

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
EASTERN ZONE BENCH AT KOLKATA
ORIGINAL JURISDICTION
O.A. NO. 186 OF 2023**

IN THE MATTER OF:

Analson Sangma ... Applicant

Versus

State of Meghalaya & Ors. ... Respondents

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Filed By:

Dated: 03.03.2024



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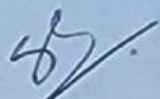
Analson Sangma ... Applicant
Versus
State of Meghalaya &Ors. ... Respondents

AFFIDAVIT ON BEHALF OF RESPONDENT NO. 1

I, Shivansh Awasthi, IAS, the Deputy Commissioner of South Garo Hills District, Baghmara, Government of Meghalaya having office at the Deputy Commissioner Office, South Garo Hills District, Baghmara, Meghalaya – 794 102, do hereby solemnly affirm and state as under:

- 1. That I am the Respondent No.2 in the captioned case and as such being conversant with the facts and records of the present case in my official capacity, I am competent and authorized to swear this affidavit.
- 2. That this Hon'ble Tribunal has been pleased to constitute a committee vide order dated 04.01.2024 and has directed the undersigned to place on record the report of the said committee by way of affidavit of the deponent herein.


Executive Magistrate,
South Garo Hills, Baghmara


Deputy Commissioner
South Garo Hills,
Baghmara

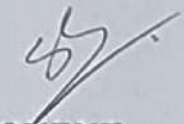
3. That the committee of experts constituted by this Hon'ble Tribunal carried out physical inspection of the area in question on 02.02.2024 and has submitted its report to the deponent herein along with certain recommendations. A copy of Report of the Committee constituted by this Hon'ble Tribunal vide order dated 04.01.2024 along with its annexures is annexed herewith and marked as **ANNEXURE R-1**.
4. That it is most respectfully submitted that the State is obliged to take action in accordance with law, as this Hon'ble Tribunal may deem fit and proper in the facts and circumstances of the case.

It is prayed accordingly.

VERIFICATION:

Verified on this 03rd day of March 2024 that the content of the above affidavit is true and correct to the best of my knowledge and belief based on official records of the Government of Meghalaya and that nothing is false and nothing material is concealed therefrom.


Executive Magistrate,
South Garo Hills, Baghmara


DEPONENT
Deputy Commissioner
South Garo Hills,
Baghmara



**REPORT OF THE COMMITTEE VISIT TO THE STONE QUARRY OF M/S ALPHA D. MARAK,
LOCATED AT BUDUGRE, CHOKPOT, SOUTH GARO HILLS DISTRICT CONDUCTED ON 02/02/2024**

In pursuance of Hon'ble NGT O. A. No. 186/2023/EZ Analson Sangma Vs State of Meghalaya dated 09.01.2024, the Committee comprising of Sh. S. Swer, Senior Scientist, Meghalaya State Pollution Control Board, Sh. M. K. Choudhury, Scientist-F, Regional Directorate (NE), Central Pollution Control Board, Shillong and Dr. W. C. R. Marak, Additional Deputy Commissioner, South Garo Hills District, visited the site of the Stone Quarry of M/s Alpha D. Marak, located at Budugre, Chokpot, South Garo Hills District, on the 2nd of February, 2024, and conducted inspection.

Description of Stone Quarry:

As per document(s) submitted to the Meghalaya State Pollution Control Board (MSPCB) for Consent to Establish, the Stone Quarry was established by M/S Alpha D. Marak Building Stone Mine and covers an area of 4.80 Hectare with production capacity of 294030 MTPA located at Budugre, Chokpot, South Garo Hills District, at a Project cost of Rs. 24.50 lakhs (Twenty Four Lakhs and Fifty Thousand) only.

List of documents, in chronological order, relating to permission, establishment & commission etc. of the Stone Quarry:

1. The Divisional Forest Officer, Social Forestry & Territorial Division, South Garo Hills, Baghmara, issued to M/S Alpha D. Marak the "Letter of Intent (LOI) issued for granting of mining lease under Meghalaya Minor Minerals Concession Rules, 2016, for stone quarry at Budugre village, Chokpot, South Garo Hills," vide No. SF&T/SGH/Stone/T/95 dated Baghmara dt. 04/04/2019. (Annexure - I)
2. The Member Secretary, SEIAA, Meghalaya, issued to M/s Alpha D. Marak, the "Grant of Environmental Clearance to proposal No. SIA/ML/MIN/43349/2019 for Environmental Clearance for mining of boulderstone for an area of 4.8 hectare located at Budugre, Chokpot, District South Garo Hills, Meghalaya, submitted online by M/s Alpha Marak," vide No. ML/SEIAA/MIN/SGH/P-46/2020/1642 dated 10/09/2020. (Annexure-II)
3. The Member Secretary, Meghalaya State Pollution Control Board, Shillong, granted "Consent To Establish" to M/S Alpha D. Marak Building Stone Mine vide No. MPCB/TB-ONLINE-CTE(GH)/2020-2021/24 dated 09/10/ 2020. (Annexure-III)
4. The Divisional Forest Officer, Social Forestry & Territorial Division, South Garo Hills, Baghmara, issued to M/s Alpha D. Marak, the "Grant of mining lease for stone quarrying on 4.80 ha of area at Budugre, Chokpot, South Garo Hills District in favour of Smt. Alpha D. Marak," vide No. SGH/SF&T/Min Lease/150/1/2032 dated Baghmara, the 19/02/2021. (Annexure-IV)

5. The Member Secretary, Meghalaya State Pollution Control Board, Shillong, granted "Consent To Operate" to M/S Alpha D. Marak Building Stone Mine, vide No. MSPCB/ONLINE-CTO(GH)/2020-2021/32 dated 31/03/2021. (Annexure-V)
6. The Member Secretary, Meghalaya State Pollution Control Board, Shillong, granted "Renewal of Consent to Operate" to M/S Alpha D. Marak Building Stone Mine vide No. MPCB/ONLINE-RCTO(R-I)/SGH/2022-2023/1 dated 13/01/2023. (Annexure-VI)
7. The Chairman, Meghalaya State Pollution Control Board, Shillong, issued "Show Cause Notice" to M/S Alpha D. Marak Building Stone Mine, vide No. MPCB/TB-7(H)/2023-2024/11 dated 29/01/2024. (Annexure-VII)

Consent(s) granted to Stone Quarry by the MSPCB & Action taken thereof:

1. The Stone Quarry namely M/S Alpha D. Marak Building Stone Mine was issued "Consent To Establish (CTE)" by the Meghalaya State Pollution Control Board vide No. MPCB/TB-ONLINE-CTE(GH)/2020-2021/24 dated 09/10/2020. (Annexure-III)
2. Subsequently "Consent to Operate (CTO)" was issued vide No. MSPCB/ONLINE-CTO(GH)/2020-2021/32 dated 31/03/2021. (Annexure-V)
3. "Renewal of Consent to Operate (RCTO)" was also issued vide No. MPCB/ONLINE-RCTO(R-I)/SGH/2022-2023/1 dated 13/01/2023. (Annexure-VI)
4. However, based on an inspection carried out on 06/12/2023, the MSPCB issued "Show Cause Notice" to M/s Alpha D Marak Building Stone Mine for violations of specific conditions mentioned in CTO vide No. MPCB/TB-7(H)/2023-2024/11 dated 29/01/2024 (Annexure-VII).

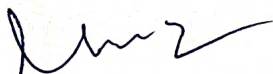
Observations of the Committee:


1. The Quarry is situated on top of a steep hill surrounded by thick vegetation. It is located about 150 meters away from the main road and some 200 meters away from the nearest habitation.
2. The river Dareng, an important river in the area, is located about 100 meters away from the quarry and one can clearly hear the sound of the river from the quarry site. Water from this river is used by the locals for domestic purposes like drinking, irrigation, washing clothes, bathing etc.
3. Trees that have been felled were still lying on the ground wasting away in the vicinity of the quarry especially towards the slope.
4. The overburden of large amount of rock and soil was observed due to mining activities which posing threat to flow run off into the river Dareng for causing siltation and water pollution in the river especially during rainy seasons.


