

# MEGHALAYA POWER LIMITED

Corporate Office : Satyam Tower, 3 Alipore Road, 1<sup>st</sup> Floor, Unit No. 9B, Kolkata-700027

Ref: MPL (1 X 43 MW)/LUM/ EHS/2022-23/31

Dated: 21/03/2023

To,

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

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

**Reference** : MPCB/CON-64/2011/2021-2022/145, Dated. Shillong, the 22<sup>nd</sup> September, 2021.

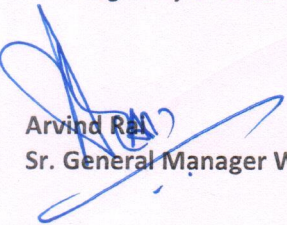
Dear Sir,

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 **M/s Meghalaya Power Limited (43 MW)** for the month of **February, 2023**.

Kindly acknowledge receipt of the same.

Thanking You,

Yours truly,  
For **Meghalaya Power Limited (43 MW)**

  
Arvind Raj  
Sr. General Manager Works

**Enclosed:** As mentioned above

**Copy To:** 1) The Deputy Director General of Forest (Central), Ministry of Environment Forest & Climate Change, Govt. of India, Regional Office, Shillong, Meghalaya-793021.  
2) The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.





**MEGHALAYA POWER LIMITED**  
Lumshnong, Meghalaya

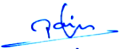
| Date (DD-MM-YYYY) | Pressure (mmHg) | Relative Humidity (%) | Temp. (C) | Manual Rain (mm) |
|-------------------|-----------------|-----------------------|-----------|------------------|
| 01-02-2023        | 762.8           | 38.0                  | 19.0      | 0                |
| 02-02-2023        | 765.4           | 38.5                  | 16.0      | 0                |
| 03-02-2023        | 770.7           | 38.3                  | 25.0      | 0                |
| 04-02-2023        | 770.5           | 39.3                  | 22.0      | 0                |
| 05-02-2023        | 770             | 42.3                  | 18.0      | 0                |
| 06-02-2023        | 769.2           | 65.0                  | 17.0      | 0                |
| 07-02-2023        | 768.4           | 75.0                  | 20.0      | 0                |
| 08-02-2023        | 767.9           | 80.4                  | 27.0      | 0                |
| 09-02-2023        | 770.7           | 85.0                  | 25.0      | 0                |
| 10-02-2023        | 770.5           | 89.4                  | 18.0      | 0                |
| 11-02-2023        | 770             | 90.0                  | 22.0      | 0                |
| 12-02-2023        | 769.2           | 38.0                  | 23.0      | 0                |
| 13-02-2023        | 768.4           | 38.5                  | 17.1      | 0                |
| 14-02-2023        | 767.9           | 38.3                  | 15.1      | 0                |
| 15-02-2023        | 767.7           | 39.3                  | 23.2      | 0                |
| 16-02-2023        | 767.9           | 42.3                  | 23.0      | 0                |
| 17-02-2023        | 768.2           | 65.0                  | 17.1      | 0                |
| 18-02-2023        | 768.5           | 75.0                  | 15.1      | 0                |
| 19-02-2023        | 768.9           | 80.4                  | 23.3      | 0                |
| 20-02-2023        | 769.2           | 85.0                  | 23.5      | 0                |
| 21-02-2023        | 769.7           | 80.6                  | 18.2      | 0                |
| 22-02-2023        | 767.7           | 90.0                  | 10.6      | 23.6             |
| 23-02-2023        | 767.9           | 92.0                  | 12.6      | 20.4             |
| 24-02-2023        | 768.2           | 39.3                  | 19.2      | 0                |
| 25-02-2023        | 768.5           | 42.3                  | 21.1      | 0                |
| 26-02-2023        | 768.9           | 39.0                  | 23.3      | 0                |
| 27-02-2023        | 769.2           | 38.4                  | 23.5      | 0                |
| 28-02-2023        | 760.8           | 35.7                  | 23.0      | 0                |
|                   |                 |                       | Total     | 44               |

