

DCBL/ENV/2019-20/02

28<sup>th</sup> November 2019

To,

**The Additional Principal Chief Conservator of Forests,  
Ministry of Environment Forest & Climate Change,  
North Eastern Regional Office,  
Shillong, Meghalaya.**

**Subject:** Half Yearly compliance report for the period **April 2019 to September 2019** condition imposed in environment clearance vide letter F. No. J-11015/366/2009-IA.II (M) dated 2<sup>nd</sup> Jan, 2014 for mining lease **(128.52 ha Limestone mining lease and 19.33 ha outside dump) Block – V** of M/s Dalmia Cement (Bharat) Limited (Formerly Adhunik Cement Limited) at Vill- Thangskai, P.O. Lumshnong, Dist – East Jaintia Hills, Meghalaya-793200.

**Ref:** - Environment Clearance letter no. **F. No. J-11015/366/2009-IA.II (M) dated 2<sup>nd</sup> Jan, 2014**

Dear Sir,

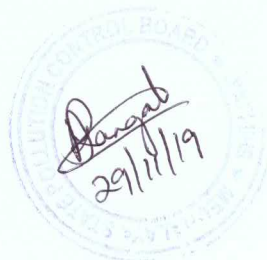
With reference to above subject and referred letter no, we are submitting herewith half yearly compliance for mining lease **(128.52 ha Limestone mining lease and 19.33 ha outside dump) Block – V** of M/s Dalmia Cement (Bharat) Limited (Formerly Adhunik Cement Limited) at Vill- Thangskai, P.O. Lumshnong, Dist – East Jaintia Hills, Meghalaya-793200. Soft copy in form of CD is also enclosed herewith.

We request to kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully

**For - Dalmia Cement (Bharat) Ltd.**



Authorized Signatory

Enclosure: Compliance report for the period April 2019 to September 2019.

CC to:

- 1). The Member Secretary, Meghalaya State Pollution Control Board, "Arden" Lumpyngad, and Shillong-793 014, Meghalaya.
- 2). The Regional Director, Central Pollution Control Board (CPCB) North Eastern Zonal Office, Lower Motinagar, Shillong -793 014, Meghalaya.

**Dalmia Cement (Bharat) Limited**

Umsoo Mootang, Vill - Thangskai, P.O. Lumshnong, Distt. East Jaintia Hills, Meghalaya, Pin-793210, India

+ 91 9612901824/9612895625/9612904432, w www.dalmiacement.com, CIN : U65191TN1996PLC035963

Registered Office : Dalmiapuram, Dist. Tiruchirapalli, Tamil Nadu-621 651, India

A Dalmia Bharat Group company, www.dalmiabharat.com

**Central Pollution Control Board**

केन्द्रीय प्रदूषण नियंत्रण बोर्ड उत्तर पूर्व शिलांग - ७९३०१४

North East, Shillong - 793014

Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO .....

Rebecca

# LIMESTONE MINE (BLOCK-V)

128.52 ha Mining lease and 19.33 ha outside dump, Production of 2.0 MTPA  
*of*

**M/S. DALMIA CEMENT (BHARAT) LIMITED**

Umsoo Mootang, Vill - Thangskai ,P.O. Lumshnong ,Dist - East Jaintia Hills, Meghalaya 793 200

