



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

:: MEGHALAYA ::

'Silviculture Building', Lower Lachumiere : Shillong - 793 001

Email: ms.seiaamegh@gmail.com

No. SEIAA/2125(E)/PR-10/2015/ 312

Dated Shillong, the 28th June, 2022

From : The Member Secretary,
State Environment Impact Assessment Authority,
Meghalaya, Shillong.

To : ✓ The Deputy Executive Director
Dalmia Cement (Bharat) Ltd.
Thangskai Village, East Jaiñtia Hills District, Meghalaya

Subject: **Transfer of Environmental Clearance**

Reference: 1) Old EC No. SEIAA/2125(E)/PR-10/2015/247/945-969 dated 22/12/2017
2) Online Proposal No. SIA/ML/MIN/263339/2022

Sir,

In inviting a reference to the subject cited above, I am directed to inform you that the State Environment Impact Assessment Authority (SEIAA), Meghalaya in its meeting held on 26th May, 2022 have accepted your proposal for transfer of Environmental Clearance originally issued to *Shri. C. Kini, C.E.O. (NE) & Nominate Owner, M/s Adhunik Cements Ltd. (ACL, Thangskai Village, P.O & P.S- Lumshnong, Narpuh Taluka, East Jaiñtia Hills District Meghalaya* for Limestone Mining Project of 4.90 hectare at Umsoo-Mootang Area, Block-III, Thangskai Village, East Jaiñtia Hills District, Meghalaya and decided that the above mentioned EC shall be transferred to **Dalmia Cement (Bharat) Ltd., Hansalaya Building, 11th & 12th Floor, 15 Barakhamba Road, New Delhi-110001** with all the Terms and Conditions remaining the same.

Yours faithfully,

Member Secretary
State Environment Impact Assessment Authority
Meghalaya, Shillong.

No. SEIAA/2125(E)/PR-10/2015/

Dated Shillong, the June, 2022

Copy to:-

- 1) The Principal Chief Conservator of Forests and HoFF Meghalaya, Shillong, for information.
- 2) The Principal Secretary to the Govt. Meghalaya, Forests & Environment Department, Shillong, for information.
- 3) The Principal Chief Conservator of Forests, Territorial, Meghalaya, Shillong for information.
- 4) The Deputy Director General of Forests (C), Regional Office, N.E.Z, Ministry of Environment, Forests & Climate Change (MoEF&CC), Law-u-sib, Lumbatngen, Sawlad, Near M.T.C. workshop, Shillong- 793 021, for information and necessary action.

- 5) The Jt. Secretary, IA Division, MoEF&CC, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi – 110 003, for information.
- 6) The Secretary to the Govt. of Meghalaya, Mining & Geology Dept., Shillong for information.
- 7) The Deputy Commissioner, East Jaiñtia Hills, Khliehriat for information and necessary action.
- 8) The Divisional Forest Officer, Jaiñtia Hills Territorial Division, Jowai for information and necessary action.
- 9) The Member Secretary, State Expert Appraisal Committee, Meghalaya for information.
- 10) The Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai for information.
- 11) The Member Secretary, Meghalaya Pollution Control Board, 'Arden', Lumpyngngad, Shillong – 793 014 for information and necessary action.

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

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Email : ms.seiaamegh@gmail.com

No. SEIAA/2125(E)/PR-10/2015/247/945-969

Dated, Shillong, the 22nd Dec., 2017

From The Member Secretary,
State Environment Impact Assessment Authority
Meghalaya.

To ✓ Shri. C.Kini,
C.E.O. (NE) & Nominate Owner,
M/s- Adhunik Cements Ltd.(ACL),
Thangskai Village, P.O. & P.S.-Lumshnong,
Narpuh Taluka, East Jiantia Hills, Meghalaya- 793200.

Subject : Application for prior Environmental clearance to the propose
Limestone Mining project at Umsoo-Mootang Area, Block- III
(over an area of 4.90ha.),Thangskai Village, Elaka- Narpuh,
East Jaintia Hills,Meghalaya by M/s Adhunik Cements Ltd.

