

# Dalmia cement

**FUTURE TODAY**

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29<sup>th</sup> November 2023

To,

✓ Deputy Director General of Forest (C)  
Ministry of Environment, Forests & Climate Change  
Govt. of India  
Integrated Regional Office, Law – U –Sib,  
Lumbatngn, Shillong – 793021, Meghalaya.

**Subject:** *Half Yearly compliance report for the period of April 2023 to September 2023 conditions imposed in environment clearance vide letter no. SEIAA/2125(E)/PR-10/2015/247/945-969 dated: 22nd December -2017 for mining lease area Block – III of M/s Dalmia Cement (Bharat) Limited (Formerly Adhunik Cement Limited) having an extent of 4.9 Ha at Vill- Thangskai, P.O. Lumshnong, Dist – East Jaintia Hills, Meghalaya-793200.*

**Ref:** - Environment Clearance letter no. SEIAA/2125(E)/PR-10/2015/247/945-969 dated: 22<sup>nd</sup> December - 2017

**Respected Sir,**

With due respect and having reference of above subject and referred letter bearing No. SEIAA/2125(E)/PR-10/2015/247/945-969 dated: 22nd December -2017, we submit herewith half yearly compliance report for the Period of April 2023 to September 2023 for mining lease area Block – III of M/s Dalmia Cement (Bharat) Limited (Formerly Adhunik Cement Limited) having an extent of 4.9 Ha at Vill- Thangskai, P.O. Lumshnong, Dist – East Jaintia Hills, Meghalaya-793200

We request you to kindly acknowledge the receipt of the same.

Thanking you,  
For M/s, Dalmia Cement (Bharat) Limited

  
Authorized Signatory

Enclose: Compliance report – April 2023 to September 2023.

CC to:

- ✓ 1). The Member Secretary, State Environment Impact Assessment Authority, Meghalaya.
- ✓ 2). The Member Secretary, Meghalaya State Pollution Control Board, “Arden” Lumpyngad, and Shillong- 793 014, Meghalaya.
- ✓ 3). The Regional Director, Central Pollution Control Board, North Eastern Zonal Office, BSNL Complex, (CTO), Lachumiere, Shillong -793 001, Meghalaya.

**Dalmia Cement (Bharat) Limited**

Umsoo Mootang, Vill - Thangskai, PO Lumshnong, District - East Jaintia Hills - 793210 (Meghalaya) India  
T 91 9612901824/9612 895 625 Toll Free 1800 2020 W www.dalmiacement.com CIN : U65191TN1996PLC035963  
Registered Office: Dalmiapuram, District -Tiruchirapalli, Tamil Nadu – 621 651, India  
A Dalmia Bharat Group Company, www.dalmiabharat.com

**LIMESTONE MINE (BLOCK-III)**  
of  
**DALMIA CEMENT (BHARAT) LIMITED**  
**Mining Lease Extent - 4.9 Ha**

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

**COMPLIANCE STATUS**

**E C Letter No: - SEIAA/2125(E)/PR-10/2015/247/945-969 dated: 22<sup>nd</sup> December -2017.**

**Period Of Compliance : April 2023 to September 2023.**

SL No.	Conditions	Compliance Status
<b>A</b>	<b>Specific Conditions</b>	
(i)	This Environmental Clearance (EC) is granted subject to final outcome of Hon'ble of Supreme Court of India, Hon'ble High Court of Meghalaya, Hon'ble NGT and any other Court of Law, if any as may be applicable to this project.	Agree
(ii)	This EC granted is subject to obtaining requisite wild Life Clearance from the Divisional Forest Officer, Wildlife Division, Jaintia Hills Jowai.	As per ESZ notification vide Gazette notification SO:2942 dated 6 <sup>th</sup> September 2017 our mines is located outside the ESZ boundary. However, NOC has been issued by DFO, Wildlife vide letter no. MWL/JH/ 288/ Cemt. Factory/2016-2017/217 dated 24 <sup>th</sup> May 2018.
(iii)	Precise Mining area shall be jointly demarcated at the site by officials of mining / Revenue Department / Autonomous council / Forest Department prior to mining operation. Records of such site plan, duly verified by competent authority shall be maintained. Mining lease area should be demarcated on the ground with wire fencing to show the boundary of the lease area on all sides with red flags on every pillar. The project proponent shall erect the pillars for depicting GPS details in the earmarked boundary for the quarry site to monitor centrally.	Area demarcated and boundary pillar (having GPS coordinates) erected in the area.
(iv)	Mining activities shall be restricted only to the leased area as specified under the approved Mining Plan and shall not be extended to any other area. No tree-felling shall be done, except only with the permission from the competent	Agreed. Mining activities are restricted to lease area as specified in approved mining plan. Tree felling is done with the permission of competent authority.

	Authority.	
(v)	The PP shall obtain the Mining Lease / Quarry Permit from the office of the Director, Mineral Resources, Govt. Of Meghalaya before operationalising the Project. The PP shall effectively implement all the conditions stipulated therein, in the Lease / Permit. Copy of the same with copies of Receipts / Bills paid shall be submitted in the six monthly report of the PP.	We are having valid Mining Lease vide letter no. MG/2/2009/141 dated: 22.06.2009 from Govt. Of Meghalaya.  All conditions stipulated are complied.
(vi)	The PP shall obtain Consent to Operate (CTO) from the State Pollution Control Board, Meghalaya, within 2 (two) months from the date of issue of the EC and copy of the same shall be forward to the SEIAA, Meghalaya and the MoEF & CC, Regional Office, Shillong. The PP shall effectively implement all the conditions stipulated therein. Certified compliance of the CTO conditions shall be submitted in every six month report of the PP.	Meghalaya State Pollution Control Board, accorded the project with Consent to operate vide letter no. MPCB/CON- 35-2014/2016-2017/15, dated:15.03.2017 which is renewed time to time. Conditions stipulated in CTO are compiled and report thereof is submitted monthly basis.
(vii)	The PP shall take necessary measures to ensure that there shall not be any adverse impact due to mining operation on the nearby human habitations, by way of pollution to the environment. Mitigation Measures as listed in the Chapter - 4 of the revised final EIA & EMP shall be strictly implemented in letter and spirit and the same shall be reflected in every six monthly report of the PP.	There does not exist any village in the immediate vicinity of the mining lease boundary however all mitigative measures as listed in the Chapter - 4 of the revised final EIA & EMP are strictly implemented.
(viii)	The commitments of the PP against issues raised in the public Hearing dated 25.10.2016, (chaired by Shri K L Nongbri, MCS, Addl. Deputy Commissioner, East Jaintia Hills) including the MoU mentioned in the public hearing shall be considered and implemented by the PP Action taken shall be reflected in every Six month report of the PP.	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. Compliance report pertaining to issue raised during public hearing is submitted to your good office vide letter dated 14.11.2022.
(ix)	In - view of the public voice raised in the Public Hearing above, mentioning that 'Caves present in area may collapse' due to mining limestone including blasting in such mining operation, the company shall engage Geological survey on India, to conduct study on how mining and blasting operation if undertaken in the area will adversely impact the caves. The report shall be submitted to the Region Office (NER), Ministry of Forest, Environment & Climate Change, Shillong, and the SEIAA, Meghalaya within 12 (twelve) months from the date of issue of the EC.	There is no caves in the mining area. However, we have submitted application to GSI on dated 9.11.22 and another letter dated 21.11.23 where requesting to conduct study on how mining and blasting operation is affecting caves in surrounding. Please find attach submitted application to GSI as <b>Annexure – I</b> . GSI is ensured us to conduct the study by end of December 2023 and report will be issue hence after. The same report will

