

Dalmia cement

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DCBL/ENV/23-24/01

30th June 2023

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 October 2022 to March 2023, condition imposed in environment clearance vide letter F. No. J-11015/366/2009-IA.II (M) dated 2nd 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 2nd 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.

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 October 2022 to March 2023.

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, PO Lumshnong, District - East Jaintia Hills - 793210, Meghalaya India
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Registered Office: Dalmiapuram, District -Tiruchirapalli, Tamil Nadu – 621 651, India
A **Dalmia Bharat Group** Company, www.dalmiabharat.com

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: 2nd January 2014.

Period Of Compliance : October 2022 to March 2023.

SL No.	Conditions	Compliance Status
A	Specific Conditions	
(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 th 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 st June 2016 and vide letter No. MPCB/CON -35 -2014 /2016-2017/14 dated 15 th March 2017 and CTO is renewed time to time.
(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.	<p>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 to kindly exempt us from making Five meter height bund.</p> <p>There already exist natural vegetation along the lease boundary. However, gap plantation has been done. Green belt along the mining lease boundary is implemented. Around 3000 nos. of sapling has been planted in last six months.</p>

(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 surrounding area will not occur. Small blasts will be conducted to reduce ground vibrations and noise. Blasted material heaps will be thoroughly wetted before loading to avoid fugitive dust during loading.	There does not exist any village in the immediate vicinity of the mining lease boundary however mitigative measures has been taken up and is in practice to mitigate pollution. Latest technology is used in blasting to reduce ground vibration and noise.
(vi)	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>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 conveyed through fully covered conveyor belt.</p> <p>Permanent water sprinklers is installed in the mines main haul road. A 12 KL water tanker is also in use to sprinkle water on haulage road to suppress fugitive dust</p>
(vii)	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	<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, dated 4-8-2021 & 2-8-2022 to provide us with necessary recommendation for augmentation of ground water resources in our mining area. Further, we also visited their office in person dated 4-10-2022 and 30-5-23 and approach Regional Director, CGWB. The reply is awaited.</p> <p>Quotation collection completed and vendor selection is in final stage for conducting hydro-</p>

	to the mining activity, necessary corrective measures shall be carried out.	logical feasibility study. Once the study complete, we will inform accordingly.
(viii)	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.	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 and used in cement manufacturing. This helps in arresting silt inside pit as a siltation pond and works effectively. There is no outside discharge. 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. We have also visited Central Ground Water Board, North East Regional Office, Guwahati on last 30 th May 2023 and discussed the matter. Reply is awaited from Central Ground Water Board.
(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.	Though, we have submitted one request letter to Meghalaya State Pollution Control Board, Shillong on dated 6-4-2019 and reminder letter on 30-5-23 for providing us necessary recommendation to avoid pollution to water stream or water bodies adjoining our mining lease area. The reply is awaited from Meghalaya State Pollution Control Board. However, there is no adjoining water bodies and water stream. Further, there is no outside discharge from the mines. Therefore, we request you to kindly exempt us from this point
(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.	DGPS survey is completed. Drone survey also is completed and report received.
(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
A	General Conditions	
(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 st order and 2 nd order streams, if any emanating/ passing through the mine lease during the course of mining operation.	There is no water course / streams of 1 st & 2 nd Order emanating /passing through the lease.
(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 3000 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.	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. 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.
(v)	Garland drains, settling tanks and check 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.	<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>An action plan have been prepared and Approved by PWD department and PCCF, Shillong, Meghalaya. Same is followed and is in force.</p>
(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.	<p>Natural vegetation is there in 7.5 meter safety zone.</p> <p>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.</p> <p>An action plan have been prepared and Approved by PWD department and PCCF, Shillong, Meghalaya. Same is under implementation as per approved plan.</p>
(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.	<p>Water sprinkling is done to reduce air pollution. Water tanker fitted with sprinklers is continuously deployed on the haul roads to suppress the dust. Existing Crusher have been provided with bag filter and material is transferred with fully covered conveyor belt.</p> <p>Latest Monitoring report is enclosed in Annexure – I. Monitoring of all 12 parameter is also started from march 23. Third party has taken the sample for analysis. Report is yet to receive. Once receive we will submit accordingly.</p>

(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 transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Well equipped workshop is maintained for the regular maintenance of HEMM. Loaded trucks for mineral transporting doesn't pass through any public place or habitation. 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 ₁₀), NO _x 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	Regular Ambient Air quality monitoring & Water Quality Analysis is carried out. Latest monitoring report for Air and water is enclosed in Annexure - I & Annexure - II respectively. Monitoring data is displayed at mining lease main gate.