Sir,

1. This has a reference to your application dated 15.10.2015 seeking prior Environmental Clearance for the above proposed Limestone mining project and your subsequent letter dated 28.04.2017 submission of revised final EIA & EMP. The State Expert Appraisal Committee (SEAC), classed this project as B1 being the proposed Captive Limestone mine for the above said Cement plant. After due consideration of the relevant documents submitted by the project proponent along with the application, viz., Form-I, PFR, the revised final EIA&EMP including the Questionnaire, the Public Hearing document, the approved Mining Plan, the additional clarifications furnished by the Project Proponent (PP), Presentation by the PP and the


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field inspection carried out by the Expert Committee Members, the SEAC has unanimously recommended to the SEIAA for grant of Environmental Clearance to the project, vide letter No. SEAC/PP-19/2015/295/725, dated 10.05.2017.

2. It is noted that as per the Application Form/PFR the land for the proposed limestone mining is a private land. The Mining Lease for the Project had been granted by the State Mining and Geology Department, vide letter No. MG/2/2009/141 dated 22.06.2009. The Govt. of India, IBM, Central Zone, Nagpur, vide letter No.314(3)/2009-MCCM(CZ)/MP-21 dated 03.12.2009 approved the Mining Plan of this project. The land is a deemed Forest Land and the Ministry of Forests & Environment, NER, Shillong has granted final approval for diversion of 4.90ha. forest land, vide letter No.3-MG B 059/2012/ SHI/6632-33 dated 05.03.2014.

3. The proposed mine lease area of 4.90ha. is located at village- Thangskai, Umsoo-Mootang area (Block-III), P.O. & P.S.- Lumshnong, Taluka -Narpuh, East Jaintia Hills, Meghalaya and lies between $25^{\circ} 10'55.20''$ to $25^{\circ}11'01.40''$ North Latitudes and between $92^{\circ} 21'21.80''$ to $92^{\circ}21'33.60''$ East Longitudes on the Survey of India Toposheet no. 83 C/W(Restricted). The average altitude of the site is 688m above the MSL. The Lease boundary is 6.18km. SSE from pillar no. NP-13 of Narpuh Wildlife Sanctuary, and is outside the notified Narpuh Eco Sensitive Zone. The area is undulating and the north side is at higher elevation in respect to south & south west part. There is no perennial streams or rivers passing through the lease area. Number of seasonal streams exists on slope of the hills in the vicinity which flow towards west and south west into the Wah Laniang and meets Prang River, 8.2km. south-west. The soil is

Sandy Loam. The nearest rivers (in aerial distance)- Wah Laniang =1.3km-W, Lukha river=6.7km- SSE, Um Lunar river = 6.9km.- ENE, Prang river = 8.2km-SW and Lubha river =8.7km-S. The distance from ACL is only 0.5km (aerial distance).

4. In the Public Hearing held on 25.10.2016 at Thangskai village, Lum Shnong, East Jaintia Hills, chaired by Shri K. L. Nongbri, MCS, Addl. Deputy Commissioner, East Jaintia Hills, the Management of the PP had make some commitments against each issue raised by the participants in the public hearing, like the MoU, employment, environmental protection works/activities to check/protect environment damages/pollution in the area, protection of Caves present in area, etc.

5. As per the approved Mining Plan, the total proposed production of limestone is 6.88 Lakhs TPA. The average quality of limestone in the leased area is found to be Cement Grade Limestone (CGLS). The total mineable reserve of limestone is of the order of 21.64lakhs tonnes. The limestone produced will be used in the ACL. The mine will not be abandoned within five years and mined out area will not be filled back as the Limestone deposit is continuing further below. The life of the mine is about 5(five) years.

