



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

:: MEGHALAYA ::

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MINUTES OF THE MEETING OF THE SEIAA, MEGHALAYA

HELD ON 21st FEBRUARY 2023 AT 2:00 P.M

VENUE: OFFICE CHAMBER OF THE CHAIRMAN

Members present in the Meeting:

1. Shri T.T.C. Marak, IFS (Retd.).....Chairman, SEIAA
2. Dr. H.J. Syiemlieh, Professor, Dept. of Geography, NEHUMember, SEIAA
3. Shri. W.S. Manner, IFS, CCF, SF & EMember Secy. SEIAA

Proceedings:

The Meeting was chaired by Shri. T.T.C. Marak, Chairman, SEIAA. At the outset, the Chairman welcomed the Members and then invited the Member Secretary to present the Agenda points for discussion.

Agenda 1: Action taken Report- The Member Secretary informed about the action of the decisions taken in the last SEIAA's meeting held on 18th January 2023 and circulated the Minutes of the said meeting. The meeting approved the actions taken and confirmed the proceedings.

Agenda 2: Grant of Environmental Clearance (EC)

- 2.1 **Proposal No.SIA/ML/MIN/405958/2022 submitted by Shri. Jan Unisakhiat G. Kyndiah (M/S Mawlyngad Boulder Stone Mine)**

Deliberation:

The Project Proponent, Shri. Unisakhiat G. Kyndiah submitted an online application vide proposal No. SIA/ML/MIN/405958/2022 for Environmental Clearance for **Mawlyngad Boulderstone Mine** for an area of 4.69 hectares. The proposal is for mining of boulderstone use for construction purposes, hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Mawlyngad village, Khyrim Syiemship, East Khasi Hills District, Meghalaya and Survey of India toposheet No. G46N14 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25° 31' 17.850"N	91° 56' 12.900"E
2	25° 31' 17.640"N	91° 56' 15.140"E
3	25° 31' 18.330"N	91° 56' 16.920"E
4	25° 31' 19.460"N	91° 56' 17.770"E
5	25° 31' 20.730"N	91° 56' 19.740"E
6	25° 31' 21.660"N	91° 56' 21.540"E
7	25° 31' 23.300"N	91° 56' 19.570"E
8	25° 31' 24.760"N	91° 56' 17.970"E
9	25° 31' 25.960"N	91° 56' 18.420"E
10	25° 31' 27.120"N	91° 56' 18.390"E
11	25° 31' 27.170"N	91° 56' 17.270"E
12	25° 31' 26.370"N	91° 56' 16.610"E
13	25° 31' 26.200"N	91° 56' 14.890"E
14	25° 31' 26.670"N	91° 56' 13.670"E
15	25° 31' 25.450"N	91° 56' 13.390"E
16	25° 31' 25.080"N	91° 56' 12.200"E

The proposed mining area is on lease vide Deed of Lease signed on the 12th of January 2022 for a period of 20 (Twenty) years, which was certified by Public Notary, East Khasi Hills, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Chief Conservator of Forests (T), Meghalaya, Shillong, vide letter No.MFG.39/42/NFLC/MINING/MMMCR/KH/Pt.II/2689, dated Shillong, the 6th June 2022 and Letter of Intent confirmed by the Divisional Forest officer, East Khasi Hills & RiBhoi (T) Division vide letter No.KH/8/ML/Stone/69/1188, dated Shillong, the 14th June, 2022 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/175/2022/06 dated Shillong, the 12th August 2022 where it is mentioned that there no approved mining plan located within 500 metres. Hence, the Environment Management Plan is not required.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/175/2022/02 dated Shillong, the 20th July 2022. The Mining Plan has been prepared to extract boulder stone at the rate of 2,00,112 MT per annum with a project cost of Rs.22.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of boulder stone is of the order of 23, 07,360 MT. The production in the period of the mining plan will be around 10, 00,560 MT in 5 years. Therefore, the balance reserves will be (2307360 -1000560) or 1306800MT. If the production target is 200112MT, the balance reserve will be sufficient for (1306800 /200112) or 6.53 years. Thus, the total life of the mine is 5+6.53=11.53 or say 12 years.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environment Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Environment Clearance to this project, with 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 and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.