|                                                                                                                                        |                                                               |                                                                                                   |                                      |                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                       | <b>MEGHALAYA POWER LIMITED (43MW)</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | MPL/Env/F – 01                                                                                       |
|                                                                                                                                        |                                                               |                                                                                                   | Issue No.                            | 1                                                                                                    |
|                                                                                                                                        |                                                               |                                                                                                   | Date of Issue:                       | 24.08.2013                                                                                           |
|                                                                                                                                        |                                                               |                                                                                                   | Revision No.                         | 5                                                                                                    |
|                                                                                                                                        | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                  |                                                                                                   | Date of Rev.                         | 01.12.2020                                                                                           |
| Reference No.: MPL (43 MW)/ENV/AAQM/MONTHLY/2022-23/11                                                                                 |                                                               |                                                                                                   | Month: February                      |                                                                                                      |
| 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> )                                                                 |
| 01.02.2023                                                                                                                             | 47.29                                                         | 29.83                                                                                             | 11.38                                | 14.03                                                                                                |
| 03.02.2023                                                                                                                             | 49.05                                                         | 27.80                                                                                             | 13.14                                | 14.83                                                                                                |
| 06.02.2023                                                                                                                             | 45.51                                                         | 32.33                                                                                             | 12.15                                | 14.07                                                                                                |
| 11.02.2023                                                                                                                             | 47.38                                                         | 29.83                                                                                             | 15.14                                | 17.00                                                                                                |
| 14.02.2023                                                                                                                             | 46.21                                                         | 31.01                                                                                             | 11.50                                | 14.03                                                                                                |
| 16.02.2023                                                                                                                             | 44.36                                                         | 26.67                                                                                             | 11.18                                | 12.68                                                                                                |
| 18.02.2023                                                                                                                             | 45.03                                                         | 33.33                                                                                             | 12.17                                | 14.88                                                                                                |
| 20.02.2023                                                                                                                             | 43.21                                                         | 30.83                                                                                             | 10.72                                | 13.79                                                                                                |
| NAAQS permissible limits for Rural,<br>Industrial, Residential Area                                                                    | 100 (µg/m <sup>3</sup> )                                      | 60 (µg/m <sup>3</sup> )                                                                           | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )                                                                              |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                               |                                                                                                   |                                      |                                                                                                      |
| <br>Analysed by                                     |                                                               | <br>Checked by |                                      | <br>Verified By |