		be submit to your good office after receiving
(x)	A safety barrier of 0.70 ha (including plantation area of 0.050 ha) shall be maintained as specified in the approved mining plan of the mining lease area.	A safety barrier of 0.70 ha is maintained Natural vegetation is there in 7.5meter safety zone (0.7 0 Ha safety barrier).
(xi)	Considering that in the mining lease area, a huge pit of above 4.21 ha with an average depth of 36.2 m will remain in perpetuity, the PP shall put in place mechanism to facilitate ecological restoration. Ecological restoration may be like - increase the width and stabilizing the terrace to facilitate soil deposition and natural succession and the segment of the terrace may be selected with local seedling / grasses, etc.	Ecological restoration of the mining pit will start once limestone from bottom most bench is extracted fully and that mining is dynamic.
(xii)	Wet drilling method is to be adopted to control dust emissions. Delay detonators and shock tube initiation system for blasting shall be used so as to reduce vibration and dust. Drilling and blasting shall be done only either by licensed explosive agent or by authorized personnel after obtaining required approvals from Competent Authorities. The explosive shall be procured from authorised dealers / agency as per the conditions stipulated in the permits issued by the licensing Authority. Blasting shall be carried out during day time only after taking necessary precautionary measures to ensure public safety. Nearest Police station / outpost should be kept informed. Periodical monitoring of the vibration at specified location to be conducted and records kept for inspection.	Wet drilling is in practice. Delay detonators and shock tube initiation system are in use. Drilling is done by company however explosives are stored for use in licensed Magazine. Explosives are procured from Authorised dealer. Blasting is carried out during day light hours and all precautionary measures are observed to ensure safety.  Online pass is generated to transport the explosive for use. Blast induced vibration is monitored on regular basis and record thereof is maintained.
(xiii)	Air and Noise pollution shall be checked periodically in consultation with the state pollution control board (SPCB) and the records shall be maintained. The data of Ambient Air Quality and Noise Level, as recorded in Table 3.2 & Table 3.3 of Chapter - 3 of the EIA /EMP may be taken as a base for such study or as may be directed by the SPCB. The Device for checking Air and Noise pollution shall be installed at the same site ass indicated in the Chapter - 3 Table 3.2, 3,3 and Fig 3.3. & 3.4 of the above said chapter or as may be directed by the SPCB. The PP shall take appropriate measures to comply with the revised National Ambient Air Quality (NAAQ) norms notified by MoEF & CC on 16.11.2009 and Measures should be taken to comply with the provisions laid under Noise Pollution (Regulation and Control) (Amendment) Rules, 2010, dated 11.01.2010 issued by the MoEF & CC to control noise to the prescribed levels. PP shall reflect in a comparative format the status of Ambient Air Quality and Noise level recorded as stated above in every	Ambient Air Quality and the Noise Quality is regularly monitored and data for the same is also submitted to the concern Board on regular basis. Ambient Air Quality and Noise monitoring Report attached as <b>Annexure - II &amp; III</b> respectively.

	Six monthly Report of the PP.	
(xiv)	Water pollution shall be checked periodically in consultation with the SPCB and the records shall be maintained. The data of water quality as recorded in Table 3.4 of Chapter - 3 of the EIA /EMP may be taken as a base for such study or as may directed by the SPCB. The device for checking Air and Noise pollution shall be installed at the same site as indicated in the Chapter - 3, Table 3.4 and Fig. 3.4 of the above said chapter or as may be directed by the SPCB. PP shall reflect in a comparative format the status of water quality recorded as stated above in every Six month Report of the PP.	There is no outside discharge. Auto garage is equipped with ETP and treated is reused for equipment washing. However, to comply the condition, we have engaged Third party to do water quality testing. Testing report of water quality of all locations as specified in Table no. 3.4 of Chapter – 3 of the EIA/EMP report is attached as <b>Annexure – IV</b> .
(Xv)	The PP to implement the following measures to reduce (1) Air pollution during transportation of minerals, (a) Roads shall be graded to mitigate the dust pollution (b) water shall be sprinkled at regular intervals on the main road and other service roads to suppress dust and (2) Noise pollution, (a) proper and regular maintenance of vehicles and machineries / equipment. (b) Limiting time exposure of works to excessive noise. (c) The workers employed shall be provided with Personal protective equipment (d) Speed of trucks entering or leaving the mine is to limited to moderate speed to prevent undue noise from empty trucks.	Agree. Road is graded on regular basis. A 12 KL water tanker is deployed to sprinkle water on haul road. Maintenance of the HEMM is done as per recommendation of OEM. Workmen are provided with full PPE. Traffic rule framed by Manager Mines is in force to limit the speed of hauling dumpers/trucks.
(Xvi)	Top soil and overburden shall be staked properly at earmarked site with proper slope with adequate protective measures to reduce run - off and should also be used for plantation purpose. Bounds to be provided at the boundary of the project site and adjoining public road except for the approach road to prevent flow of soil, debris, etc.	Complied.
(XVII)	Rainwater getting accumulated in the quarry floor shall not be discharged directly to the nearby stream or water body. If it is to be let into the nearby water body, it has to be discharged into silt trap on the surface within the lease area and only the overflow after allowing settling of silt be let into the nearby water -ways. The silt trap should be of sufficient dimensions to catch all the silt water being pumped out during one season. The silt trap should be de - silted of all the deposited silt at the end of the season and kept ready for taking care of the silt in the next season.	There is no outside discharge. Bund has been erected all along the periphery of the working pit. This allows run off water due to rain to flow into the pit and seeps down without much accumulation as rock is highly fractured and recharge underlying aquifer. Accumulated silt is fed to crusher along with ROM for cement manufacturing.
(XVIII)	If in the future the lease area of project proponent falls in the cluster and total mined / borrowed area of the cluster fall under category b 1 or A, as per the prevailing guidelines of MoEF & CC, all the concerned procedures, except public hearing, shall be followed up accordingly for compliance of	Agree.