10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
14. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

2.2 Proposal No.SIA/ML/MIN/403199/2022 submitted by Smti. Heileen Anthea Diengdoh (M/s Phudkroh Limestone Mine).

The Project Proponent, Smti. Heileen Anthea Diengdoh submitted an online application for Environmental Clearance vide proposal No. SIA/ML/MIN/403199/2022 for **Phudkroh Limestone Mine** for an area of 4.80 hectares. The proposal for mining of limestone will be used in kilns for manufacturing of lime used as building material and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Phudkroh Area, Maharam Syiemship, South West Khasi Hills, Meghalaya and toposheet Survey of India No. G46N8 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25°12'46.17"N	91°16'29.91" E
2	25°12'45.06"N	91°16'33.88" E
3	25°12'42.46"N	91°16'35.18" E
4	25°12'39.17"N	91°16'34.11" E
5	25°12'37.72"N	91°16'31.56" E
6	25°12'38.92"N	91°16'27.26" E
7	25°12'41.42"N	91°16'26.08" E
8	25°12'44.81"N	91°16'27.20" E

The proposed mining area is on lease vide Lease Agreement signed on the 25th of August, 2020 for a period of 30 (Thirty) years, which was certified by Public Notary, East Khasi Hills, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Conservator of Forests(T), Khasi & Jaintia Hills, Meghalaya, Shillong, vide letter No.MFG.39/42/NFLC/MINING/MMMCR/KH/10554, dated Shillong, the 24th November 2021 and Letter of Intent confirmed by the Divisional Forest Officer, SF & Territorial Division, West & South West Khasi Hills, vide letter No.T/W&SW/ML/LS/21-22/208/144 dated Nongstoin the 2nd February, 2022.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/161/2022/08 dated Shillong, the 8th July 2022 where it is mentioned that that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No. DMR/MM/161/2022/04 dated Shillong, the 6th May 2022. The Mining Plan has been prepared to extract limestone at 2,30,850 MT/annum with a project cost of Rs. 24.5 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of limestone is of the order of 37,13,600 MT. The production in the period of the mining plan will be around 11,54,250 MT in 5 years. Therefore, the balance reserves will be (3713600 -1154250) or 2559350 MT. If the production target is 230850 MT, the balance reserve will be sufficient for (2559350 /230850) or 11.08 years. Thus, the total life of the mine is 5+11.08=16.08 or say 16 years.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environment Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Environment Clearance to this project, with 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 and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
14. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

2.3 Proposal No. SIA/ML/MIN/283786/2022 submitted by Shri. Leadarly Kharbani (M/s Umtngaw Limestone Mine).

The Project Proponent, Shri. Leadarly Kharbani submitted an online application for Environmental Clearance vide proposal No.SIA/ML/MIN/283786/2022 for Umtngaw Limestone Mine for mining of Lime stone for an area of 3.95 hectares. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Umtngaw, Mawlong, Mawlong Sirdarship, East Khasi Hills, Meghalaya and toposheet Survey of India No.780/12 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25° 10. 709' N	91° 40.914'E
2	25° 10. 710' N	91° 40.954'E
3	25° 11.043 ' N	91° 41.007'E
4	25° 11.043' N	91°40.970' E

The proposed mining area is on lease for a period of 50 years vide Deed of Lease executed on the 31st August 2020 certified by Notary, East Khasi Hills, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & RiBhoi (T) Division vide letter No.KH/8/NOC/Limestone/41/Pt.IV/4541, dated Shillong, the 21st December 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/ 4577 dated Shillong, the 22nd December 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/109/2021/18 dated Shillong, the 10th August 2021 which states that there are two (2) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of three mines is summed up to 11.01 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/109/2021/13 dated Shillong, the 7th July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 201790 MTPA with a project cost of Rs.29.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves would be 2017900 Tonnes with an average annual production of 201790 (2017900/10=201790) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus, 1008625 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e. (2017900-1008625)= 1009275 Tonnes would be exhausted in further 5 years @201855 tonnes per annum. Therefore, the life of the mine will be 10 years (five years in plan period + 5 years in conceptual period).

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-189/2021/996 dated 26th November 2021 and submitted the final EIA/EMP for the proposed Mining of Lime stone where the project proponent complied all the points in compliance to the Term of Reference prepared by CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 5th April 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smti. D. Phawa, ADC, East Khasi Hills District.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environment Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Environment Clearance to this project, with 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 and additional conditions as given below

1. LOI ought to be renewed as the validity has expired
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. A retaining wall of adequate height not less than 6 ft above the ground level and 4-6 ft below the ground level is to be constructed within mining site for stacking of Over Burden (OB), with the length of around 690 meter on the western, Eastern and Southern direction, sloping to the valley below to ensure that no spillage of OB materials.
4. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
5. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
6. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
7. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
8. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
9. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
10. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
11. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
12. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
13. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
14. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
15. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

