Sampling Duration:                                                                                                                     | 24 Hrs.                                                                                           | 24 Hrs.                                     | 24 Hrs.                                                                                              | 24 Hrs.                              |
| Date of Sampling                                                                                                                       | PM <sub>10</sub> (µg/m <sup>3</sup> )                                                             | PM <sub>2.5</sub> (µg/m <sup>3</sup> )      | SO <sub>2</sub> (µg/m <sup>3</sup> )                                                                 | NO <sub>2</sub> (µg/m <sup>3</sup> ) |
| 01.12.2023                                                                                                                             | 28.07                                                                                             | 20.12                                       | 14.42                                                                                                | 17.28                                |
| 04.12.2023                                                                                                                             | 30.24                                                                                             | 19.98                                       | 13.47                                                                                                | 15.85                                |
| 09.12.2023                                                                                                                             | 26.04                                                                                             | 18.66                                       | 14.45                                                                                                | 16.78                                |
| 13.12.2023                                                                                                                             | 32.37                                                                                             | 18.12                                       | 13.65                                                                                                | 16.15                                |
| 15.12.2023                                                                                                                             | 31.07                                                                                             | 16.98                                       | 13.43                                                                                                | 13.98                                |
| 18.12.2023                                                                                                                             | 28.93                                                                                             | 19.82                                       | 14.25                                                                                                | 15.95                                |
| 20.12.2023                                                                                                                             | 28.06                                                                                             | 18.93                                       | 13.94                                                                                                | 15.17                                |
| 28.12.2023                                                                                                                             | 31.07                                                                                             | 18.63                                       | 12.46                                                                                                | 14.78                                |
| NAAQS permissible limits for Rural, Industrial, Residential Area                                                                       | 100 (µg/m <sup>3</sup> )                                                                          | 60 (µg/m <sup>3</sup> )                     | 80 (µg/m <sup>3</sup> )                                                                              | 80 (µg/m <sup>3</sup> )              |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                                                                   |                                             |                                                                                                      |                                      |
| <br>Analysed by                                     | <br>Checked by |                                             | <br>Verified By |                                      |

|                                                                                                                                        |                                                                                                   |                                             |                                                                                                      |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------|
|                                                       | <b>MEGHA TECHNICAL &amp; ENGINEERS PVT. LTD</b><br>Lumshnong, Meghalaya                           |                                             | Reference No.                                                                                        | MTEPL/Env/F – 01                     |
|                                                                                                                                        |                                                                                                   |                                             | Issue No.                                                                                            | 1                                    |
|                                                                                                                                        |                                                                                                   |                                             | Date of Issue:                                                                                       | 24.08.2013                           |
|                                                                                                                                        |                                                                                                   |                                             | Revision No.                                                                                         | 5                                    |
| <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                                                                                           |                                                                                                   |                                             | Date of Rev.                                                                                         | 01.12.2020                           |
| Reference No.: MTEPL/ENV/AAQM/MONTHLY/2023-24/09                                                                                       |                                                                                                   |                                             | Month : December                                                                                     |                                      |
| Location of Sampling: Near Star Club                                                                                                   |                                                                                                   | GPS Coordinate: 25°10'36"N 92°23'16"E 928 m |                                                                                                      |                                      |
| Sampling Duration:                                                                                                                     | 24 Hrs.                                                                                           | 24 Hrs.                                     | 24 Hrs.                                                                                              | 24 Hrs.                              |
| Date of Sampling                                                                                                                       | PM <sub>10</sub> (µg/m <sup>3</sup> )                                                             | PM <sub>2.5</sub> (µg/m <sup>3</sup> )      | SO <sub>2</sub> (µg/m <sup>3</sup> )                                                                 | NO <sub>2</sub> (µg/m <sup>3</sup> ) |
| 01.12.2023                                                                                                                             | 32.04                                                                                             | 24.34                                       | 11.89                                                                                                | 16.12                                |
| 04.12.2023                                                                                                                             | 31.05                                                                                             | 23.31                                       | 11.95                                                                                                | 14.28                                |
| 09.12.2023                                                                                                                             | 32.05                                                                                             | 24.02                                       | 10.16                                                                                                | 16.03                                |
| 13.12.2023                                                                                                                             | 32.54                                                                                             | 25.33                                       | 9.95                                                                                                 | 14.65                                |
| 15.12.2023                                                                                                                             | 31.04                                                                                             | 24.19                                       | 11.13                                                                                                | 16.02                                |
| 18.12.2023                                                                                                                             | 31.98                                                                                             | 27.03                                       | 9.98                                                                                                 | 13.50                                |
| 20.12.2023                                                                                                                             | 34.35                                                                                             | 26.14                                       | 10.74                                                                                                | 15.03                                |
| 28.12.2023                                                                                                                             | 32.91                                                                                             | 24.69                                       | 11.29                                                                                                | 14.25                                |
| NAAQS permissible limits for Rural,<br>Industrial, Residential Area                                                                    | 100 (µg/m <sup>3</sup> )                                                                          | 60 (µg/m <sup>3</sup> )                     | 80 (µg/m <sup>3</sup> )                                                                              | 80 (µg/m <sup>3</sup> )              |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                                                                   |                                             |                                                                                                      |                                      |
| <br>Analysed by                                     | <br>Checked by |                                             | <br>Verified By |                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>MEGHA TECHNICAL &amp; ENGINEERS PVT. LTD</b><br>Lumshnong, Meghalaya |                                | Document No.              | MTEPL/EHS/Env/F-04             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------|---------------------------|--------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                         |                                | Date of Issued            | 01-05-2019                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FUJITIVE EMISSION MONITORING REPORT                                     |                                | Revision No.              | 2                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                         |                                | Revision Date             | 01-01-2021                     |
| Ref: MTEPL/ENV/FUGITIVE/MONTHLY/2023-24/09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                         |                                |                           |                                |
| Month - December                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                         |                                |                           |                                |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Location                                                                | Fugitive Emission Results      | As per CPCB/BIS Guideline |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                         | (in $\mu\text{g}/\text{m}^3$ ) | Limit                     | (in $\mu\text{g}/\text{m}^3$ ) |
| 12.12.2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cement Packing Plant                                                    | 1885                           | 5000                      |                                |
| <div style="display: flex; justify-content: space-around; align-items: flex-end; margin-top: 100px;"> <div style="text-align: center;"> <br/> <b>Analyzed By</b> </div> <div style="text-align: center;"> <br/> <b>Checked by</b> </div> <div style="text-align: center;"> <br/> <b>Verified By</b> </div> </div> |                                                                         |                                |                           |                                |