6. The total water consumption is 20KLD, - 1KLD for domestic purposes, 16KLD for dust suppression, etc., 3KLD for plantation/green belt and 0.6KLD will be the waste water coming from domestic purposes. The water shall be met from the ACL sources near-by. Power supply for the project will be made from the

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Captive power plant of ACL and in addition a D.G. set of 7 kVA capacity will be provided.

7. As per the approved Mining Plan, mining will be done in two shift and six days a week by fully mechanized opencast method involving Machineries/ vehicle like crawler drill, air compressor, hydraulic excavators, dumpers. Limestone shall be dislodged by drilling and blasting. The limestone will be handled by dumper/tipper trucks and excavators. Bench height of mining is at 6 - 9m, bench width 9m, pit slope 45°, on all sides of the pit. Working depth of the mine is 632mRL. No stone crusher unit will be established in the site. Dust suppression will be carried out in the working area and haul roads by sprinkling of water with water tanker. Wet drilling will be practiced to reduce noise generation and Personal Protective Equipments (PPE) will be provided to the mine workers. Green belt of 7.5m wide (area of 0.69ha) is proposed to be developed in safety zone and plantation of over 2180 sampling will be carried out in course of five years.

8. Baseline studies had been conducted by the PP's hired Consultant- B.S. ENVI. TECH (P) Ltd., Secundarabad (NABET-registration No. NSBET/EIA/1316/RA002) during summer season, 2016, covering the months of March, 2016 to May 2016, the report indicated that all parameters for water and air quality were within permissible limits.

9. The man power will be common for all mines operated by the Company in the area, which includes- Mine Manager/Asst. Mine Manager/

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Foreman/Asst.Manager(drilling&blasting)/Foreman(drilling&blasting)/Blaster/Geologist/Surveyor/Magazine i/c/,Office Clerks/ Supervisor((Tally)/Blaster helper/Sample boy. Drivers for: Excavator /HYVA Tipper/Dozer/Drill/Dumper/Water tanker/Ambulance/Maintenance Van/Rock Breaker and Explosive Van. Engineer i/c /Shift Engineer/Shift Foreman/Mechanics/welder/Auto Electrician/Fitter/Helper.

10. The Overburden (top soil & sand-stone) is very thick in the lease area, the OB generation during the life of mine will be 10.21Lakhs tonnes. The area of dumping Yard is 1.5ha and no. of terraces are two with the height of 6m located outside the lease area, about 200m away, to the Eastern direction but the land falls under the PP's land.

11. The area falls under Seismic zone V(IS:1893(Part-I)-2002),which is seismically active zone.

12. To evaluate the effectiveness of environmental management programme, the company had set up a fully functional Environmental Management Cell and Environmental Laboratory at the associated of the Cement plant, under the supervision of Plant Head, Environmental Manager and Environmental Engineer.

13. The cost of the Project is Rs.150Lakhs. The PP has earmarked Rs. 2.00Lakhs per annum towards Environmental protection Measures and Rs.1.3Lakhs per annum as recurring cost in the next 5(five) years.

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14. The cost of CSR activities is only 1(one) Lakh per annum for this project, which is too meagre.

15. The State Environment Impact Assessment Authority, Meghalaya, has decided to accept the recommendations of the SEAC to granting EC to the project, in its meeting dated 08.12.2017. Accordingly, Environmental Clearance is hereby accorded for the above project on the recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows :

A. Specific conditions

- (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.
- (ii) This EC granted is subjected to obtaining requisite Wild Life Clearance Certificate from the Divisional Forest Officer, Wildlife Division, Jaintia Hills, Jowai.
- (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


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- depicting GPS details in the earmarked boundary for the quarry site to monitor centrally.
- (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 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.
- (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 forwarded to the SEIAA, Meghalaya and the Mo EF & CC, Regional Office, Shillong. The PP shall effectively implement all the conditions stipulated therein. Certified compliance to the CTO conditions shall be submitted in every six month report of the PP.
- (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

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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.