	Environmental Laws / Notifications / Rules. EMP for the cluster shall be prepared based on outcome of the EIA study and all the suggestions / recommendations of EIA / EMP prepared for the cluster shall be complied - with in a letter and spirit by the project proponent.	
(XIX)	The PP shall take all precautionary measures during mining operation for conservation and protection of endangered flora and fauna in the project area and the PP shall ensure that a Biodiversity conservation plan with focus on conservation of the Schedule - I species is put in place in the area. The PP mentioned in the EIA / EMP report that the plan was approved by the Chief Conservator of Forests, wild Life Circle, Meghalaya vide letter no. FWC/G/117 dated 10.11.2010. ACL has earmarked Rs. 45.998 lacks as budget proposal for the proposed conservation plan. A copy of the Plan shall be submitted to the Regional Office, MoEF & CC, NE, Shillong and the SEIAA, Meghalaya. Progressive status report on conservation and protection of endangered flora and fauna in the area shall be reflected in every Six Monthly report of the PP.	We have taken up the matter with State forest department. A letter dated, 20 <sup>th</sup> Decemeber 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 <b>Annexure – V.</b>
(XX)	The PP shall be responsible for the medical examination of the workers engaged in the project. Occupational health check -ups shall be undertaken once in six months for workers and necessary remedial / preventive measures shall be taken. The recommendations of national Institute for ensuring a good occupational environment for mine workers shall be implemented. The prevention measures for burns, malaria and provision of anti - snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.	Agree. Medical examination of workers engaged in the project is done as per laws. Report of the medical test is enclosed as <b>Annexure – VI.</b>
(XXI)	The lease holder shall undertake adequate safeguard measures during extraction of material and ensures that due to this activity, the hydro - geological regime of the surrounding area shall not be affected. 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. The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment, Forest and Climate change and Central Ground water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out, the report on six monthly basis on charges in groundwater level and quality shall be submitted to the SEIAA, Meghalaya and the regional office of the Ministry of Forest, Environment &	Proposed mining will not intersect water table.

	CC.	
(XXII)	The pollution due to transportation shall be effectively controlled. Vehicular emissions shall be kept under control and regularly monitored. Vehicles with Meghalaya pollution Control Board clearance certificate only shall be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Vehicular emissions are kept under control by maintaining the HEMM as per OEM recommendations. Further, there is no village in the vicinity of the mining lease area and loaded truck do not pass through any public place or habitation.
(XXIII)	The PP shall put in place proper rainwater harvesting measures at the site and shall also undertake conservation measures to augment groundwater resources in the area in consultation with the central Ground water board.	Bund has been erected all along the periphery of the working pit. This allows run off water due to rain to flow into the pit and seeps down without much accumulation as rock is highly fractured which recharge underlying aquifer.
(XXIV)	The PP shall adopt Best mining practice for the given mining conditions in the mining area adequate number of check dams, retaining walls/structures, garland drain and settling ponds should be provided to arrest the run-off with rain water in catchment area.	Bund has been erected all along the periphery of the working pit. This allows run off water due to rain to flow into the pit and seeps down without much accumulation as rock is highly fractured which recharge underlying aquifer.
(XXV)	The PP shall ensure use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads, and cleaning of transport vehicles shall not be done outside the project area. Main haulage road and other roads should be regularly wetted using water tanker fitted with sprinklers. Material transfer points should invariable be provided with Bag filters and or dry fogging system. Belt conveyors should be fully covered to avoid air borne dust.	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.
(XXVI)	The PP shall ensure that no natural water course and /or water resources shall be obstructed due to any mining operations. The water table should be nurtured so as not to go down below the pre-mining period. In case of water scarcity in the area, the PP shall not use local water for the project and also shall assist in arranging water to the villagers for their use.	There is no outside discharge. We use rain water and don't draw any water from ground. Natural water course and /or water resources is not obstructed due to mining.
(XXVII)	Underground water shall not be drawn for use in mining activities without prior permission from central Ground Water Board.	Agree. We do not draw underground water.
(XXVIII)	The PP Shall ensure that the lights and sounds at night at the project site do not disturb the villages and the also animals. The PP shall ensure that the biological clock of the village (s) is not disturbed; by orienting the floodlights / masks away from the villagers and keeping the noise levels	Agree. There is no village in the vicinity of the mining lease area. However, sound level is maintained within prescribed limit and flood lights are oriented toward mines and away from villages.

	well within the prescribed limits for day light / night hours.	
(XXIX)	The PP shall not transport the material by road through the village, without their consent. A "by - pass" road shall preferably be constructed for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The PP shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the project. Transportation of the quarried materials shall not cause any hindrance to the village people nor damage the existing village road/state/national highway.	There is no public road or village in the immediate vicinity of the mines. Therefore, vehicle transporting the material is not passing through any vegetation.
(XXX)	Necessary permission as per Acts & Rules shall be obtained from the competent Authorities for storage and use of explosives and detonators. The instructions and Rules specified therein shall be strictly adhered to.	Permission for storage and use of Explosives and detonators has been obtained. The same has been submitted to your good office vide letter dated 14-3-2019.
(XXXI)	As per the Company Act, 2013, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act / Rules for the Socio Economic Development of the neighbourhood habitats which could be planned and executed by the project proponent more systematically based on the "Need based door to Door Survey" by established Social Institutes / Workers. The Report shall be submitted to the SEIAA, Meghalaya, MSPCB and Regional office MoEF & CC at six monthly basis.	Agree. Various CSR activities carried out directly on door to door as well as by established social institutes also. Lists of some CSR activities attached as <b>Annexure – VII.</b>
(XXXII)	A separate environmental management cell (EMC) with suitable qualified personal should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization. Roles and Responsibilities at the level of hierarchy in the Environmental Management Cell shall be defined, documented and communicated to facilitate effective implementation of the environmental policy. Names of persons in EMC should be clearly displayed and informed to SEIAA, Regional Office MoEF & CC and Meghalaya State Pollution Control Board. In case of any change in officials holding the posts, the PP should also intimate to the SEIAA / Monitoring Agency.	A separate environmental management cell (EMC) with suitable qualified personal is set-up. The same is under the control of Unit Head.
(XXXIII)	The PP shall undertake digital processing of the entire lease area using remote sensing techniques regularly once in three years for monitoring land use pattern and the Report shall be submitted to MoEF & CC, New Delhi, the Regional Office, MoEF & CC, Shillong and the SEIAA, Meghalaya.	Agree. DGPS survey has been done and accordingly lease map has been authenticated by DMR, Govt. of Meghalaya and submitted to your good office vide letter dated 14 <sup>th</sup> November 2022.
(XXXIV)	PP shall submit a Final Mine Closure Plan along with details of Corpus Fund to the Ministry of Environment, Forest and	Noted for compliance.