2.4 Proposal No. SIA/ML/MIN/277222/2022 submitted by Shri. Arbis Tangdhara (M/s Ri-Laingut Limestone Mine)

The Project Proponent, Shri. Arbis Tangdhara submitted an online application for Environmental Clearance vide proposal No.SIA/ML/MIN/277222/2022 for **Ri Laingut Limestone Mine** for an area of 0.66 hectare. The proposal is for mining of lime stone to be used for manufacturing of lime and as building materials for building, road and other construction works. The project falls under Schedule 1(a) of category B1 of EIA Notification 2006. The mining lease area is located at Ri Laingut,

Lynti Dkhar, Sohbar village, Sohbar Sirdarship, East Khasi Hills District, Meghalaya and Survey of India Toposheet No.78 O/12 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25° 11' 13.99"N	91° 44' 51.69" E
2	25° 11' 13.96"N	91° 44' 51.86 "E
3	25° 11' 9.63"N	91° 44' 48.10"E
4	25° 12' 11.38"N	91° 44' 46.25"E

The proposed mining area is on lease for 30 years vide lease agreement made on 18th February 2019 certified by Sub-Registrar, Sohra, East Khasi Hills District.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & RiBhoi Territorial Division, Shillong, vide letter No.KH/8/NOC/Limestone/41/Pt.IV/6267, dated Shillong, the 30th March 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/6272, dated Shillong, the 30th March 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/120/2021/07 dated Shillong, the 15th July 2021 which states that there are eleven (11) approved mining plan lying within 500 meters from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of twelve mines is summed up to 25.7715 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/120/2021/04 dated Shillong, the 2nd July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 14450 TPA with a project cost of Rs. 21 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 1,59,500 tonnes. The production in the period of the mining plan will be around 72,250 tonnes in 5 years. Therefore, the balance reserves will be (159500 - 72250) or 87250 tonnes. If the production target is 14450 tonnes, the balance reserve will be sufficient for (87250/14450) or 6.03 years. Thus, the total life of the mine is 5+6.03=11.03 or say 11 years.

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-175/2021/587 dated 22ndSeptember 2021 and submitted the final EIA/EMP for the proposed Mining of Lime stone where the project proponent complied all the points in compliance to the Term of Reference prepared by CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 17thDecember 2021 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smt. D. Phawa, ADC, East Khasi Hills District and Chairperson, EPH. The average annual production of stone may be different from the annual production of first five years and the balance mineable reserve for last 5 years would be 208393 tonnes. So life of the mine will be 10 years.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environment Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Environment Clearance to this project, with 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 and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
14. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

2.5 Proposal No.SIA/ML/MIN/67625/2021 submitted by Shri. Soshin Laitmon (Ri Jyrkha Limestone Mine)

The Project Proponent, Shri. Soshin Laitmon submitted an online application for Environmental Clearance vide proposal No.SIA/ML/MIN/67625/2021 for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 0.75 hectare. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ri Jyrkha, Mawlong Sirdarship, East Khasi

Hills District, Meghalaya and toposheet Survey of India No.780/12 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 06.20"N	91° 41' 06.10" E
2	25° 12' 01.30"N	91° 41' 06.00"E
3	25° 12' 00.00"N	91° 41' 04.20"E
4	25° 12' 04.80"N	91° 41' 04.30"E

The proposed mining area is on lease for 30 years vide Lease Deed made on the 5th day of November 2020, certified by Notary, Govt. of Meghalaya, East Khasi Hills District.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ribhoi Territorial Division, Shillong, vide letter NO.KH/8/NOC/Limestone/41/Pt.IV/4716, dated Shillong, the 5th March 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4733, dated Shillong, the 5th March, 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/115/2021/13 dated Shillong, the 4th August 2021 which states that there are four (4) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of five mines is summed up to 7.475 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/115/2021/8 dated Shillong, the 12th July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 34,406 TPA with a project cost of Rs.22.5 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve would be 240840 Tonnes with an average annual production of 34406 (240840/7 = 34406) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 171940 Tonnes of the total mineable reserve i.e.(240840 - 171940) = 68900 Tonnes would be exhausted in further 2 years @ 34450 Tonnes per annum. Therefore, the life of the mine will be 7 years (Five years in plan period + Two years in conceptual period).