- (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.
- (ix) In-view of the public voice raised in the Public Hearing above, mentioning that 'Caves present in area may collapse' due to mining of limestone including blasting in such mining operation, the Company shall engage Geological Survey of 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 Regional Office (NER), Ministry of Forest, Environment & Climate Change, Shillong, and the SEIAA, Meghalaya within 12(twelve) months from the date of issue of the E.C.
- (x) A safety barrier of 0.70ha (including plantation area of 0.50ha) shall be maintained as specified in the approved mining plan of the mining lease area.
- (xi) Considering that in the mining lease area, a huge pit of about 4.21ha with an average depth of 36.2m will remain in perpetuity, the PP shall put in place mechanism to facilitate ecological restoration. Ecological restoration may be like -increase the

width and stabilising the terrace to facilitate soil deposition & natural succession and the segments of the terrace may be selected with local seedling/grasses, etc.

(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 authorised personnel after obtaining required approvals from Competent Authorities. The explosives 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.

(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 as 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,

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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 Six month 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 be 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. 3.5 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.

(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 workers to excessive noise. (c)The workers employed shall be provided with Personal protective equipments (d) Speed of trucks entering or leaving the mine is to be limited to moderate speed to prevent undue noise from empty trucks.

(xvi) Top soil and overburden shall be stacked properly at earmarked site with proper slope with adequate protective measures to reduce run-off and should also be used for plantation purpose. Bunds to be provided at the boundary of the project site


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and adjoining public road except for the approach road to prevent flow of soil, debris, etc.

(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.

(xviii) If in 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 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/117dated. 10.11.2010. ACL has earmarked



Rs.45.998Lakhs 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.

(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.

(xxi) The Lease holder shall undertake adequate safeguard measures during extraction of material and ensure 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 changes in Groundwater level and quality shall be submitted to the SEIAA, Meghalaya and the Regional Office of the Ministry of Forest, Env.&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 pollution 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.

(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.

(xxiv) The PP shall adopt Best Mining Practices 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.

(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 tankers 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.

(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,

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the PP shall not use local water for the project and also shall assist in arranging water to the villagers for their use.

(xxvii) Underground water shall not be drawn for use in mining activities without prior permission from the Central Ground Water Board.

(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 well within the prescribed limits for day light/night hours.

(xxix) The PP shall not Transport the minerals 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.

(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.

(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/Rule 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 on six monthly basis.

(xxxii) A separate Environmental Management Cell (EMC) 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. Roles and responsibilities at all level of hierarchy in the Environment 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 post, the PP should also intimate to the SEIAA/Monitoring Agency.

(xxxiii) The PP shall undertake Digital processing of the entire lease area using remote sensing technique 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.

(xxxiv) PP shall submit A Final Mine Closure Plan along with details of Corpus Fund to the Ministry of Environment, Forest and 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



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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.

B. General Conditions

- (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.
- (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).
- (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 the NE Regional Office, MoEF&CC, Shillong and Meghalaya State Pollution Control Board (MSPCB) on six monthly basis.
- (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 PM10 and PM2.5 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 be sent to the SEIAA, the Regional Office-MoEF&CC, the MSPCB and the Regional Central Ground Water Authority.

- (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 de-silted and maintained properly. The dump capacity 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.
- (vi) PP shall obtain Permission for establishment of Soil dumping yard for OB from the Competent Authorities.
- (vii) Plantation shall be raised in a 7.5 m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads side, etc. by planting native species, following the CPCB guidelines for green belt plantation and in consultation with the State DFO (Social Forestry). Greenbelt 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.
- (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 piezometres 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.

