



**LafargeHolcim**

May 27, 2026

**Member Secretary  
State Environment Impact Assessment Authority  
Meghalaya, Shillong**

**Subject:** Implementation of Conditions Stipulated in the Environmental Clearance (EC) No. EC24B001ML157481 dated 10th April 2024 – Shale Mining Project at Shella, Tehsil Sohra, District East Khasi Hills, Meghalaya – M/s Lafarge Umiam Mining Pvt. Ltd.

Sir,

We have obtained Stage-I Forest Clearance from the Office of the Divisional Forest Officer, East Khasi Hills & Ri-Bhoi (T) Division, Shillong, vide letter No. FG.16/LAFARGE/5.156/6471 dated 03 August 2023. Accordingly, a proposal is being formulated to seek approval for Stage-II clearance under the Forest (Conservation) Act, 1980.

All terms and conditions stipulated in the Environmental Clearance (EC) letter will be duly complied with upon receipt of the Forest Clearance and commencement of mining operations. Meanwhile, a condition-wise compliance status for the period October 2025 to March 2026, in tabular format, is enclosed herewith for your kind perusal.

The above report has also been uploaded on our official website: <http://www.lumpl.com>

We remain fully committed to complying with all environmental safeguards.

Yours Sincerely  
For Lafarge Umiam Mining Private Limited

George Chacko  
Director Corporate Affairs

Enclosures: As stated above

Cc:

1. Ministry of Environment, Forest and Climate Change, Government of India  
Integrated Regional Office, Shillong – 793021, Meghalaya
2. The Member Secretary Meghalaya State Pollution Control Board, Arden  
Lumpyngad Shillong

**Lafarge Umiam Mining Private Limited**

A company of LafargeHolcim and

CIN No. U14107ML 1999PTC005707

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**Half Yearly Compliance Status for the period of October to March 2026 on the Conditions of Environmental Clearance No. EC24B001ML157481 dated 10 April 2024**

| <b>Conditions as per Environmental Clearance Letter dated 10 April 2024 with respect to Standard Condition A and Additional Conditions B</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                   |
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| <b>A</b>                                                                                                                                     | <b>Standard Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                   |
| <b>I</b>                                                                                                                                     | <b>Statutory Compliance</b>                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                   |
| (i)                                                                                                                                          | This Environmental Clearance (EC) is subject to orders/ Judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.                                                                                                                                                                                                                  | Noted                                                                                                                             |
| (ii)                                                                                                                                         | The Project Proponent (PP) shall comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ petition (civil)) No. 114 of 2014 in matter of Common Cause versus Union of India & ors before commencing the mining operations.                                                                                                                                              | Noted                                                                                                                             |
| (iii)                                                                                                                                        | The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No.114 of 2014 in matter of Common Cause versus Union of India & ors. | Noted                                                                                                                             |
| (iv)                                                                                                                                         | PP shall obtain Consent to operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish/ Consent to operate from the concerned State Pollution Control Board/Committee.                                                                                                                                           | The Consent to Operate (CTO) application is currently being processed through the Meghalaya State Pollution Control Board portal. |