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-196/2021/1245 dated 26th November 2021 and submitted the final EIA/EMP for the proposed Mining of Lime stone where the project proponent complied all the points in compliance to the Term of Reference prepared by CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 5th April 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smt. D. Phawa, ADC, East Khasi Hills District.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environment Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Environment Clearance to this project, with 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 and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. A retaining wall of adequate height not less than 6 ft above the ground level and 4-6 ft below the ground level is to be constructed within mining site for stacking of Over Burden (OB), with the length of around 200 meter on the Northern, Eastern and Southern direction, sloping to the valley below to ensure that no spillage of OB materials.
4. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
5. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
6. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
7. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
8. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
9. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
10. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
11. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
12. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
13. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
14. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
15. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

2.6 Proposal No.SIA/ML/MIN/186809/2020 submitted by Smt. Resti Majhong (M/s Mawthlen Stone Quarry)

The Project Proponent, Smti. Resti Majhong submitted an online application vide proposal No. SIA/ML/MIN/186809/2020 for Environmental Clearance for Mawthlen Stone Quarry for an area of 0.42 hectare. The proposal is for mining of boulder stone use for construction works and road projects,

hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Mawthlen, Raid Marngar, Ri Bhoi District, Meghalaya and Survey of India Toposheet No.78 O/13 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25° 52' 27.73"N	91° 54' 59.69"E
2	25° 52' 29.70"N	91° 54' 0.44"E
3	25° 52' 29.16"N	91° 54' 57.73"E
4	25° 52' 27.49"N	91° 54' 58.84"E

The proposed land belongs to the project proponent vide Deed of Sale cum Agreement made on 25th March 1996 certified by Sub-Registrar, Nongpoh, Ri Bhoi, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Khasi Hills (T) Division, Shillong, vide letter No.KH/9/NOC/Stone/41/Pt.IV/622 dated Shillong, the 7th May 2018 and Letter of Intent vide letter No.KH/Quarry permit/ Stone/1193 dated Shillong, the 24th May 2018.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong, Government of Meghalaya vide letter No.DMR/MM/191/2018/14 dated Shillong, the 7th October 2020, where it is mentioned that there no approved mining plan located within 500 meters. Hence, the Environment Management Plan is not required.

The project proponent submitted approved Mining Plan and Progressive Mine Closure Plan from Directorate of Mineral Resources, Meghalaya vide letter No.DMR/MM/191/2018/1764, dated Shillong, the 15th January 2019. The Mining plan has been prepared to extract boulder stone at an annual rate of 9870 tonnes with a project cost of Rs. 8 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 29260 tonnes with an average annual production of 29260 (29260/3=9753) tonnes per year and production of stone in first three years will be 29260 tonnes. The average annual production of boulder stone may be different from annual production of first three years. So the life of the mine will be 3 years.

The Project Proponent submitted an application (Offline) for Environmental Clearance to the Chairman, DEIAA, Ri Bhoi District on 28/01/2019 and was forwarded to SEIAA by the Office of the Deputy Commissioner, Ri Bhoi District, Nongpoh vide letter No.DCRB(LR)14/2019/Rev/84/962 dated Nongpoh, the 06th May, 2019. However, with the Blanket Ban by the Deputy Commissioner, Ri Bhoi District dated 14/9/2020, directing for cancellation of all new permissions granted after 9th July 2020 in Ri Bhoi District, the project was kept in abeyance until the Advocate General's opinion vide letter NO.AGM-1/2018/Pt.-1/589 dated Shillong the 25th July 2022 to consider the application for Environmental Clearance for Smti. Sharon Ann Pariat and other similar proposals from Ri Bhoi District.

The Project Proponent re-submitted the application (Online) for Environmental Clearance through the PARIVESH PORTAL of the Ministry on 5th November 2022. An ADS was raised by the SEAC in their 62nd meeting held on 29th November 2022 and was replied on 4th January 2023. The project was eventually recommended by the SEAC in their 63rd meeting held on 16th & 17th January 2023.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environment Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Environment Clearance to this project, with 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 and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. A retaining wall of adequate height not less than 6 ft above the ground level and 4-6 ft below the ground level is to be constructed within mining site for stacking of Over Burden (OB), with the length of around 200 meter on the Northern, Eastern and Southern direction, sloping to the valley below to ensure that no spillage of OB materials.
4. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
5. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
6. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
7. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
8. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
9. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
10. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
11. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
12. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
13. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
14. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
15. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