	Climate Change and SEIAA, Meghalaya, 1 (one) year in advance for approval.	
(XXXV)	The PP shall install Effluent Treatment Plant (ETP) for the entire cement plant complex including residential area and also for the workshop and waste water generated during the mining operation, in compliance to Supreme Court Order dated 22.02.2017 in W.P. (C) 355 of 2012. Status of functioning of the ETP shall be reported regularly to the SPCB and also be reflected in every six monthly report of the PP.	STP & ETP are operational in colony and Auto garage respectively. Report thereof is submitted as stipulated in conditions therein. Performance test report of Both STP & ETP are enclosed as <b>Annexure – VIII &amp; IX</b> respectively
<b>A</b>	<b>General Conditions</b>	
(i)	No change in mining technology and scope of working shall be made without prior approval of the SEIAA, Meghalaya. No deviation shall be made in the calendar plan including excavation, quantum of mineral and waste.	Agree.
(ii)	Mining shall be carried out as per the provisions outlined in mining plan approved by IBM, GoI, as well as by abiding to the Guidelines of Directorate General Mines Safety (DGMS).	Agree.
(iii)	Sufficient number of Gullies / drainage channels shall be provided for better management of water. Regular monitoring of pH shall be included in the monitoring plan and report shall be submitted to NE Regional Office, MoEF & CC, Shillong and Meghalaya State Pollution Control Board (MSPCB) on six monthly basis.	Agreed. No outside discharge. Bund is erected all along the working pit to allow rain water to seeps down through fractured strata which recharge underlying aquifer.
(iv)	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM 10 and PM 2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air quality to be carried and record should be maintained. A copy of the report shall sent to SEIAA, the Regional Office – MoEF & CC, the MSPCB and the Regional Ground Water Authority.	Agree. A 12 KL water tanker is in use to sprinkle water on haulage road to suppress fugitive dust. Transfer points and crusher is equipped with bag filters to avoid dust emission.  Ambient Air Quality parameters are monitored and is well within prescribed limit. Report is submitted to concern authorities.
(v)	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working site and OB dumps to prevent run off or water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted and maintained properly. The dump capacity	No outside discharge from the mines. However, bund has been erected all along the working pit to allow rain water from mines and dump to flow into pit. Fractured strata allows rain water to seeps down without much accumulation which recharge underlying aquifer. Dump capacity has been designed considering highest rain

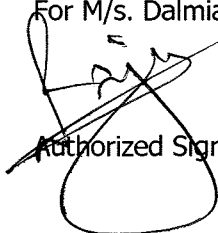
	shall be designed keeping 50 % safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site, and it shall allow adequate retention period for proper settling of silt materials.	fall. Mines pit act as siltation pond. Accumulated silt if fed to crusher along with ROM which is used in cement manufacturing.
(vi)	PP shall obtain permission for establishment of Soil dumping yard for OB from the Competent Authority.	Dumps for OB is situated within the mining lease area. Therefore, additional permission is not required.
(vii)	Plantation shall be raised in a 7.5 m wide green belt in the safety zone around the mining lease, back filled and reclaimed area, around water body, along the roads site, etc by planting native species, following the CPCB guidelines for green belt plantation and in consultation with the State DFO (Social Forestry). Green belt shall be developed all along the mine lease area in a phased manner and shall be completed within 2 years. The density of trees shall be around 2500 per ha.	7.5meter wide safety barrier is full of natural vegetation however additional plantation is done in phased manner in consultation with DFO as and when require.
(viii)	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 constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year pre-monsoon (April - May), monsoon (August), post - monsoon (November) and winter (January) and the data thus collected may be sent regularly to the regional office MoEF & CC, Shillong and MSPCB.	<p>There is no perfect water table. No water bodies or stream in and around the mines. We have visited Central Ground Water Board, North East Regional Office, Guwahati and discussed the matter. We are in the process to find out suitable vendor for conducting hydro-logical study. On completion, report thereof shall be submitted to concern authorities.</p> <p>Block – III is very adjacent to block – V and one side lease boundary is common. Therefore, piezometer installed at block – V serves the purpose of monitoring of ground water as physiography of the area is similar.</p> <p>Request letter submitted to SEIAA, Meghalaya, dated 14.11.22 where seeking waive off of specific condition (XXI) for installing Piezometers in Block – III. Copy of the same letter is already shared your good office dated 14<sup>th</sup> November 2022.</p>
(ix)	Regular monitoring of water quality up-stream and down-stream of water bodies in and around the mine lease shall be carried out and record be maintained.	Proposed mining will not intersect water table. There is no water bodies or stream in and around the mines. However, to comply the condition we have engaged third party to conduct the monitoring. Report of the latest monitoring is enclosed as <b>Annexure – X</b> .

(X)	Regular monitoring of flow rate springs and perennial drains / nallah flowing in and around the mine lease shall be carried out and record be maintained.	Proposed mining will not intersect water table. There is no water bodies or stream in and around the mines. There is no outside discharge from the mines. Lease area is at low lying and there is no water stream in and around.
(xi)	Provision shall be made for the temporary housing of construction labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, etc.	All manpower is accommodated in residential colony which is having all necessary infrastructure.
(xii)	Critical parameters such PM 2.5, NO <sub>x</sub> , SO <sub>x</sub> in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per the MoEF & CC notification in 2009. further, quality of discharged water shall also be monitored (TDS, DO, PH and Total Suspended Solids - TSS). The data shall be uploaded on the website of the company and also prominently displayed at the project site. The circular no. J-20012/1/2006-1A.II (M) dated 27.05.2009 issued by MoEF & CC, which is available on the website of the Ministry <a href="http://www.envfor.in.in">www.envfor.in.in</a> shall also be referred to in this regard for its compliance.	Critical Parameters such as PM 2.5, NO <sub>x</sub> & SO <sub>x</sub> is monitored regularly. Monitoring data is attached as <b>Annexure - II.</b>
(xiii)	Industrial waste water (workshop and waste water from the mine) shall 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 shall be installed before discharge of effluents.	ETP is operational in auto garage. No outside discharge.
(xiv)	PP to obtain NOC from the state Revenue & Disaster Management Department, as the area falls, under Seismic Zone - V (IS:1893 (part- I) -2002).	NoC from the State Revenue & Disaster Management is obtained and same has been submitted to your good office vide letter dated 14-03-2019.
(xv)	No child - labour permitted. The PP shall ensure that no child is employed in the project. PP shall register his employees /workers as per state labour Laws / Rules from time to time, and record shall be maintained.	Agree. No child labour is engaged
(xvi)	Personal Protective Equipment should be provided by the PP to the working persons and they should also be provided with adequate training and information on safety and health aspects including natural disaster / calamities management training.	PPE is provided to all workmen. In addition, adequate training and information on safety and health aspect is provided to the workmen to make them aware about safety and health including disaster/ calamities, etc.
(xvii)	In case the PP being a lease holder, he / she shall obtain and submit to SEIAA the consent of the land owner in an affidavit, within a period of 12 months from the issue of EC, to the effect that the land owner has no objection if reclamation work is taken up by the	All lands belongs to the project proponent.

