



File No: SEAC/ SEIAA.4453/2026

State Environment Impact Assessment Authority (SEIAA), Assam

(Constituted as per the provision of EIA Notification, 2006, as amended by the Ministry of Environment, Forest and Climate Change, Government of India)



Dated 17/09/2026

To,

Pankaj Kejriwal
STAR CEMENT LIMITED
Village Lumshnong, P.O. Khliehriat, Lumshnong, EAST JAINTIA HILLS, MEGHALAYA, 703210
delhi@starcement.co.in

Subject: Grant of prior Environmental Clearance (EC) to the proposed Mining Project under the provisions of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application submitted to SEAC & SEIAA vide proposal number SIA/AS/MIN/587986/2026 dated 21/08/2026 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26B0000AS5314238N
(ii) File No.	SEAC/ SEIAA.4453/2026
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals Proposed North Boro Hundong Limestone Block (Part – A), Auctioned Block Area: 188.498 ha with Limestone Production Capacity 6.0 Million TPA, Waste (OB/IB): 2.8 Million TPA & Top Soil: 0.076 Million TPA (Total Excavation: 8.876 Million TPA) located at Village: Boro Lakhindong, Tehsil: Umrangso, District: Dima Hasao, Assam by Star Cement Limited.
(vii) Name of Project	DIMA HASAO, ASSAM
(viii) Location of Project (District, State)	SEIAA
(ix) Issuing Authority	No
(x) Applicability of General Conditions	

In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were

submitted to the State Expert Appraisal Committee (SEAC), Assam under the provision of EIA notification 2006 and its subsequent amendments.

The above-mentioned proposal has been considered by State Expert Appraisal Committee (SEAC) in the meeting held on 07/09/2026. The minutes of the meeting and all the Application and documents submitted (viz. Form-1 Part A and Part B) are available on PARIVESH portal.

The brief about configuration of plant/equipment, products and by products and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A and B) /presented during SEIAA.

The SEIAA, in its meeting held on 11/09/2026, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of EC under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions.

The SEAC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after recommendations of the State Environment Impact Assessment Authority (SEIAA) hereby decided to grant EC for instant proposal of **Star Cement Limited** under the provisions of EIA Notification, 2006 and as amended thereof.

The SEIAA reserves the right to stipulate additional conditions, if found necessary.

The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

General Instructions:

- a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
- d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
- e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- g) Any appeal against this EC 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 issue with the approval of the Competent Authority.

EC is approved for North Boro Hundong Limestone Block (Part – A) through e-auction conducted by Govt. of Assam. The letter of Intent for proposed Limestone Block was issued by the Directorate of Geology & Mining, Assam vide letter No.GM/MM/615/5009-5011dated 26.03.2025for a period of 50 Years and amendment of LOI vide letter no.ECF

No.704294/47dated 18.09.2025.Proposed North Boro Hundong Limestone Block (Part – A)Auctioned Block Area: 188.498 Ha with Limestone Production Capacity6.0 Million TPA, Waste (OB/IB): 2.8 Million TPA & Top Soil: 0.076 Million TPA (Total Excavation: 8.876 Million TPA) located at Village: Boro Lakhindong, Tehsil: Umrangso, District: Dima Hasao, Assam. The mine lease area is located between Latitude: 25° 26' 58.7000" N to 25° 27' 45.0000" N and Longitude 92° 35' 56.0000" E to 92° 36' 52.0000" E.

The mine lease area falls under the Survey of India Toposheet No. G46O11(83C/11) and falls in Seismic Zone V.

Total proposed area under the project is 188.498 Ha (Non- Forest land).

Total Cost of the Project is estimated at INR 102 Cr.

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)No. MCDR-MPCP0CaFl/1/ 2026-GUH-IBM_RO_GUH Dated 06. 03.2026 with validity of 5 years from the date of Mining Lease Registration for mining of Major mineral Lime stone within an area of 188.498 ha .

As per the EIA Notification dated 14th September, 2006 and subsequent amendments vide S.O. 1886(E) dated 20th April 2022, the proposed mine falls under Category B (<250 ha) Project or Activity 1(a) (4) “Mining of Mineral” of the Schedule. However, General Condition (GC) as Amended Vide S.O. 1599(E). 25th June, 2014 is applicable to the project primarily due to its situation in close proximity to the Assam-Meghalaya Border.