2.7 Proposal No.SIA/ML/MIN/273527/2022 submitted by Shri. Chui Pohlynjar (M/s Nongtalang Limestone Mine).

The Project Proponent, Shri. Chui Pohlynjar submitted an online application vide proposal No. SIA/ML/MIN/273527/2022 for Environmental Clearance for **Nongtalang Limestone Mine** for an area of 4.3 hectares. The proposal is for mining of lime stone to be used in local lime kiln and sold to private entrepreneurs. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Thanghunai, Elaka Nongtalang, West Jaintia Hills District, Meghalaya and toposheet Survey of India No.83C/4 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25° 13'11.616"N	92° 4'29.105"E
2	25° 13'27.249"N	92° 4'28.737"E
3	25° 13'27.157"N	92° 4'25.468"E
4	25° 13'11.536"N	92° 4'25.904"E

The proposed land is on lease for a period of 20 years vide Lease Agreement made on the 1st May 2018 registered at the Sub-Registrar, Amlarem Civil Sub-Division, Amlarem.

TCM The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/S.Quarry/2009-10/476/B/1983, dated Jowai, the 30th November, 2018 and letter of Intent vide letter No.JH/MMMCR-2016/2016-17/869/B/2419 dated Jowai, the 18th February, 2019 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMO-J/5/MM/Mining Plan/2019/27 dated Jowai, the 21st August, 2019 which states that there are four (4) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of total nine mines is summed up to 17.05 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/5/MM/Mining Plan/2019/8 dated Jowai, the 9th May 2019. The Mining Plan has been prepared to extract lime stone at the rate of 150000 TPA with a project cost of Rs.35.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 1300000 tonnes. The production in the period of the mining plan will be around 750000 tonnes in 5 years. Therefore, the balance reserves will be (-) or 550000 tonnes. If the production target is 150000 tonnes, the balance reserve will be sufficient for (550000 /150000) or 3.6 years. Thus, the total life of the mine is 5+3.6=8.6 or say 9 years.

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/WJH/P-119/2020/4/1790 dated 25th February 2021 and submitted the final EIA/EMP for the proposed Mining of Lime stone where the project proponent complied all the points in compliance to the Term of Reference prepared by CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 5th November 2021 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri. A. S. Mukhim, MCS, ADC, West Jaintia Hills District.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environment Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Environment Clearance to this project, with

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 and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
14. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

2.8 Proposal No.SIA/ML/MIN/177198/2020 submitted by Shri. Ivan Lyngdoh (M/s Ampynsemkura Boulder Stone Mine)

The Project Proponent, Shri Ivan Lyngdoh submitted an online application vide proposal No.SIA/ML/MIN/177198/2020 for Environmental Clearance for **Ampynsemkura Boulder Stone Mine** for an area of 3.72 hectares. The proposal is for mining of Boulder stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Ampynsemkura, Hima Jirang Syiemship, Ri Bhoi District, Meghalaya and toposheet Survey of India No. 780/9 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°59'13.05"N	91°33'18.37" E
2	25°59'7.84"N	91°33'22.30" E
3	25°59'1.04"N	91°33'20.32" E
4	25°59'4.44"N	91°33'15.63" E

The proposed mining area is on lease for 30 years vide Deed of Lease Agreement made on the 23rd November 2016 certified by Sub-Registrar, Nongpoh.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri Bhoi (T) Division, Shillong vide letter No.KH/9/NOC/Stone/41/Pt V/3508, dated Shillong, the 21st August, 2019 and Letter of Intent vide letter No.KH/8/ML/Stone/69/6060, dated Shillong, the 4th June, 2018 respectively.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/30/2019/21 dated Shillong, the 2nd June 2020 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/30/2019/17 dated Shillong, the 20th March 2020. The Mining Plan has been prepared to extract boulder stone at 350590 TPA with a project cost of Rs.20.0 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of boulder stone are of the order of 38, 22,370 tonnes. The production in the period of the mining plan will be around 16, 39,660 tonnes in 5 years. Therefore, the balance reserves will be (38, 22,370-16, 39,660) or 21, 82,710 tonnes. If the production target is 3,50,000 tonnes, the balance reserve will be sufficient for $(21,82,710 / 3, 50,000) = 6.23$ years. Thus, the total life of the mine is $5+6.23=11.23$ or say 11 years.

The Project Proponent submitted an application (Online) for Environmental Clearance to the Chairman, DEIAA, Ri Bhoi District on 5/10/2020. However, with the Blanket Ban by the Deputy Commissioner, Ri Bhoi District dated 14/9/2020, directing for cancellation of all new permissions granted after 9th July 2020 in Ri Bhoi District, the project was kept in abeyance. In the case of this particular project, the Advocate General has given his opinion vide letter NO.AGM-1/2018/Pt.-1/586 dated Shillong the 20th July 2022 to consider the application for Environmental Clearance submitted by Shri. Ivan Lyngdoh.