5. The stability of the approach road used for traversing of vehicles for mining activity is questionable as it was observed, the earth (soil) used for laying the road is not properly compacted and is in danger of giving way.
6. At the time of visit, the committee did not find any person, machinery or detect any mining activity at the quarry site.

Recommendations of the Committee:

1. Assessment of damage to trees, flora and fauna as well as degradation of soil due to the mining activity required to be assessed by concerned Departments.
2. Proper safety measure like retaining wall, drainage system and settling tank etc. should be constructed to arrest landslide and runoff in downhill especially during rainy season.
3. Approach road needs to be properly compacted and stabilized to prevent erosion and landslide. Plantation (avenue plantation) along the haul roads should be carried out in consultation with the Forest Department.
4. Monitoring of water quality, ambient air and noise level is to be conducted by the Meghalaya State Pollution Control Board, in order to assess the environmental damage due to the mining activity. The charges/expenses towards the said monitoring is to be borne by the project proponent.
5. Submission of restoration plan including the reuse of the area after quarrying should be submitted for approval.


Sh. M. K. Choudhury
Scientist-F,
CPCB-RD Shillong


Sh. S. Sarker
Senior Scientist,
MSPCB, Shillong
Senior Scientist


Dr. W. C. R. Marak
Addl. Deputy Commissioner
Baghmara
Addl. Deputy Commissioner,
South Garo Hills,
Baghmara

एम. के. चौधुरी / M. K. Choudhury
वैज्ञानिक / Scientist F

Meghalaya State Pollution Control Board
(Forests & Env. Dept., Govt. of Meghalaya)
Lumphynggad, Shillong-793014

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
(पर्यावरण एवं जलवायु परिवर्तन विभाग, भारत सरकार)
(Ministry of Environment, Forest & Climate Change, Govt. of India)
क्षेत्रीय निदेशालय - शिलांग
Regional Directorate - Shillong
बी एस एन एल, एन ई - 1, टेलीकॉम सर्कल, सी टी ओ भवन, शिलांग - 793001
BSNL NE - 1, Telecom Circle, CTO Building, Shillong - 793001

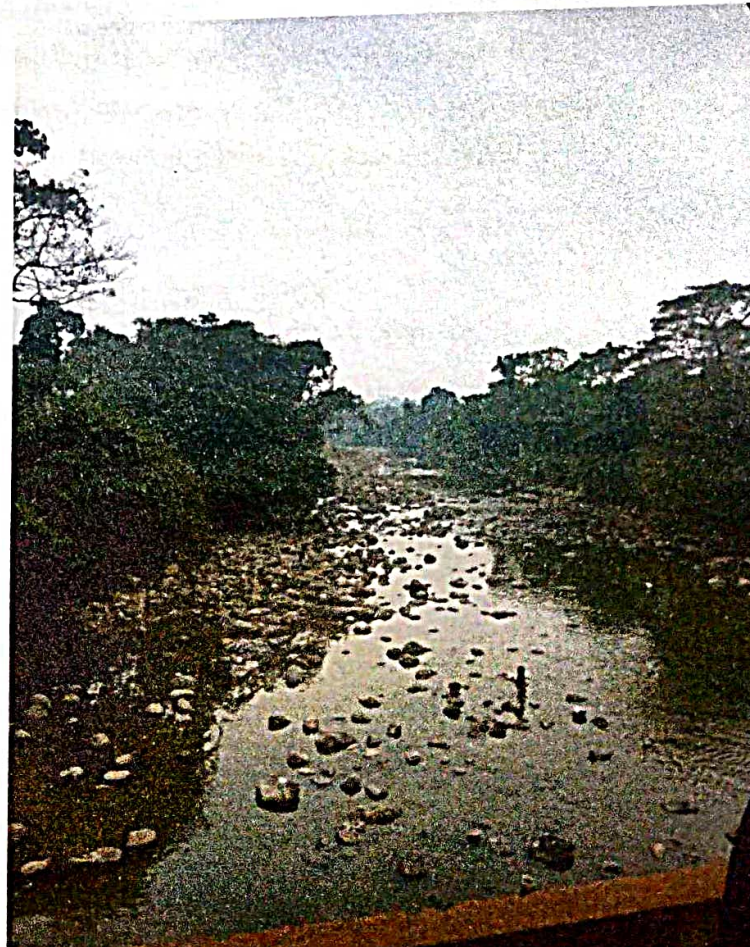
Felled trees lying on the ground



Overburden of rock & soil spillage:



The Dareng river:





GOVERNMENT OF MEGHALAYA
OFFICE OF THE DIVISIONAL FOREST OFFICER::SOCIAL FORESTRY & TERRITORIAL DIVISION
SOUTH GARO HILLS, BAGHMARA

No.SF&T/SGH/Stone/T/ 95

Dated Baghmara, the 4th April, 2019.

To,

Smt. Alpha D.Marak
Umpling, Dongsharum,
East Khasi Hills, Meghalaya.
Shillong- 793006.

Subject: Letter of Intent (LOI) issued for granting of mining lease under Meghalaya Minor Mineral Concession Rules, 2016 for stone quarry at Budugre village, Chokpot, South Garo Hills.

Ref: Your application dated 23rd March, 2019.

Madam,

With reference to the subject cited above, I do hereby issue Letter of Intent (LOI) for granting mining lease under the Meghalaya Minor Mineral Concession Rules, 2016 for stone quarry mining on area of 4.80 hectares at Budugre village under Chokpot Block, South Garo Hills District. On receipt of this Letter of Intent, you must obtain and kindly furnish the following documents for grant of mining lease within a period of six months.

- 1) Mining Plan duly approved by Divisional mining Officer.
- 2) Environmental clearance under the Environmental (Protection) Act, 1986.
- 3) Consent to establish under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.
- 4) Clearance from Revenue and Disaster department.
- 5) Clearance from Labour Department for occupational Health and Labour Laws including Child Labour.

This is for favour of kind information and necessary action.

Yours faithfully

APPROVED

Divisional Mining Officer
East Garo Hills, Williamnagar.

M. Sangma
(Shri M.M.Sangma, MFS)
Divisional Forest Officer
Social Forestry & Territorial Division
South Garo Hills, Baghmara



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

:: SEIAA : MEGHALAYA ::

'Silviculture Building' (Adjacent Sylvan House), Lower Lachumiere, Shillong - 793 001
Email : ms.seiaamegh@gmail.com.

No. ML/SEIAA/MIN/SGH/T-46/2020/1642

Dated Shillong, the 10th Sept., 2020.

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

To, Smt. Alpha D Marak.
R/o- Umpling Dong Sharun,
Shillong.

Subject : Grant of Environmental Clearance to Proposal No. SIA/ML/MIN/43349/2019
for Environment Clearance for mining of boulderstone for an area of 4.8
hectare located at Budugre, Chokpot, District South Garo Hills, Meghalaya,
Meghalaya submitted online by Smt. Alpha Marak.

Madam,

This has a reference to your EC online application mentioned above for Environment Clearance for mining of boulderstone, area of 4.8 hectare and located at Budugre, Chokpot, District South Garo Hills, Meghalaya, Meghalaya.

The proposed project activity is listed at Sl. No. 1(a) Mining of minerals, under Category "B2 " of EIA Notification 2006. The boulder-stone will be used for construction purposes. The proposed land is on lease for 30 years which was executed on 24th October 2018 and certified by the Notary, Tura West Garo Hills. The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Social Forestry and Territorial Division, Baghmara vide letter No. SF&T /SGH/NOC/STONE/T /25 dated the 7th March 2019 and as per the Non Forest Land certificate, the kml file and the approved mining plan duly examined by SEAC, Meghalaya the project falls under toposheet Survey of India No. 78K/7 within the following GPS Coordinates:

Pillar No	Latitude	Longitude
1	25°22'01.54"N	90°26'06.82"E
2	25°22'04.41 "N	90°26'05.51 "E
3	25°22'08.24"N	90°26'15.64"E
4	25°22'08.26"N	90°26'20.69"E
5	25°22'05.05"N	90°26'20.57"E

The project proponent submitted approved mining plan by the Divisional Mining Officer, East Garo Hills, Williamnagar, Government of Meghalaya, vide letter no. DMO-W /MP /13/2019 /27 dated Williamnagar, the 10th May 2019.