	State Government at the project site. In case the PP being the land owner, the affidavit shall be executed by himself.	
(xviii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purposes. The PP shall ensure adequate budgetary provisions and indicate a time line for the implementation of the plan. The plan shall be submitted to the SEIAA and the NE regional office of the MOE&FCC, Shillong within a period of 1 year from the date of issue of EC.	Agree.
(xix)	Mining shall be stopped if the entire quantity indicated in the mining plan is quarried, even if the validated quarry lease periods is still on. PP shall inform the IBM, Central Zone, Nagpur and the State Mining & Geology Department for instruction and order.	Agree.
(xx)	The project Authorities shall 1). advertise at least 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. Copies of the news - paper above shall be furnished to the O/O the SEIAA, Meghalaya. 2) to display name board at the quarry site - showing the details PP lease area, period of the lease, etc. 3). this clearance letter shall be made available on the website.	Complied. Same has been submitted to your office vide letter dated 14.03.2019.
(xxi)	The PP shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the monitoring authorities - the Regional Office, MOE&FCC, Shillong or State Pollution Control Board. The certified /verified copy of the same from the above monitoring authorities shall be submitted to the SEIAA and SEAC, Meghalaya.	Agree and complied.
(xxii)	Environmental statement for each financial year ending 31 <sup>st</sup> March in Form - V as mandated shall be submitted to MSPCB with copy of the same to SEIAA, Meghalaya and Regional Office, MoEF & CC, Shillong.	Agree.
(xxiii)	The mining plan is valid for 5 years only. After its expiry the PP shall submit another mining plan duly approved by the IBM.	Agree
(xxiv)	This environmental clearance does not imply that the other statutory / administrative clearance shall be granted to the project by the concerned authority. Such authority shall consider the project independently as per their respective statutory power under acts/ rules / guidelines empowered to such authorities.	Agree
(xxv)	The PP shall not violate applicable provisions of any acts, rules, order of the government and judicial orders	Agree

	issued by the Hon'ble Supreme Court / High Court // NGT, applicable to the project.	
(xxvi)	Official from the Regional Office of MoEF & FCC, Shillong, MSPCB or any authorized official, who would be monitoring the implementation of the conditions mentioned herein, shall be given full cooperation, facilities and documents /data by the PP during their inspection.	Agree
(xxvii)	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, 1981 along with their amendments and rules made there under also any other orders passed by the Hon'ble Supreme Court of India /High Court of Meghalaya / NGT and any other Court of Law relating to the subject matter.	Agree
(xxviii)	The SEIAA reserves the right to add or delete any conditions or safeguards measures found necessary, and to take action including revoking the clearance granted, if conditions stipulated are not implemented by the PP or in case of submission of false document / wrong declaration.	Agree
(xxix)	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.  This environmental clearance valid for a period of 5 (Five) years from the date of issue.	Agree

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

  
Authorized Signatory.

**Dalmia**  
**cement**

**FUTURE TODAY**

cement! sugar! refractories! power!

Letter No. DCBL/Mines/2023-24/158

Date:21/11/2023

To,  
The Director,  
Technical Consultancy Services,  
GSI, NE Region,  
Govt. of India,  
Shillong – 793 003,  
Meghalaya

**Subject:** Request for technical consultancy to conduct study on how mining and blasting operation will adversely impact the nearby caves to comply a condition no (ix) of environment clearance w.r.t mining lease of Umsoo Mootang Limestone (DCBL) Mines Block-III of M/s Dalmia Cement (Bharat) Ltd.

Respected Sir,

With due respect, I would like to submit that we have a mining lease Umsoo Mootang Limestone (DCBL) Mines Block-III, over an area 4.90 Ha of M/s Dalmia Cement (Bharat) Ltd. at Village Thangskai, East Jaintia Hills, Meghalaya and obtained Environment clearance from SEIAA, Shillong vide letter No. SEIAA/2125(E)/PR-10/2015/247/945-969 dated 22.12.2017. To comply condition No. (ix) environment clearance, we have to conduct a study.

Therefore, we would like to request you to conduct study on how mining and blasting operation will adversely impact the caves. Please, let us know the availability and time schedule of competent persons for technical consultancy on said matter.

In view of the above, we humbly request your good self to kindly provide us the above information's and oblige.

Thankyou sir,

Sincerely,  
For Dalmia Cement (Bharat) Ltd.

*Chatterjee*

Prasenjit Chatterjee  
Mobile No.6909391210  
Email: chatterjee.prasenjit@dalmiacement.com

**Dalmia Cement (Bharat) Limited**

Umsoo Mootang, Vill - Thangskai, PO Luhmshnong, District - East Jaintia Hills - 793210 (Meghalaya) India  
T 91 9612901824/9612 895 625 Toll Free 1800 2020 W www.dalmiacement.com CIN : U65191TN1996PLC035963  
Registered Office: Dalmiapuram, District -Tiruchirapalli, Tamil Nadu – 621 651, India  
A Dalmia Bharat Group Company, www.dalmiabharat.com


**RE: Request for the native caves study at our Umsoo- Mootang Limestone Block-III**

Prasenjit Chatterjee &lt;Chatterjee.Prasenjit@dalmiacement.com&gt;

Tue 11/21/2023 4:07 PM

To: tcsdgsiner@gsi.gov.in &lt;tcsdgsiner@gsi.gov.in&gt;

Cc: Hemant Sharma &lt;Sharma.Hemant1@dalmiacement.com&gt;; Shibasish Nath &lt;nath.shibasish@dalmiacement.com&gt;; Raju Ranjan Prasad &lt;prasad.raju@dalmiacement.com&gt;

 1 attachments (53 KB)

gsi letter cave study block-iii.pdf;

To,  
The Director,  
GSI, NE Region,  
Govt. of India,  
Shillong – 793 003, Meghalaya

Respected Sir,

As discussed, in reference to the trial mail the letter is also being attached for your ready reference for study the native cave for our Umsoo-Mootang Limestone mines (DCBL) Block-III of M/s Dalmia Cement (Bharat) Ltd. at Thangskai, East Jaintia Hills, Meghalaya, and send a report to us so that we can furnished to MoEF & CC.