It is on record that Govt. of Assam and Meghalaya entered into an Agreement on 13th August, 2025 in confirmation of compliance with the EIA Notification of 25th June, 2014 wherein no Wildlife Sanctuary (WLS), Eco Sensitive Zone (ESZ) and Critically polluted area is located within 5 km buffer of Mine boundary except the presence of inter-State boundary “Assam-Meghalaya” and both the states, through the said agreement, have mutually decided to move the MoEF&CC for consideration of the instant EIA proposal as Category “B”.

The Proposed Block Area of188.498 Ha is Government land. There are no settlements/habitation present within the Mining Lease Area. Hence, no shifting/displacement of people is involved. The parcel of Land is under the possession of the company Star Cement Limited.

PP has submitted that at conceptual stage, total area proposed to be covered under the greenbelt/plantation will be done over an area of 12.62 ha. Local indigenous species of plants will be planted after consultation with local forest officer and as per CPCB Guideline are as follows: Kadam, Haldu, Koroi, Siris, Neem, Uriam, Sham Kathal, Thona, Elephant Apple, Jamun, Amla, Peepal and various Bamboo species. Approximately, 16,725 Nos of plants will be planted in 12.62 ha area @ 1,600 plants per ha. Survival rate will be maintained at 85%. Rs. 88.50 Lakhs have been earmarked for greenbelt & plantation till the end of life of mine @ Rs 391/sapling (including plantation and maintenance cost). The budget includes the cost of Saplings, Watering facilities, Labour Charge, Organic manure, Biofertilizers, Maintenance, fencing etc., which may vary in due course of time.

Project Details-

Particular	Detail
Location	Village Boro Lakhindong, Tehsil Umrangso, District Dima Hasao, Assam
Lease area	188.498 ha, Government land (LoI amended 18.09.2025; Land Allotment 10.10.2025)
Capacity sought	Limestone 6.0 MTPA; Waste (OB/IB) 2.8 MTPA; Top Soil 0.076 MTPA; Total 8.876 MTPA
Elevation range	727–841 m AMSL (114 m relief)

Method	Fully mechanised opencast; 10 m benches, 20 m width, 45° ultimate slope; depth to 670 m AMSL (57 m bgl)
Category	'B' with General Condition (Assam–Meghalaya boundary ~0.1 km; bilateral agreement 13.08.2025)
Life of mine	11 years (Probable Reserves); 35 years projected (total Resources)

The following binding conditions to ensure comprehensive implementation and continuous improvement:

1. Production Compliance: Annual production shall be strictly in accordance with the currently Approved Mining Plan. Any ramp-up to the ultimate capacity of 6.0 MTPA shall be permitted only after obtaining the necessary modifications/approvals from IBM and SEIAA, supported by detailed exploration.
2. Geotechnical Stability: A site-specific geotechnical slope-stability study and seismic hazard assessment for Seismic Zone V shall be submitted before the benches advance beyond the initial development stage, ensuring safe mining operations.
3. Blast Vibration Management: A site-specific pre-blast survey and vibration attenuation study shall be conducted with NEEPCO before any blasting. Continuous vibration monitoring will be mandatory, with defined safety triggers.
4. Baseline Data and Traffic Study: The submission of a dry-season baseline air quality monitoring report and a comprehensive Traffic Carrying Capacity/LOS study shall be completed within the stipulated timeline.
5. Volumetric Auditing: The DEM created by the project proponent shall be submitted as baseline data. Subsequent DEMs shall be submitted with periodic compliance reports to enable volumetric auditing as per MoEF guidelines.
6. Buffer Zone for Mine Cluster: Considering the cluster of mines in the region, the project shall maintain a 25-metre buffer (50-metre combined) as a safety and vibration-absorbing zone. This buffer shall be developed as a green belt with dense plantation of shrubs and canopy trees to minimize cumulative impacts.

