

# MEGHALAYA POWER LIMITED

Ref: MPL (1 X 8 MW)/LUM/EHS/2024-25/01

Dated: 03/04/2024

To,

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

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

**Reference** : MPCB/CON-54/2007/2022-2023/85, Dated. Shillong, the 5<sup>th</sup> December, 2022.

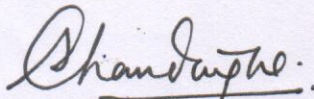
Dear Sir,

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 & Water (Ground, Surface, STP & ETP) quality monitoring reports of **Meghalaya Power Limited (8MW)** for the month of **March, 2024**.

This is for your kind information record please.

Thanking You,

Yours truly,  
For **Meghalaya Power Limited**



Sharat Chandra Singha  
Asst. General Manager Works

**Enclosed:** As mentioned above

**Copy To:** The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-793 014.



## MEGHALAYA POWER LIMITED

Lumshnong, Meghalaya

| Date (DD-MM-YYYY) | Pressure (mmHg) | Relative Humidity (%) | Temp. (C) | Manual Rain (mm) |
|-------------------|-----------------|-----------------------|-----------|------------------|
| 01-03-2024        | 720.7           | 71.6                  | 18.8      | 0.0              |
| 02-03-2024        | 718.1           | 70.4                  | 18.1      | 0.0              |
| 03-03-2024        | 717.8           | 71.2                  | 19.0      | 0.0              |
| 04-03-2024        | 724.0           | 69.5                  | 18.8      | 0.0              |
| 05-03-2024        | 721.3           | 69.3                  | 18.7      | 0.0              |
| 06-03-2024        | 727.1           | 70.6                  | 18.1      | 0.0              |
| 07-03-2024        | 721.7           | 69.4                  | 20.0      | 0.0              |
| 08-03-2024        | 724.4           | 69.2                  | 19.0      | 0.0              |
| 09-03-2024        | 726.0           | 69.4                  | 18.6      | 0.0              |
| 10-03-2024        | 723.7           | 70.5                  | 19.0      | 0.0              |
| 11-03-2024        | 721.7           | 73.7                  | 19.1      | 0.0              |
| 12-03-2024        | 721.2           | 72.8                  | 20.8      | 0.0              |
| 13-03-2024        | 721.6           | 77.0                  | 18.9      | 0.0              |
| 14-03-2024        | 724.4           | 74.1                  | 19.0      | 0.0              |
| 15-03-2024        | 724.6           | 74.3                  | 19.9      | 4.9              |
| 16-03-2024        | 724.0           | 71.5                  | 19.5      | 0.0              |
| 17-03-2024        | 722.4           | 77.8                  | 16.7      | 10.0             |
| 18-03-2024        | 720.8           | 77.0                  | 15.3      | 0.0              |
| 19-03-2024        | 718.4           | 70.0                  | 17.0      | 0.0              |
| 20-03-2024        | 724.0           | 63.0                  | 16.9      | 0.0              |
| 21-03-2024        | 724.5           | 66.0                  | 18.4      | 2.0              |
| 22-03-2024        | 722.2           | 70.8                  | 18.7      | 13.8             |
| 23-03-2024        | 724.4           | 70.3                  | 18.8      | 4.2              |
| 24-03-2024        | 726.0           | 68.2                  | 20.0      | 0.0              |
| 25-03-2024        | 724.4           | 70.9                  | 18.8      | 8.7              |
| 26-03-2024        | 719.2           | 67.6                  | 18.0      | 5.3              |
| 27-03-2024        | 725.9           | 70.5                  | 18.5      | 3.6              |
| 28-03-2024        | 723.7           | 71.9                  | 19.0      | 5.1              |
| 29-03-2024        | 722.5           | 74.0                  | 15.7      | 0.0              |
| 30-03-2024        | 724.4           | 70.9                  | 18.8      | 0.0              |
| 31-03-2024        | 719.2           | 67.6                  | 18.0      | 27.6             |
|                   |                 |                       | Total     | 85.2             |