The Mining Plan has been prepared to extract boulder stone at 3,50,590 MT per annum and 14,70,170 MT for 5 years with a project cost of Rs 24,50,000.00 and the operations will be open cast, semi-mechanized method of mining. The total mineable reserve would be 3432700 Tonnes with 350590 MT as an average annual production. The balance mineable reserves at the end of the plan period is 1962530 tones, taking the target production per year to 350590 tones, the balance reserve is sufficient for 5.59 years. Thus the present reserves are sufficient for 10.59 (approx. 11 years). The mine falls within the parameter of the District Survey Report related to South Garo Hills District.

The project proponent has obtained a Cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar, Government of Meghalaya, vide letter No.DMO-W/MP/15/2019/65 dated Williamnagar, the 25th July 2019, where it is mentioned that there is no approved mining plans located within 500 metres. Hence the proposed mining area does not fall under cluster category.

The Committee mentioned that the project is located approximately 7.96 km aerial distance from the Nokrek National Park and vide the Environment Impact Assessment notification of the Government of India in the erstwhile Ministry of Environment and Forests, No. S.O. 1533(E), dated the 14th September, 2006, and its subsequent amendment from time to time and the Committee observed that the amendment vide notification No. S.O. 3977(E) dated New Delhi, the 14th August 2018, in the schedule for item 1 (a), 1(c) and the schematic presentation of requirements on Environmental Clearance of minor mineral where it is mentioned that under 1(a), the General Condition is exempted (i) for project or activity of mining of minor minerals of category "B2" (up-to 25 hectare of mining lease area).

The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 10th & 11th August, 2020. The Minutes of the SEAC's Meeting was uploaded on 24th August, 2020 and as per the Agenda- 18, the SEAC recommended for grant of EC to this project.

The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 1st September, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project. Then the SEIAA in the said meeting, unanimously accepted the recommendation of the SEAC and resolved to grant Environment Clearance to the project.

Accordingly, Environmental Clearance is hereby accorded for the above project on 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 stipulated in "Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019, as follows :-

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I. Statutory compliance

- 1) This Environmental Clearance (EC) is subject to Orders/ Judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 2) The Project proponent shall comply 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.
- 3) 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.
- 4) This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, *if applicable* to the Project.
- 5) Project Proponent (PP) shall obtain Consent to Establish/Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish/ Consent to Operate from the Meghalaya State Pollution Control Board.
- 6) The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- 7) The Project Proponent shall obtain Consent from all the concerned land owners, before start mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- 8) 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".
- 9) The Project Proponent shall obtain necessary prior permission of the Competent Authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for project.
- 10) 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.
- 11) State Pollution Control Board shall be responsible for display of this EC letter at its Regional offices, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- 12) The project Authorities should widely advertise shall be responsible for display 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 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 SEIAA and concerned MoEFCC Regional Office for compliance and record.

- 13) The project Proponent shall inform the SEIAA for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operations shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.
- 14) The mining lease holders shall after ceasing mining operations, undertake re-grassing the mining areas and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna, etc.

II. Air quality monitoring and preservation.

- 1) The Project Proponent will undertake Ambient Air Quality Monitoring, especially on 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.
- 2) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled 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 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.

III. Water quality monitoring and preservation

- 1) 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.
- 2) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table. 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) 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 wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Development. The Report on changes in Ground

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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.

- 4) 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 and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within nearby/adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. 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 Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
- 5) Quality of polluted water generated from mining operations 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.
- 6) 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.
- 7) 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.
- 8) 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.

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IV. Noise and vibration monitoring and prevention

- 1) The Peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- 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 operation. 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.
- 3) 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.

V. Mining plan

- 1) The project Proponent shall adhere to the working parameters of mining plan which submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of minerals, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- 2) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- 3) 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 the 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 SEIAA and MoEF&CC Regional Office.

HC

VI. Land reclamation

- 1) The Overburden (O.B.) 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 dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- 2) The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain stability of waste dumps.
- 3) The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
- 4) 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 regulated local climatic parameters and help in the 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.
- 5) The Project Proponent shall carry slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
- 6) 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/ Rivers/ 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 the monsoon season, and maintained properly.
- 7) 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.
- 8) The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like heights, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps . The topsoil shall be used for land reclamation and plantation purposes.

VII. Transportation

- 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.
- 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 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.

VIII. Green Belts

- 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 EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- 2) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed areas of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- 3) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such



grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be protected.

- 4) The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt., and be implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

IX. Public hearing and human health issues

- 1) The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carry out Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.
- 2) The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anemia, and Diarrhea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carry out base line HRA for all the category of workers and thereafter every five years.
- 3) The Proponent carry out Occupational health surveillance which be a part of HRA, and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes (and not the digital one.). X-ray must meet ILO criteria (17 x 14 inches and of good quality.).
- 4) The Proponent shall maintain a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5-24.9, (b) the Final Chest X-Ray compared with base line X-Ray should not

- show any capacities, (c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEC1), Forced Vital Capacity (FVC), and the ratio unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with the details of the relief and compensation paid to workers having above indications.
- 5) The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
 - 6) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned lands) with necessary basic infrastructure/facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.

X. Corporate Environment Responsibility (CER)

- 1) The activities and budget earmarked for Corporate Environment Responsibility (CER) as per Ministry's O.M No. 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.
- 2) Project proponent shall keep the funds earmarked for environment protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported the SEIAA and the concerned Regional office, MoEF&CC.

XI. Miscellaneous

- 1) In view of MoEF& CC, IA Division, New Delhi Office Memorandum F No. L-11011/175/2018-IA-II (M) dated 12th December 2018, if in future the lease area of this project proposal falls in the Cluster, i.e. total lease area of the Cluster including this lease holder is more than 5 ha., the project proponent(s) shall extend all support including financial contribution or otherwise to cluster partners who undertake EIA for cluster EMP of the area. The EMP for the Cluster shall be prepared as per Notifications/Rules for Cluster situation notified from time - to - time by MoEF&CC. 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(s) including all lease holders in the cluster including

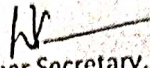
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- lease holder/ holders who have already been accorded Environmental Clearance prior to forming of the Cluster.
- 2) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years for the purpose of monitoring land use pattern and submit a report to the SEIAA and the Regional Office of the MoEFCC, Shillong.
 - 3) 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. Copy of the same shall be forwarded to the SEIAA.
 - 4) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEFCC, Regional Office, Shillong, the Regional office Central Pollution Control Board, Shillong and Meghalaya State Pollution Control Board with intimation to the SEIAA.
 - 5) As per the State Govt. letter No.FOR.68/2014/524 dtd.14.12.2015, PP to contribute @ 10% of the sale proceeds and should be deposited to the respective Divisional Forest Officer (Territorial) at the time of collection of forest royalty in the name of Meghalaya Minor Mineral Reclamation Fund (MMMRF).
 - 6) The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions and forward a copy of the Monitoring Report to the SEIAA. The project authorities should extend full cooperation to the MoEFCC Officer(s)
 - 7) The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities. Conditions stipulated by these Statutory/Government authorities shall be complied.
 - 8) The SEIAA may alter/modify the above conditions or stipulate new conditions in the interest of environment protection in consultation with the SEAC or alter/modify/add conditions on direction/ruling by the Hon'ble Courts /NGT.
 - 9) Concealing the factual data or failure to comply to any of the above condition by PP and if it is found or if it come to the knowledge of the MoEF&CC/SEIAA that the Project Proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the Environmental Clearance, may result in withdrawal of this clearance and the SEIAA may take action under the provisions of Environment (Protection) Act, 1986.

Any appeal against this Environmental Clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



Since the validity periods of the approved Mining Plan is five years, hence the validity of this Environmental Clearance is for 5(five) years from the date of issue.



Member Secretary,
SEIAA, Meghalaya.

MemoNo.ML/SEIAA/MIN/SGH/P-46/2020/ A

Dated Shillong, the Sept.,2020.