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| (v)    | The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.                                                                                     | Noted and will be complied with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (vi)   | The Project Proponent shall obtain consents from all the concerned land owners, before start mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.                                                                                                                                                       | To obtain consent from the land owners before the mining commissioned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (vii)  | The Project Proponent shall follow the mitigation measures provided in MoEF&CC's office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29 October 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area". | <p>The following mitigation measures will be implemented:</p> <ul style="list-style-type: none"> <li>■ Mining activities will be carried out according to the approved mining plan.</li> <li>■ No village settlements are located within the mining lease area.</li> <li>■ No blasting will be involved during mining operations, and all operations will be conducted during daylight hours only.</li> <li>■ Permanent water sprinklers will be installed along the entire haul road.</li> <li>■ Transportation will be carried out by tippers to LUMPL's existing limestone crushing unit, located 1.5 km away by road, which will not cross any village.</li> <li>■ CSR activities will be initiated once the mine becomes operational.</li> </ul> |
| (viii) | The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for project.                                                                                                                                                                                   | No groundwater abstraction is practiced or proposed for the mining project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| (ix)   | A copy of EC letter will be marked to concerned Panchayat/ local NGO etc. if any, from whom suggestion / representation                                                                                                                                                                                                                                                                 | Being complied with.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|        | has been received while processing the proposal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |
| (x)    | State Pollution Control Board shall be responsible for display of this EC letter at its Regional Office, District Industries Centre and Collector's office/ Tehsildar's office for 30 days.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Noted and complied with.                                                           |
| (xi)   | The project Authorities should widely advertise shall be responsible for display of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional office for compliance and record. | Being complied with. <div data-bbox="1207 443 1938 751" data-label="Image"> </div> |
| (xii)  | The project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.                                                                                                                                                                                                                                                                                                                                                                                       | Noted and will be complied with.                                                   |
| (xiii) | The mining lease holders shall after ceasing mining operations, undertake re-grassing the mining areas and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                            | Noted and will be complied with.                                                   |
| II     | <b>Air Quality monitoring and Preservation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                    |

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| (i)  | <p>The Project Proponent will undertake Ambient Air Quality Monitoring, especially on air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone.</p>                                                                                                                                                                                                                                                                                                                                                           | <p>Ambient Air Quality (AAQ) is being monitored through the existing ambient air quality monitoring system at the Nongtra Limestone Mine. The monitoring covers parameters such as PM10, PM2.5, SO2, and NOx at five locations within and surrounding the 5 MTPA limestone area (covering both core and buffer zones), as selected by the Meghalaya State Pollution Control Board (MSPCB) through their letter dated February 24, 2012. The monitoring locations are:</p> <ol style="list-style-type: none"> <li>1. HEMM Workshop</li> <li>2. Near Magazine</li> <li>3. Near Phlangkaruh Village</li> <li>4. Pyrkan Village</li> <li>5. Shella Bazar</li> </ol> |
| (ii) | <p>Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&amp;CC/ Central pollution Control Board.</p> | <p>The following measures will be implemented:</p> <ul style="list-style-type: none"> <li>■ Limiting the vehicular speed limit to 20 km/hr to minimise the fugitive dust emission from mine haul road and site access road;</li> <li>■ Development of greenbelt/ afforestation at mine safety zone.</li> <li>■ PPE will be provided to the mine workers.</li> </ul>                                                                                                                                                                                                                                                                                             |
| III  | <p><b>Water quality monitoring and Preservation</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| (i)  | <p>In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>Noted and will be complied with.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|       | CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                   |
| (ii)  | Regular monitoring of the flow rate of the springs and perennial nullahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control Board. | The flow rates of the water springs at Phlangkaruh and Umiam Rivers are being monitored through the existing monitoring system at the Nongtraí Limestone Mine on a monthly basis. |
| (iii) | Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Development. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and state Groundwater Department/ State Pollution Control Board.                                                                                                                                                                                                                                                                                                   | The existing piezometer installed at the Nongtraí Limestone Mine will also serve the Shale Mine, with monitoring conducted at three locations on a monthly basis.                 |

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| (iv) | <p>The Project Proponent shall undertake regular monitoring of natural water course/water resources/ springs and perennial nullahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within nearby/adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&amp;CC. The monitoring of water courses/bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.</p> | <p>Monitoring of water quality of Phlangkaruh springs (upstream and downstream), and Umiam River (upstream and down streams) covering all season is being carried out by ABNS SCIENTIFIC SERVICES PRIVATE LIMITED recognized by Meghalaya State Pollution Control Board on monthly basis and analyzed in their laboratory.</p>                                                                     |
| (v)  | <p>Quality of polluted water generated from mining operations include Chemical oxygen Demand (CoD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved oxygen (Do), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>No polluted water will be generated from the mining operations. The following mitigation measures will be implemented:</p> <ul style="list-style-type: none"> <li>■ Provide garland drains along at the lower RL of the disturbed/degraded area of the mine to collect surface runoff from degraded area whenever required to arrest any soil from mining area being carried away by</li> </ul> |