The Star Cement Limited has been successfully declared as the “Preferred Bidder” for the grant of Proposed North Boro Hundong Limestone Block (Part – A) through e-auction conducted by Government of Assam. Further, the Directorate of Geology and Mining, Government of Assam has issued a Letter of Intent (LoI) vide letter No. GM/MM/615/5009-5011 dated 26.03.2025. Subsequently, amendment in the Letter of Intent (LoI) was issued by Directorate of Geology and Mining, Government of Assam vide letter No. ECF No.704294/47, dated 18.09.2025 over an area of 188.498 ha for a period of 50 years. The Limestone mined out from this proposed mine will be used for cement manufacturing within Company’s own proposed Cement Plant and will be sold to prospective buyers.

The Project Proponent and the NABET Accredited Consultant presented the KML file and highlighted the key site features. PP submitted about the close proximity of Kopili River, which lies ~100 meter to the Mining Lease (ML) Boundary and that proper safety barrier will be maintained during entire life of mine. The PP also submitted the mining plan details, requirement water and other relevant details as depicted in the table hereunder:

Mining plan details

Mining Plan including Progressive Mine Closure Plan (approved by Indian Bureau of Mines/DMG)	Letter No.	No. MCDR-MPCP0CaFl/1/2026-GUH-IBM_RO_GUH
	Date	06.03.2026
	Mineral & (Major/Minor)	Major
	Mine Lease Area, Ha	188.498 ha
	Validity	5 years from the date of Mining Lease Registration
Additional information (if any)	The Mining Plan with Progressive Mine Closure Plan has been approved by Deputy Controller of Mines (IBM), Guwahati vide letter No. MCDR-MPCP0CaFl/1/2026-GUH-IBM_RO_GUH dated 6.03.2026.	
Mining Parameters	Quantitative Description	

Method of Mining	Fully Mechanized Opencast Mining		
Drilling/Blasting	Drilling Drilling will be carried out by deploying 115 mm dia. All drilling operations will be done mechanically by using hydraulic drill for deep hole drilling equipped with wet drilling / dust extractor. Blasting The blasting will be done by PETN Booster/ slurry explosives and ANFO using NONEL. No secondary blasting will be undertaken and boulders will be reduced in size by deployment of Rock Breaker.		
Geological Reserves	192.36 Million Tonnes		
Mineable Reserves	11.37 Million Tonnes		
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/Waste, MTPA)	Total Excavation: 8.876 Million TPA <u>Breakup of Total Excavation:</u> 1. Limestone: 6.0 Million TPA 2. Waste (OB/IB): 2.8 Million TPA 3. Top Soil: 0.076 Million TPA		
Life of mine	11 Years (35 Years based on Resources as per GSI Report) However, after conducting detailed exploration and other studies the life of the Mine may further increase up to the ML Period.		
Mine Bench Height & Bench Width	Bench height: 10 m (max.) Bench Width: 20 m (min.)		
Existing Depth, m bgl	It's a greenfield project so, the point is not applicable.		
Elevation Range	727 m AMSL to 841 m AMSL		
General Ground Water Table	720 m AMSL		
Working Depth during Plan Period	733 m AMSL (15 m bgl)		
Ultimate Working Depth	670 m AMSL (57 m bgl)		
Individual bench slope	85°		
Overall pit slope	45°		
Details of existing/ proposed Crusher	Proposed Crusher: 1800 TPH Capacity		
Mineral Beneficiation	Nil		
Transportation details including capacity of dumper/tipper, mode of transport and distance	Limestone will be transported to the proposed Cement Plant and Prospective Buyers by Road with the help of tipper capacity: 30-60 Tonnes		
Generation of Topsoil/OB & its Management during plan period & conceptual period	Particular	During Plan Period	During conceptual period
	Top Soil	0.034 Million Tonnes topsoil will be generated which will be used in Greenbelt/Plantation.	1.08 Million Tonnes and at topsoil will be generated which will be used for spread over the back filled area and plantation/re-grassing.
	Over Burden	0.281 Million Tonnes waste (OB/IB) will be generated.	70.68 Million Tonnes of waste (OB/IB) will be generated which will be initially

		dumped and later will be used for back filling the mined-out area.
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Water requirement

Total water requirement	250 KLD	Fresh Water	250 KLD
		Treated water	0 KLD
Source	Kopili River/Ground water, Mine Sump, Harvested water. Application for water withdrawal has been submitted to Principal Secretary (N) North Cachar Hills Autonomous Council, Haflong, Assam vide letter dated 06.08.2026 submitted on 07.08.2026		

Total Excavation is estimated at 8.876 Million TPA.