|                                                                                                                                        |                                                              |                                                                                                   |                                      |                                                                                                      |
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|                                                       | <b>MEGHALAYA POWER LIMITED (8MW)</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | MPL/Env/F – 01                                                                                       |
|                                                                                                                                        |                                                              |                                                                                                   | Issue No.                            | 1                                                                                                    |
|                                                                                                                                        |                                                              |                                                                                                   | Date of Issue:                       | 24.08.2013                                                                                           |
|                                                                                                                                        |                                                              |                                                                                                   | Revision No.                         | 5                                                                                                    |
|                                                                                                                                        | AMBIENT AIR QUALITY MONITORING REPORT                        |                                                                                                   | Date of Rev.                         | 01.12.2020                                                                                           |
| Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/12                                                                                   |                                                              |                                                                                                   | Month : March                        |                                                                                                      |
| Location of Sampling: Near ADM Office (South)                                                                                          |                                                              | GPS Coordinate: 25°10'34"N 92°23'46"E 907 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> )                                                                 |
| 01.03.2024                                                                                                                             | 61.51                                                        | 37.65                                                                                             | 16.14                                | 19.38                                                                                                |
| 04.03.2024                                                                                                                             | 63.87                                                        | 35.62                                                                                             | 17.44                                | 21.12                                                                                                |
| 06.03.2024                                                                                                                             | 59.73                                                        | 40.15                                                                                             | 16.82                                | 20.27                                                                                                |
| 08.03.2024                                                                                                                             | 61.60                                                        | 37.65                                                                                             | 19.44                                | 23.26                                                                                                |
| 11.03.2024                                                                                                                             | 60.43                                                        | 38.83                                                                                             | 15.80                                | 20.31                                                                                                |
| 13.03.2024                                                                                                                             | 58.58                                                        | 34.49                                                                                             | 17.84                                | 21.23                                                                                                |
| 15.03.2024                                                                                                                             | 59.25                                                        | 41.15                                                                                             | 16.47                                | 22.06                                                                                                |
| 18.03.2024                                                                                                                             | 57.43                                                        | 38.65                                                                                             | 15.02                                | 21.20                                                                                                |
| 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 |