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|        | domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.                                                                                                                                                         | <p>the rain water;</p> <ul style="list-style-type: none"> <li>■ Construction of drains around quarry area, haul road so that flow of water with loose materials is prevented. The mine water will be channelized through sedimentation pit to catch the silt/ loose materials;</li> <li>■ Garland drains and sedimentation pit will be maintained to check sediment load in the surface runoff from ML area.</li> </ul> |
| (vi)   | Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground water Board/State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.                                                                           | LUMPL has established rainwater harvesting system at two locations by collecting rainwater from roof top of transit camp area and mine office buildings. The rainwater harvested is used for domestic purposes and for recharging of ground water regime.                                                                                                                                                               |
| (vii)  | Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through oil and grease trap | <p>The existing workshop of the Nongtrai Limestone Mine will be used for this mine. The periodical maintenance of machineries and vehicles will be carried out at existing workshop of the Nongtrai Limestone Mine</p> <p>An ETP is operational for treatment of wastewater generated during washing of HMMs at the workshop.</p>                                                                                       |
| (viii) | The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.                                                                                                                                                                                   | Noted and will be complied with.                                                                                                                                                                                                                                                                                                                                                                                        |
| IV     | <b>Noise and Vibration monitoring and preservation</b>                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (i)    | The Peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.                                                                                                                                                                                                                                        | No blasting would be involved during the mining operation                                                                                                                                                                                                                                                                                                                                                               |
| (ii)   | The illumination and sound at night at project sites disturb the                                                                                                                                                                                                                                                                                                                                            | Mining operation will be carried out only in the day time.                                                                                                                                                                                                                                                                                                                                                              |

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|       | villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operation. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (iii) | The Project Proponent shall take measures for control of noise levels below 85 dB in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment. | <p>Following measures will be taken</p> <ul style="list-style-type: none"> <li>■ Vehicle, machinery used for mine development and mining would conform to applicable noise standards;</li> <li>■ Only well-maintained equipment will be operated on-site;</li> <li>■ Regular maintenance of equipment such as lubricating moving parts, tightening loose parts and replacing worn-out components would be undertaken;</li> <li>■ Machinery and equipment engaged in mine development and operation shall be shut down or throttled down during non-work periods;</li> <li>■ PPE will be provided to the workers engaged in mine development and operation.</li> </ul> |
| V     | <b>Mining Plan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (i)   | The project Proponent shall adhere to the working parameters of mining plan which submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of minerals, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, OB & dump mining, mineral                                                                  | Mining will be carried out as per the IBM approved mining plan and scheme of mining.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|       | transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Tenn Permit (STP), Query license or any other name.                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| (ii)  | The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.                                      | <p>Final mine closure plan will be prepared prior to closure of the mine and same will be approved from DMR. However, following features will be considered for final mine closure plan.</p> <ul style="list-style-type: none"> <li>■ The existing infrastructure like - mine office, accommodation facility, workshop, etc of the Nongtrai Limestone Mine will be used for this mine. The waste generated from this dismantling activity will be disposed as per existing solid waste management plan.</li> <li>■ The garland drains will be left for certain period of time to retain surface runoff until slope stabilises and extent of erosion minimised;</li> <li>■ Occupational health and safety of the workforce will be taken care.</li> </ul> |
| (iii) | The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to the raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office. | <ul style="list-style-type: none"> <li>■ The reclamation of mined out land and other degraded area will be reclaimed as per progressive mine closure plan;</li> <li>■ The afforestation activities will be carried out in the undisturbed area and mined out upper benches;</li> <li>■ Topsoil recovered during mine development and mining operation will be utilised for plantation;</li> <li>■ The indigenous plant species will be utilised for plantation in the ML area;</li> </ul>                                                                                                                                                                                                                                                                |
| VI    | <b>Land Reclamation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| (i)   | The overburden (OB) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used land reclamation and plantation. | No overburden or mining waste will be generated from the mining operation; therefore, no provision for overburden dump needs to be made. Any topsoil thin layers encountered in crevices/cavities during mining, the same will be scraped and stacked separately in the ML area for use in the plantation.                                                                                                                                                                                |
| (ii)  | The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain stability to maintain stability of waste dumps.                                                                                                         | No overburden or mining waste will be generated from the mining operation; therefore, no provision for overburden dump needs to be made. Any topsoil thin layers encountered in crevices/cavities during mining, the same will be scraped and stacked separately in the ML area for use in the plantation.                                                                                                                                                                                |
| (iii) | The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>■ The reclamation of mined out land and other degraded area will be reclaimed as per progressive mine closure plan;</li> <li>■ The afforestation activities will be carried out in the undisturbed area and mined out upper benches;</li> <li>■ Topsoil recovered during mine development and mining operation will be utilised for plantation;</li> <li>■ The indigenous plant species will be utilised for plantation in the ML area;</li> </ul> |
| (iv)  | The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulated local climatic parameters and help in the adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the                                                                                                                                               | No overburden dumps involved as the mine is devoid of overburden. Hence, no overburden dumps are involved.                                                                                                                                                                                                                                                                                                                                                                                |