Copy to :-

- 1) The Secretary, Ministry of Mines, Govt. of India, ShastriBhawan, New Delhi, - 110 003.
- 2) The Principal Chief Conservator of Forests and HoFF Meghalaya, Shillong.
- 3) The Principal Secretary to the Govt. Meghalaya, Forests & Environment Department, Shillong.
- 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, ParyavaranBhavan, CGO Complex, Lodhi Road, New Delhi - 110 003, for information.
- 6) The Deputy Commissioner, South Garo Hills, Baghmara for information.
- 7) The Conservator of Forest, Wild Life, Sylvan House, Lower Lachumiere, Shillong.
- 8) The Divisional Forest Officer, Social Forestry and Territorial Division, Baghmara for information and necessary action.
- 9) The Member Secretary, State Expert Appraisal Committee, Meghalaya for information.
- 10) The Director, Mineral Resources, Meghalaya, Shillong, for information.
- 11) The Member Secretary, Meghalaya Pollution Control Board, 'Arden', Lumpyngngad, Shillong - 793 014 for information and necessary action.
- 12) The Secretary, Garo Hills Autonomous District Council, Tura for information.
- 13) Guard File


Member Secretary,
SEIAA, Meghalaya



(24)

Meghalaya State Pollution Control Board
Forests & Environment Department, Government of Meghalaya
'ARDEN' Lumpyngngad, Shillong-793014
Website: <http://megspcb.gov.in>



No. M/PCB/EB-ONLINE-CTE(GH)/2020-2021/24

Dated Shillong, the 9th October, 2020

CONSENT TO ESTABLISH

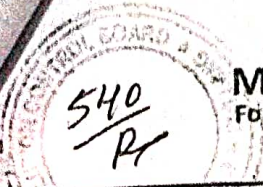
CONSENT TO ESTABLISH under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended (to be referred as Water Act and Air Act respectively).

CONSENT is granted to **M/S ALPHA D. MARAK BUILDING STONE MINE** for establishing a Stone Quarry over an area of 4.80 Ha with production capacity 294030 MTPA located at Budugre, Chokpot, South Garo Hills District and a Project cost of ₹ 24.50 lakhs (Rupees Twenty Four Lakhs and Fifty Thousand) only under the following terms and conditions:

1. This Consent has been accorded based on the particulars furnished by the applicant on behalf of **M/S ALPHA D. MARAK BUILDING STONE MINE** and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice;
2. The Consent to Establish is valid for a period up to **30th September, 2021** unless otherwise suspended or revoked. The validity period shall be extended if necessary till such time the unit is in operation;
3. This Consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - (a) Violation of any Terms and Conditions of this Consent;
 - (b) Obtaining the Consent by misrepresentation or failure to disclose fully all relevant facts;
 - (c) A change in any condition that require temporary or permanent reduction or elimination of the authorized discharge/emission;
4. This Consent does not convey any property right in either real or personal property or any exclusive privileges, nor does it authorizes any injury to private property or any invasion of personal rights, nor any infringement of Central State or Local Laws or Regulation;
5. No air, water and soil pollution shall be created by the Industry beyond the prescribed permissible limits;
6. The industry shall take adequate measures for control of noise from all sources so as to comply with the Standards below:

LIMIT in dB (A) LEQ	
DAY TIME (6:00AM-9:00PM)	NIGHT TIME (9:00PM-6:00AM)
75	70
7. To maintain the environment and ecology of the area, development of green belt by planting selected species of trees, the height of which should not be less than 5 (five) metres when matured and at a spacing of 1 (One) metre should be made invariably at an area of 15 ha around the mine and 2.0 ha around the colony;

o/c



8. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981 as amended that any Officer empowered by the Board on its behalf shall have without interruption, the right at any time to enter the Plant/factory/for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial this right will cause withdrawal of the Consent Order;
9. The Company shall comply with all the environment protection measures and safeguards recommended in the approved mining plan
10. The caves should be preserved, if encountered in the area shall have to be reported to the Board immediately.
11. The company shall comply with all the Terms & Conditions of the Environmental Clearance granted by the State Environment Impact Assessment Authority, East Khasi Hills District, Shillong vide No. ML/SEIAA/MIN/SGH/P-46/2020/1642 Dt. 10th Sept,2020 and implement the Environment protection measures and safeguards incorporated in the EIA/EMP.

II. Specific Conditions:

A. Prevention & Control of Water Pollution:

The following measures should be taken up by the industry for prevention and control of water pollution:

1. Check dams/tailing dams should be provided wherever necessary to prevent the direct discharge of mine's effluent/run off etc. into the natural water courses.
2. Facilities should be maintained for utilizing the water collected in the dams for spraying of the mine, haul roads, etc. but not to discharge directly into the natural streams without proper treatments so as to conform to the prescribed effluent standards.
3. Dumping of overburden, mine spoils etc. should be properly made in identified and demarcated Sites. Such dumping sites should be on impervious and stable ground to avoid percolation of contaminations into the water table and for prevention of landslides.
4. Proper planning should be made so that the dumps are to be done in steps for better stabilization and the dumping sequence should be planned in such a way that plantation over the dumps can be done simultaneously with dumping.
5. Continuous compacting of the dumps should be done to ensure its stability.
6. Sedimental basin below the overburden dumps including plantation and vegetation over the dumps should be maintained to prevent siltation of the natural water courses.
7. Facilities should be maintained for storing the top soil separately so that the same be utilized for afforestation/plantation over the dumps and excavated mines pits.
8. Setting up of requisite number of permanent water quality monitoring stations on the natural water courses both upstream & downstream and selection of sampling points/stations should be made in consultation with this Board at the earliest.

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B. Prevention and Control of Air & Noise Pollution:

1. Setting up & operation of at least three ambient air quality monitoring station with 120° angle between stations for monitoring the ambient air quality including micro meteorological data should be done immediately. Selection of station should be done in consultation with this Board.
2. The Ambient Air Quality within the Plant premises and surrounding areas should be maintained within the National Ambient Air Quality Standards prescribed below:-

Sl. No.	Pollutants	Time Weighted average	Concentration in Ambient Air (Industrial, Residential, Rural Areas) $\mu\text{g}/\text{m}^3$
1.	SO ₂	Annual 24 hours	50 80
2.	NO ₂	Annual 24 hours	40 80
3.	Particulate Matter, PM ₁₀ (size less than 10 μm)	Annual 24 hours	60 100
4.	Particulate Matter, PM _{2.5} (size less than 2.5 μm)	Annual 24 hours	40 60

3. A well equipped mechanical workshop should be maintained for proper maintenance of heavy earth movable machineries (HEMM). Fuel/air burning ratio of all the HEMM is to maintained at an optimum condition so as to reduce air pollution from the exhaust emission of these machineries.
4. Regular checking of the exhaust emission from HEMM should be conducted by using requisite instruments for the purpose.
5. If dry drilling is to be employed, appropriate dust collectors should be provided to control the concentration of suspended particulate matters in the emission.
6. Plantation along the haul roads to reduce dust retention in the air should be maintained.
7. Proper maintenance, lubrication etc. of all moving machineries should be maintained and all engines should be provided with high efficiency silencers.
8. Primary blasting methods should be chosen in such a way so as to have a minimum impact of noise and vibration on the environment.
9. Usage of hydraulic rock breaker for boulder breaking instead of conventional secondary blasting to minimize noise pollution should be adopted as far as practicable.
10. Adequate measures taken should be made to minimize the air blast so that the blast size is kept at the optimum for less noise.
11. Periodic monitoring of noise and vibration level should be conducted by following prescribed norms & measuring instruments for the purpose.



Meghalaya State Pollution Control Board


Forests & Environment Department, Government of Meghalaya
 'ARDEN' Lumpynggad, Shillong-793014
 Website: <http://megspcb.gov.in>



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12. The optimum stemming column is to be maintained so that explosives are blasted in confinement stage.

A detailed Report of Compliance to all the Terms and Conditions stipulated in this Consent should be submitted along with the application for grant of the Consent to Operate before operation of the quarry.


MEMBER SECRETARY
 Meghalaya State Pollution Control Board
 Shillong

Copy to: -

1. The Member Secretary, State Environment Impact Assessment Authority, Shillong, East Khasi Hills District, for favour of information.
2. The Deputy Commissioner, South Garo Hills District
3. The Director of Mineral Resources, Meghalaya, Shillong for information and necessary action.
4. The Division Forest Officer, South Garo Hills (T) Division, Baghmara for favour of information and necessary action.
5. M/S ALPHA D. MARAK BUILDING STONE MINE, C/o Smt. Alpha D. Marak, Umpling, Dongsharum, East Khasi Hills District, Meghalaya for favour of information and necessary action.
6. Guard File TB-ONLINE-CTE(2020).

