

# MEGHALAYA POWER LIMITED

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

Ref: MPL (1 X 8 MW)/LUM/EHS/2022-23/04

Dated: 21/05/2022

To,

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

**Subject** : Monthly Environment Monitoring Report.

**Reference** : MPCB/CON-54/2007/2019-2020/80, Dated. Shillong, the 1<sup>st</sup> November, 2019.

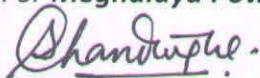
Dear Sir,

Please find enclosed herewith the monthly Environmental monitoring reports of Ambient Air Quality including meteorological data, Stack Emission, Fugitive Emission & Waste water (STP & ETP) quality monitoring reports of M/s Meghalaya Power Limited for the month of **April, 2022.**

This is for your kind information record please.

Thanking You,

Yours truly,  
For Meghalaya Power Limited

for, 

Arvind Rai  
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-793 014.
  - 3) The Member Secretary, State Environment Impact Assessment Authority (SEIAA), 'Silviculture Building' Lower Lachumiere, Shillong – 793001, Meghalaya

|  |                                       |   |                                      |                                      |         |
|--|---------------------------------------|---|--------------------------------------|--------------------------------------|---------|
| <b>MEGHALAYA POWER LIMITED (8MW)</b><br>Lumshnong, Meghalaya     |                                       | Reference No.                               | MPL/Env/F – 01                       |                                      |         |
|  |                                       | Issue No.                                   | 1                                    |                                      |         |
|  |                                       | Date of Issue:                              | 24.08.2013                           |                                      |         |
| <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                     |                                       | Revision No.                                | 5                                    |                                      |         |
|  |                                       | Date of Rev.                                | 01.12.2020                           |                                      |         |
| Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2022-23/34            |                                       | Month: April'22                             |                                      |                                      |         |
| 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.                              | 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> ) |         |
| No monitoring due to Rainfall                                    |                                       |   |                                      |                                      |         |
| 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.

  
Analysed by

  
Checked by

  
Verified By

|  |                                       |   |                                      |                                      |         |
|--|---------------------------------------|---|--------------------------------------|--------------------------------------|---------|
| <b>MEGHALAYA POWER LIMITED (8MW)</b><br>Lumshnong, Meghalaya     |                                       | Reference No.                               | MPL/Env/F – 01                       |                                      |         |
|  |                                       | Issue No.                                   | 1                                    |                                      |         |
|  |                                       | Date of Issue:                              | 24.08.2013                           |                                      |         |
| <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                     |                                       | Revision No.                                | 5                                    |                                      |         |
|  |                                       | Date of Rev.                                | 01.12.2020                           |                                      |         |
| Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2022-23/35            |                                       | Month: April'22                             |                                      |                                      |         |
| Location of Sampling: Near STP                                   |                                       | GPS Coordinate: 25°10'49"N 92°23'58"E 947 m |                                      |                                      |         |
| Sampling Duration:   | 24 Hrs.                               | 24 Hrs.                                     | 24 Hrs.                              | 24 Hrs.                              | 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> ) |         |
| No monitoring due to Rainfall                                    |                                       |   |                                      |                                      |         |
| NAAQS permissible limits for Rural, Industrial, Residential Area | 100 (µg/m <sup>3</sup> )              | 60 (µg/m <sup>3</sup> )                     | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )              |         |

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

  
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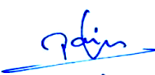


|  |                                       |   |                                      |                                      |         |
|--|---------------------------------------|---|--------------------------------------|--------------------------------------|---------|
| <b>MEGHALAYA POWER LIMITED (8MW)</b><br>Lumshnong, Meghalaya     |                                       | Reference No.                               | MPL/Env/F-01                         |                                      |         |
|  |                                       | Issue No.                                   | 1                                    |                                      |         |
|  |                                       | Date of Issue:                              | 24.08.2013                           |                                      |         |
| <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                     |                                       | Revision No.                                | 5                                    |                                      |         |
|  |                                       | Date of Rev.                                | 01.12.2020                           |                                      |         |
| Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2022-23/36            |                                       | Month: April'22                             |                                      |                                      |         |
| Location of Sampling: Near Piezometer                            |                                       | GPS Coordinate: 25°10'35"N 92°23'53"E 348 m |                                      |                                      |         |
| Sampling Duration:   | 24 Hrs.                               | 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> ) |         |
| No monitoring due to Rainfall                                    |                                       |   |                                      |                                      |         |
| NAAQS permissible limits for Rural, Industrial, Residential Area | 100 (µg/m <sup>3</sup> )              | 60 (µg/m <sup>3</sup> )                     | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )              |         |