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|       | overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| (v)   | The Project Proponent shall carry slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.                                                                                                                                                                                                                                                                                                                                  | No overburden dumps involved as the mine is devoid of overburden.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| (vi)  | Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nullah/ Rivers/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after the monsoon season, and maintained properly. | <ul style="list-style-type: none"> <li>■ Garland drains /catch drains along and at the lower RL of the disturbed/degraded area of the mine to collect surface runoff from degraded area whenever required to arrest any soil from catchment of mining area being carried away by the rain water;</li> <li>■ Construction of drains along haul road so that flow of water with loose materials is prevented. The mine water will be channelized through sedimentation pit to catch the silt/ loose materials;</li> <li>■ Maintaining the slope of the benches as per approved mine plan to prevent formation of gullies and erosion.</li> <li>■ Construction of drains around quarry area, haul road so that flow of water with loose materials is prevented. The mine water will be channelized through sedimentation pit to catch the silt/ loose materials;</li> <li>■ Garland drains and sedimentation pit will be maintained to check sediment load in the surface runoff from ML area.</li> </ul> |
| (vii) | Check dams of appropriate size gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety                                                                                                                                                                                                                                                                                                                                           | check dams will be constructed in the gullies and area surrounding the mine. Drains will be constructed along the active mine benches linking it with siltation pond.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|        | margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Deposited silt from the drains and siltation pond is to be desilted periodically.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| (viii) | The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like heights, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purposes.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Minor quantity of top soil generated will be stored within ML area for future use in plantation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| VII    | <b>Transportation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| (i)    | No Transportation of the minerals shall- be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. | <p>Transportation of the minerals will not be passing through villages/habitations. This will be done through road. The following measures will be taken:</p> <ul style="list-style-type: none"> <li>■ Sprinkling of water at mine haul road through truck mount water sprinkler;</li> <li>■ Site access road from mine to LUMPL's crushing unit by road (~1.5 km) will be maintained to minimise the fugitive dust (re-entered dust)</li> <li>■ Periodical maintenance of machineries to minimise air pollution;</li> <li>■ Overloading of haul truck and material transport truck not to be done to avoid spillage during transport;</li> <li>■ Limiting the vehicular speed limit to 20 km/hr to minimise the fugitive dust emission from mine haul</li> </ul> |

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|      | Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>road and site access road;</p> <ul style="list-style-type: none"> <li>■ To ensure that all vehicles (including HEMM) hold PUC certificates.</li> </ul> |
| (ii) | The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone; material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions. | Water sprinkling on unpaved areas and haul road during dry wind periods through fixed sprinklers supplemented with water tankers in active mine pit area; |
| VIII | <b>Green Belt</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                           |
| (i)  | The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green Belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.                                                                                                                                                                                                                                                   | Greenbelt of 7.5 m wide safety zone all along the mine boundary will be maintained as per stipulations.                                                   |