- (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.
- (x) Regular monitoring of flow rate of springs and perennial drains/nallahs flowing in and around the mine lease shall be carried out and record be maintained.
- (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.
- (xii) Critical parameters such as PM_{2.5}, NO_x, SO_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 as per the MoEF's 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-IA.II (M) dated 27.05.2009 issued by MoEF&CC, which is available on the website of the Ministry www.envfor.nic.in shall also be referred to in this regard for its compliance.
- (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

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- GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of effluents.
- (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).
- (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.
- (xvi) Personal Protective Equipments 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.
- (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 2 months from the issue of the EC, to the effect that the land owner has no objection if reclamation work is taken up by the 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 MOEF & CC, Shillong within a period of 1 year from the date of issue of EC.

- (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.
- (xx) The Project Authorities shall: 1) 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. 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. and 3) this clearance letter shall be made available on the website .
- (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, MoEF &CC, 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.
- (xxii) Environment Statement for each financial year ending 31 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.
- (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.

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- (xxiv) This Environment Clearance does not imply that the other statutory/ administrative clearances shall be granted to the project by the concerned authorities. Such authorities shall consider the project independently as per their respective statutory power under acts/rules/ guidelines empowered to such Authorities.
- (xxv) The PP shall not violate applicable provisions of any Acts, Rules, Orders of the Government and judicial orders issued by the Hon'ble Supreme Court/High Courts/NGT, applicable to the project.
- (xxvi) Officials from the Regional Office of MoEF&CC, Shillong, MSPCB or any authorised officials, 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.
- (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, 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/NGT and any other Court of Law relating to the subject matter.
- (xxviii) The SEIAA reserves the right to add or delete any conditions or safeguarding measures found necessary, and to take action including revoking

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the clearance granted, if conditions stipulated are not implemented by the PP or in case of submission of false document/ wrong declaration.

- (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.


(Shri P.S.Nongbri, IFS)
Member Secretary,
SEIAA, Meghalaya.

Memo. No. SEIAA/2125(E)/PR-10/2015/247/

Dated, Shillong, the Dec., 2017


Copy to :-

- 1) The Secretary, Ministry of Mines, Govt. of India, Shastri Bhawan, New Delhi.
- 2) The Principle Chief Conservator of Forests and HoFF, Meghalaya, Shillong for information.
- 3) The Jt. Secretary, IA Division, MoEF&CC, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110 003 for information.
- 4) The Secretary to the Govt. of Meghalaya, Mining and Geology Department, Shillong, for information.
- 5) The Secretary to the Govt. Meghalaya, Forests & Environment Department, Shillong for information.
- 6) The Addl. Principal Chief Conservator of Forests (C), Regional Office, N.E.Z, Ministry of Environment, Forests & Climate Change (Mo EF & CC), Law-u-sib,

- Lumbatngen, Sawlad, Near M.T.C. workshop, Shillong- 793 021, for kind information and monitoring.
- 7) The Deputy Commissioner, East Jaintia Hills, Khliehriat, Meghalaya for information.
 - 8) The Chief Wildlife Warden, Meghalaya, Forest & Environment Department, Sylvan House, Lower Lachumiere, Shillong for information & necessary action.
 - 9) The Controller Of Mines (Central Zone), Indian Bureau of Mines, 2nd Floor, Indra Bhavan, Civil Lines, Nagpur- 440001 for information.
 - 10) The Divisional Forest Officer, Territorial, Jaintia Hill Division, Jowai, for information and necessary action.
 - 11) The Divisional Forest Officer, Wildlife, Jaintia Hill Division, Jowai, for information and necessary action.
 - 12) The Divisional Forest Officer, Social Forestry, Jaintia Hill Division, Jowai, for information and necessary action.
 - 13) The Member Secretary, SEAC, Meghalaya for information.
 - 14) The Regional Director, Central Ground Water Authority, NER, Shillong for information
 - 15) The Director, Mineral Resources, Govt. Meghalaya, Shillong for information.


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- 16) The Member Secretary, Meghalaya Pollution Control Board, 'Arden', Lumpynggad, Shillong - 793 014 for information and necessary action.
- 17) The Secretary, Jaintia Hills Autonomous District Council, Jowai for information.
- 18) Guard File.


Member Secretary,
SEIAA, Meghalaya