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

  
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| MEGHALAYA POWER LIMITED (8MW)<br>Lumshnong, Meghalaya  |   | Reference No.   | MPL/Env/F-02 |
|--|---|---|--------------|
|  |   | Issue No.   | 1            |
| STACK EMISSION MONITORING ANALYSIS REPORT  |   | Date of Issue:  | 01.05.2019   |
|  |   | Revision No.  | 5            |
|  |   | Date of Rev.  | 01.06.2021   |
| Report No: MPL/ENV/STACK/MONTHLY/2022-23/05  |   | Month: April'22   |              |
| <b><u>Analysis Result</u></b>  |   |   |              |
| A.   | General Information About Stack                           |   |              |
| 1  | Stack Identification No                                   | 8 MW  |              |
| 2  | Stack Connected to  | Boiler  |              |
| 3  | Material of Construction (Stack/Duct)                     | Mild Steel  |              |
| 4  | Shape of duct   | Circular  |              |
| 5  | Whether duct is provided with permanent platform & ladder | Yes   |              |
| B.   | Physical characteristic of stack                          |   |              |
| 1  | Stack Height from ground level (meter)                    | 45  |              |
| 2  | Duct diameter at sampling point (meter)                   | 2.08  |              |
| 3  | Sampling height point from ground level (meter)           | 11  |              |
| 4  | Cross sectional area of Duct/Stack (m <sup>2</sup> )      | 3.4   |              |
| C.   | Pollution Control Device                                  |   |              |
| 1  | Details of pollution control device attached to stack     | ESP   |              |
| D.   | Result of Sampling & Analysis of Gaseous Emission         |   |              |
| 1  | Date of Sampling  | 20.04.2022  |              |
| 2  | Ambient Temp (°C)   | 23.00   |              |
| 3  | Stack Gas Temp (°C)                                       | 100   |              |
| 4  | Exit Velocity of Gas (m/sec.)                             | 14.08   |              |
| 5  | Flow Rate (Nm <sup>3</sup> / sec.)                        | 35.07   |              |
| 6  | Quantity of Emission (Nm <sup>3</sup> / Hr)               | 126248.82   |              |
| 7  | Concentration of PM (mg/Nm <sup>3</sup> )                 | 17.37   |              |
| 8  | Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )    | 300.58  |              |
| 9  | Concentration of NOx (mg/Nm <sup>3</sup> )                | 130.65  |              |
| 10   | Oxygen (O <sub>2</sub> ) (%)                              | 8.64  |              |
| E.   | Remarks:  |   |              |
| Standard   |   |   |              |
| 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>      | Document No.   | MPL/EHS/Env/F-04 |
|                                     | Date of Issued | 5/1/2019         |
| Lumshnong, Meghalaya                | Revision No.   | 2                |
| FUJITIVE EMISSION MONITORING REPORT | Revision Date  | 1/1/2021         |

Ref: MPL/ENV/FUGITIVE/MONTHLY/2022-23/013

Month - April' 2022

| Date       | Location             | Fugitive Emission Results      | Limit                          |
|------------|----------------------|--------------------------------|--------------------------------|
|            |                      | (in $\mu\text{g}/\text{m}^3$ ) | (in $\mu\text{g}/\text{m}^3$ ) |
| 07.04.2022 | Coal Storage Section | 1385                           | 2000                           |

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

| Report No. - 01 |  |       | Date of sample collection: - 13.04.2022<br>Date of Analysis: 13.04.2022 to 16.04.2022 |   |
|-----------------|--|-------|---|---|
| Sr.No.          | Parameter  | Unit  | STP Inlet   | Standard Norms For Discharge of Environment Pollution<br>(Notification Date: - 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 - dated Shillong, the 3rd Sep,2014 |
| 1               | pH   | -     | 7.10  | -   |
| 2               | Colour   | Hazen | Colourless  | -   |
| 3               | Odour  | -     | Odourless   | -   |
| 4               | Chloride   | mg/L  | 63.5  | -   |
| 5               | Total Hardness as CaCO <sub>3</sub>                | mg/L  | 142.7   | -   |
| 6               | Suspended Solids                                   | mg/L  | 78.9  | -   |
| 7               | Total Dissolve Solids                              | mg/L  | 230   | -   |
| 8               | Chemical Oxygen Demand                             | mg/L  | 176   | -   |
| 9               | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L  | 90.0  | -   |
| 10              | Oil & Grease                                       | mg/L  | 7.5   | -   |
| 11              | Temperature  | ° C   | 24.0  | -   |
| 12              | Conductivity                                       | µS/cm | 455.0   | -   |