|                                                                                                                                                      |                                                              |                                                                                                   |                                      |                                                                                                      |
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|                                                                     | <b>MEGHALAYA POWER LIMITED (8MW)</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | MPL/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.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/12                                                                                                 |                                                              |                                                                                                   | Month : March                        |                                                                                                      |
| 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> )                                                                 |
| 01.03.2024                                                                                                                                           | 42.88                                                        | 32.61                                                                                             | 16.04                                | 22.79                                                                                                |
| 04.03.2024                                                                                                                                           | 44.88                                                        | 31.58                                                                                             | 17.24                                | 26.29                                                                                                |
| 06.03.2024                                                                                                                                           | 46.20                                                        | 33.91                                                                                             | 14.56                                | 18.92                                                                                                |
| 08.03.2024                                                                                                                                           | 50.55                                                        | 35.07                                                                                             | 15.18                                | 20.92                                                                                                |
| 11.03.2024                                                                                                                                           | 48.17                                                        | 33.43                                                                                             | 15.86                                | 22.79                                                                                                |
| 13.03.2024                                                                                                                                           | 45.87                                                        | 31.89                                                                                             | 16.58                                | 20.58                                                                                                |
| 15.03.2024                                                                                                                                           | 50.10                                                        | 29.42                                                                                             | 15.86                                | 21.82                                                                                                |
| 18.03.2024                                                                                                                                           | 48.39                                                        | 27.59                                                                                             | 14.91                                | 19.83                                                                                                |
| 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>MEGHALAYA POWER LIMITED (8MW)</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | MPL/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.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/12                                                                                                 |                                                              |                                                                                                   | Month : March                        |                                                                                                      |
| Location of Sampling: Near Piezometer Well                                                                                                           |                                                              | GPS Coordinate: 25°10'35"N 92°23'53"E 348 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> )                                                                 |
| 01.03.2024                                                                                                                                           | 64.24                                                        | 44.09                                                                                             | 15.38                                | 22.10                                                                                                |
| 04.03.2024                                                                                                                                           | 62.86                                                        | 38.67                                                                                             | 16.92                                | 20.90                                                                                                |
| 06.03.2024                                                                                                                                           | 66.50                                                        | 40.89                                                                                             | 16.57                                | 22.89                                                                                                |
| 08.03.2024                                                                                                                                           | 68.00                                                        | 44.57                                                                                             | 14.50                                | 21.76                                                                                                |
| 11.03.2024                                                                                                                                           | 66.86                                                        | 41.09                                                                                             | 13.57                                | 22.40                                                                                                |
| 13.03.2024                                                                                                                                           | 61.21                                                        | 42.74                                                                                             | 14.57                                | 21.36                                                                                                |
| 15.03.2024                                                                                                                                           | 61.86                                                        | 37.74                                                                                             | 15.60                                | 22.79                                                                                                |
| 18.03.2024                                                                                                                                           | 58.48                                                        | 36.73                                                                                             | 12.92                                | 22.88                                                                                                |
| 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>MEGHALAYA POWER LIMITED (8MW)</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | MPL/Env/F – 01                                                                                       |
|                                                                                                                                        |                                                              |                                                                                                   | Issue No.                            | 1                                                                                                    |
|                                                                                                                                        | GROUND LEVEL AMBIENT AIR QUALITY MONITORING REPORT           |                                                                                                   | Date of Issue:                       | 24.08.2013                                                                                           |
|                                                                                                                                        |                                                              |                                                                                                   | Revision No.                         | 5                                                                                                    |
|                                                                                                                                        |                                                              |                                                                                                   | Date of Rev.                         | 01.12.2020                                                                                           |
| Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/12                                                                                   |                                                              |                                                                                                   | Month : March                        |                                                                                                      |
| Location of Sampling: Near ADM Office                                                                                                  |                                                              | GPS Coordinate: 25°10'34"N 92°23'46"E 907 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> )                                                                 |
| 02.03.2024                                                                                                                             | 55.91                                                        | 33.21                                                                                             | 13.57                                | 18.44                                                                                                |
| 05.03.2024                                                                                                                             | 57.67                                                        | 31.18                                                                                             | 12.54                                | 17.41                                                                                                |
| 07.03.2024                                                                                                                             | 54.13                                                        | 35.71                                                                                             | 14.87                                | 19.74                                                                                                |
| 09.03.2024                                                                                                                             | 56.00                                                        | 33.21                                                                                             | 16.03                                | 20.90                                                                                                |
| 12.03.2024                                                                                                                             | 54.83                                                        | 34.39                                                                                             | 16.57                                | 19.26                                                                                                |
| 14.03.2024                                                                                                                             | 43.43                                                        | 24.87                                                                                             | 12.85                                | 17.72                                                                                                |
| 16.03.2024                                                                                                                             | 53.65                                                        | 36.71                                                                                             | 14.14                                | 18.45                                                                                                |
| 19.03.2024                                                                                                                             | 51.83                                                        | 34.21                                                                                             | 15.58                                | 18.78                                                                                                |
| 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 |