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| (ii)  | The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed areas of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.     | Native plant species, as confirmed by the Department of Forests and Environment, Office of the Principal Chief Conservator of Forests, Government of Meghalaya, Shillong (vide letter no. MFG. 16/18/PCCF(T)/Vol.II/71727 dated 12 September 2016 will be considered for greenbelt development i.e. plantation in and around the mine:                                                                              |
| (iii) | The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be protected. | Not applicable for the Shale mine.                                                                                                                                                                                                                                                                                                                                                                                  |
| IX    | <b>Public Hearing and Human Health Issues</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (i)   | The Project Proponent shall appoint an occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken.                                                                                                                                                    | <p>Qualified doctors based at the site have been providing medical support to the employees and community in the surrounding villages.</p> <p>Qualified Occupational Health Specialist available at site for Regular and Periodical medical examination of the workers engaged in the project.</p> <p>Records of periodical medical examinations done in the recent past are being maintained for all employees</p> |

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|       | A status report on the same may be sent to MoEF&CC Regional office and DGMS on half-yearly basis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (including contractor workers) as per the requirement of Mines Rules, 1955: Treatment for the identified ailments BP, diabetes, etc.<br>Preventive measures for burns, malaria and anti-snake venom are in place under direct control and supervision of onsite Occupational Health Specialist. |
| (ii)  | The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anemia, and Diarrhea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years. | To be complied with                                                                                                                                                                                                                                                                             |
| (iii) | The Proponent carry out occupational health surveillance which be a part of HRA, and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full ophthalmologic Assessment; for Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LUMPL has been carried out health and medical surveillance covering X-Ray, noise audiometry<br>Records of periodical medical examinations done in the recent past are being maintained for all employees (including contractor workers) as per the requirement of Mines Rules, 1955:            |

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|      | hands and forearms by a responsible NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to Manganese, Chromiwn, Lead, Uraniwn needs to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. only conventional X-Ray will be accepted for record purposes (and not the digital one.). X-ray must meet ILO criteria (17 x 14 inches and of good quality.).                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                           |
| (iv) | The Proponent shall maintain a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5- 24.9, (b) the Final Chest X-Ray compared with base line X-Ray should not show any capacities, (c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FECl), Forced Vital Capacity (FVC), and the ratio unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF&CC annually along with the details of the relief and compensation paid to workers having above indications. | Clinical Health assessment being conduct by the Company's Qualified Occupational Health Specialist from time to time and records of the finding being stored.                                                                                                                             |
| (v)  | The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should al.so be provided with adequate training and information on safety and health aspects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Personnel working in mine area will be provided with personal protective equipment (PPE). Use of PPEs including dust masks, ear plugs, safety shoes, illuminating jacket, hard hat are compulsory for all workers working in the mine. Life Saving talk is held daily. Refresher training |

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|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | on safety and information on health aspects is provided on monthly basis to all the workers.                                                                                                                                       |
| (vi) | Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned lands) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.                                                           | Any construction labour to be deployed will be provided with necessary infrastructure within the existing project footprint and facilities including cooking, toilets, package STP, safe drinking water, health care facility etc. |
| X    | <b>Corporate Environment Responsibility (CER)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                    |
| (i)  | The activities and budget earmarked for Corporate Environment Responsibility (CER) as per Ministry's O.M No. 22-65/2017-IA. II (M) dated 01.05.2018, should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure, should be submitted to the Regional Office MoEF&CC, Shillong and the Deputy Commissioner concerned annually along with audited statement and also copy of the same be furnished to the SEIAA. | Budget earmarked for CER will be separately maintained.                                                                                                                                                                            |
| (ii) | Project proponent shall keep the funds earmarked for environment protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF&CC-Regional office, Shillong and the concerned Deputy Commissioner with copy of the same to the SEIAA.                                                                                                                                                                                                                                                                                     | Funds earmarked for environment protection measures will be maintained in a separate account                                                                                                                                       |
| XI   | <b>Miscellaneous</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                    |