The anticipated Probable Reserves life of mine will be 11 Years (35 Years based on Resources as per GSI Report) However, after conducting detailed exploration and other studies the life of the Mine may further increase up to the ML Period.

PP has submitted that the Company have allocated a budget of Rs. 70 lakhs over 3 (three) years to meet the public hearing commitments. SEAC noted the submissions and assurance by the PP to complete the PH commitments within 3 years from the date of initiation of mining activity.

The SEAC particularly insisted the PP on 3 (three) measurable deliverables to be arrived at through the conduct of (i) GHG emissions in tCO₂e/year and tCO₂e/tonne of limestone, (ii) carbon-stock and carbon-loss assessment associated with vegetation/land-use change, and (iii) climate-resilience design based on future extreme rainfall, especially because of the site's hilly terrain, karstic geology, drainage network and proximity to the Kopili River. The authorized representative of the PP committed that the Company shall undertake such studies and the copy of the reports shall be made available to the SEIAA and the Regional Office, MoEF&CC, GoI.

The Project Proponent and the Consultant, the SEAC is of considered opinion to recommend grant Environmental Clearance for the Proposed North Boro Hundong Limestone Block (Part – A), Auctioned Block Area: 188.498 ha with Limestone Production Capacity 6.0 Million TPA, Waste (OB/IB): 2.8 Million TPA & Top Soil: 0.076 Million TPA (Total Excavation: 8.876 Million TPA) located at Village: Boro Lakhindong, Tehsil: Umrangso, District: Dima Hasao, Assam.

All the other terms and conditions mentioned by SEAC shall remain unchanged.

Copy To

1. The Secretary, Environment & Forest Department Govt. of Assam, Dispur Guwahati-6 Assam, Kamrup Metro, Assam, environmentforestassam@gmail.com
2. The Member Secretary, Assam Pollution Control Board, Bamunimaidam- 21 Assam, Kamrup Metro, Assam, membersecretary@pcbassam.org
3. The Scientist E, Integrated Regional Office Ministry of Environment Forest & Climate Change, 4th Floor Housefed Building G.S. Road Rukminigaon Guwahati-22, Kamrup Metro, Assam, iro.guwahati-mefcc@gov.in
4. The Principal Secretary, Dima Hasao Autonomous Council, Dima Hasao, Dima Hasao, Assam, psdhac@gmail.com
5. The Director, Geology & Mining, Govt Of Assam, Kamrup Metro, Assam, dgmassam@gmail.com
6. The Secretary, Department of Mines and Minerals, Govt Of Assam, Kamrup Metro, Assam, minesminerals.assam@gmail.com

7. The Divisional Forest Officer, Dima Hasao West Division, Dima Hasao, Dima Hasao, Assam, westforestdept@gmail.com
8. The District Collector, DC Office, Dima Hasao, Dima Hasao, Assam, dc-nchills@nic.in
9. The Ambuja Cements Limited, Ambuja Cements, Adani Corporate House Ahmadabad, Ahmadabad, Gujarat, sanjeevkumar.singh@adani.com
10. The Dalmia Bharat Green Vision Limited, Dalmia, Tiruchirapalli Tamilnadu Dalmia, Tiruchirappalli, Tamil Nadu, gautam.ajaykumar@dalmiabharat.com

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Specific & General Conditions By Seac