|                                                                                                                                        |                                                               |                                                                                                   |                                      |                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                       | <b>MEGHALAYA POWER LIMITED (43MW)</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | MPL/Env/F – 01                                                                                       |
|                                                                                                                                        |                                                               |                                                                                                   | Issue No.                            | 1                                                                                                    |
|                                                                                                                                        |                                                               |                                                                                                   | Date of Issue:                       | 24.08.2013                                                                                           |
|                                                                                                                                        |                                                               |                                                                                                   | Revision No.                         | 5                                                                                                    |
|                                                                                                                                        | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                  |                                                                                                   | Date of Rev.                         | 01.12.2020                                                                                           |
| Reference No.: MPL (43 MW)/ENV/AAQM/MONTHLY/2022-23/11                                                                                 |                                                               |                                                                                                   | Month: February                      |                                                                                                      |
| 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> )                                                                 |
| 01.02.2023                                                                                                                             | 29.01                                                         | 23.13                                                                                             | 10.65                                | 15.12                                                                                                |
| 03.02.2023                                                                                                                             | 31.01                                                         | 22.10                                                                                             | 9.21                                 | 18.62                                                                                                |
| 06.02.2023                                                                                                                             | 32.33                                                         | 24.43                                                                                             | 8.58                                 | 11.35                                                                                                |
| 11.02.2023                                                                                                                             | 36.68                                                         | 25.59                                                                                             | 11.48                                | 13.25                                                                                                |
| 14.02.2023                                                                                                                             | 34.30                                                         | 23.95                                                                                             | 9.67                                 | 15.12                                                                                                |
| 16.02.2023                                                                                                                             | 32.00                                                         | 22.41                                                                                             | 12.28                                | 12.91                                                                                                |
| 18.02.2023                                                                                                                             | 36.23                                                         | 19.94                                                                                             | 11.84                                | 14.15                                                                                                |
| 20.02.2023                                                                                                                             | 34.52                                                         | 18.11                                                                                             | 10.46                                | 12.16                                                                                                |
| 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 (43MW)</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 (43 MW)/ENV/AAQM/MONTHLY/2022-23/11                                                                                 |                                                               |                                                                                                   | Month: February                      |                                                                                                      |
| 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> )                                                                 |
| 01.02.2023                                                                                                                             | 48.09                                                         | 33.33                                                                                             | 10.96                                | 15.96                                                                                                |
| 03.02.2023                                                                                                                             | 46.71                                                         | 27.91                                                                                             | 12.50                                | 17.71                                                                                                |
| 06.02.2023                                                                                                                             | 50.35                                                         | 30.13                                                                                             | 12.15                                | 12.71                                                                                                |
| 11.02.2023                                                                                                                             | 51.85                                                         | 33.81                                                                                             | 10.08                                | 15.36                                                                                                |
| 14.02.2023                                                                                                                             | 50.71                                                         | 30.33                                                                                             | 9.15                                 | 14.71                                                                                                |
| 16.02.2023                                                                                                                             | 45.06                                                         | 31.98                                                                                             | 10.15                                | 13.36                                                                                                |
| 18.02.2023                                                                                                                             | 45.71                                                         | 26.98                                                                                             | 11.18                                | 18.60                                                                                                |
| 20.02.2023                                                                                                                             | 42.33                                                         | 25.97                                                                                             | 8.50                                 | 12.43                                                                                                |
| NAAQS permissible limits for Rural, Industrial, Residential Area                                                                       | 100 (µg/m <sup>3</sup> )                                      | 60 (µg/m <sup>3</sup> )                                                                           | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )                                                                              |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                               |                                                                                                   |                                      |                                                                                                      |
| <br>Analysed by                                     |                                                               | <br>Checked by |                                      | <br>Verified By |

|                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                               |                                             |                                      |                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------|--------------------------------------|--------------------------------------|
|                                                                                                                                                                                                                                                                                                                                          | <b>MEGHALAYA POWER LIMITED (43MW)</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 (43 MW)/ENV/AAQM/MONTHLY/2022-23/04                                                                                                                                                                                                                                                                                                                                                                    |                                                               |                                             | Month: February                      |                                      |
| 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> ) |
| 01.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                | 45.19                                                         | 26.67                                       | 10.17                                | 13.73                                |
| 03.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                | 46.95                                                         | 24.64                                       | 9.14                                 | 12.70                                |
| 06.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                | 43.41                                                         | 29.17                                       | 11.47                                | 15.03                                |
| 11.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                | 45.28                                                         | 26.67                                       | 12.63                                | 16.19                                |
| 14.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                | 44.11                                                         | 27.85                                       | 13.17                                | 14.55                                |
| 16.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                | 42.26                                                         | 23.51                                       | 9.45                                 | 13.01                                |
| 18.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                | 42.93                                                         | 30.17                                       | 10.74                                | 13.74                                |
| 20.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                | 41.11                                                         | 27.67                                       | 12.18                                | 14.07                                |
| NAAQS permissible limits for Rural, Industrial, Residential Area                                                                                                                                                                                                                                                                                                                                                          | 100 (µg/m <sup>3</sup> )                                      | 60 (µg/m <sup>3</sup> )                     | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )              |
| <p><b>Remarks:</b> All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>                                                                                                                                                                                                                                                                      |                                                               |                                             |                                      |                                      |
| <div> <div> <br/>           Analysed by         </div> <div> <br/>           Checked by         </div> <div> <br/>           Verified By         </div> </div> |                                                               |                                             |                                      |                                      |

