

**Monitoring Report for Key Parameters**

Ministry of Environment, Forests and Climate Change issued Environment Clearance No. J11015/17/2013/-IA.II (M) dated 28 November 2016 for Enhancement of limestone mining from 2.0 million tonnes per annum (MTPA) to 5.0 MTPA; and J-11015/10/2000-IA.M dated 09 August 2001, 30 July 2002 with partial modification dated 19 April 2010 for 2.0 MTPA of Limestone Mining from Nongtraï Limestone Mine of Lafarge Umiam Mining Pvt Ltd., Phlangkaruh, Village Nongtraï, Tehsil Sohra, District East Khasi Hills, Meghalaya

**A) Static Information**

|   |                             |                                                                          |
|---|-----------------------------|--------------------------------------------------------------------------|
| 1 | Mine Location               | Phlangkaruh, Nongtraï Village, Sohra Tehsil, East Khasi Hills, Meghalaya |
| 2 | Mine Lease Area             | 100 Hectare                                                              |
| 3 | Production Capacity         | 5.0 million tonnes per annum                                             |
| 4 | Lease Issue Date & Validity | Lease Issue Date: 03 Jan. 2002; Validity: 06 Jan. 2052                   |
| 5 | Date of Commencement        | 28 March 2003.                                                           |

**B) Dynamic Parameters:**

| I Ambient Air Quality Monitoring Results (microgram/m³) March Fortnight 1 (I) March Fortnight 2 (II)                                                        |                                     |                                                    |             |                      |             |                                                     |             |                          |             |                         |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------|-------------|----------------------|-------------|-----------------------------------------------------|-------------|--------------------------|-------------|-------------------------|-------------|
|                                                                                                                                                             | Paramet<br>ers                      | Monitoring Locations                               |             |                      |             |                                                     |             |                          |             |                         |             |
|                                                                                                                                                             |                                     | HEMM Workshop (Light<br>Section Near ETP) (LA - 1) |             | Near Magazene (LA-2) |             | Near Phlangkaruh Village<br>(Near Barrack 1) (LA-3) |             | Pyrkan Village<br>(LA-4) |             | Shella Bazaar<br>(LA-5) |             |
|                                                                                                                                                             |                                     | I                                                  | II          | I                    | II          | I                                                   | II          | I                        | II          | I                       | II          |
| 1                                                                                                                                                           | RSPM-<br>PM <sub>10</sub>           | 57.90-59.20                                        | 58.20-59.70 | 55.80-57.60          | 54.60-57.40 | 52.80-55.40                                         | 52.50-55.40 | 50.20-52.40              | 50.80-52.70 | 52.40-53.80             | 51.20-54.20 |
| 2                                                                                                                                                           | PM 2.5                              | 23.80-24.80                                        | 23.80-25.20 | 22.40-23.80          | 21.70-23.90 | 21.50-22.80                                         | 21.80-22.60 | 20.40-21.80              | 20.60-22.80 | 21.40-22.10             | 21.20-22.80 |
| 3                                                                                                                                                           | SO <sub>2</sub>                     | 6.70-7.50                                          | 6.50-7.50   | 5.60-6.40            | 5.60-6.20   | 4.90-5.60                                           | 5.40-5.90   | 3.50-4.20                | 3.60-5.40   | 4.50-5.60               | 4.50-4.90   |
| 4                                                                                                                                                           | NOx                                 | 9.60-11.50                                         | 10.40-11.80 | 6.90-10.40           | 7.40-9.80   | 5.80-6.50                                           | 6.20-7.20   | 5.20-5.60                | 4.50-5.80   | 5.40-6.70               | 5.40-6.20   |
| II Vibrations – Peak Particle Velocity (PPV) measured                                                                                                       |                                     |                                                    |             |                      |             |                                                     |             |                          |             |                         |             |
| 0.075 - 3.508 mm/sec (monitored at two locations 300 m from blast site)                                                                                     |                                     |                                                    |             |                      |             |                                                     |             |                          |             |                         |             |
| III                                                                                                                                                         | Wastewater Discharge from workshop  |                                                    |             |                      |             |                                                     |             |                          |             |                         |             |
| A                                                                                                                                                           | Quantity:                           |                                                    |             |                      |             | 2.0 m³/day (monthly average)                        |             |                          |             |                         |             |
| B                                                                                                                                                           | Quality                             |                                                    |             |                      |             |                                                     |             |                          |             |                         |             |
| 1                                                                                                                                                           | pH                                  |                                                    |             |                      |             | 7.9                                                 |             |                          |             |                         |             |
| 2                                                                                                                                                           | Total Suspended Solids (TSS), mg/l  |                                                    |             |                      |             | 40.2                                                |             |                          |             |                         |             |
| 3                                                                                                                                                           | Total Dissolved Solid (TDS), mg/l   |                                                    |             |                      |             | 152.0                                               |             |                          |             |                         |             |
| 4                                                                                                                                                           | Oil and Grease                      |                                                    |             |                      |             | 5.0                                                 |             |                          |             |                         |             |
| Note: Five 6 STPs at i) Transit House, ii) Old Camp, ii) Barrack-I, iv) Barrack-II, v) Office area, vi) New Camp and ETP at work shop remained operational. |                                     |                                                    |             |                      |             |                                                     |             |                          |             |                         |             |
| IV                                                                                                                                                          | Greenbelt Plantation                |                                                    |             |                      |             |                                                     |             |                          |             |                         |             |
| 1                                                                                                                                                           | Current Year Plantation (Nos)       |                                                    |             |                      |             | Nov 2025: Nil<br>To date in 2025: 990               |             |                          |             |                         |             |
| 2                                                                                                                                                           | Plantations done in the past (Nos.) |                                                    |             |                      |             | Total as on 2024: 45399 Numbers.                    |             |                          |             |                         |             |

Date: 13 Jan 2025

Signatures: 

Approved by: Phani Krishna Kumar  
Mine Manager

**Lafarge Umiam Mining Pvt. Ltd.**  
A company of  **HOLCIM** and **Molins**

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