S. No	EC Conditions
1.1	A. Specific Conditions: The following specific conditions, shall be applicable to all the auctioned block of limestone (greenfield project) at North Boro Hundong, Umrangsoo, Dima Hasao, for which Environmental Clearances (ECs) were granted in the past by the SEIAA, Assam or (EAC) Non -Coal Mining, MoEF&CC, New Delhi for mining of mineral limestone or establishment of respective / related Cement Industry. It shall be the primary duty of all the LOI holders that, before start of mineral excavation from the mine / or setting up of the industry, a comprehensive-cluster study of the auctioned block of limestone needs to be conducted through a reputed institute like (NEERI /CIMFER /CSIR or any Government agency) and submitted to the SEIAA, Assam and other stakeholders, indicated herein below, as under - I. A study is to be conducted for assessment of Slope Stability of individual mines, as stipulated by the Indian Bureau of Mines, in particular (mining method as approved in Mine Plan) and its impact on the whole area with prescriptions as safeguard measures to be followed during operation of mines. II. Impact of Blasting (Noise & Vibration) of individual mines in particular (mining method as approved in Mine Plan) and its impact on the whole area including NEEPCO Dam with prescription as safeguard measures to be followed by individual mines during operation of all the mines located around each other having more or less same working hours with similar duration. The report shall also indicate categorically the safety barrier zone to be preserved as sacred between the River Kopili and the individual mines. A separate SoP shall be prepared and mooted out accordingly for the obvious reason that during the exact time of undertaking blasting activity, if the influence area falls within / intersects the adjacent mine, the <i>modus operandi</i> necessary to be meticulously followed by the adjacent mine owners, for safety and security purposes need to be strictly adhered to. These reports shall form the basis for taking due permissions for undertaking blasting from the DGMS. III. A comprehensive Hydro-geological Study of the area shall be conducted for all the mines together with the outcome scenario so as to make available the quantity of fresh drinking water / industrial use / plantation etc as committed in the EIA report. A roadmap of first five-year plan, clearly showing the source, is mandatory to be submitted. IV. A comprehensive Transport study (mines and industry together) shall be conducted for assessment and management of peak hour traffic generated on full operation of all the mines together, capacity of the road to absorb that traffic and suggestions for width of the road / pass road. The report must highlight the geometry of road / RoW from the auctioned block to the nearest state highway. V. A comprehensive air modelling with the worst (extreme) case scenario as impact during full operation of all the mines and industry needs to be submitted. The report must focus on the impact by transportation in terms of No₂, So₂, CO etc. along with PM 10 and PM 2.5 covering all the parameters of ambient quality.

S. No	EC Conditions
	VI. A comprehensive Disaster Management Plan may be requested to be got prepared by the State Disaster Management Authority keeping in view that the area falls under Zone V of earthquake with respect to proposed depth of limestone mining and in case of flooding of Kopili River. VII. Most Important : If any of the above VI reports suggest that an amendment / modification needs to be done in the mine plan /EIA report, it shall be the duty of the individual mine owner to comply with the same, else the EC granted to the PP shall be considered <i>void ab initio</i> or shall be revoked by the SEIAA at the risk and cost of the PP. A. To have a fair and transparent information working system in tandem by the mine owners, their compliance of the above specific conditions, it is expedient that the copy of the EC with the specific conditions stipulated here in are duly marked to all the stake holders (mine owners) including different competent authorities responsible to oversee the mining and other activities incidental there to e.g. Directorate of Geology and Mining, Govt of Assam; IBM, Regional Office, Guwahati; DGMS; Principal Secretary, Dima Hasao Autonomous Council; Department of Mines and Minerals, GoA; DFO, Dima Hasao, West Division; District Commissioner, Dima Hasao District, MoEF &CC, Regional Office, Guwahati; M/s. Ambuja Cements Limited (Proposal No: SIA/AS/MIN/556626/2025); Dalmia Bharat Green Vision Ltd (Proposal No. SIA/AS/MIN/556711/2025). B. General Conditions (Project Specific Conditions): I. The surface water testing report of Kopili river shall be resubmitted in the first half yearly compliance report (HCR) as a separate annexure, as the value was wrongly reported during presentation. II. The conservation plan is not prepared in consultation with the concerned DFO. The PP shall prepare the conservation plan with due consultation of the DFO. A revised conservation plan validating the items /expenditures etc. with its Budget as proposed, shall be submitted to the Chief Wild Life Warden, Assam and the SEIAA. The Functional Area Expert / Domain Expert of the NABET accredited Consultant shall conduct the field visit to validate the items of priority requiring conservation. III. The Items considered to be executed in the buffer area (falling in Meghalaya State) shall be resubmitted to the SEIAA in due course. IV. A buffer zone of 200 metres from the Kopili river shall be preserved <i>in situ</i> to function as barrier zone between the mine and the river. V. Plantation activities: Green belt has to be done in confirmation with the Notification dated 30.10.2025, as captive Lime stone mining falls in the Red Category industry as per the CPCB. The PP has to spell out the plantation area on Map as mandatory submission in consultation with the concerned DFO / Forest Department. Adequate land needs to be identified, preferably along the Kopili river Bank as a safety zone, to cover the area with greenery in a pragmatic and holistic manner. VI. The preferred species of plants for green belt development are Kadam (<i>Neolamarckia cadamba</i>), Uriam (<i>Bischofia javanica</i>), Agor (<i>Aquillaria malaccensis</i>), Chandan (<i>Santalum album</i>), Hilikha (<i>Terminalia chebula</i>), Sajina (<i>Moringa oleifera</i>), Baghnala (<i>Litsea glutinosa</i>), Bhat Ghila (<i>Oroxylum indicum</i>), Mahogany (<i>Swetenia mahgonii</i>), Gomari (<i>Gmelina arborea</i>), Siris (<i>Albizia lebeck</i>), Haldu (<i>Haldina cordifolia</i>), Cham (<i>Artocarpus chaplasha</i>), Bamboo spp etc etc. VII. To wean away the practice of shifting cultivation by the local populace by means of resorting to use of Multi cropping - scientific plantation involving local villagers is the necessity as Climate Change Adaptation and Mitigation measure. Multi cropping shall be comprising of the plant species Agar tree (<i>Aquillaria malaccensis</i>), Chandan (<i>Santalum album</i>), Tejpatta (<i>Cinnamomum tamala</i>), Arhar Dal (a bi-annual crop and Nitrogen fixing plant), Broom stick (<i>Thaoslana maxima</i>)-a soil binding grass of immense value which could be semi processed for value addition having a huge market in different parts of the country with Citrus spp and Pineapple Horticultural Crops of immense market potential. Cultivation of Black Pepper should also be encouraged to be taken up accordingly. The task on the part of PP shall be to make available the required number of plants through raising