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|                                                       | <b>MEGHALAYA POWER LIMITED (43MW)</b><br>Lumshnong, Meghalaya |                                                                                                   | Reference No.                        | MPL/Env/F – 01                                                                                       |
|                                                                                                                                        |                                                               |                                                                                                   | Issue No.                            | 1                                                                                                    |
|                                                                                                                                        |                                                               |                                                                                                   | Date of Issue:                       | 24.08.2013                                                                                           |
|                                                                                                                                        |                                                               |                                                                                                   | Revision No.                         | 5                                                                                                    |
| GROUND LEVEL AMBIENT AIR QUALITY MONITORING REPORT                                                                                     |                                                               |                                                                                                   | Date of Rev.                         | 01.12.2020                                                                                           |
| Reference No.: MPL (43 MW)/ENV/AAQM/MONTHLY/2022-23/04                                                                                 |                                                               |                                                                                                   | Month: February                      |                                                                                                      |
| Location of Sampling: Near 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> )                                                                 |
| 01.02.2023                                                                                                                             | 39.10                                                         | 25.63                                                                                             | 15.81                                | 18.31                                                                                                |
| 03.02.2023                                                                                                                             | 39.40                                                         | 23.60                                                                                             | 14.78                                | 17.28                                                                                                |
| 06.02.2023                                                                                                                             | 40.51                                                         | 28.13                                                                                             | 17.11                                | 19.61                                                                                                |
| 11.02.2023                                                                                                                             | 38.56                                                         | 25.63                                                                                             | 18.27                                | 20.77                                                                                                |
| 14.02.2023                                                                                                                             | 37.07                                                         | 26.81                                                                                             | 16.63                                | 19.13                                                                                                |
| 16.02.2023                                                                                                                             | 39.36                                                         | 22.47                                                                                             | 15.09                                | 17.59                                                                                                |
| 18.02.2023                                                                                                                             | 37.08                                                         | 29.13                                                                                             | 11.16                                | 15.12                                                                                                |
| 20.02.2023                                                                                                                             | 38.21                                                         | 26.63                                                                                             | 10.79                                | 13.29                                                                                                |
| NAAQS permissible limits for Rural, Industrial, Residential Area                                                                       | 100 (µg/m <sup>3</sup> )                                      | 60 (µg/m <sup>3</sup> )                                                                           | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )                                                                              |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                               |                                                                                                   |                                      |                                                                                                      |
| <br>Analysed by                                     |                                                               | <br>Checked by |                                      | <br>Verified By |

