

F.No.J-11015/366/2009-IA.II(M)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan
Jor Bag Road, Aliganj
New Delhi-110 003
Date: 28th April, 2022

To

M/s Dalmia Cement (Bharat) Ltd.
Hansalaya Building, 11th & 12th Floor
15, Barakhamba Road
New Delhi – 110 001

Sub: Transfer of Environmental Clearance letter no.J-11015/366/2009.IA-II(M) dated 02.01.2014 from M/s Adhunik Cement Limited to M/s Dalmia Cement (Bharat) Limited issued for Umsoo - Mootang limestone mine (Block-V) (ML area 128.52 ha and outside dump 19.33 ha) with production of 2.0 MTPA limestone situated at Umsoo – Mootang area, Thanskai, Narpuh Elaka, East Jaintia Hills, Meghalaya- regarding

Ref: EC letter no. J-11015/366/2009.IA-II(M) dated 02.01.2014

Sir,

This has reference to the proposal no.IA/ML/MIN/264088/2022 for transfer of environmental clearance letter no.J-11015/366/2009.IA-II(M) dated 02.01.2014 from M/s Adhunik Cement Limited to M/s Dalmia Cement (Bharat) Limited issued for Umsoo - Mootang limestone mine (Block-V) (ML area 128.52 ha and outside dump 19.33 ha) with production of 2.0 MTPA limestone situated at Umsoo – Mootang area, Thanskai, Narpuh Elaka, East Jaintia Hills, Meghalaya.

2. The proponent has submitted online under the provisions of Rule 11 of the EIA Notification, 2006 along with the following documents:

- (a) Filled Form 7 (application for transfer of Environmental Clearance).
- (b) Cover letter dated 14.03.2022 signed by authorized signatory, M/s Dalmia Cement (Bharat) Limited.
- (c) Copy of affidavit dated 05.04.2022 wherein mentioned that change in name of granted environmental clearance from M/s Adhunik Cement Limited to M/s Dalmia Cement (Bharat) Limited consequent to the merger of M/s Adhunik Cement Limited to M/s Dalmia Cement (Bharat) Limited.
- (d) Copy of CTO dated 03.03.2022 in the name of M/s Dalmia Cement (Bharat) Limited is valid till 31.03.2023 issued by Meghalaya SPCB.
- (e) Copy of CTE dated 22.05.2014, 07.09.2015 and 01.06.2016 in the name of M/s Adhunik Cement Limited issued by Meghalaya SPCB.

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M/s Dalmia Cement (Bharat) Limited, Meghalaya

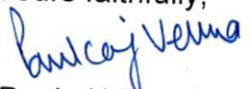
- (f) Copy of mine lease letter dated 02.07.2018 wherein mentioned that the proposal is for updation of mining leases M/s Adhunik Cement Limited to M/s Dalmia Cement (Bharat) Limited by the Joint Secretary, Mines & Geology Department, Government of Meghalaya.
- (g) Undertaking by M/s Dalmia Cement (Bharat) Limited on non-judicial stamp paper dated 14.03.2022 stating to comply with all the environmental safeguards / the terms and conditions as stipulated in the environmental clearance letter no. J-11015/366/2009.IA-II(M) dated 02.01.2014.
- (h) Copy of mining plan approved by IBM letter dated 09.09.2021 in the name of M/s Dalmia Cement (Bharat) Limited
- (i) Copy of certificate of incorporation dated 28.12.2017 regarding change of name of the company from M/s Adhunik Cement Limited to M/s Dalmia Cement (Bharat) Limited.
- (j) Copy of Board Resolution dated 26.07.2021 by company secretary, M/s Dalmia Cement (Bharat) Limited.

3. The matter has been examined in the Ministry and accordingly the undersigned is directed to say that the Ministry has no objection to transfer the above mentioned Environmental Clearance granted vide letter no.J-11015/366/2009.IA-II(M) dated 02.01.2014 from M/s Adhunik Cement Limited to M/s Dalmia Cement (Bharat) issued for Umsoo - Mootang limestone mine (Block-V) (ML area 128.52 ha and outside dump 19.33 ha) with production of 2.0 MTPA limestone situated at Umsoo – Mootang area, Thanskai, Narpuh Elaka, East Jaintia Hills, Meghalaya subject to satisfactory compliance to all the stipulated specific and general conditions.