|                                                                                                                                                      |                                                              |                                                                                                   |                                      |                                                                                                      |
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|                                                                     | <b>MEGHALAYA POWER LIMITED (8MW)</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | MPL/Env/F – 01                                                                                       |
|                                                                                                                                                      |                                                              |                                                                                                   | Issue No.                            | 1                                                                                                    |
|                                                                                                                                                      | <b>GROUND LEVEL AMBIENT AIR QUALITY MONITORING REPORT</b>    |                                                                                                   | Date of Issue:                       | 24.08.2013                                                                                           |
|                                                                                                                                                      |                                                              |                                                                                                   | Revision No.                         | 5                                                                                                    |
|                                                                                                                                                      |                                                              |                                                                                                   | Date of Rev.                         | 01.12.2020                                                                                           |
| Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/12                                                                                                 |                                                              |                                                                                                   | Month : March                        |                                                                                                      |
| Location of Sampling: Behind DM Plant                                                                                                                |                                                              | GPS Coordinate: 25°10'43"N 92°23'50"E 348 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> )                                                                 |
| 02.03.2024                                                                                                                                           | 51.67                                                        | 35.42                                                                                             | 16.04                                | 20.52                                                                                                |
| 05.03.2024                                                                                                                                           | 51.97                                                        | 33.39                                                                                             | 15.01                                | 19.49                                                                                                |
| 07.03.2024                                                                                                                                           | 53.08                                                        | 37.92                                                                                             | 17.34                                | 21.82                                                                                                |
| 09.03.2024                                                                                                                                           | 51.13                                                        | 35.42                                                                                             | 18.50                                | 22.98                                                                                                |
| 12.03.2024                                                                                                                                           | 49.64                                                        | 36.60                                                                                             | 16.86                                | 21.34                                                                                                |
| 14.03.2024                                                                                                                                           | 48.13                                                        | 32.26                                                                                             | 15.32                                | 19.80                                                                                                |
| 16.03.2024                                                                                                                                           | 49.65                                                        | 38.92                                                                                             | 11.39                                | 17.33                                                                                                |
| 19.03.2024                                                                                                                                           | 46.85                                                        | 36.42                                                                                             | 11.02                                | 15.50                                                                                                |
| 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>MEGHALAYA POWER LIMITED (8 MW)</b><br>Lumshnong, Meghalaya                        |                                          | Reference No.  | MPL/Env/F-02                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |                                          | Issue No.      | 1                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |                                          | Date of Issue: | 01.05.2019                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |                                          | Revision No.   | 5                                        |
| STACK EMISSION MONITORING ANALYSIS REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |                                          | Date of Rev.   | 01.06.2021                               |
| Report No: MPL(8MW)/Env/Stack/Monthly/2023-24/12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |                                          | Month: March   |                                          |
| <b><u>Analysis Result</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |                                          |                |                                          |
| <b>A.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>General Information About Stack</b>                                               |                                          |                |                                          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Stack Identification No                                                              | 8 MW                                     |                |                                          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Stack Connected to                                                                   | Boiler                                   |                |                                          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Material of Construction (Stack/Duct)                                                | Mild Steel                               |                |                                          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Shape of duct                                                                        | Circular                                 |                |                                          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Whether duct is provided with permanent platform & ladder                            | Yes                                      |                |                                          |
| <b>B.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Physical characteristic of stack</b>                                              |                                          |                |                                          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Stack Height from ground level (meter)                                               | 45                                       |                |                                          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Duct diameter at sampling point (meter)                                              | 2.08                                     |                |                                          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sampling height point from ground level (meter)                                      | 11                                       |                |                                          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cross sectional area of Duct/Stack (m <sup>2</sup> )                                 | 3.4                                      |                |                                          |
| <b>C.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Pollution Control Device</b>                                                      |                                          |                |                                          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Details of pollution control device attached to stack                                | ESP                                      |                |                                          |