	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 www.envfor.nic.in shall also be referred in 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.	<p>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.</p> <p>We have taken up the matter with State forest department. A letter dated, 20th December 2022 has been received from Principle Chief Conservator of Forest (Bio-Diversity & Wildlife) & Chief Wildlife warden to await some time till ready of Reginal Conservation Plan. Copy of the Said letter is enclosed as Annexure – III.</p>
(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 ₂ & NO _x 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 ₂ & NO _x) 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	Complied

	once in six months.	
(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. Latest Fugitive emission monitoring report is enclosed in Annexure - IV .
(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 th May, 1993 and 31 st 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	Mining activities started after 06/09/2017 and are in initial stage of development.

	final approval of the project by the concerned authorities and the date of start of land development work.	
(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.
(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 Parisad/ 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.
(xxxiii)	The environmental statement for each financial year ending 31 st 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	Environmental Statement for FY ending 31 st March 2023 is submitted.

	<p>conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Shillong by e-mail.</p>	
	<p>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 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 http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Shillong.</p>	<p>Complied</p> <p>Published in Mawphor, Shillong (local lang.) and The Shillong Times (English) dated. 14th Jan 2014. the copy of the same also submitted to your office.</p>

Thanking You,
 Yours Faithfully,
 For M/s. Dalmia Cement (Bharat) Limited.



Authorized Signatory.

Annexure I

Dalmia Cement Bharat Ltd.
Ambient Air Quality Monitoring Report
Limestone Mines Block - V
Month: October 2022 – March 2023

Location →	Near Mines office				Near Drilling Point				Near Rock Breaking Point				Near Loading Point				Near Mines View Point				
	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	
Parameters →	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	
Month																					
October – 22	55.0	21.2	0.1	ND	52.3	21.2	0.2	ND	52.3	22.2	0.2	ND	55.0	22.2	0.1	ND	51.4	21.2	ND	0.1	
November - 22	51.5	21.3	0.1	0.2	55.7	21.8	0.1	ND	55.2	22.1	ND	ND	55.2	22.4	0.2	ND	55.2	21.0	ND	ND	
December – 22	55.2	21.1	0.1	0.1	55.1	21.4	0.1	0.1	55.6	22.8	ND	ND	55.6	22.6	0.1	ND	55.7	21.7	ND	0.1	
January – 23	55.0	21.7	0.1	ND	55.2	21.1	0.1	0.1	55.1	22.4	ND	0.1	57.4	22.4	0.1	ND	55.2	21.1	ND	0.1	
February – 23	55.2	21.1	0.2	ND	51.4	21.0	0.1	0.1	53.2	22.0	ND	0.1	56.1	22.1	0.1	ND	55.0	21.2	ND	0.1	
March - 23	51.5	20.1	0.1	ND	53.4	21.0	0.1	ND	51.5	22.1	ND	0.1	55.2	22.4	0.1	ND	55.1	21.1	ND	0.1	

Annexure I

Dalmia Cement Bharat Ltd.
Ambient Air Quality Monitoring Report
Limestone Mines Block - V
Month: October 2022 – March 2023