Please, let us know the availability and time schedule of competent persons for technical support on said matter.

In view of the above, we humbly request your good self to kindly provide us the above information's and oblige.

With Regards  
Prasenjit Chatterjee

**From:** Prasenjit Chatterjee**Sent:** Monday, November 20, 2023 3:41 PM**To:** tcsdgsiner@gsi.gov.in**Cc:** Hemant Sharma <Sharma.Hemant1@dalmiacement.com>**Subject:** Request for the native caves study at our Umsoo- Mootang Limestone Block-III

To,  
The Director,  
GSI, NE Region,  
Govt. of India,  
Shillong – 793 003, Meghalaya

Respected Sir,

As discussed, on the basis of MoEF & CC letter reference no. RONE/E/IA/ML/MI/188/1672-73 dated 08.09.2023 we should fulfill the EC (Environment Clearance) condition no. Specific Condition No. IX. As

per the condition we shall have to study the local cave study and to submit a report of GSI to MoEF & CC.

With reference to the subject cited above, we would like to request you and your team to visit our current location at our Umsoo-Mootang Limestone Mine (DCBL) Block-III to study the native caves and provide study report for our Umsoo-Mootang Limestone mines (DCBL) Block-III of M/s Dalmia Cement (Bharat) Ltd. at Thangskai, East Jaintia Hills, Meghalaya.

Therefore, please provide the details of your arrival time and an MoU from both yours and ours end. Please provide your estimated cost to study the caves of the surrounding areas and can submit the report.

Please, let us know the availability and time schedule of competent persons for technical consultancy on said matter.

In view of the above, we humbly request your good self to kindly provide us the above information's and oblige.

With Regards  
Prasenjit Chatterjee  
Dy. Manager (Geology)  
Dalmia Cement (Bharat) Limited  
Thangskai, P.O. Lumshnong  
East Jaintia Hills, Meghalaya-793210  
Mobile No.-  
6909391210



## Annexure - II

Dalmia Cement Bharat Ltd.  
Ambient Air Quality Monitoring Report  
Limestone Mines Block - III  
Month: April 2023 – September 2023

Location →	Near Mines office				Near Drilling 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>
Month												
April – 23	51.2	22.4	0.1	0.1	53.6	20.2	0.1	ND	53.2	17.8	0.1	0.1
May – 23	51.0	22.1	0.2	0.1	51.6	22.1	0.1	ND	50.2	11.8	0.2	0.1
June – 23	51.2	22.1	0.1	ND	51.0	22.0	0.1	ND	55.1	11.1	0.1	0.1
July – 23	50.3	22.8	8.2	8.8	53.2	21.8	0.8	8.2	56.5	25.3	2.8	0.8
August – 23	51.2	22.7	8.2	8.0	53.4	21.7	0.6	8.4	56.1	25.1	2.4	0.3
Sept - 23	51.5	22.1	8.2	8.2	52.4	22.8	0.8	8.2	55.6	25.3	2.5	0.8

Name of the Industry: Dalmia Cement (Bharat) Limited

Date: 20.5.2023

Monitoring Location: Limestone Mines Block - III

Date of Monitoring: 10.05.23 to 11.05.23

Report No.: DCBL/B- III/23-24/01

**AMBIENT AIR QUALITY SURVEY REPORT**

Pollutants	Locations & Analysis Results					Permissible Limits (in $\mu\text{g}/\text{m}^3$ )
	Near Mines Office	Near Drilling Point	Near Rock Breaking Point	Near Loading Point	Near Mines View Point	
Particulate Matter size less than $10\ \mu$ (PM 10)	55.4	ND	ND	ND	55.0	100*
Particulate Matter size less than $2.5\ \mu$ (PM 2.5)	22.0	ND	ND	ND	22.4	60*
Sulfur dioxide (SO <sub>2</sub> )	7.1	ND	ND	ND	7.0	80*
Oxides of Nitrogen (NO <sub>x</sub> )	8.3	ND	ND	ND	8.9	80*
Carbon Monoxide (CO)	ND	ND	ND	ND	0.1	4**
Ammonia (NH <sub>3</sub> )	ND	ND	ND	ND	ND	400
Ozone (O <sub>3</sub> )	ND	ND	ND	ND	ND	180
Lead (Pb)	ND	ND	ND	ND	ND	1.0
Benzene (C <sub>3</sub> H <sub>6</sub> )	ND	ND	ND	ND	ND	5
Benzo (a) Pyrene (BaP)	ND	ND	ND	ND	ND	01
Arsenic (As)	ND	ND	ND	ND	ND	06
Nickel (Ni)	ND	ND	ND	ND	ND	20

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Industrial, Residential, Rural and Other Areas as per National Ambient Air Quality Standards, Notification dated 18<sup>th</sup> November 2009.



Pankaj Baroi, For ENVIROCON

**Annexure - III**

Dalmia Cement Bharat Ltd.  
Noise Monitoring Report  
Limestone Mines Block - III  
Month: April 2023 to September 2023

Location →	Near Mines Entrance		Near Primary Crusher		Near Drilling Point		Near Rock Breaker		Near Loading Point		Near Unloading Point		Near Over Burden Dump Area	
	Day Time (6.00 to 10.00) In dB(A)	Night Time (10.00 to 6.00) In dB(A)	Day Time (6.00 to 10.00) In dB(A)	Night Time (10.00 to 6.00) In dB(A)	Day Time (6.00 to 10.00) In dB(A)	Night Time (10.00 to 6.00) In dB(A)	Day Time (6.00 to 10.00) In dB(A)	Night Time (10.00 to 6.00) In dB(A)	Day Time (6.00 to 10.00) In dB(A)	Night Time (10.00 to 6.00) In dB(A)	Day Time (6.00 to 10.00) In dB(A)	Night Time (10.00 to 6.00) In dB(A)	Day Time (6.00 to 10.00) In dB(A)	Night Time (10.00 to 6.00) In dB(A)
April - 23	51.4	51.1	52.1	48.2	52.1	51.1	62.2	55.0	60.2	55.1	61.4	51.2	52.1	44.0
May - 23	51.1	51.1	55.1	44.2	54.1	53.1	62.0	51.0	60.4	50.1	61.3	52.1	52.4	44.2
June - 23	50.5	51.2	55.2	44.2	54.2	53.2	62.2	51.2	60.2	50.5	61.1	52.3	52.1	44.0
July - 23	56.5	55.2	55.2	44.8	57.4	51.1	60.2	51.4	61.1	52.1	62.0	52.3	55.2	43.1
August - 23	55.2	55.6	55.6	44.4	57.3	51.2	60.4	51.5	61.4	52.3	62.2	52.1	55.4	43.4
Sept - 23	56.1	55.2	55.7	44.8	57.2	51.1	60.8	51.2	61.1	52.1	62.4	52.3	55.2	43.5