| <b>D.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Result of Sampling &amp; Analysis of Gaseous Emission</b>                         |                                          |                |                                          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date of Sampling                                                                     | -                                        |                |                                          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ambient Temp (°C)                                                                    | -                                        |                |                                          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Stack Gas Temp (°C)                                                                  | -                                        |                |                                          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Exit Velocity of Gas (m/sec.)                                                        | -                                        |                |                                          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Flow Rate (Nm <sup>3</sup> / sec.)                                                   | -                                        |                |                                          |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity of Emission (Nm <sup>3</sup> / Hr)                                          | -                                        |                |                                          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Concentration of PM (mg/Nm <sup>3</sup> )                                            | -                                        |                |                                          |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )                               | -                                        |                |                                          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )                               | -                                        |                |                                          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Oxygen (O <sub>2</sub> ) (%)                                                         | -                                        |                |                                          |
| <b>E.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Remarks: Monitoring of 8MW Boiler stack has not carried out due to shut down.</b> |                                          |                |                                          |
| <b>Standard</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |                                          |                |                                          |
| PM - 50 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      | SO <sub>2</sub> - 600 mg/Nm <sup>3</sup> |                | NO <sub>x</sub> - 300 mg/Nm <sup>3</sup> |
| Particulate Matter (PM), Sulphur di-oxide (SO <sub>2</sub> ), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                      |                                          |                |                                          |
| <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <br/> <b>Analysis by</b> </div> <div style="text-align: center;"> <br/> <b>Checked by</b> </div> <div style="text-align: center;"> <br/> <b>Authorized Signatory</b> </div> </div> |                                                                                      |                                          |                |                                          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>MEGHALAYA POWER LIMITED</b><br>Lumshnong, Meghalaya |                                | Document No.              | MPL/EHS/Env/F-04               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------|---------------------------|--------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |                                | Date of Issued            | 01-05-2019                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |                                | Revision No.              | 2                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FUGITIVE EMISSION MONITORING REPORT                    |                                | Revision Date             | 01-01-2021                     |
| Ref: MPL(8MW)/ENV/FUGITIVE/MONTHLY/2023-24/12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |                                |                           |                                |
| Month - March                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |                                |                           |                                |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Location                                               | Fugitive Emission Results      | As per CPCB/BIS Guideline |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |                                | Limit                     |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        | (in $\mu\text{g}/\text{m}^3$ ) |                           | (in $\mu\text{g}/\text{m}^3$ ) |
| 11.03.2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Coal Storage Section                                   | 1461                           | 2000                      |                                |
| <div style="display: flex; justify-content: space-around; align-items: flex-end; margin-top: 100px;"> <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>MEGHALAYA POWER LIMITED</b><br>(8 MW)<br>Lumshnong, Meghalaya |                                                       |      |      | Document No.      |                                                         | MPL/EHS/Env/F-03 |      |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|------|------|-------------------|---------------------------------------------------------|------------------|------|-------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |                                                       |      |      | Date of Issued    |                                                         | 01-05-2019       |      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |                                                       |      |      | Revision No.      |                                                         | 04               |      |                   |
| NOISE LEVEL MONITORING REPORT                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |                                                       |      |      | Revision Date     |                                                         | 01-01-2021       |      |                   |
| Ref: MPL(8MW)/ENV/NOISE/MONTHLY/2023-24/012                                                                                                                                                                                                                                                                                                                                                                              |                                                                  |                                                       |      |      |                   |                                                         | Date: 11.03.2024 |      |                   |
| Month - March                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |                                                       |      |      |                   |                                                         |                  |      |                   |
| 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. |                   |
| A                                                                                                                                                                                                                                                                                                                                                                                                                        | Plant                                                            |                                                       |      |      |                   |                                                         |                  |      |                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                        | Turbine House Ground Floor                                       | 64.1                                                  | 68.6 | 66.4 | 75                | 60.3                                                    | 64.2             | 62.3 | 70                |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                        | Turbine House 9 Mt.                                              | 61.0                                                  | 70.8 | 65.9 |                   | 57.2                                                    | 66.2             | 61.7 |                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                        | RO – MCC                                                         | 64.9                                                  | 71.3 | 68.1 |                   | 60.5                                                    | 65.3             | 62.9 |                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                        | Boiler Ground Floor                                              | 65.4                                                  | 70.5 | 68.0 |                   | 59.3                                                    | 65.2             | 62.3 |                   |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                        | CHP – MCC                                                        | 64.9                                                  | 71.4 | 68.2 |                   | 53.5                                                    | 57.3             | 55.4 |                   |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                        | Office Area                                                      | 59.2                                                  | 68.4 | 63.8 |                   | 51.0                                                    | 64.5             | 57.8 |                   |
| <div>    </div> <div>             Analyzed by             <span style="margin-left: 200px;">Checked By</span> <span style="float: right;">Verified By</span> </div> |                                                                  |                                                       |      |      |                   |                                                         |                  |      |                   |