GOVERNMENT OF MEGHALAYA
OFFICE OF THE DIVISIONAL FOREST OFFICER: SOCIAL FORESTRY & TERRITORIAL DIVISION
SOUTH GARO HILLS: BAGHMARA

No. SGH/SF&T/Min Lease/150/1/2022 Dated Baghmara, the 19th February, 2021.

From: The Divisional Forest Officer
Social Forestry & Territorial Division
South Garo Hills, Baghmara

Annexure - 1

To: Smti. Alpha D. Marak
R/o Umpling Dongsharum
East Khasi Hills, Shillong.

Subject: Grant of mining lease for stone quarrying on 4.80 ha of area at Budugre, Chokpot, South Garo Hills District in favour of Smt. Alpha D. Marak.

Sir/Madam,

In exercise of the power conferred to in rule 5 (2)(a) of the Meghalaya Minor Mineral Concession Rule, 2016 and as per Government Notification No.FOR.135/2015/661, Dated 16th November, 2016 the mining lease is hereby granted to Smt. Alpha D. Marak.

The mining operation shall be undertaken in accordance with the duly approved Mining Plan with the following conditions.

1. The area of the mine shall not exceed the 4.80 ha bounded by these GPS Co-ordinates.

Latitude: 25°22'1.54"N, Longitude: 90°26'06.82"E

Latitude: 25°22'4.41"N, Longitude: 90°26'05.51"E

Latitude: 25°22'8.24"N, Longitude: 90°26'15.64"E

Latitude: 25°22'8.26"N, Longitude: 90°26'20.69"E

Latitude: 25°22'5.05"N, Longitude: 90°26'20.57"E

2. The lease shall not exceed 20 years.
3. In addition to the approved mining plan the Lease shall also be required to adhere to the conditions stipulated in the Non Forest land certificate issued from this office, Environmental Clearance issued by SEIAA, Consent to establish and operate from the Meghalaya State Pollution Control Board, NOC from Labour Department and Revenue and Disaster Management Department (under Rule 10 of Meghalaya Minor Mineral Concession Rule, 2016).
4. After the granting of mining lease, a lease deed in form E shall be executed within three months of the order of grant of the lease and if the lease is not executed within the aforesaid period, the order granting the lease shall be deemed to have been revoked.

Yours faithfully

(Shri. MM Sangma, MFS)
Divisional Forest Officer
Social Forestry & Territorial Division
South Garo Hills, Baghmara

A/SGH/SF&T/Min Lease/150/1/

Dated Baghmara, the February, 2021.

1. The Principal Chief Conservator of Forests & HoFF, Meghalaya, Shillong for information.
2. The Principal Chief Conservator of Forests (T), Meghalaya, Shillong for information.
3. The Conservator of Forests (WL&T), Garo Hills Region, Tura for information.
4. The Range Forest Officer, Southern Range, Baghmara for information.
5. The Beat Forest Officer, i/c Angratoli Beat, for information.

Divisional Forest Officer
Social Forestry & Territorial Division
South Garo Hills, Baghmara

Memo No. B/SGH/SF&T/Min Lease/150/1/
Copy to:-

Dated Baghmara, the February, 2021.

1. The Deputy Commissioner, South Garo Hills, Baghmara for information.
2. The Sub-Divisional Officer (Civil) Chokpot Civil Sub-Division, South Garo Hills, for information.
3. The Director of Mineral Resources, Meghalaya Shillong for information.
4. The Labour Commissioner, Meghalaya, Shillong for information.
5. Member Secretary, SEIAA, Meghalaya, Shillong for information.

Divisional Forest Officer
Social Forestry & Territorial Division
South Garo Hills, Baghmara



(328)
Meghalaya State Pollution Control Board
 Forests & Environment Department, Government of Meghalaya
 'ARDEN' Lumpyngngad, Shillong-793014
 Website: <http://megspcb.gov.in>



No.MSPCB/ONLINE-CTO(GH)/2020-21/328

Dated Shillong, the 3rd March, 2021

CONSENT TO OPERATE

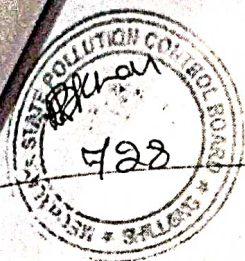
Consent under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended (to be referred as Water Act and Air Act respectively)

CONSENT TO OPERATE is granted to M/s ALPHA D. MARAK BUILDING STONE MINE of Smt. Alpha D. Marak for operating a stone quarry having an area of 4.8 Ha with a production capacity of 294030 TPA (Two lakh ninety-four thousand thirty tonnes per annum), located at Budugre, Chokpot, South Garo Hills District and a Project Cost of ₹24,50,000/- (Rupees twenty-four lakhs fifty thousand) only under the following terms and conditions:

1. This Consent has been accorded based on the particulars furnished by the applicant on behalf of to M/s ALPHA D. MARAK BUILDING STONE MINE, and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice;
2. This Consent is valid for a period up to 28th FEBRUARY, 2022 unless otherwise suspended or revoked;
3. This Consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - (a) Violation of any Term and Condition of this Consent;
 - (b) Obtaining the Consent by misrepresentation or failure to disclose fully all relevant facts;
 - (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge/emission;
4. This Consent does not convey any property right in either real or personal property or any exclusive privilege, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central State or Local Laws or Regulation;
5. No air, water and soil pollution shall be created by the Industry beyond the prescribed permissible limits;
6. The industry shall take adequate measures for control of noise from all sources so as to comply with the Standards below:

LIMIT in dB (A) LEQ	
DAY TIME (6:00AM-9:00PM)	NIGHT TIME (9:00PM-6:00AM)
75	70

7. To maintain the environment and ecology of the area, development of green belt by planting selected species of trees, the height of which should not be less than 5 (five) metres when matured and at a spacing of 1 (One) metre should be made invariably at an area of 15 ha around the mine and 2.0 ha around the colony;
8. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981 as amended that any Officer empowered by the Board on its



behalf shall have without interruption, the right at any time to enter the Plant/factory/for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial of this right will cause withdrawal of the Consent Order;

9. The Company shall comply with all the environment protection measures and safeguards recommended in the approved mining plan;
10. The caves should be preserved, if encountered in the area shall have to be reported to the Board immediately;

II. Specific Conditions:

A. Prevention & Control of Water Pollution:

The following measures should be taken up by the industry for prevention and control of water pollution:

1. Check dams/tailing dams should be provided wherever necessary to prevent the direct discharge of mine's effluent/run off etc. into the natural water courses;
2. Facilities should be maintained for utilizing the water collected in the dams for spraying of the mine, haul roads, etc. but not to discharge directly into the natural streams without proper treatments so as to conform to the prescribed effluent standards;
3. Dumping of overburden, mine spoils etc. should be properly made in identified and demarcated Sites. Such dumping sites should be on impervious and stable ground to avoid percolation of contaminations into the water table and for prevention of landslides;
4. Proper planning should be made so that the dumps are to be done in steps for better stabilization and the dumping sequence should be planned in such a way that plantation over the dumps can be done simultaneously with dumping;
5. Continuous compacting of the dumps should be done to ensure its stability;
6. Sedimental basin below the overburden dumps including plantation and vegetation over the dumps should be maintained to prevent siltation of the natural water courses;
7. Facilities should be maintained for storing the top soil separately so that the same may be utilized for afforestation/plantation over the dumps and excavated mines pits;
8. Setting up of requisite number of permanent water quality monitoring stations on the natural water courses both upstream & downstream and selection of sampling points/stations should be made in consultation with this Board at the earliest.