## COMPLIANCE STATUS

**Environment Clearance Letter No: - F. No. J-11015/366/2009-IA.II (M) dated: 2<sup>nd</sup> January 2014.**

**Period Of Compliance : April 2019 to September 2019.**

| SL No.   | Conditions   | Compliance Status   |
|----------|--|---|
| <b>A</b> | <b>Specific Conditions</b>   |   |
| (i)      | Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.                          | As per ESZ notification vide Gazette notification SO:2942 dated 6 <sup>th</sup> September 2017 our mines is located out side the ESZ boundary.  |
| (ii)     | The project proponent shall obtain Consent to Establish and Consent to Operate from the concerned State Pollution Control Board and effectively implement all the conditions stipulated therein. | Obtained CTE & CTO vide letter No. MPCB/CON -36-2014/2016-2017 / 11 dated 1 <sup>st</sup> June 2016 and vide letter No. MPCB/CON -36 -2014 /2018-2019/18 dated 18 <sup>th</sup> April 2018 and renewed time to time thereof.  |
| (iii)    | A bund of about 5 meters height is to be made along the mining lease boundary on the village side with good width of green belt between the village and the mining area.                         | There does not exist any village in the immediate vicinity of the mining lease boundary. Hence creation of bund is not applicable. However, as per the applicable regulations, a safety barrier of about 7.5 meters has been left all around the ML boundary and plantation has been taken up in phased manner as per the approved mining plan.We request you kindly exempt us from making Five meter height bound. |
| (iv)     | Mining will not be done all sides of the village at any one time and will be sequential manner as per the Mining Plan approved by the IBM.   | There does not exist any village in the immediate vicinity of the mining lease boundary. However mining will be done as per approved mining plan  |
| (v)      | During mining, pollution mitigation measures will be taken up to ensure that the impact on the village and the   | There does not exist any village in the immediate vicinity of the mining lease boundary however mitigative measures has   |

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|        | <p>surrounding area will not occur. Small blasts will be conducted to reduce ground vibrations and noise.</p> <p>Blasted material heaps will be thoroughly wetted before loading to avoid fugitive dust during loading.</p>   | <p>been taken up and is in practice to mitigate pollution. Latest technology is used in blasting to reduce ground vibration and noise.</p>   |
| (vi)   | <p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Main haul road in the mine will be provided with permanent water sprinklers and other roads will be wetted with water tanker fitted with sprinklers. Crusher and material transfer points will be provided with Bag filters and conveyor will be fully covered to avoid air borne dust.</p>   | <p>Regular water sprinkling is carried out to reduce air pollution. A Water tanker fitted with sprinklers is deployed for water sprinkling in all area.</p> <p>Existing Crusher have been provided with bag filter and material is transferred with fully covered conveyor belt.</p> <p>Around 500 m length of pipe line has been laid down for the purpose of permanent water sprinkling. Work is in progress.</p>  |
| (vii)  | <p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Shillong, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.</p> | <p>Piezometer is installed. However, there is no perfect water table in this area, only erratic water channels are observed. Hence mining will not intersect ground water table. There are no wells in and around the mine lease.</p> <p>We have visited Central Ground Water Board, North East Regional Office, Guwahati and discussed the matter. We have also submitted one request letter on dated 28-3-2019 to provide us with necessary recommendation for augmentation of ground water resources in our mining area. The reply is awaited from Central Ground Water Board.</p> <p>We are also in the process to find out suitable vendor for conducting hydro-logical feasibility study. Once the study complete, we will inform accordingly.</p> |
| (viii) | <p>The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.</p>   | <p>Working pit has been provided with bund and run-off due to rain flows into the pit and seeps down through bottom most bench without much accumulation as rocks is highly fractured. The accumulated silt is blended with limestone</p>  |

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|        |  | and used in cement manufacturing. This helps in arresting silt inside pit as a siltation pond and works effectively. There is no outside discharge.   |
| (ix)   | Appropriate mitigative measures shall be taken to prevent pollution of the water stream and adjoining water bodies in consultation with the State Pollution Control Board.   | There is no adjoining water bodies and water stream. Further, there is no outside discharge from the mines. We have submitted one request letter to Meghalaya State Pollution Control Board, Shillong on dated 6-4-2019 for providing us necessary recommendation to avoid pollution to water stream or water bodies adjoining our mining lease area.   |
| (x)    | Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Shillong on six monthly basis.  | We submit compliance status report in every six month.  |
| (xi)   | Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and waste water generated during the mining operation.   | STP & ETP are operational in colony and workshop respectively.  |
| (xii)  | Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Shillong.       | In process.   |
| (xiii) | Regular monitoring of ambient air quality shall be carried out and records maintained.   | It is done and record thereof is maintained.  |
| (xiv)  | Pre - placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. | Complied  |
| (Xv)   | Implementation of Action plan on issues raised during Public Hearing.  | Complied<br><br>Action plan on issues raised during Public Hearing has been prepared and submitted during appraisal for grant of EC. We have initiated actions for implementing the same.<br><br>Action taken in this Financial Year are as follows:<br>1. Construction of footbridge cum culvert<br>2. Promotion of fuel efficient cook stoves and solar study lamps.<br>3. Medical camps, construction of schools toilets and awareness camps |