## Annexure – IV

### WATER QUALITY ANALYSIS of Near by Villages

Date of Sample Collection – 12.04.2023

S. No.	Parameter	Standards: (Reference as per DCBL – LS Block – III – EIA – page – 47, table – 3.4 & Gen Cond. No. IX of EC conditions)	Locations & Results					
			Thangskai village	Pynurkh a village	Mynkree village	Sakhain village	Wah Ianiang Nala	Lubha River
1	pH value	6.73 – 7.18	7.3	7.1	7.0	7.1	7.0	7.0
2	TDS, mg/l	122 -235	82	82	84	80	84	80
3	Total Hardness as CaCO <sub>3</sub> , mg/l	40 - 150	44	44	44	55	55	55
4	Chlorides as Cl, mg/l	18 – 28	21	22	23	23	23	22
5	Sulphates as SO <sub>4</sub> , mg/l	12 – 25	16	12	17	21	22	21
6	Fluorides as F, mg/l	0.32 – 0.39	0.34	0.32	0.34	0.35	0.34	0.32

Annexure - 5

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 20<sup>th</sup> 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

Amiya - VI

DALMIA CEMENT (BHARAT) LTD, MEGHALAYA				
Medical Laboratory Report, OHC				
Name: Ignesh Horo		Report Date: 28.05.2023		
Age: 34Yrs		Sample collection Date: 28.05.2023		
Gender: Male		Lab Report No.: 113		
Sl. No.	Test Name	Results	Unit	Normal Range
<b>Blood</b>				
1	Blood glucose (Fasting)	96	mg/dl	70-110
2	Blood glucose (P.P)	118	mg/dl	Upto 150
<b>Others</b>				
1	Urine RE			
2	AFB Smear	✓	No AFB seen	

End of Report:

**DALMIA CEMENT (BHARAT) LTD, MEGHALAYA****Medical Laboratory Report, OHC**

Name: Haridwar Chauhan

Report Date: 28.05.2023

Age: 46Yrs

Sample collection Date: 28.05.2023

Gender: Male

Lab Report No.: 112

Sl. No.	Test Name	Results	Unit	Normal Range
<b>Blood</b>				
1	Blood glucose (Fasting)	96	mg/dl	70-110
2	Blood glucose (P.P)	118	mg/dl	Upto 150
<b>Others</b>				
1	Urine RE			
2	AFB Smear	✓ No AFB seen		

End of Report

## DALMIA CEMENT (BHARAT) LTD, MEGHALAYA

## Medical Laboratory Report, OHC

Name: Hemanta Sinha

Report Date: 28.05.2023

Age: 22Yrs

Sample collection Date: 28.05.2023

Gender: Male

Lab Report No.: 111

Sl. No.	Test Name	Results	Unit	Normal Range
	<b>Blood</b>			
1	Blood glucose (Fasting)	90	mg/dl	70-110
2	Blood glucose (P.P)	115	mg/dl	Upto 150
	<b>Others</b>			
1	Urine RE			
2	AFB Smear	✓ No AFB seen		

End of Report.



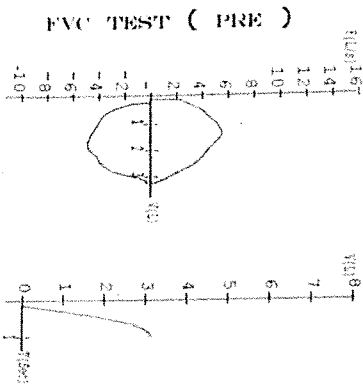


APOLLO HOSPITAL  
GUWAHATI 7  
0361713500

RMS-HELIX 702  
Ver 1.3.0

19/09/73

**Printed Information**

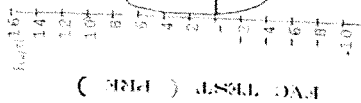


Parameters	Pred	Pre	zPred	Parameters	Pred	Pre	zPred
FVC	3.09	3.13	101	FEF 2-1.2	6.84	5.44	79
FEV 1	2.60	3.13	120	FEF 25	7.68	5.48	71
FEV1/FVC(%)	84.13	100.01	118	FEF 50	5.57	5.02	90
FEF25-75	4.04	4.76	117	FEF 75	2.84	3.50	123
FEFR	8.42	5.55	65	FEV 5/FVC	---	78.36	---
FEFR	---	3.06	---	FEV3/FVC	97.01	100.01	103
FEV .5	---	2.45	---	FVC Time	---	1.00	---
FEV3	2.99	3.13	104	Exp Time	---	0.23	---
FEFR	---	4.84	---	Lung Age	34	27	---
FEF 75-85	---	2.88	---				

Recorders & Medicare Systems Pvt. Ltd. 0172-2658701-05 URL:www.msindia.com

Interpretation Set:  
 C.O.P.D. Severity  
 Mild to Normal Limits  
 Test within normal limit  
 ---

Sign : .....  
 Dr. DR K R SARKAR



**APOLLO HOSPITALS**  
**081118300**  
**SRINIVAS**  
**17/6/23**  
 Date: \_\_\_\_\_  
 Smoker: No  
 Height: 152 cm  
 Weight: 63 kg  
 Sex: Male  
 Age: 46 years  
 Name: **Hardwar Chaudh**  
 Unit: 100

Parameters	Pred	Pre	%Pred	Parameters	Pred	Pre	%Pred
FVC	2.47	3.75	111	FVC 2-1.2	5.56	5.65	101
Fev 1	1.96	2.51	126	FVC 25	7.13	6.39	89
Fev1/FVC (%)	80.39	91.18	113	FVC 50	4.97	3.64	73
FVC 3-75	3.33	3.69	111	FVC 75	3.23	1.42	43
FEF 200	2.56	4.74	185	FVC 5/FVC	---	72.89	---
FVC	---	2.76	---	FVC/FVC	97.01	100.01	103
Fev .5	---	1.99	---	FVC Time	---	3.03	---
Fev3	2.39	2.75	114	Exp Time	---	0.94	---
FIF	---	5.09	---	Domj Age	46	33	---
FVC 75-85	---	1.21	---				

INTERPRETATION  
 Within Normal Limits  
 FEV1/FVC>85 & FVC>80  
 ---  
 Test within normal limit  
 ---  
 C.O.P.D. Severity  
 ---