4. All other terms and conditions mentioned in this Ministry's EC letter no.J-11015/366/2009.IA-II(M) dated 02.01.2014 shall remain the same.

This issues with the approval of the Competent Authority.

Yours faithfully,


(Pankaj Verma)
Scientist E

Copy to:

1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, Dr. Rajendra Prasad Road, New Delhi-110 001.
2. The Secretary, Department of Mines and Geology, Government of Meghalaya, Secretariat, Shillong.
3. The Secretary, Department of Environment, Government of Meghalaya, Secretariat, Shillong.

4. The Secretary, Department of Forest, Government of Meghalaya, Secretariat, Shillong.
5. The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Line, Nagpur-440 001.
6. The Chief Wildlife Warden, Forest and Environment Department, Govt. of Meghalaya, Shillong.
7. The Dy. Director General, Ministry of Environment, Forest & Climate Change, Regional Office (NEZ), Law-U-Sib, Lumbatngen, Near MTC Workshop, Shillong, Meghalaya.
8. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
9. The Member Secretary, Meghalaya State Pollution Control Board, ARDEN Lumpyngrigad, Shillong- 793 003.
10. The Member Secretary, Central Ground Water Board Ministry of Agriculture and Irrigation, 12/1 Jam Nagar House, Shahjahan Road, New Delhi- 110 011.
11. The District Collector, District East Jaintia Hills.
12. Guard File
13. PARIVESH.


(Pankaj Verma)
Scientist E

F. No. J-11015/366/2009-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
C.G.O. Complex, Lodi Road,
New Delhi - 110003

Dated: 2nd January 2014

To
M/s Adhunik Cement Ltd.,
605, Central Plaza,
2/6, Sarat Bose Road,
Kolkata -700 020.

Subject: Limestone mine of M/s Adhunik Cement Ltd. (ACL) at Village Thangskai, Jaintia Hills District, Meghalaya (128.52 ha Mining lease and 19.33 ha outside dump, Production of 2.0 MTPA) - Environmental Clearance.

Sir,

This has reference to your letter No. ACL/MoEF-M/01/2012 dated 27.04.2012 on the subject mentioned above and subsequent letter dated 16.04.2013. The terms of reference to the proposal for undertaking detailed EIA study were prescribed on 15.02.2010. The additional TOR was issued vide letter 05.03.2012. The proponent submitted the EIA/EMP and public hearing documents which was considered by Expert Appraisal Committee in its meeting held during August 29th -31st 2012 and further re-considered during June 26th -28th, 2013. The Committee recommended the proposal for Environmental Clearance.

2. The proposal is for opening of a new mine of lime stone with production capacity of 2.0 MTPA (ROM) over mine lease area of 128.52 ha and 19.33 ha of outside dump area at Village Thangskai, Jaintia Hills District, Meghalaya. The project site is located between 25°10'51" to 25°11'38" North latitude and between 92°20'44"E to 92°22'06" East Longitude with average altitude of 663 m above MSL. The mining plan along with progressive mine closure plan in this respect has been approved by IBM vide letter no. 314(3)/2009-MCCM (CZ)/MP-33 29.04.2010. A total of 24 Million tonnes (9.6 million cum) of overburden will be generated during life of mine and will be disposed off in the earmarked dump area (19.0 ha) proposed on the non-mineral area in southern part- outside applied area. Plantation will be raised on it.

3. Land usage of the mining lease area is deemed Forest. The Stage-I forest clearance for 147.85 ha (128.52+19.33 ha) has been granted vide letter no. 8-58/2012-FC dated 19.10.2012. Mining method will be conventional opencast fully mechanised method of working involving drilling, blasting. Government of Meghalaya, Office of Chief Conservator of Forests, Wild Life circle of Meghalaya, Shillong, vide letter dated FWC/G/117 dated 16th November, 2010 has confirmed that there are no threatened species of fauna except one species