B. Prevention and Control of Air & Noise Pollution:

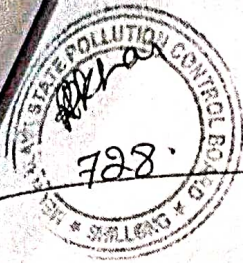
1. Setting up & operation of at least three ambient air quality monitoring stations with 120° angle between stations for monitoring the ambient air quality including micro meteorological data should be done immediately. Selection of station should be done in consultation with this Board;



2. The Ambient Air Quality within the Plant premises and surrounding areas should be maintained within the National Ambient Air Quality Standards prescribed below:-

Sl. No.	Pollutants	Time Weighted average	Concentration in Ambient Air (Industrial, Residential, Rural Areas) $\mu\text{g}/\text{m}^3$
1.	SO ₂	Annual	50
		24 hours	80
2.	NO _x	Annual	40
		24 hours	80
3.	Particulate Matter, PM ₁₀ (size less than 10 μm)	Annual	60
		24 hours	100
4.	Particulate Matter, PM _{2.5} (size less than 2.5 μm)	Annual	40
		24 hours	60


3. A well equipped mechanical workshop should be maintained for proper maintenance of heavy earth movable machineries (HEMM). Fuel/air burning ratio of all the HEMM is to be maintained at an optimum condition so as to reduce air pollution from the exhaust emission of these machineries;
4. Regular checking of the exhaust emission from HEMM should be conducted by using requisite instruments for the purpose;
5. If dry drilling is to be employed, appropriate dust collectors should be provided to control the concentration of suspended particulate matters in the emission;
6. Plantation along the haul roads to reduce dust retention in the air should be maintained;
7. Proper maintenance, lubrication etc. of all moving machineries should be maintained and all engines should be provided with high efficiency silencers;
8. Primary blasting methods should be chosen in such a way so as to have a minimum impact of noise and vibration on the environment;
9. Usage of hydraulic rock breaker for boulder breaking instead of conventional secondary blasting to minimize noise pollution should be adopted as far as practicable;
10. Adequate measures taken should be made to minimize the air blast so that the blast size is kept at the optimum for less noise;
11. Periodic monitoring of noise and vibration level should be conducted by following prescribed norms & measuring instruments for the purpose;
12. The optimum stemming column is to be maintained so that explosives are blasted in confinement stage;



Meghalaya State Pollution Control Board
 Forests & Environment Department, Government of Meghalaya
 'ARDEN' Lumpynggad, Shillong-793014
 Website: <http://megspcb.gov.in>



13. A Detailed Report on Compliance to the terms and conditions as laid down in this *Consent to Operate* shall be submitted along with Environmental Statement in Form V and apply for its renewal prior to expiry of the validity date.


MEMBER SECRETARY
 Meghalaya State Pollution Control Board
 Shillong

Copy to: -

1. The Member Secretary, SEIAA, Meghalaya, Shillong. For favour of information.
2. The Director of Mineral Resources, Meghalaya, Shillong. For information and necessary action with regard to Mining Lease issued.
3. The Divisional Forest Officer, South Garo Hills Division, Baghmara. For favour of information and necessary action.
4. M/s Alpha D. Marak Building Stone Mine, c/o Smt. Alpha D. Marak, Umpling, Dongsharum, Shillong – 06.
5. Guard File CTO 2020

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya
'ARDEN' Lumpyngngad, Shillong - 793014
Website : <http://megspcb.gov.in>



mspcb



No. MPCB/ONLINE-RCTO(R-1)/SGH/2021/2022-2023/ |

Dated Shillong, the 13th January, 2023

RENEWAL OF CONSENT TO OPERATE

CONSENT TO OPERATE under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended (to be referred as Water Act and Air Act respectively).

CONSENT is granted to M/S ALPHA D.MARAK BUILDING STONE MINE vide T.O No. MSPCB/ONLINE-CTO(GH)/2020-21/32 Dated 31st March, 2021 for operating a 4.8 Ha Stone Mine located at Budugre, Chokpot, South Garo Hills District with production capacity 294030 TPA and with a Project cost of ₹ 24,50,000/- (Rupees Twenty Four Lakh Fifty Thousand) only and which expired on 28th February 2022 is hereby renewed for a period of 2 (Two) years i.e; upto 28th February 2024 under the following terms and conditions:

1. This Consent has been accorded based on the particulars furnished by the applicant on behalf of M/S ALPHA D.MARAK BUILDING STONE MINE and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice;
2. The Consent to Operate is valid for a period upto 28th February 2024 unless otherwise suspended or revoked. Application for renewal of Consent to Operate shall be made within 3 (Three) months from the date of expiry of this consent order;
3. This Consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - (a) Violation of any Terms and Conditions of this Consent;
 - (b) Obtaining the Consent by misrepresentation or failure to disclose fully all relevant facts;
 - (c) A change in any condition that require temporary or permanent reduction or elimination of the authorized discharge/emission;
4. This Consent does not convey any property right in either real or personal property or any exclusive privileges, nor does it authorizes any injury to private property or any invasion of personal rights, nor any infringement of Central State or Local Laws or Regulation;
5. No air, water and soil pollution shall be created by the Industry beyond the prescribed permissible limits.
6. To maintain the environment and ecology of the area, development of green belt by planting selected species of trees, the height of which should not be less than 5 (five) metres when matured and at a spacing of 1 (One) metre should be made around the colony;
7. The industry shall take adequate measures for control of noise from all sources so as to comply with the Standards below:

LIMIT in dB (A) LEQ	
DAY TIME (6:00AM-9:00PM)	NIGHT TIME (9:00PM-6:00AM)
75	70

8. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981 as amended that any Officer empowered by the Board on its behalf shall have without interruption, the right at any time to enter the Plant/factory/for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial this right will cause withdrawal of the Consent Order;
9. The Company shall comply with all the environment protection measures and safeguards recommended in the approved mining plan.
10. The caves should be preserved, if encountered in the area shall have to be reported to the Board immediately.

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya
'ARDEN' Lumpyngngad, Shillong - 793014
Website : <http://megspcb.gov.in>



11. The company shall comply with all the Terms & Conditions of the Environmental Clearance granted by the State Environmental Impact Assessment Authority, East Khasi Hills District, Shillong vide No. ML/SEIAA/MIN/SGH/P-46/2020/1642 Dt. 10th September, 2020 and implement the Environment protection measures and safeguards incorporated in the EIA/EMP.

II. Specific Conditions:

A. Prevention and Control of Water Pollution:

The following measures should be taken up by the industry for prevention and control of water pollution:

1. Check dams/tailing dams should be provided wherever necessary to prevent the direct discharge of mine's effluent/run off etc. into the natural water courses.
2. Dumping of overburden, mine spoils etc. should be properly made in identified and demarcated Sites. Such dumping sites should be on impervious and stable ground to avoid percolation of contaminations into the water table and for prevention of landslides.
3. Proper planning should be made so that the dumps are to be done in steps for better stabilization and the dumping sequence should be planned in such a way that plantation over the dumps can be done simultaneously with dumping.
4. Continuous compacting of the dumps should be done to ensure its stability.
5. Facilities should be maintained for storing the top soil separately so that the same be utilised for afforestation/plantation over the dumps and excavated mines/pits.

B. Prevention and Control of Air & Noise Pollution:

1. Setting up & operation of at least three ambient air quality monitoring station with 120° angle between stations for monitoring the ambient air quality including micro meteorological data should be done immediately. Selection of station should be done in consultation with this Board.
2. The Ambient Air Qu
3. ality within the Plant premises and surrounding areas should be maintained within the National Ambient Air Quality Standards prescribed below:

Sl. No.	Pollutants	Time Weighted average	Concentration in Ambient Air (Industrial, Residential, Rural Areas) $\mu\text{g}/\text{m}^3$
1.	SO ₂	Annual 24 hours	50 80
2.	NO ₂	Annual 24 hours	40 80
3.	Particulate Matter, PM ₁₀ (size less than 10 μm)	Annual 24 hours	60 100
4.	Particulate Matter, PM _{2.5} (size less than 2.5 μm)	Annual 24 hours	40 60

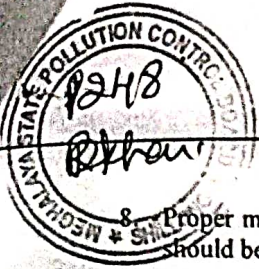
4. Fuel/air burning ratio of all the HEMM is to maintained at an optimum condition so as to reduce air pollution from the exhaust emission of these machineries.
5. Regular checking of the exhaust emission from HEMM should be conducted by using requisite instruments for the purpose.
6. If dry drilling is to be employed, appropriate dust collectors should be provided to control the concentration of suspended particulate matters in the emission.
7. Plantation along the haul roads to reduce dust retention in the air should be maintained.