S. No	EC Conditions
	of model Nursery at site for the tree species of plants under the guidance of DFO for optimum utilization of the land. An area of 20 Ha shall be undertaken for this activity with due consultation of the local villagers and the DFO. Required Budget accordingly be prepared and for guidance and monitoring of the activities for a productive investment the domain expert in the field of Agro forestry from the RFRI, Jorhat, GoI, if so advised, may be engaged to oversee the activities for proper implementation. VIII. The cost earmarked for the environmental safeguards contained in the Environment Management Plan (EMP), as approved against the Environment Management Plan, amounting to Rs 222 Lakh as Capital Cost and Rs 34.50 Lakh as recurring cost per year against each of the components and the Fund for Social aspects under the EMP shall have to be utilized and shall not be diverted for any other purposes and year wise expenditures both in constructional and operational phases shall be reported to the APCB, the SEIAA & the Regional Office, MoEF& CC, GoI, Guwahati along with the break up of expenditures for record and monitoring. Similarly, the approved cost as committed for physical targets during PH for an amount of INR 70 Lakh shall be accordingly be spent for the purpose. IX. The PP shall also undertake CER activity in Guwahati City under the ambit of National Action Plan on Climate Change (NAPCC) aligning with the National Clean Air Programme (NCAP) by installation of Algae Tree, a nature based Carbon Capture systems, an innovative and sustainable intervention for improving urban environmental quality. For this purpose, the PP shall work out a plan with the DFO, Wildlife Division, Guwahati and facilitate initial expenditures limiting to INR 30 Lakh enabling initial phase of implementation, establishing a demonstrative model for wider replication within the financial year. X. In terms of the orders passed by the Hon'ble Apex Court of India in WP (C) No114/2014 Common Cause and Ors -vs- Union of India and Ors, the PP shall RE-GRASS the mining area including other adjoining area used for the purposes of mining activity and shall restore the land with plantation activities with plants of fodder species, fruit bearing species, Bamboo species etc etc. XI. The PP shall adhere to the conditions stipulated in the Consent to establish (CTE) and Consent to Operate (CTO) from Assam Pollution Control Board under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981, as applicable before starting of the activities and during the period of undertaking activities respectively. XII. All the above conditions shall form part of the CER activities and shall be complied with in a time bound manner and Half Yearly Compliance Reports (HCR) are mandatory on the part of project Proponent which need to be uploaded on or before 1st June and 1st December of the calendar year in PARIVESH 2.0 portal. XIII. It shall be bounden on the project Proponent to upload the Half Yearly Compliance Report (HCR) in terms of the guidelines circulated under OM No. IA3-22/1/2022-IA.III Dated 14.06.2024 by the Ministry in the MoEF & CC, GoI. (A) General Conditions: - The project proponent shall develop a green belt/plantation area with native trees only at least 33% of the total plot area to develop Green Belt and Carbon Sink. - Mine reclamation shall be prepared and submit. - Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects - The project authority should implement the CSR & EMP Plan properly. (B) Air Aspects: - The project authority should install Continuous Ambient Air Quality Monitoring Station at the project site to provide real time Air Quality Data at CPCB & APCB. - The unit shall comply with the ambient noise level standard, notified by MoEF & CC, GOI vide GSR 7, dated Dec.22, 1998. - The Ambient Air Quality, within the mining and surrounding areas shall be maintained within the