Location →	Near Mines office			Near Drilling Point			Near Rock Breaking Point			Near Loading Point			Near Mines View Point							
	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x				
Parameters →	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x	PM ₁₀	PM _{2.5}	SO ₂	NO _x				
Month																				
October – 22	55.0	21.2	0.1	ND	52.3	21.2	0.2	ND	52.3	22.2	0.2	ND	55.0	22.2	0.1	ND	51.4	21.2	ND	0.1
November - 22	51.5	21.3	0.1	0.2	55.7	21.8	0.1	ND	55.2	22.1	ND	ND	55.2	22.4	0.2	ND	55.2	21.0	ND	ND
December – 22	55.2	21.1	0.1	0.1	55.1	21.4	0.1	0.1	55.6	22.8	ND	ND	55.6	22.6	0.1	ND	55.7	21.7	ND	0.1
January – 23	55.0	21.7	0.1	ND	55.2	21.1	0.1	0.1	55.1	22.4	ND	0.1	57.4	22.4	0.1	ND	55.2	21.1	ND	0.1
February – 23	55.2	21.1	0.2	ND	51.4	21.0	0.1	0.1	53.2	22.0	ND	0.1	56.1	22.1	0.1	ND	55.0	21.2	ND	0.1
March - 23	51.5	20.1	0.1	ND	53.4	21.0	0.1	ND	51.5	22.1	ND	0.1	55.2	22.4	0.1	ND	55.1	21.1	ND	0.1

Annexure - II

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	41.1	41.0	100
Total Hardness (as CaCO ₃), mg/l	mg/l	111	112	300 [IS:100500, Desirable] 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	12	12	50
Total Kjeldahl Nitrogen (as NH ₃)	mg/l	41	40	100
Free Ammonia (as NH ₃)	mg/l	1.1	1.1	5.0
BOD	mg/l	2.0	2.1	30
COD	mg/l	23.1	21.5	250

Answer - II

GOVERNMENT OF MEGHALAYA
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS,
(BIODIVERSITY & WILDLIFE) & CHIEF WILDLIFE WARDEN,
MEGHALAYA, SHILLONG.

No. FWC/CLEARANCE/15/3677

Dated Shillong, the 20th December 2022

To

✓ The Dalmia Cement (Bharat) Limited,
Umsoo Moolang, Vill-Thangskai, P.O Lumshnong,
East Jaintia Hills, District.

Sub: Deposit of fund for Implementation of Biodiversity Conservation Plan approved by the Chief Wildlife Warden, Forest Department of Meghalaya, to comply the condition of Environment Clearance

Ref: No. Nil, dt 24.11.2022.

Sir,

With reference to your letter and subject cited above, I am to inform you that a Regional Conservation Plan to minimise and mitigate impacts of Developmental Projects on wild animals and their habitats in East Jaintia Hills District is being prepared by the Department. Hence you are requested to await for the completion of the said Regional Conservation Plan which is under process.

This is for your information and necessary action.

Yours faithfully,



(F. S. Wann, MFS),
Deputy Conservator of Forests,
Wildlife, Meghalaya: Shillong

Memo No FWC/CLEARANCE/15

Dated Shillong, the ___ December, 2022

Copy to -

The Divisional Forest Officer, Jaintia Hills Wildlife Division, Jowai for information and necessary action

Deputy Conservator of Forests,
Wildlife, Meghalaya, Shillong

Annexure – IV

Dalmia Cement Bharat Ltd.
Fugitive Monitoring Report
Limestone Mines Block - V
Month: October 2022 – March 2023

Location →	Near Mines Office ($\mu\text{g}/\text{m}^3$)	Near Rock Breaking Point ($\mu\text{g}/\text{m}^3$)	Near Loading Point ($\mu\text{g}/\text{m}^3$)	Inside Hyva ($\mu\text{g}/\text{m}^3$)
Month				
October – 22	214	216	201	222
November - 22	201	217	206	224
December – 22	205	212	205	221
January – 23	206	214	214	228
February – 23	204	211	217	224
March - 23	208	213	218	220