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpynggad, Shillong - 793014

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8. Proper maintenance, lubrication etc. of all moving machineries should be maintained and all engines should be provided with high efficiency silencers.

9. Primary blasting methods should be chosen in such a way so as to have a minimum impact of noise and vibration on the environment.

10. Usage of hydraulic rock breaker for limestone breaking instead of conventional secondary blasting to minimize noise pollution should be adopted as far as practicable.

11. Adequate measures taken should be made to minimize the air blast so that the blast size is kept at the optimum for less noise.

MEMBER SECRETARY

Meghalaya State Pollution Control Board
Shillong

Copy to: -

1. The Member Secretary, SEIAA, Meghalaya, Silviculture Building, Forests & Environment Department, Shillong for favour of information.
2. The Deputy Commissioner, South Garo Hills District for favour of Information
3. The Director of Mineral Resources, Meghalaya, Shillong for information and necessary action.
4. The Divisional Forest Officer, South Garo Hills (T) Division, Baghmara for favour of information and necessary action.
5. M/S ALPHA D.MARAK BUILDING STONE MINE, C/o Smt. Alpha D. Marak, Umpling, Dongsharum, East Khasi Hills District, Meghalaya for information and necessary action.
6. Guard File ONLINE-RCTO(SGH)-2023.

COMPLIANCE REPORT TO THE TERMS AND CONDITIONS OF CONSENT TO
OPERATE ISSUED TO M/S ALPHA D. MARAK BUILDING STONE MINE VIDE No.
MPCB/TB-ONLINE-CTO/GH/2020-2021/32 DATED 31/3/2021

Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended (to be referred as Water Act and Air Act respectively) granted to M/S Alpha D. Marak Building Stone Mine for operating a 4.80 Ha. Stone Quarry with production capacity of 294030 MTPA located at Budugre, Chowpat, South Garo Hills and Project cost of Rs. 34,00,000 under the following terms and conditions:

- **Mining activity is yet to be carried out. However, approach road leading to the mining site has been constructed.**
1. This Consent has been accorded based on the particulars furnished by the applicant on behalf of M/S Alpha D. Marak Building Stone Mine and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice;
 - **Noted**
 2. The Consent to Operate is valid for a period upto 28th Feb. 2022 unless otherwise suspended or revoked.
 - **Application for renewal of Consent to operate is hereby applied for another period of two years i.e. upto 28th Feb. 2024.**
 3. This Consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - (a) Violation of any Terms and Conditions of this Consent;
 - (b) Obtaining the Consent by misrepresentation or failure to disclose fully all relevant facts;
 - (c) A change in any condition that require temporary or permanent reduction or elimination of the authorized discharge/emission;
 - **Noted.**
 4. This Consent does not convey any property right in either real or personal property or any exclusive privileges, nor does it authorizes any injury to private property or any invasion of personal rights, nor any infringement of Central State or Local Laws or Regulation;
 - **Noted**
 5. No air, water and soil pollution shall be created by the Industry beyond the prescribed permissible limits.
 - **Complied**
 6. To maintain the environment and ecology of the area, development of green belt by planting selected species of trees, the height of which should not be less than 5 (five) metres when matured and at a spacing of 1 (One) metre should be made around the colony;
 - **Site identified for planting of trees.**
 7. The industry shall take adequate measures for control of noise from all sources so as to comply with the Standards below:

LIMIT in dB (A) LEQ	
DAY TIME (6:00AM-9:00PM)	NIGHT TIME (9:00PM-6:00AM)
75	70

- **Complied. Third party will be engaged for carrying out of the noise monitoring once mining activity has been started.**

8. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981 as amended that any Officer empowered by the Board on its behalf shall have without interruption, the right at any time to enter the Plant/factory/for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial this right will cause withdrawal of the Consent Order;

- **MSPCB is welcome any time.**

9. The Company shall comply with all the environment protection measures and safeguards recommended in the approved mining plan.

- **Noted**

10. The caves should be preserved, if encountered in the area shall have to be reported to the Board immediately.

- **All possibility will be made to preserve the cave if encounter**

II. Specific Conditions:

A. Prevention and Control of Water Pollution:

The following measures should be taken up by the industry for prevention and control of water pollution:

1. Check dams/tailing dams should be provided wherever necessary to prevent the direct discharge of mine's effluent/run off etc. into the natural water courses and PWD Road.

- **Construction of settling tank is under progress.**

2. Facilities should be maintained for utilizing the water collected in the dams for spraying of the mine, haul roads, etc. but not to discharge directly into the natural streams without proper treatments so as to conform to the prescribed effluent standards.

- **Complied.**

3. Dumping of overburden, mine spoils etc. should be properly made in identified and demarcated Sites. Such dumping sites should be on impervious and stable ground to avoid percolation of contaminations into the water table and for prevention of landslides.

- **Noted. The over burden will be utilizing for road development.**

4. Proper planning should be made so that the dumps are to be done in steps for better stabilization and the dumping sequence should be planned in such a way that plantation over the dumps can be done simultaneously with dumping.
 - Noted
5. Continuous compacting of the dumps should be done to ensure its stability.
 - Noted
6. Sedimental basin below the overburden dumps including plantation and vegetation over the dumps should be maintained to prevent siltation of the natural water courses.
7. Facilities should be maintained for storing the top soil separately so that the same be utilized for afforestation/plantation over the dumps and excavated mines pits.
 - Noted
8. Setting up of requisite number of permanent water quality monitoring stations on the natural water courses both upstream & downstream and selection of sampling points/stations should be made in consultation with this Board at the earliest.
 - No nearby stream within the vicinity of the mining site.

B. Prevention and Control of Air & Noise Pollution:

1. Setting up & operation of at least three ambient air quality monitoring station with 120° angle between stations for monitoring the ambient air quality including micro meteorological data should be done immediately. Selection of station should be done in consultation with this Board.
 - Third party will be engaged for carrying out of the ambient air quality monitoring once mining activity has been started.
2. The Ambient Air Quality within the Plant premises and surrounding areas should be maintained within the National Ambient Air Quality Standards prescribed below:

Sl. No.	Pollutants	Time Weighted average	Concentration in Ambient Air (Industrial, Residential, Rural Areas) $\mu\text{g}/\text{m}^3$
1.	SO ₂	Annual 24 hours	50 80
2.	NO ₂	Annual 24 hours	40 80
3.	Particulate Matter, PM ₁₀ (size less than 10 μm)	Annual 24 hours	60 100
4.	Particulate Matter, PM _{2.5} (size less than 2.5 μm)	Annual 24 hours	40 60

- Third party will be engaged for carrying out of the ambient air quality monitoring once mining activity has been started.
3. Fuel/air burning ratio of all the HEMM is to maintained at an optimum condition so as to reduce air pollution from the exhaust emission of these machineries.

- Noted
- 4. Regular checking of the exhaust emission from HEMM should be conducted by using requisite instruments for the purpose.
 - Noted
- 5. If dry drilling is to be employed, appropriate dust collectors should be provided to control the concentration of suspended particulate matters in the emission.
 - Noted
- 6. Plantation along the haul roads to reduce dust retention in the air should be maintained.
 - Noted and plantation Will be carried out soon.
- 7. Proper maintenance, lubrication etc. of all moving machineries should be maintained and all engines should be provided with high efficiency silencers.
 - Noted
- 8. Primary blasting methods should be chosen in such a way so as to have a minimum impact of noise and vibration on the environment.
 - Noted
- 9. Usage of hydraulic rock breaker for limestone breaking instead of conventional secondary blasting to minimize noise pollution should be adopted as far as practicable.
 - Noted
- 10. Adequate measures taken should be made to minimize the air blast so that the blast size is kept at the optimum for less noise.
 - Noted
- 11. Periodic monitoring of noise and vibration level should be conducted by following prescribed norms & measuring instruments for the purpose.
 - **Third party will be engaged for carrying out of the noise monitoring once mining activity has been started.**
- 12. The optimum stemming column is to be maintained so that explosives are blasted in confinement stage.
 - Noted.