|                                                                                                                          |                                                                |                                                                                                   |                    |                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------|
|                                         | <b>MEGHALAYA POWER LIMITED (43 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(43MW)/ENV/STACK/MONTHLY/2022-23/11                                                                        |                                                                |                                                                                                   | Month: February'23 |                                                                                                               |
| <b><u>Analysis Result</u></b>                                                                                            |                                                                |                                                                                                   |                    |                                                                                                               |
| <b>A. General Information About Stack</b>                                                                                |                                                                |                                                                                                   |                    |                                                                                                               |
| 1                                                                                                                        | Stack Identification No                                        | 43 MW                                                                                             |                    |                                                                                                               |
| 2                                                                                                                        | Stack Connected to                                             | Boiler                                                                                            |                    |                                                                                                               |
| 3                                                                                                                        | Material of Construction (Stack/Duct)                          | RCC                                                                                               |                    |                                                                                                               |
| 4                                                                                                                        | Shape of duct                                                  | Circular                                                                                          |                    |                                                                                                               |
| 5                                                                                                                        | Whether duct is provided with permanent platform & ladder      | Yes                                                                                               |                    |                                                                                                               |
| <b>B. Physical characteristic of stack</b>                                                                               |                                                                |                                                                                                   |                    |                                                                                                               |
| 1                                                                                                                        | Stack Height from ground level (meter)                         | 81.0                                                                                              |                    |                                                                                                               |
| 2                                                                                                                        | Duct diameter at sampling point (meter)                        | 2.75                                                                                              |                    |                                                                                                               |
| 3                                                                                                                        | Sampling height point from ground level (meter)                | 45.5                                                                                              |                    |                                                                                                               |
| 4                                                                                                                        | Cross sectional area of Duct/Stack (m <sup>2</sup> )           | 5.94                                                                                              |                    |                                                                                                               |
| <b>C. Pollution Control Device</b>                                                                                       |                                                                |                                                                                                   |                    |                                                                                                               |
| 1                                                                                                                        | Details of pollution control device attached to stack          | ESP                                                                                               |                    |                                                                                                               |
| <b>D. Result of Sampling &amp; Analysis of Gaseous Emission</b>                                                          |                                                                |                                                                                                   |                    |                                                                                                               |
| 1                                                                                                                        | Date of Sampling                                               | 01.02.2023                                                                                        |                    |                                                                                                               |
| 2                                                                                                                        | Ambient Temp (°C)                                              | 40.00                                                                                             |                    |                                                                                                               |
| 3                                                                                                                        | Stack Gas Temp (°C)                                            | 120.00                                                                                            |                    |                                                                                                               |
| 4                                                                                                                        | Exit Velocity of Gas (m/sec.)                                  | 15.29                                                                                             |                    |                                                                                                               |
| 5                                                                                                                        | Flow Rate (Nm <sup>3</sup> / sec.)                             | 64.27                                                                                             |                    |                                                                                                               |
| 6                                                                                                                        | Quantity of Emission (Nm <sup>3</sup> / Hr)                    | 231373.32                                                                                         |                    |                                                                                                               |
| 7                                                                                                                        | Concentration of PM (mg/Nm <sup>3</sup> )                      | 24.1                                                                                              |                    |                                                                                                               |
| 8                                                                                                                        | Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )         | 351                                                                                               |                    |                                                                                                               |
| 9                                                                                                                        | Concentration of NOx (mg/Nm <sup>3</sup> )                     | 232                                                                                               |                    |                                                                                                               |
| 10                                                                                                                       | Oxygen (O <sub>2</sub> ) (%)                                   | 9.1                                                                                               |                    |                                                                                                               |
| <b>E. Remarks:</b>                                                                                                       |                                                                |                                                                                                   |                    |                                                                                                               |
| <b>Standard</b>                                                                                                          |                                                                |                                                                                                   |                    |                                                                                                               |
| PM - 50 mg/Nm <sup>3</sup>                                                                                               |                                                                | SO <sub>2</sub> - 600 mg/Nm <sup>3</sup>                                                          |                    | NOx - 300 mg/Nm <sup>3</sup>                                                                                  |
| Particulate Matter (PM), Sulphur di-oxide (SO <sub>2</sub> ), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP) |                                                                |                                                                                                   |                    |                                                                                                               |
| <br>Analysis by                       |                                                                | <br>Checked by |                    | <br>Authorized Signatory |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                        |                                                                        |                                                    |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>MEGHALAYA POWER LIMITED</b><br>Lumshnong, Meghalaya |                                                                        | Document No.                                       | MPL/EHS/Env/F-04 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                        |                                                                        | Date of Issued                                     | 01-05-2019       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>FUGITIVE EMISSION MONITORING REPORT</b>             |                                                                        | Revision No.                                       | 2                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                        |                                                                        | Revision Date                                      | 01-01-2021       |
| Ref: MPL(43MW)/ENV/FUGITIVE/MONTHLY/2022-23/11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                                        |                                                    |                  |
| <b>Month - February 2023</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        |                                                                        |                                                    |                  |
| <b>Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Location</b>                                        | <b>Fugitive Emission Results</b><br><br>(in $\mu\text{g}/\text{m}^3$ ) | <b>As per CPCB/BIS Guideline</b>                   |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                        |                                                                        | <b>Limit</b><br><br>(in $\mu\text{g}/\text{m}^3$ ) |                  |
| 09.02.2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Coal Storage Section</b>                            | 1647                                                                   | <b>2000</b>                                        |                  |
| <div style="display: flex; justify-content: space-between; align-items: flex-end; padding-top: 50px;"> <div style="text-align: center;"> <br/> <b>Analyzed By</b> </div> <div style="text-align: center;"> <br/> <b>Checked By</b> </div> <div style="text-align: center;"> <br/> <b>Verified By</b> </div> </div> |                                                        |                                                                        |                                                    |                  |

