

**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 : 02 Jan. 2032
5	Date of Commencement	28 March 2003.

**B) Dynamic Parameters:**

I Ambient Air Quality Monitoring Results (microgram/m <sup>3</sup> ) Dec Fortnight 1 (I) Dec Fortnight 2 (II)											
Parameters		Monitoring Locations									
		HEMM Workshop (Light Section Near ETP) (LA-1)		Near Magazine (LA-2)		Near Phlangkaruh Village (Near Barrack 1) (LA-3)		Pyrkan Village (LA-4)		Shella Bazaar (LA-5)	
		I	II	I	II	I	II	I	II	I	II
1	RSPM-PM <sub>10</sub>	56.70-59.70	56.50-58.20	54.20-57.20	54.80-56.80	52.70-54.20	52.70-55.40	50.20-52.60	49.80-51.80	51.60-53.70	51.20-52.80
2	PM 2.5	22.80-25.20	22.20-25.50	21.70-24.60	21.70-24.20	21.70-22.60	20.50-23.20	19.50-22.80	20.20-22.40	19.20-22.60	21.20-22.40
3	SO <sub>2</sub>	5.20-7.60	6.20-6.80	5.10-6.80	5.80-6.50	4.70-5.40	4.80-5.20	3.80-5.40	4.20-4.90	3.50-5.20	4.20-4.80
4	NO <sub>x</sub>	8.70-11.20	8.50-12.40	6.90-9.40	6.90-10.20	5.90-6.40	5.90-6.80	4.50-5.80	5.10-5.80	4.80-5.60	5.20-5.60
<b>II Vibrations – Peak Particle Velocity (PPV) measured</b>											
0.572-1.937 mm/sec (monitored at two locations 300 m from blast site)											
<b>III Wastewater Discharge from workshop</b>											
A	Quantity:	2.0 m <sup>3</sup> /day (monthly average)									
B	Quality										
1	pH	8.5									
2	Total Suspended Solids (TSS), mg/l	20.1									
3	Total Dissolved Solid (TDS), mg/l	95.0									
4	Oil and Grease	BDL									
Note: Five STPs at i) Transit House, ii) Old Camp, ii) Barrack-I, iv) Barrack-II, v) Office area and ETP at work shop remained operational.											
<b>IV Greenbelt Plantation</b>											
1	Current Year Plantation (Nos)	December 2021: 0 To date in 2021: 1040									
2	Plantations done in the past (Nos.)	Total as on December 2021: 40419 Numbers.									

Date: 15 December 2021

Signatures:  
Approved by: Nohar Singh  
Mine Manager

**Lafarge Umiam Mining Private Limited**

A company of LafargeHolcim and CEMENTOS MOLINS

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