CSR Initiatives

Sn	CSR activity	Project location	Block	District	Benefits from project activity	Spending (In lac)
1	40 Solar street lights were installed (SSL-15W)	Thangskai village (37 nos), PHC Lumshnong premises (3 nos)	Wapung C&RD block	East Jaintia Hills	Safe movements during post sunset hours, Safety of assets from theft/damage More economic activities. Less maintenance cost. Regular power supply when load-shedding. No harm to environment.	5.46
2	Refurbishment of Community Buildings/Infrastructures (Community hall, Lower Primary School building, Angwanwadi centre, construction of boundary wall)	Thangskai village	Wapung C&RD block	East Jaintia Hills	Increase in attendance in school, Anganwadi centre & help school to improve quality of education, address dropout issues. The community hall can be used for village meetings, awareness programs, training sessions, community engagement events. The boundary wall may will ensure safety of community assets.	1.95
3	Construction of Entrance Gate	Thangskai village	Wapung C&RD block	East Jaintia Hills	Enhance safety to community Infrastructures (viz. community halls, school, assets)	1.25
4	Free Health Checkup Camp	Thangskai village	Wapung C&RD block	East Jaintia Hills	Participants received free medicines following free health checkup and consultation Awareness on health issues, precautionary measures, institutional delivery, hygiene and sanitation among general public Goodwill among local population about company	0.16
5	Health awareness, Immunization and covid-19 vaccination program in collaboration with PHC Lumshnong	Wahiajer	Wapung C&RD block	East Jaintia Hills	The awareness session was witnessed by above 40 individuals, 9 children from below 5 years, 8 pregnant women were provided necessary assistance/medicines/vaccines under immunization program	0.03
6	Malaria eradication program in collaboration with PHC Lumshnong	Mynkre, Shymplong	Wapung C&RD block	East Jaintia Hills	100 poor households received free insecticide treated mosquito nets, that may help preventing malaria.	0.40
7	Common Service Lab (Digital Literacy program) in collaboration with HP	Lumshnong	Wapung C&RD block	East Jaintia Hills	71 participants completed their certificate course (Apr'22 – Oct'22). In addition to digital literacy training, The Common Service Lab is used for awareness generation sessions, training programs for farmers, SHG members, rural health workers.	2.83
8	Community engagement event – World Environment Day Celebration	Lumshnong, Thangskai	Wapung C&RD block	East Jaintia Hills	Observation of WED helps sensitizing people about taking effective steps to protect environment by way of planting trees, minimizing usage of single use plastics, shifting to clean energy sources for lighting and cooking purposes, proper segregation and disposal of wastes.	0.04
9	Community engagement event – Azadi Ka Amrit Mahotsav Celebration (Har ghar tiranga campaign, distribution of flags, competitions among student/ rural people)	Thangskai, Lumshnong, Umlong	Wapung C&RD block	East Jaintia Hills	Community also contributed in nationwide celebration of Azadi Ka Amrit Mahotsav. Community engagement events help keeping connect with nearby communities and maintaining cordial relationship	0.12
10	Community engagement event – Children Day Celebration (Awareness session among children, Sports/painting/drawing competitions)	Thangskai	Wapung C&RD block	East Jaintia Hills	Children get opportunity to participate in extra curricular activities. Increase participatory motive among children. Community engagement events help keeping connect with nearby communities and maintaining cordial relationship	0.09
11	Promotion of Agri-nutri Garden and Training of Self Help Groups on Agriculture Activities in collaboration with District Agriculture Dept-GoM	Moosianglamare new	Wapung C&RD block	East Jaintia Hills	Farmers to apply scientific approach to do agriculture activities. Farmers to get improved seeds, bio-fertilizers at subsidized rate. Organic agriculture produces. Fulfilling nutritional need of family. Additional income by selling surplus produces. Goodwill about company among community	0.45
12	Financial Literacy Camps with Self Help Groups in Collaboration with Meghalaya State Rural Livelihood Society (Ongoing Activity)	Thangskai Wahiajer Chiehruphi Umlong	Wapung C&RD block	East Jaintia Hills	Linkage of women participants to financial institutions, social security schemes Women participants get easy access to financial assistance, loans at lowest interest rate. Understanding about savings, budgeting, economic activities. Initiation of income generation activities by women participants.	0.5
Total						13.3

The Member Secretary, Meghalaya...

CSA, Meghalaya

The Regional Director, Central...

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