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

| Report No. - 01 |  |       | Date of sample collection: - 13.04.2022<br>Date of Analysis: 13.04.2022 to 16.04.2022 |   |
|-----------------|--|-------|---|---|
| Sr.No.          | Parameter  | Unit  | STP Outlet  | Standard Norms For Discharge of Environment Pollution<br>(Notification Date: - 19th May 1993) &<br>Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 -<br>dated Shillong, the 3rd Sep,2014 |
| 1               | pH   | -     | 7.50  | 5.5 to 9.0  |
| 2               | Colour   | Hazen | Colourless  | -   |
| 3               | Odour  | -     | Odourless   | -   |
| 4               | Chloride   | mg/L  | 49.5  | -   |
| 5               | Total Hardness as CaCO <sub>3</sub>                | mg/L  | 138.6   | -   |
| 6               | Suspended Solids                                   | mg/L  | 7.8   | 100   |
| 7               | Total Dissolve Solids                              | mg/L  | 312   | -   |
| 8               | Chemical Oxygen Demand                             | mg/L  | 28.6  | 250   |
| 9               | Biochemical Oxygen Demand<br>(For 3 days at 27 °C) | mg/L  | 4.9   | 30  |
| 10              | Oil & Grease                                       | mg/L  | < 3.0   | 10  |
| 11              | Temperature  | ° C   | 24.0  | Shall not exceed 5.0°C above the receiving<br>water temperature   |
| 12              | Conductivity                                       | µS/cm | 462   | -   |

  
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| <b>MEGHALAYA POWER LIMITED</b><br>Lumshnong, Meghalaya | Reference No.  | SCL/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   |

Report No. - 12 Date of sample collection: - 18.04.2022  
Date of Analysis: 18.04.2022 to 21.04.2022

| Sr.No. | Parameter                                       | Unit | ETP Outlet | Standard Norms For Discharge of Environment Pollution (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  | -    | 7.43       | 5.5 to 9.0  |
| 2      | Suspended Solids                                | mg/L | 15.3       | 100   |
| 3      | Total Dissolve Solids                           | mg/L | 275        | -   |
| 4      | Chemical Oxygen Demand                          | mg/L | 23.6       | 250   |
| 5      | Biochemical Oxygen Demand (For 3 days at 27 °C) | mg/L | 5.2        | 30  |
| 6      | Oil & Grease                                    | mg/L | <3         | 10  |

  
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|--|----------------|--------------|
| <b>MEGHALAYA POWER LIMITED</b><br>Lumshnong, Meghalaya | Reference No.  | SCL/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   |

Report No. -01 Date of sample collection: - 05.04.2022  
Date of Analysis: 05.04.2022 to 08.04.2022

| Sr.No. | Parameter                                       | Unit  | Nala Up Stream  | Nala Down Stream | Standards norms as per IS 2296 |
|--------|---|-------|-----------------|------------------|--------------------------------|
| 1      | pH  | -     | 7.40            | 7.30             | 6.5 - 8.5                      |
| 2      | Colour  | Hazen | Colourless      | Colourless       | 300                            |
| 3      | Odour   | -     | Unobjectionable | Unobjectionable  | Unobjectionable                |
| 4      | Chloride  | mg/L  | 141.5           | 144.5            | -                              |
| 5      | Total Hardness as CaCO <sub>3</sub>             | mg/L  | 15.7            | 12.6             | 300                            |
| 6      | Suspended Solids                                | mg/L  | 82.0            | 80.9             | -                              |
| 7      | Total Dissolve Solids                           | mg/L  | 86              | 82.4             | 500                            |
| 8      | Chemical Oxygen Demand                          | mg/L  | ND              | ND               | -                              |
| 9      | Biochemical Oxygen Demand (For 3 days at 27 °C) | mg/L  | ND              | ND               | 2.0                            |
| 10     | Oil & Grease                                    | mg/L  | ND              | ND               | -                              |
| 11     | Temperature                                     | ° C   | 25.0            | 25.0             | -                              |
| 12     | Conductivity                                    | µS/cm | 332.05          | 322.6            | -                              |

  
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