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| (i)   | In view of MoEF&CC, IA Division, New Delhi office Memorandum F No. L- 11011/175/2018- IA-II (M) dated 12th December 2018, if in future the lease area of this project proposal falls in the Cluster, i.e. total lease area of the Cluster including this lease holder is more than 5 ha., the project proponent(s) shall extend all support including financial contribution or otherwise to cluster partners who undertake EIA for cluster EMP of the area. The EMP for the Cluster shall be prepared as per Notifications/Rules for Cluster situation notified from time- to- time by MoEF&CC. Based on outcome of the EIA study and all the suggestions/recommendations of EIA/EMP prepared for the cluster shall be complied-with in a letter and spirit by the project proponent(s) including all lease holders in the cluster including lease holder/ holders who have already been accorded Environmental Clearance prior to forming of the Cluster. | Not applicable for 4.9 HA Shale as it does not include in an area of cluster. |
| (ii)  | The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years for the purpose of monitoring land use pattern and submit a report to the SEIAA and the Regional office of the MoEF&CC, Shillong.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Will be complied with                                                         |
| (iii) | The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. Copy of the same shall be forwarded to the SEIAA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Will be complied with                                                         |
| (iv)  | The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC, Regional office, Shillong, the Regional Office Central Pollution Control Board, Shillong and Meghalaya State Pollution Control Board with intimation to the SEIAA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Will be complied with                                                         |

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| (v)      | As per the State Govt. letter No.FoR.68/2014/524 dtd.14.12.2015, PP to contribute@ 10% of the sale proceeds and should be deposited to the respective Divisional Forest officer (Territorial) at the time of collection of forest royalty in the name of Meghalaya Minor Mineral Reclamation Fund (MMMRF).                                                                                                                                                                           | Noted and will maintain as per guideline                                                                                                                                  |
| (vi)     | The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions and forward a copy of the Monitoring Report to the SEIAA. The project authorities should extend full cooperation to the MoEF&CC officer(s).                                                                                                                                                                                                                              | Noted                                                                                                                                                                     |
| (vii)    | The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities. Conditions stipulated by these Statutory/Government authorities shall be complied.                                                                                                                                                                                   | Noted                                                                                                                                                                     |
| (viii)   | The SEIAA may alter/modify the above conditions or stipulate new conditions in the interest of environment protection in consultation with the SEAC or alter/modify/add conditions on direction/ruling by the Hon'ble Courts /NOT.                                                                                                                                                                                                                                                   | Noted                                                                                                                                                                     |
| <b>B</b> | <b>Additional Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                           |
| (i)      | A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc. carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc. are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that, spoils etc. generated from mining are not carried along. | Drains will be constructed along the active mine benches linking it with siltation pond. Deposited silt from the drains and siltation pond will be desilted periodically. |
| (ii)     | Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from                                                                                                                                                                                                                                                                                                                                                         | Garland drains will be constructed along the active mine benches linking it with siltation pond.                                                                          |

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|        | the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.                                                                                                                                          |                                                                                     |
| (iii)  | Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.                                                                                                        | To be implemented as and when the mine become operational                           |
| (iv)   | If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.                                                    | To be implemented as and when the mine become operational                           |
| (v)    | In annual EMP budget under GREENBELT, creation of plantations including nursery cost, fencing etc. the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly. | The existing nursery for the Nongtra Limestone Mine will also serve the Shale Mine. |
| (vi)   | To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants. Plantation should be done in the 1st and 2nd year of the plan period.                                                                                   | Fund allocation for plantation will be maintained.                                  |
| (vii)  | CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 lakh annually.                                                                                                                                                                            | Will be complied with.                                                              |
| (viii) | Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.                                                                                                                  | Will be complied with.                                                              |
| (ix)   | GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.                                                                                                                                                                                         | Will be complied with.                                                              |
| (x)    | A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.                                                  | This will be complied with                                                          |
| (xi)   | Fencing of the boundary of site with minimum two strands of                                                                                                                                                                                                                             | Will be complied with.                                                              |

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|        | barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.                                                                                  |                                                  |
| (xii)  | Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.                                                                                     | This will be complied with.                      |
| (xiii) | The Green Belt shall be created within the Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged. | Green Belt as per guidelines will be maintained. |