|                                                                                   |                                                        |  |  |              |                |              |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|--|--|--------------|----------------|--------------|
|  | <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/2022-23/11

Date of sample collection: 01.02.2023  
Date of Analysis: 01.02.2023 to 04.02.2023

| Sl.No. | Parameter                                       | Unit  | STP Inlet  | STP Outlet | Standard Norms For Discharge of Environment Pollution<br>(Notification Date: - 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 - dated Shillong, the 3rd Sep,2014 |
|--------|-------------------------------------------------|-------|------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | pH                                              | -     | 7.4        | 7.8        | 5.5 to 9.0                                                                                                                                                                                              |
| 2      | Colour                                          | Hazen | Colourless | Colourless | -                                                                                                                                                                                                       |
| 3      | Odour                                           | -     | Odourless  | Odourless  | -                                                                                                                                                                                                       |
| 4      | Chloride                                        | mg/L  | 35         | 38         | -                                                                                                                                                                                                       |
| 5      | Total Hardness as CaCO <sub>3</sub>             | mg/L  | 83         | 84.0       | -                                                                                                                                                                                                       |
| 6      | Suspended Solids                                | mg/L  | 70         | 8          | 100                                                                                                                                                                                                     |
| 7      | Total Dissolve Solids                           | mg/L  | 288        | 409        | -                                                                                                                                                                                                       |
| 8      | Chemical Oxygen Demand                          | mg/L  | 120        | 28         | 250                                                                                                                                                                                                     |
| 9      | Biochemical Oxygen Demand (For 3 days at 27 °C) | mg/L  | 54         | 6.9        | 30                                                                                                                                                                                                      |
| 10     | Oil & Grease                                    | mg/L  | 9          | < 3.0      | 10                                                                                                                                                                                                      |
| 11     | Temperature                                     | ° C   | 25         | 25         | Shall not exceed 5.0°C above the receiving water temperature                                                                                                                                            |
| 12     | Conductivity                                    | µS/cm | 509        | 723        | -                                                                                                                                                                                                       |

  
 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/2022-23/11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |      |              |                                                                                                                                                                                                         | Date of sample collection: 01.02.2023<br>Date of Analysis: 01.02.2023 to 04.02.2023 |
| Sl.No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Parameter                                              | Unit | ETP Outlet   | Standard Norms For Discharge of Environment Pollution<br>(Notification Date:- 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014-2015/34 – dated Shillong, the 3rd SEP, 2014. |                                                                                     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | pH                                                     | -    | 7.3          | 5.5 to 9.0                                                                                                                                                                                              |                                                                                     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Suspended Solids                                       | mg/L | 16           | 100                                                                                                                                                                                                     |                                                                                     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Total Dissolve Solids                                  | mg/L | 230          | -                                                                                                                                                                                                       |                                                                                     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Chemical Oxygen Demand                                 | mg/L | 32           | 250                                                                                                                                                                                                     |                                                                                     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Biochemical Oxygen Demand (For 3 days at 27 °C)        | mg/L | 14           | 30                                                                                                                                                                                                      |                                                                                     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Oil & Grease                                           | mg/L | <3.0         | 10                                                                                                                                                                                                      |                                                                                     |
| <div style="display: flex; justify-content: space-between; align-items: flex-end; padding: 10px;"> <div style="text-align: center;"> <br/> <b>Analysis By</b> </div> <div style="text-align: center;"> <br/> <b>Checked By</b> </div> <div style="text-align: center;"> <br/> <b>Verified By</b> </div> </div> |                                                        |      |              |                                                                                                                                                                                                         |                                                                                     |