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|          |   | <p>4. Awareness generation campaign. Livelihood and Skill Training.<br/>etc.,</p> <p>The detail action taken report is enclosed in <b>Annexure - I.</b></p>  |
| <b>A</b> | <b>General Conditions</b>   |  |
| (i)      | The project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations. Adequate measures shall be taken for protection of the 1 <sup>st</sup> order and 2 <sup>nd</sup> order streams, if any emanating/ passing through the mine lease during the course of mining operation.  | There is no water course / streams of 1 <sup>st</sup> & 2 <sup>nd</sup> Order emanating /passing through the lease. Present mining operation does not intersect any water course or water bodies.  |
| (ii)     | The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept un - utilized for long. The topsoil shall be used for land reclamation and plantation.   | Top soil generated is almost negligible in quantity however generated quantity is used for development of green belt.  |
| (iii)    | The over burden (OB) generated during the mining operation shall be stacked at earmarked dump site(s). Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Shillong on six monthly basis.  | Over burden generated is stacked in earmarked area. Dump is dynamic however we have initiated the process to do the plantation. Around 1500 sapling has been planted.  |
| (iv)     | Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary OB and mineral dumps to arrest flow of silt and sediment directly into the adjoining river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly de-silted particularly after the monsoon and maintained properly. | <p>Present mining operation does not intersect any water channel. However bund has been erected along the working pit to use the same as siltation pond and accumulated silt is blended with Run of Mine. Highly fractured rock allows water to percolate down.</p> <p>Garage is provided with ETP and treated water is reused. No outside discharge. Working pit has been provided with bund and run-off due to rain flows into the pit and seeps down though bottom most bench without much accumulation as rocks is highly fractured. The accumulated silt is blended with limestone and used in cement manufacturing. This helps in arresting silt inside pit as a siltation pond and works effectively.</p> |
| (v)      | Garland drains, settling tanks and check  |  |

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|        | dams of appropriate size, gradient and length shall be constructed both around the mine pit and temporary over burden dumps to prevent run off of water and flow of sediments directly into the adjoining river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals. | Present mining operation does not intersect any water channel. However bund has been erected along the working pit to use the same as siltation pond and accumulated silt is blended with Run of Mine. Highly fractured rock allows water to percolate down.<br><br>An action plan have been prepared and Approved by PWD department and PCCF, Shillong, Meghalaya. Same is followed and is in force. |
| (vi)   | Dimension of the retaining wall at the toe of the temporary OB dumps and the OB benches within the mine to check run-off and siltation should be based on the rain fall data.   | Overburden dump is active and is at initial stage. However we have initiated the process of runoff management and bio diversity.  |
| (vii)  | Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, back filled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.  | Natural vegetation is there in 7.5 meter safety zone.<br><br>However, Green belt development will be done in phased manner by planting the native species in consultation with the local DFO as an where required.<br><br>An action plan have been prepared and Approved by PWD department and PCCF, Shillong, Meghalaya. Same is under implementation as per approved plan.                          |
| (viii) | Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.  | Water sprinkling is done to reduce air pollution. Water tanker fitted with sprinklers is continuously deployed on the haul roads to suppress the dust.<br><br>Existing Crusher have been provided with bag filter and material is transferred with fully covered conveyor belt.<br><br>Latest Monitoring report is enclosed in <b>Annexure - II</b>   |
| (ix)   | Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral  | Well equipped workshop is maintained for the regular maintenance of HEMM.<br><br>Loaded trucks for mineral transporting doesn't   |

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|        | transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.   | pass through any public place or habitation.<br><br>We wet the limestone before loading. The loaded truck doesn't pass through any habitation. It is a captive mines and premises falls within the ownership of mine owner.                                      |
| (X)    | Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.   | Blasting is done by using latest technology like NONEL and slurry explosive in conjunction with ANFO, which controls the ground vibration and minimize the flying fragments. Almost every blast is monitored by using MINIMATE.                                  |
| (xi)   | Drills shall either be operated with dust extractors or equipped with water injection system.  | Complied.  |
| (xii)  | Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.  | Complied.  |
| (xiii) | Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.   | Complied.  |
| (xiv)  | The critical parameters such as SPM, RSPM (Particulate matter with size less than 10 micron i.e., PM <sub>10</sub> ), NO <sub>x</sub> in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in | Regular Ambient Air quality monitoring & Water Quality Analysis is carried out. Latest monitoring report for Air and water is enclosed in <b>Annexure - II &amp; Annexure - III</b> respectively.<br><br>Monitoring data is displayed at mining lease main gate. |