The Proposal was deferred for Site Visit by the SEAC in their 59th meeting held on 2nd September 2022 and site inspection was conducted on 29th October 2022. The project was eventually recommended by the SEAC in their 63rd meeting held on 16th & 17th January 2023.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environment Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Environment Clearance to this project, with 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 and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.

2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt. of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
14. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

Member Secretary shall prepare the draft Environmental Clearance for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Environment Clearance.

Agenda 3: Grant of Term of Reference (ToR)

3.1 Proposal No. SIA/ML/MIN/404212/2022 submitted by Green Valley Industries Limited (GVIL Shale Mine).

The Project Proponent, Green Valley Industries Limited submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/404212/2022 for *GVIL Shale Mine* for an area of 4.77 hectares. The proposal is for mining of shale which will be used as additive for cement plant. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Brichyrnot Village, Elaka Narpuh, East Jaintia Hills District, Meghalaya with Survey of India topsheet No.G4608 within the following GPS Coordinates:

GPS Coordinates					
Pillar No.	Latitude	Longitude	Pillar No.	Latitude	Longitude
1	25° 09'38.3"N	92° 24'31.1"E	17	25° 09'32.6"N	92° 24'35.3"E
2	25° 09'36.0"N	92° 24'31.5"E	18	25° 09'34.0"N	92° 24'35.0"E
3	25° 09'35.0"N	92° 24'30.8"E	19	25° 09'34.3"N	92° 24'34.4"E
4	25° 09'34.4"N	92° 24'31.3"E	20	25° 09'35.2"N	92° 24'34.3"E
5	25° 09'33.4"N	92° 24'31.5"E	21	25° 09'35.5"N	92° 24'34.5"E
6	25° 09'33.7"N	92° 24'30.5"E	22	25° 09'36.0"N	92° 24'34.5"E
7	25° 09'32.3"N	92° 24'30.3"E	23	25° 09'36.9"N	92° 24'35.1"E
8	25° 09'31.8"N	92° 24'28.6"E	24	25° 09'36.8"N	92° 24'36.4"E
9	25° 09'29.5"N	92° 24'28.4"E	25	25° 09'36.0"N	92° 24'37.7"E
10	25° 09'28.8"N	92° 24'28.1"E	26	25° 09'37.0"N	92° 24'38.2"E
11	25° 09'28.3"N	92° 24'28.6"E	27	25° 09'38.8"N	92° 24'38.2"E
12	25° 09'28.4"N	92° 24'30.3"E	28	25° 09'38.9"N	92° 24'38.4"E
13	25° 09'29.6"N	92° 24'34.4"E	29	25° 09'39.9"N	92° 24'38.0"E
14	25° 09'30.7"N	92° 24'34.9"E	30	25° 09'39.4"N	92° 24'35.8"E
15	25° 09'31.0"N	92° 24'34.9"E	31	25° 09'38.6"N	92° 24'33.5"E
16	25° 09'31.3"N	92° 24'34.7"E			

The proposed mining area is on lease for periods of 25 years vide Lease Agreement made on the 25th April 2019 at Nongsning certified by District Registrar, East Jaintia Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Conservator of Forests(T), Khasi & Jaintia Hills, Meghalaya, Shillong, vide letter No.MFG.22/385/Vol-II/11243, dated Shillong, the 2nd December 2021 and Letter of Intent confirmed by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai, vide letter DMO-J/ML-MM/1/2019-20/04 dated Jowai the 30th January, 2020.

The project proponent obtained a cluster certificate from the Division Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/66/MM/Mining Plan/2021-22/07 dated Jowai, the 4th April 2022 which states that there is one (1) approved mining plan lying within 500 meters from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of two mines is summed up to 9.44 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/66/MM/MiningPlan/2021-22/03 dated Jowai, the 4th April 2022. The Mining Plan has been prepared to extract lime stone at the rate of 76584 MTPA with a project cost of Rs.21.50 lakhs and the operations will be open cast, mechanized method of mining.

The mineable reserves of Shale are of the order of 10,93,658 MT. The production in the period of the mining plan will be around 3,24,023 MT in 5 years. Therefore, the balance reserves will be $1093658 - 324023 = 769635$ MT. If the yearly production target is 76584 MT, the balance reserve will be sufficient for $(769635 / 76584) = 10.04$ years. Thus, the total life of the mine is $5 + 10 = 15$ years.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Term of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Term of Reference to this

project, with the Terms and conditions as stipulated in Standard ToR Conditions for Non-Coal mining sector and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.
3. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
4. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
5. Plagiarism check certificate for EIA/EMP report has to be furnished.
6. Source of data taken from external sources is to be mentioned clearly.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Term of Reference.