|                                                                                   |                                                        |  |  |              |                |              |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|--|--|--------------|----------------|--------------|
|  | <b>MEGHALAYA POWER LIMITED</b><br>Lumshnong, Meghalaya |  |  |              | Reference No.  | MPL/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.: MPL/ENV/WATER/MONTHLY/2023-24/12
 

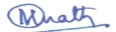
Date of sample collection: 18.03.2024  
 Date of Analysis: 18.03.2024 to 21.03.2024

| 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                                                 | -     | 7.5       | 7.8        | 5.5 to 9.0                                                                                                                                                                                              |
| 2      | Colour                                             | Hazen | Yellowish | Colourless | -                                                                                                                                                                                                       |
| 3      | Odour                                              | -     | Odourless | Odourless  | -                                                                                                                                                                                                       |
| 4      | Chloride                                           | mg/L  | 86.0      | 87.5       | -                                                                                                                                                                                                       |
| 5      | Total Hardness as CaCO <sub>3</sub>                | mg/L  | 58.7      | 59.9       | -                                                                                                                                                                                                       |
| 6      | Suspended Solids                                   | mg/L  | 91        | 30.0       | 100                                                                                                                                                                                                     |
| 7      | Total Dissolve Solids                              | mg/L  | 327       | 340        | -                                                                                                                                                                                                       |
| 8      | Chemical Oxygen Demand                             | mg/L  | 234       | 37         | 250                                                                                                                                                                                                     |
| 9      | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L  | 93        | 8.4        | 30                                                                                                                                                                                                      |
| 10     | Oil & Grease                                       | mg/L  | 4.9       | < 3.0      | 10                                                                                                                                                                                                      |
| 11     | Temperature                                        | ° C   | 25        | 25         | Shall not exceed 5.0°C above the receiving water temperature                                                                                                                                            |
| 12     | Conductivity                                       | µS/cm | 523       | 544        | -                                                                                                                                                                                                       |

  
 Analysis By

  
 Checked By

  
 Verified By

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |      |              |                                                                                                                                                                                                                           |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                      | <b>MEGHALAYA POWER LIMITED</b><br>Lumshnong, Meghalaya |      |              | Reference No.                                                                                                                                                                                                             | MPL/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.: MPL/ENV/WATER/MONTHLY/2023-24/12                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |      |              |                                                                                                                                                                                                                           | Date of sample collection: 18.03.2024<br>Date of Analysis: 18.03.2024 to 21.03.2024 |
| Sl.No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Parameter                                              | Unit | ETP Outlet   | <b>Standard Norms For Discharge of Environment Pollution</b><br><b>(Notification Date:- 19th May 1993) &amp; Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014-2015/34 – dated Shillong, the 3rd SEP, 2014.</b> |                                                                                     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | pH                                                     | -    | 7.6          | 5.5 to 9.0                                                                                                                                                                                                                |                                                                                     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Suspended Solids                                       | mg/L | 48           | 100                                                                                                                                                                                                                       |                                                                                     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Total Dissolve Solids                                  | mg/L | 368          | -                                                                                                                                                                                                                         |                                                                                     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chemical Oxygen Demand                                 | mg/L | 46           | 250                                                                                                                                                                                                                       |                                                                                     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Biochemical Oxygen Demand (For 3 days at 27 °C)        | mg/L | 20           | 30                                                                                                                                                                                                                        |                                                                                     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Oil & Grease                                           | mg/L | <3.0         | 10                                                                                                                                                                                                                        |                                                                                     |
| <div style="display: flex; justify-content: space-between; align-items: flex-end; padding: 10px;"> <div> <br/> <b>Analysis By</b> </div> <div> <br/> <b>Checked By</b> </div> <div> <br/> <b>Verified By</b> </div> </div> |                                                        |      |              |                                                                                                                                                                                                                           |                                                                                     |



# WATER TESTING REPORT

Reference No.

MPL/EHS/F-04

Issue No.

**1**

Date of Issue:

24.08.2013

Revision No.

3

|  |              |
|--|--------------|
|  | Date of Rev. |
|--|--------------|

01.06.2019

**Reference No.: MPL/ENV/WATER/MONTHLY/2023-24/12**

### Surface Water Analysis Results

Date of sample collection: 18.03.2024

**Date of Analysis: 18.03.2024 to 21.03.2024**

|                                                                                                    |                                                                                                   |                                                                                                      |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <br>Analyzed by | <br>Checked by | <br>Verified by |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|