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|         | this regard for its compliance.  |   |
| (xv)    | Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.  | Noted for Compliance.   |
| (xvi)   | No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.  | Noted for Compliance.   |
| (xvii)  | No change in the calendar plan including excavation, quantum of mineral and waste should be made.  | Noted for Compliance.   |
| (xviii) | Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.  | A biodiversity plan for conservation and protection of flora and fauna in the core and buffer zone had been prepared and approved by Chief Wildlife Warden. A sum of about Rs. 58.098 lakh have been proposed for conservation of bio-diversity and schedule-I species and is in process of implementation as per the plan suggested therein.                                 |
| (xix)   | Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO <sub>2</sub> & NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. | Complied.   |
| (xx)    | Data on ambient air quality (RSPM, SPM, SO <sub>2</sub> & NO <sub>x</sub> ) should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Shillong and the State Pollution Control Board / Central Pollution Control Board once in six months.   | Complied  |
| (xxi)   | Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.  | Adequate number of dust extraction systems is installed in all Conveyor lines to minimize fugitive emissions. Regular water sprinkling is also carried out to reduce air pollution. Water tanker fitted with sprinklers is continuously deployed over the haul roads for the purpose.<br><br>Latest Fugitive emission monitoring report is enclosed in <b>Annexure - IV</b> . |



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| (xxii)   | Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.  | Complied  |
| (xxiii)  | Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents. | Complied. There is no outside discharge from the mines. Workshop has been provided with ETP for treating the industrial water and same is reused. There is no outside discharge from work shop. |
| (xxiv)   | Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.  | PPE is provided to all workers, In addition adequate training are imported to workmen on safety and health aspect.  |
| (xxv)    | Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.   | Occupational health surveillance program undertaken for workers on regular basis. The program includes Lung function test and sputum analysis,etc.  |
| (xxvi)   | A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.   | Complied  |
| (xxvii)  | The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Shillong.  | Complied  |
| (xxviii) | The project authorities should inform to the Regional Office located at Shillong regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.   | Mining activities started after 06/09/2017 and are in initial stage of development.   |
| (xxix)   | The Regional Office of this Ministry located at Shillong shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.  | Agree.  |

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| (xxx)     | The project proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Shillong, the respective Zonal Office of CPCB and the SPCB. The proponent shall upload the status of compliance of the EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Shillong, the respective Zonal Office of CPCB and the SPCB. | Six monthly report on the status of compliance of EC is submitted both in Hard Copy as well as by E-Mail. Further we upload the status of compliance on our website.               |
| (xxxii)   | A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.   | Complied   |
| (xxxiii)  | The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.  | Not applicable.  |
| (xxxiiii) | The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Shillong by e-mail.  | Environmental Statement for FY ending 31 <sup>st</sup> March 2019 has been submitted.  |
|           | The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental  | Complied<br><br>Published in Mawphor, Shillong (local lang.) and The Shillong Times (English) dated. 14 <sup>th</sup> Jan 2014. the copy of the same also submitted to you office. |

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| clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Shillong. |  |
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**STATUS REPORT OF PUBLIC HEARING  
of  
LIME STONE MINES - BLOCK - V**