S. No	EC Conditions
	National Ambient Air Quality Standards, as notified by MoEF & CC, vide G.S.R.826 (E) dtd.18.11.2009, especially with respect to PM 10, PM2.5, SO2, NO2. d) The unit shall install mist cannon at mining area for control of dust. e) The following pollution control measures shall be implemented by the authority. • Dust containment cum suppression system at all material transfer and dropping points. • Construction of the metallic haul roads within the premises. • Regular cleaning and water sprinkling at the ground and in the haul roads. f) Water Aspects: • Garland drain of adequate cross section shall be made for both mine pit and waste dump. • Regular monitoring of natural water course/ water resource/springs and perennial nallahs existing/flowing in and around the mine lease shall be undertaken and records shall be maintained. • The waste water from the mine shall be treated to conform to the prescribed standards before discharging into the natural stream. g) Solid Waste Aspects: • Top soil is stacked properly. • Over burden dumps (OBD) shall be properly managed. • Adequate system should be adopted on reduction of waste generation and enhanced utilization and recycling of waste materials. • The unit shall be strictly complying with all the provisions of the Solid Waste Management Rules 2016. h) E-Waste Aspects: The unit shall comply with the provisions of E-Waste Management Rules, 2022. (C) Hazardous Waste Aspects: a) Authorization under Hazardous and Other Wastes (Management & Trans-boundary Movement) Rules, 2016 shall be obtained from the Board. b) The project authorities shall comply with the provisions of the said Rules. c) Adequate facility shall be provided for collection and storage of used/ spent oil, which shall be sent to registered recyclers for recycling. d) The unit shall dispose of any other Hazardous Waste generated by the unit as per the provisions of the Rules. e) The unit shall identify and quantify all streams of Hazardous Waste generation as per Schedule-I and maintain proper record in Form-III of the said Rules. f) The unit should submit the annual return under the Rule in the Form-IV within 30th June every year.

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

S. No	EC Conditions
1.1	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
1.2	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining

S. No	EC Conditions
	lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.
1.3	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
1.4	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
1.5	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
1.6	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area."
1.7	This Environmental Clearance (EC) is subject to orders/ judgment of Honble Supreme Court of India, Honble High Court, Honble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
1.8	State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.
2.2	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at

S. No	EC Conditions
	specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

3. Water Quality Monitoring And Preservation

S. No	EC Conditions
3.1	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.
3.2	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
3.3	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
3.4	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
3.5	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
3.6	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control

S. No	EC Conditions
	Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
3.7	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

4. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
4.1	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.
4.2	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
4.3	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

5. Mining Plan

S. No	EC Conditions
5.1	The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).
5.2	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

6. Land Reclamation

S. No	EC Conditions
6.1	The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.
6.2	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
6.3	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
6.4	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.

7. Transportation

S. No	EC Conditions
7.1	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].
7.2	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression

S. No	EC Conditions
	arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

8. Green Belt

S. No	EC Conditions
8.1	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.

9. Miscellaneous

S. No	EC Conditions
9.1	Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
9.2	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 and any other Court of Law relating to the subject matter.
9.3	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.
9.4	The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
9.5	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.
9.6	In pursuant to Ministrys O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Honble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
9.7	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area

S. No	EC Conditions
	once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.
9.8	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
9.9	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.
9.10	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

