



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

:: MEGHALAYA ::

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MINUTES OF THE MEETING OF THE SEIAA, MEGHALAYA

HELD ON 30th August 2022 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 27th July 2022 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/265312/2022 submitted by Shri. Jeffry Shangpliang (M/S Umpung Boulderstone Mine).

The Project Proponent, Shri. Jeffry Shangpliang submitted online application vide proposal No.SIA/ML/MIN/265312/2022 for Environmental Clearance for Umpung Boulderstone Mine for an area of 1.40 hectares. The proposal for mining of boulder stone is use for construction purposes-buildings, road projects, dams, etc., and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Umpung Village, South West Khasi Hills, Meghalaya and toposheet Survey of India No. 78 O/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°13'47.73"N	91°21'4.93" E
2	25°13'46.34"N	91°21'5.25" E
3	25°13'45.81"N	91°21'5.03" E
4	25°13'45.86"N	91°21'3.20" E
5	25°13'46.34"N	91°20'59.85" E
6	25°13'47.67"N	91°21'1.08" E
7	25°13'50.33"N	91°21'0.99" E
8	25°13'51.08"N	91°21'0.27" E
9	25°13'51.25"N	91°21'2.10" E
10	25°13'49.84"N	91°21'2.76" E
11	25°13'48.62"N	91°21'3.79" E

The proposed mining area is on lease for a period of 30 years vide Lease Deed executed on the 16th of February, 2021 and certified through by Public Notary, East Khasi Hills, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, SF & Territorial Division, West and South West Khasi Hills vide letter

No.T/WSW/21/NOC(S)/733dated Nongstoin, the 28thMay, 2021 and Letter of Intent vide No.T/W&SW/ML/LS/169/1013 dated Nongstoin the 3rd September,2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/140/2021/09dated Shillong, the 27thJanuary 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/140/2021/4 dated Shillong, the 20thDecember 2021. The Mining Plan has been prepared to extract limestone at 40128TPA with a project cost of Rs.18.50 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the anticipated life of mine will be of 9 years.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

1. LOI ought to be renewed as the validity has expired
2. The Project Proponent has to construct a retaining wall of 5 or 6 feet height covering all along the slope and spill ways along the periphery to ensure that no run off to the nearby agricultural land takes place.
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. 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.
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 pillars 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.

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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.

2.2 Proposal No.SIA/ML/MIN/254422/2022 submitted by Smti. Streamlet Merry Syiem (M/S Mawpyrsnong Limestone Mine)

The Project Proponent, Smt. Streamlet Merry Syiem submitted online application vide proposal No.SIA/ML/MIN/254422/2022 for Environmental Clearance for Mawpyrsnong 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 Mawpyrsnong, North Side of Kharabi, Hima Bhowal Syiemship, East Khasi Hills, Meghalaya and toposheet Survey of India No. 78 O/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°12'57.46"N	91°24'12.63" E
2	25°12'57.38"N	91°24'21.09" E
3	25°12'51.49"N	91°24'22.09" E
4	25°12'51.20"N	91°24'12.30" E

The proposed mining area belongs to the project proponent vide Land Holding Certificate issued on the 22nd of October 2020 by the Syiem of Bhowal Syiemship and certified by Public Notary, East Khasi Hills District.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills and Ri Bhoi (T) Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt IV/3249 dated Shillong, the 29th September, 2021 and Letter of Intent vide No.KH/8/ML/Limestone/68/3415 dated Shillong the 12th October, 2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/148/2021/06 dated Shillong, the 25th January 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/148/2021/2 dated Shillong, the 2nd December 2021. The Mining Plan has been prepared to extract limestone at 230196 TPA with a project cost of Rs.24.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves would be 4597560 Tonnes with an average annual production of 229878 (4597560/20=229878) Tonnes. The average annual production of limestone may be different from annual production of first five years. Thus, 1148772 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e (4597560-1148772)=3448788 Tonnes would be exhausted in

further 15 years @229919 Tonnes per annum. Therefore the life of the mine will be 20 years(5 years in plan period + 15 years in conceptual period).