|    | POINTS RAISE DURING PUBLIC HEARING  | COMPLIANCE STATUS  |
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| 1. | The company to provide more job opportunities to the local people of the area.  | 60 % employment has been given to the local people.  |
| 2. | The company to provide more employment opportunities to the local people in terms of supply of materials and to comply with the terms and conditions as given by the Dorbar.  | Handlings of Raw Materils like Shale, coal, aditive etc are being done by local contractors.   |
| 3. | The company to provide job opportunities to the local youth and development will occur in and around the project site.  | We have provided job to local youth in department like HR, Admin, Commerical, Mines, etc as per thier qualification and experiance.  |
| 4. | The company to abide by the terms and conditions of the Village and the various promises made to the people of the region.  | We strictly adhare and comply with whatever promises made to the people of surrounding. For example, Free Electricity to the village, Supply of water, Construction of culvert, Street light, distribution of Solar light etc.   |
| 5. | During the public hearing it is requested to various cement plants under the banner of Jaintia Hill Cement Association to set up a hospital for the people of the region.   | Said matter is under discussion with other cement units. However we are extending necessary support to Lumshnong PHC. We regularly arrange Medical camps in the surrounding villages.  |
| 6. | Company to strictly abide to the EIA report.  | All parameter prescribed in EIA report like, NAAQS , Noise, Water quality, plantation are strictly followed.   |
| 7. | Company to strictly follow the mining plan.   | Mining is done in a strict compliance of approved Mining Plan duly approved by Indian Bureau of Mines (IBM), Govt. of India.   |
| 8. | The company to plant trees in areas where the limestone will be extracted and also to strictly abide by the terms and conditions of the Elaka   | Massive plantation has been done in phased manner and are strictly adhered to approved mining plan.  |
| 9. | The company to take care of the welfare of the people.  | We take care of local people by providing job oppurtunity , Free Electricity to the village, Supply of water, Construction of culvert, Street light, distribution of Solar light, etc.   |
| 10 | The company to take proper precautionary measures while blasting so as not to endanger the caves of the area.   | We are using latest technology in blasting like use of NONEL. Each blasting is monitor for vibration by using Minimate.  |
| 11 | Some opposed point also raise during the public hearing   |  |
|    | 1) According to the Land Acquisition Act, 1894 the Govt. can acquire land from the people solely on the basis for public purposes only. Also, according to the Land transfer act, 1971 of the Govt. of Meghalaya, any land cannot be transferred to a non-tribal. The organization expresses shock as to how the firm has obtained land for its Mining Project.                       | Land has been transfered as per land transfer act with proper approval by the Govt.  |
|    | 2) The agreement made by M/sAdhunik Cements with the people of Narpuh Elaka in terms of employment, trade and otheractivities were never abided with.   | 60 % employment has been given to the local people. Additionally, we provide employment by awarding contract for raw material handling & its transportation, hiring HEMM for company's use, etc.   |
|    | 3) The presence of the Mining Project has brought tremendous hazards to the people and wildlife of the area through air pollution, noise pollution and has caused degradation of the ecology and environment of the area making it unfit for cultivation. The presence of the mining plant will pollute the streams and rivers of the area by waste products emanating from the mine. | There is no out side discharge. we take care of ecology and environment while mining. Regular watering in mines and over haul road for dust supsession is in practise. Development of greebelt is in progress and has been taken in phased manner, etc. ETP has been installed in Mines Automobile garage. |
|    | 4) Close to the location of the mining area there are many beautiful caves but the indiscriminate mining of limestone would greatly affect and destroy the caves.   | No cave is found sor far however if any caves found during the mines, it will be informed to the concerned authority.  |

## Annexure II

Dalmia Cement Bharat Ltd.  
Ambient Air Quality Monitoring Report  
Limestone Mines Block - V  
Month: April 2019 – September 2019