of Schedule-I i.e., *Bambusicola fitchi hapkinsoni* (common name: Assam Bamboo Partridge) belonging to Avi Fauna observed in study area of 10 km radius and there are two rare categories of plant species (*Fissistigma verrucosum* and *Tupidanthus calyptratus*) from the buffer zone of study area. Perang River flows at distance of 5 km; Wahlareng flows southeast of ML, Luba River 7.4 km and Umluner River 3.1 km. The project site is located in the drainage basin of Umbadph stream basin (1 km from ML). The Life of mine is 32 years. The mine working will not intersect the ground water table as there is no perfect water table in this area, only erratic water channels are observed and are at very deep where pit floor will not reach. Water requirement is 30 m³/day, which will be supplied by ACL plant. Power requirement will be met from Captive power plant of ACL.

4. Public hearing was held on 27.09.2011. The issues raised during public hearing included employment, implementation of EMP of EIA/EMP, complying with Darbar's terms and conditions, plantation, CSR activities etc. It was reported that there is no court case pending against the project. Total cost of the project is Rs. 8.75 crores with an environmental protection measures cost of Rs. 85 lakhs and recurring cost of Rs 10 lakhs.

5. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and hereby accords environmental clearance under the provisions thereof for opening of a new mine of lime stone with production capacity of 2.0 MTPA (ROM) over mine lease area of 128.52 ha and 19.33 ha of outside dump area at Village Thangskai, Jaintia Hills District, Meghalaya of M/s Adhunik Cement Ltd. (ACL). The environmental clearance is subject to implementation of the following conditions and environmental safeguards.

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.
- (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.
- (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.
- (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.

- (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.
- (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 haulage 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.
- (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 to the mining activity, necessary corrective measures shall be carried out.
- (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.
- (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.

- (x) Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Shillong on six monthly basis.
- (xi) Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.
- (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.
- (xiii) Regular monitoring of ambient air quality shall be carried out and records 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.
- (xv) Implementation of Action plan on issues raised during Public Hearing.

B. 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 1st order and 2nd order streams, if any emanating/ passing through the mine lease during the course of mining operation.
- (ii) The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- (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.
- (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 desilted particularly after the monsoon and maintained properly.

- (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.
- (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.
- (vii) Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled 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.
- (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.
- (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.

- (x) Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- (xi) Drills shall either be operated with dust extractors or equipped with water injection system.
- (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.
- (xiii) Provision shall be made for the housing of construction labour 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.
- (xiv) The critical parameters such as SPM, RSPM (Particulate matter with size less than 10 micron i.e., PM₁₀), 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 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) A 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.

- (xvi) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (xvii) No change in the calendar plan including excavation, quantum of mineral and waste should be made.
- (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.
- (xix) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO₂ & 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.
- (xx) Data on ambient air quality (RSPM, SPM, SO₂ & 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 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.
- (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.
- (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 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.

- (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.
- (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.
- (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.
- (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.
- (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.
- (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.
- (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.
- (xxxi) 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.

- (xxxii) 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.
- (xxxiii) The environmental statement for each financial year ending 31st 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.
- (xxxiv) 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.


6. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

7. The Ministry may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, it is found/ came to knowledge of this Ministry that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.

8. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme


Court of India/ High Court of Meghalaya and any other Court of Law relating to the subject matter.

9. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


(Dr. V.P. Upadhyay)
Director

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhavan, New Delhi.
- (ii) The Secretary, Department of Mines & Geology, Government of Meghalaya Secretariat, Shillong.
- (iii) The Secretary, Department of Environment, Government of Meghalaya Secretariat, Shillong.
- (iv) The Secretary, Department of Forests, Government of Meghalaya Secretariat, Shillong.
- (v) The Chief Wildlife Warden, Government of Meghalaya Secretariat, Shillong
- (vi) The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office (NEZ) Uplands Road, Laitumkhrach, Shillong-793003
- (vii) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office complex, East Arjun Nagar, New Delhi-1100032
- (viii) The Member Secretary, Central Ground Water Authority, A-2 W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (ix) The Chairman, Meghalaya State Pollution Control Board, Arden, Lumphyngngad, Shillong-793014.
- (x) The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440001.
- (xi) The District Collector, District Jaintia Hills of Meghalaya.
- (xii) Guard File


(Dr. V.P. Upadhyay)
Director