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

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. 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.
4. 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.
5. 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.
6. 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.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. 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.
9. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. 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.
11. 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.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
13. 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/258631/2022 submitted by Shri. Rudolf G. Kyndiah (M/S Sapiang Limestone Mine)

The Project Proponent, Shri Rudolf G. Kyndiah submitted online application vide proposal No.SIA/ML/MIN/258631/2022for Environmental Clearance for Sapiang Limestone Mine for an area of 1.85 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 Sapiang, Rah Khlieh, Dong Shoh Tngo, Shnongrim Village, East Jaintia Hills District, Meghalaya and toposheet Survey of India No. 83 C/11 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°20'27.2"N	92°31'53.3" E
2	25°20'27.9"N	92°31'52.1" E
3	25°20'30.5"N	92°31'53.3" E
4	25°20'32.1"N	92°31'54.7" E
5	25°20'32.9"N	92°31'55.7" E
6	25°20'33.0"N	92°31'56.3" E
7	25°20'34.1"N	92°31'57.7" E
8	25°20'34.6"N	92°31'58.7" E
9	25°20'35.5"N	92°31'59.2" E
10	25°20'33.0"N	92°31'59.0" E
11	25°20'31.7"N	92°31'58.4" E
12	25°20'30.2"N	92°31'57.4" E
13	25°20'29.5"N	92°31'56.6" E
14	25°20'29.1"N	92°31'55.6" E

The proposed mining area is on lease for a period of 15 years vide Deed of Lease executed on the 2nd of May, 2019 and certified by Public Notary, West Jaintia Hills, Meghalaya.

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/IR/F.C/2021-22/985/B/1123 dated Jowai, the 22nd October, 2021 and Letter of Intent vide No.JH/R.G.K/ML/LS/2021-22/B/1254 dated Jowai the 9th November, 2021.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMO-J/57/MM/Mining plan/2021-22/164 dated Jowai, the 5th January 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 Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/57/MM/Mining plan/2021-22/162 dated Jowai, the 5th January 2022. The Mining Plan has been prepared to extract limestone at 60075 TPA with a project cost of Rs. 11.50 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 6,57,000 MT. The production in the period of the mining plan will be around 3,00,375 MT in 5 years. The balance reserves will be $(6,57,000 - 3,00,375) = 3,56,625$ MT. If the yearly production target is 60,075 MT, the balance reserve will be sufficient for $(356625/60075) = 5.93$ years. Thus total life of the mine is $(5 + 5.93) = 10.93$ or say 11 years.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

1. LOI ought to be renewed as the validity has expired
2. Blasting shall not be carried out in the lease area for safety reasons.
3. The Project Proponent has to construct a retaining wall of 5 or 6 feet height covering all along the slope and spill ways along the periphery to ensure that no run off to the nearby agricultural land takes place.

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. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
11. The project proponent erected only four pillars out of eleven. However, the boundary pillars should be erected 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.
12. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
13. 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.
14. 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.
15. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
16. 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/277943/2022 submitted by Smti. Danima Pdang (M/S Larung Limestone Mine)