3.2 Proposal No.SIA/ML/MIN/406324/2022 submitted by Shri. Ken Momin (M/s Umduba Stone Quarry)

The Project Proponent, Shri. Ken Momin submitted an online application for Term of Reference vide proposal No.SIA/ML/MIN/406324/2022 for Term of Reference for **Umduba Stone Quarry** for mining of boulder stone for an area of 2.22 hectares. The proposal is for mining of boulderstone use for construction purposes, hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Umduba, P.O Jorbil, P.S. Khanapara, Raid Marwet, Ri Bhoi District, Meghalaya and toposheet Survey of India No. G46H16 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	26° 03'50.01"N	91° 49'37.50"E
2	26° 03'47.20"N	91° 49'36.10"E
3	26° 03'46.30"N	91° 49'38.40"E
4	26° 03'42.35"N	91° 49'44.03"E
5	26° 03'46.84"N	91° 49'43.70"E

The proposed mining area belong to the Project Proponent vide Gift Deed made on the 13th day of September 2018 at Nongpoh and certified by the Sub-Registrar Nongpoh, RiBhoi District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri-Bhoi (T) Division, Shillong vide letter No.KH/9/NOC/Stone/41/Pt.V/ dated Shillong, the 1st November, 2018 and Letter of Intent vide letter No.KH/8/ML/Stone/69/5114, dated Shillong, the 6th November, 2018 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/11/2018/09 dated Shillong, the 25th August 2022 which states that there are nine (9) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of ten mines is summed up to 21.26 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/11/2018/85 dated Shillong, the 25th April 2019. The Mining Plan has been prepared to extract boulder stone at the rate of 92,224MTPA with a project cost of Rs.18.50 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves would be 1382702 Tonnes with an average annual production of (1382702/15=92180) Tonnes Per Year and production of stone in first five years will be 460715

Tonnes. The average annual production of stone may be different from the annual production of first five years. The balance mineable reserve 921987 Tonnes will be worked out in the subsequent 10 years. Therefore, the life of the mine will be 15 years (first 5 years in plan period + 10 years in conceptual period).

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Term of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Term of Reference to this project, with the Terms and conditions as stipulated in Standard ToR Conditions for Non-Coal mining sector and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.
3. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
4. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
5. Plagiarism check certificate for EIA/EMP report has to be furnished.
6. Source of data taken from external sources is to be mentioned clearly.
7. From Google Earth it was observed the proposed mining site appears to be worked out/operated within part of the proposed area. Hence, Project Proponent is to obtain a written justification from concerned department like Mining & Geology/DMR in approving the mining lease.

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Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Term of Reference.

3.3 Proposal No. SIA/ML/MIN/401371/2022 submitted by Shri. Hilarious Ymbon (M/s Pliangsaw Limestone Mine).

The Project Proponent, Shri. Hilarious Ymbon submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/401371/2022 for **Pliangsaw Limestone Mine** for mining of Lime stone for an area of 1.99 hectares. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Pliangsaw, Elaka Nongtalang, West Jaintia Hills District, Meghalaya and toposheet Survey of India No. G4604 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25°13'25.47"N	92°04'03.65" E
2	25°13'25.71"N	92°03'59.15" E
3	25°13'20.80"N	92°03'57.62" E
4	25°13'21.26"N	92°04'03.35" E

The proposed mining area is on lease for a period of 15 years vide Deed of Lease made on the 5th day of January 2022 at Jowai certified by the Public Notary, West Jaintia Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division vide letter No.JH/IR/IR/F.C/2022-23/985/B/424, dated Jowai, the

8th June 2022 and Letter of Intent vide letter No.JH/H.Y/M.L/L.S/2022-23/B/581 dated Jowai, the 6th July 2022 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/75/MM/Mining Plan/2022-23/20 dated Jowai, the 3rd August 2022 which states that there are four (4) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of these five mines is summed up to 16.24 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/75/MM/Mining plan/2022-23/19 dated Jowai the 1st August 2022. The Mining Plan has been prepared to extract lime stone at the rate of 100575MTPA with a project cost of Rs.22.50 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve of limestone is of the order of 832880MT. The production in the period of this mining plan will be around 502525MT in 5 years. Balance reserves will be $832880 - 502525 = 330355$ MT. If the yearly production target is 100575 tonnes, then the balance reserves will sufficient for $330355/100575 = 3.28$ years. Thus, the total life of the mine is $5 + 3.28 = 8.28$ or say 9 years.