| Location →     | Near Mines office |                   |                 |                 | Near Drilling Point |                   |                 |                 | Near Rock Breaking Point |                   |                 |                 | Near Loading Point |                   |                 |                 | Near Mines View Point |                   |                 |                 |
|----------------|-------------------|-------------------|-----------------|-----------------|---------------------|-------------------|-----------------|-----------------|--------------------------|-------------------|-----------------|-----------------|--------------------|-------------------|-----------------|-----------------|-----------------------|-------------------|-----------------|-----------------|
| Parameters →   | PM <sub>10</sub>  | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>x</sub> | PM <sub>10</sub>    | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>x</sub> | PM <sub>10</sub>         | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>x</sub> | PM <sub>10</sub>   | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>x</sub> | PM <sub>10</sub>      | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>x</sub> |
| Month          |                   |                   |                 |                 |                     |                   |                 |                 |                          |                   |                 |                 |                    |                   |                 |                 |                       |                   |                 |                 |
| April - 19     | 52.4              | 24.2              | 0.1             | ND              | 55.2                | 26.2              | ND              | 0.1             | 51.2                     | 24.0              | 0.1             | 0.1             | 44.2               | 22.8              | 0.1             | 0.2             | 41.2                  | 22.4              | ND              | 0.1             |
| May - 19       | 53.2              | 21.2              | ND              | ND              | 52.3                | 22.4              | 0.1             | ND              | 51.4                     | 32.1              | ND              | ND              | 42.1               | 22.3              | ND              | ND              | 41.5                  | 20.2              | 0.1             | ND              |
| June - 19      | 51.4              | 23.6              | 0.2             | 0.1             | 50.3                | 21.3              | ND              | 0.1             | 54.2                     | 35.1              | 0.1             | 0.1             | 41.1               | 21.4              | 0.1             | 0.1             | 42.2                  | 22.4              | 0.1             | 0.1             |
| July - 19      | 55.2              | 24.2              | 0.1             | ND              | 50.2                | 22.4              | 0.2             | 0.1             | 52.1                     | 22.2              | 0.1             | ND              | 51.2               | 22.6              | ND              | 0.1             | 41.4                  | 20.5              | ND              | ND              |
| August - 19    | 51.2              | 23.2              | 0.2             | ND              | 50.1                | 21.7              | ND              | ND              | 52.1                     | 23.2              | ND              | ND              | 55.2               | 22.4              | 0.1             | ND              | 42.2                  | 22.6              | 0.2             | 0.2             |
| September - 19 | 50.2              | 22.4              | 0.1             | ND              | 52.3                | 20.8              | 0.1             | 0.1             | 51.4                     | 34.1              | 0.1             | 0.1             | 54.7               | 21.3              | 0.1             | ND              | 44.2                  | 22.8              | 0.1             | ND              |

**Annexure - III**

**WATER QUALITY ANALYSIS**

| Parameters                                    | Unit | Locations & Analysis Results   |                                  | Standard for Inland Surface Water*                              |
|---|------|--------------------------------|----------------------------------|---|
|   |      | Nearby Stream Water (upstream) | Nearby Stream Water (downstream) |   |
| Temperature                                   | °C   | 4.2.                           | 4.1                              | Shall not exceed the 5 °C above the receiving water temperature |
| pH Value                                      |      | 7.0                            | 7.0                              | 5.5-9.0   |
| Suspended Solid                               | mg/l | 51.2                           | 51.1                             | 100   |
| Total Hardness (as CaCO <sub>3</sub> ), mg/l  | mg/l | 212                            | 223                              | 300 [IS:100500, Desirable]<br>600 [IS:100500, Permissible]      |
| Oil & Grease                                  | mg/l | Nil                            | Nil                              | 10  |
| Total Residual Chlorine                       | mg/l | Nil                            | Nil                              | 1.0   |
| Ammonical Nitrogen (as N)                     | mg/l | 10                             | 11                               | 50  |
| Total Kjeldahl Nitrogen (as NH <sub>3</sub> ) | mg/l | 42                             | 44                               | 100   |
| Free Ammonia (as NH <sub>3</sub> )            | mg/l | 1.1                            | 1.1                              | 5.0   |
| BOD   | mg/l | 3.2                            | 3.2                              | 30  |
| COD   | mg/l | 42.4                           | 46.2                             | 250   |

## Annexure – IV

| Dalmia Cement Bharat Ltd.<br>Fugitive Monitoring Report<br>Limestone Mines Block - V<br>Month: April 2019 - September 2019 |  |   |   |                                     |
|--|--|---|---|-------------------------------------|
| Location →   | Near Mines<br>Office<br>(µg/m <sup>3</sup> ) | Near Rock<br>Breaking Point<br>(µg/m <sup>3</sup> ) | Near Loading<br>Point<br>(µg/m <sup>3</sup> ) | Inside Hyva<br>(µg/m <sup>3</sup> ) |
| Month  |  |   |   |                                     |
| April - 19   | 311  | 564   | 622   | 224                                 |
| May - 19   | 240  | 602   | 412   | 312                                 |
| June - 19  | 222  | 511   | 433   | 420                                 |
| July - 19  | 221  | 613   | 421   | 421                                 |
| August - 19  | 211  | 600   | 422   | 424                                 |
| September - 19   | 241  | 602   | 380   | 424                                 |