Interpretation Set:  
 Indian Pred. Eqns.  
 Dr. DR. K R SARMAH

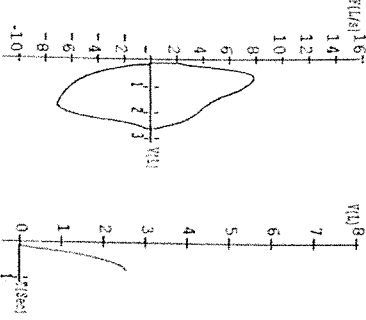
Recorder & Medicare Systems Pvt. Ltd. 0172-2658701-05 URL: www.rmsindia.com

RMS-HELPER 702  
 Ver 1.3.0

RMS-HELIOS 702  
Ver 1.3.0

Patient Information  
Name : Hemanta Swaha  
ID : 22  
Age : 22 years  
Sex : Male  
Height : 153 cm  
Weight : 47 Kg  
Smoker : Yes  
Date : 28/07/23

FVC TEST ( PRE )



Parameters	Pred	Pre	%Pred	Parameters	Pred	Pre	%Pred
FVC	2.85	2.56	89	FVC 2-1.2	7.25	7.16	98
FVC 1	2.53	2.56	101	FEV1/FVC	7.64	7.77	101
FEV1/FVC(1)	88.58	100.01	112	FEV1 50	5.72	5.38	94
FEV25-75	4.43	5.20	117	FEV1 75	3.22	3.54	109
FEFR	8.27	7.95	96	FEV3/FVC	97.01	100.01	103
STVC	---	2.53	---	FVC Time	---	0.76	---
FVC .5	---	2.37	---	Exp Time	---	0.06	---
FEV3	2.77	2.56	92	Lung Age	22	21	---
FEFR	---	7.08	---				
FEV 75-85	---	3.03	---				

Recorders & Medicare Systems Pvt. Ltd. 0172-2658701-05 URL: www.rmsindia.com

INTERPRETATION  
Within Normal Limits  
%FEV1/FVC > 95 & %FVC > 80

C.O.P.D. Severity  
Test within normal limit

Interpretation Set:  
Indian Pred. Eqns.  
Sign : .....  
Dr. DR K R SARMAH

CSR Initiatives

Sn	CSR activity	Project location	Block	District	Benefits from project activity
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.
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.
3	Construction of Entrance Gate	Thangskai village	Wapung C&RD block	East Jaintia Hills	Enhance safety to community infrastructures (viz. community halls, school, assets)
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
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
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.
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. 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.
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.
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
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
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
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.
Total					



# ENVIROCON

Recognised By

PCB, Assam & MSPCB, Meghalaya

Annex 1011  
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ISO 9001



DNV

DNV

Certified

Certified

Name of the Industry: Dalmia Cement (Bharat) Limited

Date: 22.5.2023

Source: STP Out let

Date of Sample Collection: 10.05.23

Report No.: DCBL/B- V/23-24/02

### STP - OUTLET - Water Quality Analysis

S. No.	Parameter	Standards	Results
1	Suspended Solids (mg/1) max	100	34
2	pH value	5.5-9.0	7.0
3	Temperature	Shall not exceed 5°C above the receiving water temperature	4
4	Oil & grease	10	1
5	Total Residual Chlorine mg/1 max	1	0.1
6	Ammonical Nitrogen (asN) mg/1 max	50	11
7	Total kjeldahl Nitrogen (asN) mg/1 max	100	20
8	Free Ammonia (asNH <sub>3</sub> ) mg/ 1 max	5	2.1
9	Biochemical Oxygen Demand (3 days at 27°C) mg/1 max	30	3
10	Chemical Oxygen Demand, mg/l	250	22

Remarks: The parameter monitored was found within the permissible limits.

Pankaj Baroi, For ENVIROCON

**Core Services:** Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs

**Associate Services:** Certification by Competent Person (CIF), NDT, Hydraulic Testina, Chartered Engineer Services etc.

Name of the Industry: Dalmia Cement (Bharat) Limited

Date: 21.5.2023

Source: Oil & Grease Trap – Out let

Date of Sample Collection: 10.05.23

Report No.: DCBL/B- V/23-24/03

**Oil & Grease Trap - Outlet – Water Quality Analysis**

S. No.	Parameter	Standards	Results
1	Suspended Solids (mg/1) max	100	21
2	pH value	5.5-9.0	6.0
3	Temperature	Shall not exceed 5°C above the receiving water temperature	2
4	Oil & grease	10	4
5	Total Residual Chlorine mg/1 max	1	ND
6	Ammonical Nitrogen (asN) mg/1 max	50	ND
7	Total kjeldahl Nitrogen (asN) mg/1 max	100	ND
8	Free Ammonia (asNH <sub>3</sub> ) mg/ 1 max	5	ND
9	Biochemical Oxygen Demand (3 days at 27°C) mg/1 max	30	10
10	Chemical Oxygen Demand, mg/l	250	110

**Remarks:** The parameter monitored was found within the permissible limits.



Pankaj Baroi, For ENVIROCON

## Annexure – X

### WATER QUALITY ANALYSIS of Near by River – Upstream

Date of Sample Collection – 12.04.2023

S. No.	Parameter	Standards (Reference as per DCBL – LS Block – III – EIA – page – 47, table – 3.4 & Gen Cond. No. IX of EC conditions)	Locations & Results				
			Wah laniang River	Lukha River	Um Lunar	Prang River	Lubha River
1	pH value	6.73 – 7.18	7.1	7.0	7.0	7.0	6.8
2	TDS, mg/l	122 -235	82	88	79	80	90
3	Total Hardness as CaCO <sub>3</sub> , mg/l	40 - 150	53	51	52	51	53
4	Chlorides as Cl, mg/l	18 – 28	21	22	22	21	25
5	Sulphates as SO <sub>4</sub> , mg/l	12 – 25	20	20	20	16	12
6	Fluorides as F, mg/l	0.32 – 0.39	0.31	0.31	0.34	0.34	0.30

Date of Sample Collection – 12.04.2023

WATER QUALITY ANALYSIS of Near by River – Down stream

S. No.	Parameter	Standards (Reference as per DCBL – LS Block – III – EIA – page – 47, table – 3.4 & Gen Cond. No. IX of EC conditions)	Locations & Results				
			Wah laniang River	Lukha River	Um Lunar	Prang River	Lubha River
1	pH value	6.73 – 7.18	7.0	6.8	7.0	7.0	7.0
2	TDS, mg/l	122 -235	82	80	82	80	82
3	Total Hardness as CaCO <sub>3</sub> , mg/l	40 - 150	51	50	51	55	51
4	Chlorides as Cl, mg/l	18 – 28	22	24	22	26	22
5	Sulphates as SO <sub>4</sub> , mg/l	12 – 25	21	20	22	24	16
6	Fluorides as F, mg/l	0.32 – 0.39	0.30	0.34	0.34	0.35	0.35