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Term of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Term of Reference to this project, with the Terms and conditions as stipulated in Standard ToR Conditions for Non-Coal mining sector and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.
3. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
4. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
5. Plagiarism check certificate for EIA/EMP report has to be furnished.
6. Source of data taken from external sources is to be mentioned clearly.
7. From Google Earth it was observed the proposed mining site appears to be worked out/operated within part of the proposed area. Hence, Project Proponent is to obtain a written justification from concerned department like Mining & Geology/DMR in approving the mining lease.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Term of Reference.

3.4 Proposal No. SIA/ML/MIN/82965/2022 submitted by Shri. Salchangbarth B. Marak

The Project Proponent, Shri Salchangbarth B. Marak submitted an online application for Term of Reference vide proposal No.SIA/ML/MIN/82965/2022 for **Dajongpara Stone Mine** for mining of boulder stone for an area of 9.81 hectares. The proposal is for mining of boulder stone use for construction purposes, hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Dajongpara, North Garo Hills District, Meghalaya and Survey of India toposheet No.78K/5 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
	Latitude	Longitude
1	25°56'13.45"N	90°27'53.08" E
2	25°56'12.68"N	90°27'54.10" E
3	25°56'12.37"N	90°27'56.04" E
4	25°56'23.80"N	90°27'57.50" E
5	25°56'22.14"N	90°27'51.66" E
6	25°56'15.58"N	90°27'40.55" E
7	25°56'08.93"N	90°27'39.68" E
8	25°56'01.76"N	90°27'45.73" E
9	25°56'04.80"N	90°27'47.88" E
10	25°56'09.55"N	90°27'42.19" E
11	25°56'13.93"N	90°27'40.92" E
12	25°56'17.50"N	90°27'46.97" E
13	25°56'16.64"N	90°27'49.64" E

The proposed mining area is on lease for a period of 20 years vide Lease Deed made on the 9th day of July 2020 certified by the Assistant Registrar, North Garo Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Chief Conservator of Forests (T), Meghalaya, Shillong, vide letter No.MFG.39/42/NFLC/MINING/MMMCR/2016/GH/12396, dated Shillong, the 23rd December 2021 and Letter of Intent confirmed by the Principal Chief Conservator of forests &HoFF, Meghalaya vide letter No.MFG.39/42/LOI/MMMCR/2016/1688, dated Shillong, the 18th May, 2022 respectively.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar, vide letter No. DMO-W/MP/15/2019/65 dated Williamnagar the 18th August 2022 where it is mentioned that that there are two (2) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of three mines is summed up to 24.32 hectares.

The project proponent submitted mining plan approved by the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No. DMO-W/MP/83/2022/53 dated Williamnagar the 22nd July 2022. The Mining Plan has been prepared to extract boulder stone at 478453 Tonnes with a project cost of Rs. 43.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves would be 9569060 Tonnes with an average annual production of 478453 (9569060/20=478453) Tonnes. The average annual production of limestone may be different from annual production of five years plan period .Thus 2391446 Tonnes of the total mineable reserve will be worked out in first five years and the rest quantity of mineable reserve i.e.(9569060-2391446)=7177614 Tonnes would be exhausted in further 15 years @ 478508 Tonnes per annum. Therefore, the life of the mine will be 20 years (five years in plan period + fifteen years in conceptual period).

Recommendation:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 21st February, 2023 noted the recommendation relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Term of Reference to this project.


Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Term of Reference to this

project, with the Terms and conditions as stipulated in Standard ToR Conditions for Non-Coal mining sector and additional conditions as given below;

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.
3. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
4. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
5. Plagiarism check certificate for EIA/EMP report has to be furnished.
6. Source of data taken from external sources is to be mentioned clearly.

Member Secretary shall prepare the draft Term of Reference for this project and circulate the same to all Members of the Authority for views/comments/corrections, if any, and then after approval of the Chairman, the Member Secretary shall issue the final Term of Reference.

The meeting ended with a vote of thanks from the Chairman.



Chairman
SEIAA,
Meghalaya, Shillong.

Memo. No. ML/SEIAA/Meeting/ Vol.IV/53/2021

Dated Shillong, the March' 2023

Copy to :

- 1) Member, SEIAA, Meghalaya, Shillong for information.
- 2) File concern for record


Member Secretary
SEIAA,
Meghalaya, Shillong.