INSPECTION REPORT

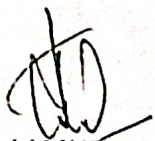
Inspection of M/s Alpha D. Marak Building Stone Mine has been carried out on 20th September, 2022 in the presence of Shri R. Marak, Manager M/s Alpha D. Marak Building Stone Mine and observed as follow:

Detailed information:

NAME OF INDUSTRY : M/S ALPHA D. MARAK BUILDING STONE MINE
LOCATION : BUDUGRE, CHOKPOT, SOUTH GARO HILLS DISTRICT,
MEGHALAYA
INSPECTING OFFICIAL : SHRI J.F. LAMURONG, EE, MSPCB
TYPE OF INDUSTRY : MINING

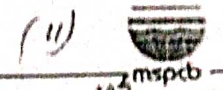
OBSERVATIONS:

1. Mining activity is yet to be carried out.
2. Construction of approach road to the mining site is under progress.
3. The mining lease area is of 4.80 Ha with production capacity of 294030 TPA.
4. Mining is proposed to be carried out along North eastern side of the mining lease area.
5. The type of mining carrying out is an opencast semi-mechanized method.
6. Earth arising from the mine is proposed to be stacked within the mining lease area.
7. When enquired, it was informed that water is drawn from a nearby stream.
8. No labourer reside within the mining lease area.


J.F. LAMURONG,
EE, MSPCB

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya
 'ARDEN' Lumsden Road, Shillong - 793014
 Website : <http://megspcb.gov.in>



No. MPCB/TB-7(H)/2023-2024/11

Dtd. Shillong the 24th January, 2024

To,

M/s Alpha D. Marak Building Stone Mine,
 C/o Smt Alpha D. Marak,
 Umpling, Dongsharum,
 Shillong, Meghalaya

Sub: SHOW CAUSE NOTICE

1. Whereas, Consent to Establish under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 Air (Prevention and Control of Pollution) Act, 1981 as amended was granted to M/s Alpha D. Marak Building Stone Mine vide T.O. No. MPCB/ONLINE-CTE(GH)/2020-2021/24 dated 9th October, 2020 for establishing a Boulder Stone Mine at Budugre, Chokpot, South Garo Hills District of Meghalaya ;
2. Whereas, M/s Alpha D. Marak Building Stone Mine was Consent to Operate under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 Air (Prevention and Control of Pollution) Act, 1981 as amended vide T.O. No. MPCB/ONLINE-CTO(GH)/2020-2021/32 31st March, 2021 and subsequent renewal which will expired on 28th February, 2024;
3. Whereas, as per the inspection carried out by the Board's Official on 6th December, 2023 it was observed that:
 - i. At the portion where mining activity was commencing, the top soil observed to be very thick (20 feet in height) and the overburden was observed to have been dumped near pillar No. 3 at very steep slope towards River Dareng.
 - ii. Due to absence of proper drainage system/ gullies and settling tank, the overburden was observed to be eroded downstream leading its way to the river. A large amount of excavated earth had previously slid down upto the river before construction of the Masonry retaining wall.
 - iii. Retaining wall has been constructed outside the mining lease area at a distance of around 60 meter from pillar no. 3 and 40 m from the bank of the river to prevent further spills.
 - iv. The retaining wall is a three-level gabion wall measuring approximately 8 ft height and 15 ft in length.
4. Whereas, M/s Alpha D. Marak Building Stone Mine has violated Specific Condition SI. 1,2,3,4,5 under Prevention and Control of Water Pollution of the Consent to Operate;

Therefore in view of the above, M/s Alpha D. Marak Building Stone Mine is hereby given 15 (fifteen) days time to show cause as to 'why' powers conferred upon the Board under Section 33 (A) of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 (A) of the Air (Prevention and Control of Pollution) Act, 1981 should not be implemented against the unit, failing which, 'ex parte' action will be taken against it.

(R. Nainmalai, IFS)

CHAIRMAN

Meghalaya State Pollution Control Board
 Shillong

Dtd. Shillong the 24th January, 2024

Memo No. MPCB/TB-7(H)/2023-2024/11-1

Copy to:-

1. The Deputy Commissioner, South Garo Hills, Baghmara, for kind information.
2. The Director, Mining and Geology, Shillong for kind information.
3. The Divisional Forest Officer, SF & Territorial Division, South Garo Hills, Baghmara for kind information and necessary action.

dk

CHAIRMAN

INSPECTION REPORT

In pursuance of the complaint received from Shri. A.R. Sangma, Nokma 1-6(07) Budugre A King, South Garo Hills, Meghalaya, inspection of M/s Alpha D. Marak Building Stone Mine (4.8 Ha) of Smt. Alpha D. Marak located at Budugre, Chokpot, South Garo Hills District were carried out by the Board's officials, Shri. J.F. Lamurong, Environmental Engineer and Smt. R.R. Marak, Asst. Environmental Engineer on 6th December, 2023 along with Shri. Dilbo Sangma, representatives of M/s Alpha D. Marak Building Stone Mine and the observations are as follows.

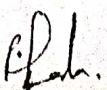
The complainant could not be contacted as there is no mobile number provided.


Observations:

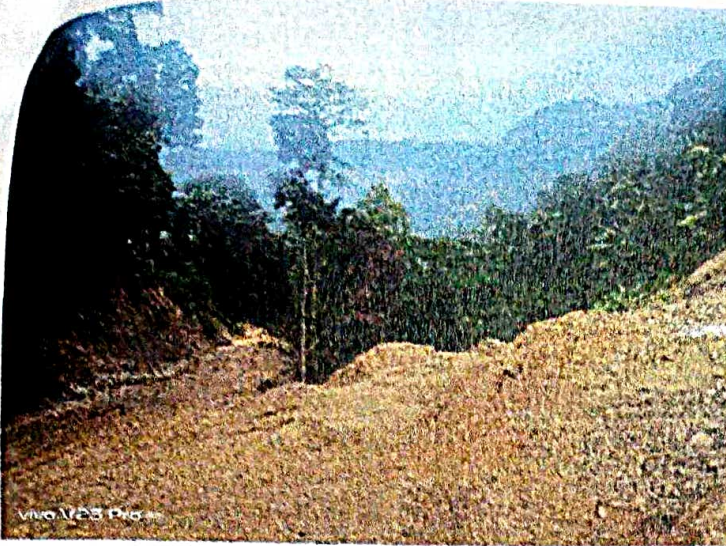
1. Old approach road to the mining lease area has been abandoned. New approach road has been constructed leading to Pillar No. 4 and 5.
2. Mining activity has been commenced along eastern side within the mining lease area. Mining activity was not in operation at the time of inspection, however transportation of stone boulder was observed by Mahindra Pickup from the already excavated boulder stone.
3. At the portion where mining activity was commencing, the top soil observed to be very thick (20 feet in height) and the overburden was observed to have been dumped near pillar No. 3 at very steep slope towards River Dareng. The person present at site informed that new site has been identified and the overburden is dumped presently across the PWD Road.
4. When enquired from the person present at site, it was informed that boulder stone will be excavated vertically downward.
5. Due to absence of proper drainage system/ gullies and settling tank, the overburden was observed to be eroded downstream leading its way to the river. A large amount of excavated earth had previously slid down upto the river before construction of the Masonry retaining wall.
6. Retaining wall has been constructed outside the mining lease area at a distance of around 60 meter from pillar no. 3 and 40 m from the bank of the river to prevent further spills.
7. The retaining wall is a three-level gabion wall measuring approximately 8 ft height and 15 ft in length.

Recommendations:

1. Proper drainage system and settling tank should be constructed to arrest the over burden during runoff.
2. Feasible location should be identified for dumping of overburden and permission from the competent authority should be obtained.
3. Quarterly Water Monitoring of the river should be conducted by the Project proponent and submit report to MSPCB.
4. Additional Rubble stone wall should be constructed within the mining lease area towards the steep slope along Pillar No. 3 to avoid landslide during rainy season.
5. The already dumped earth should be properly compacted by planting trees for stability of the soil to avoid further erosion.


R.R. Marak,
AEE, MSPCB


J.F. Lamurong,
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Photographs of the mine site near Pillar no. 3



Photographs of the Retaining Wall