**MEGHALAYA POWER LIMITED**  
Lumshnong, Meghalaya

|                |              |
|----------------|--------------|
| Reference No.  | MPL/EHS/F-04 |
| Issue No.      | 1            |
| Date of Issue: | 24.08.2013   |
| Revision No.   | 3            |
| Date of Rev.   | 01.06.2019   |

**WATER TESTING REPORT**

Reference No.: MPL/ENV/WATER/MONTHLY/2022-23/11

**Surface Water Analysis Results**

Date of sample collection: 01.02.2023

Month: February

Date of Analysis: 01.02.2023 to 04.02.2023

| S.No. | Parameter                                          | Unit    | Umtyrngai Nallah |                           | Umutha Nallah |             | Umso Nalah      | Umbadoh                           | Tongseng   | Lumshnong                 | Wahiajer | Standards norms<br>as per IS 2296 |
|-------|----------------------------------------------------|---------|------------------|---------------------------|---------------|-------------|-----------------|-----------------------------------|------------|---------------------------|----------|-----------------------------------|
|       |                                                    |         | Up Stream        | Down Stream               | Up Stream     | Down Stream | Down Stream     | Seasonal Spring / Seasonal Nallah |            |                           |          |                                   |
| 1     | pH                                                 | -       | 7.7              | Water Source<br>not found |               |             | 7.5             | 7.8                               | 7.9        | Water Source<br>not found |          | 6.5 - 8.5                         |
| 2     | Colour                                             | Hazen   | Colourless       |                           |               |             | Colourless      | Colourless                        | Colourless |                           |          | 10                                |
| 3     | Odour                                              | -       | Unobjectionable  |                           |               |             | Unobjectionable |                                   |            |                           |          | Unobjectionable                   |
| 4     | Chloride                                           | mg/L    | 41.0             |                           |               |             | 42.3            | 24.0                              | 26.7       |                           |          | 250                               |
| 5     | Total Hardness as CaCO <sub>3</sub>                | mg/L    | 67.1             |                           |               |             | 81.2            | 70.0                              | 40.2       |                           |          | 300                               |
| 6     | Suspended Solids                                   | mg/L    | 1.5              |                           |               |             | 4.2             | 6.1                               | 5.0        |                           |          | -                                 |
| 7     | Total Dissolve Solids                              | mg/L    | 220              |                           |               |             | 215             | 162                               | 82.0       |                           |          | 500                               |
| 8     | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L    | ND               |                           |               |             | ND              | ND                                | ND         |                           |          | 2.0                               |
| 9     | Oil & Grease                                       | mg/L    | ND               |                           |               |             | ND              | ND                                | ND         |                           |          | -                                 |
| 10    | Temperature                                        | * C     | 25.0             |                           |               |             | 25.0            | 25.0                              | 25.0       |                           |          | -                                 |
| 11    | Conductivity                                       | µS/cm   | 330              |                           |               |             | 323             | 243                               | 123        |                           |          | -                                 |
| 12    | Flow                                               | L / Min | -                |                           |               |             | -               | -                                 | -          |                           |          | -                                 |

Analyzed by

Checked by

Verified by