The Project Proponent, Smt. Danima Pdang submitted online application vide proposal No.SIA/ML/MIN/277943/2022 for Environmental Clearance for Larung Limestone Mine for an area of 1.60 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 Larung, Lumshnong Village, East Jaintia Hills, Meghalaya and toposheet Survey of India No. 83 C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°10'52.3"N	92°24'20.2" E
2	25°10'52.6"N	92°24'20.5" E
3	25°10'53.3"N	92°24'20.8" E
4	25°10'53.4"N	92°24'20.9" E
5	25°10'54.4"N	92°24'21.3" E
6	25°10'54.9"N	92°24'21.2" E
7	25°10'55.0"N	92°24'20.6" E
8	25°10'55.5"N	92°24'19.9" E
9	25°10'55.5"N	92°24'19.6" E
10	25°10'55.6"N	92°24'19.3" E
11	25°10'56.4"N	92°24'18.9" E
12	25°10'56.7"N	92°24'18.9" E
13	25°10'56.9"N	92°24'19.2" E
14	25°10'58.2"N	92°24'20.3" E
15	25°10'58.6"N	92°24'19.8" E
16	25°10'58.5"N	92°24'19.5" E
17	25°10'58.4"N	92°24'19.0" E
18	25°10'58.7"N	92°24'18.2" E
19	25°10'58.0"N	92°24'17.5" E
20	25°10'56.8"N	92°24'16.6" E
21	25°10'56.7"N	92°24'16.1" E
22	25°10'55.9"N	92°24'16.3" E
23	25°10'55.8"N	92°24'16.6" E
24	25°10'55.4"N	92°24'16.5" E
25	25°10'54.6"N	92°24'17.3" E
26	25°10'53.5"N	92°24'17.0" E
27	25°10'53.3"N	92°24'17.4" E
28	25°10'52.8"N	92°24'17.8" E
29	25°10'52.5"N	92°24'18.8" E
30	25°10'52.5"N	92°24'19.5" E
31	25°10'52.7"N	92°24'19.8" E

The proposed mining area is on lease for a period of 30 years vide Lease Agreement executed on the 30th of November, 2021 and certified by Public Notary, Khliehriat, East Jaintia Hills, Meghalaya.

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/IR/LS/F.C/2021-22/985/B/1539 dated Jowai, the 23rd December, 2021 and Letter of Intent vide No.JH/D.P/ML/1.6ha/L.S/2021-22/B/1588 dated Jowai the 7th January, 2022.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMO-J/63/MM/Mining plan/2021-22/174 dated Jowai, the 8th March 2022 where it is mentioned that that there is only(1) one approved mine lying within 500 metres from the applied mining lease area and the total area of two mines is summed up to 3.57 hectares. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/63/MM/Mining plan/2021-22/173 dated Jowai, the 7th March 2022. The Mining Plan has been prepared to extract limestone at 109217 TPA with a project cost of Rs. 24.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

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As per the Mining Plan, the mineable reserve of limestone is of the order of 3,05,809MT. The production in the period of the mining plan will be around 3,05,809 MT in 5 years. The balance reserves will be (3,05,809-3,05,809) =00 MT. Thus total life of the mine is 5 years.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

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. 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.
4. 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.
5. 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.
6. 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.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. 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.
9. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. 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.
11. 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.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
13. 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/277137/2022 submitted by Shri. Christopher Rani (M/S Rasong Limestone Mine)

The Project Proponent, Shri. Christopher Rani submitted online application vide proposal No.SIA/ML/MIN/277137/2022 for Environmental Clearance for Rasong Limestone Mine for an area of 2.00 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 Porjrei, Pormawdar Village, Nongstoin Syiemship, South West Khasi Hills, Meghalaya and toposheet Survey of India No. 78 O/3 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°17'11.60"N	91°00'43.10" E
2	25°17'11.00"N	91°00'50.10" E
3	25°17'07.80"N	91°00'49.50" E
4	25°17'08.40"N	91°00'42.50" E

The proposed mining area is on lease for a period of 15 years vide Lease Agreement executed on the 8th of December, 2021 and certified by Public Notary, East Khasi Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, SF & Territorial Division, West & South West Khasi Hills vide letter No.T/W&SW/20/NOC(L)/1672 dated Nongstoin, the 15th December, 2021 and Letter of Intent vide No.T/W&SW/ML/LS/21-22/199/1704 dated Nongstoin the 20thDecember, 2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/157/2022/06 dated Shillong, the 12th May 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/157/2022/02 dated Shillong, the 21st February 2022. The Mining Plan has been prepared to extract limestone at 180240 TPA with a project cost of Rs. 24.50 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the mine has a total Mineral Reserve of 15,52,800 MT and after leaving residual benches, the Extractable Mineral Reserve come to 8,93,844 MT. The mine is targeted to produce 1,80,000 TPA of Limestone. Taking 300 days as the average working days per annum, the daily production comes to around 600 TPD, hence, the anticipated life of the mine will be 4.97 years, say 5 years.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

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. 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.
4. 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.

5. 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.
6. 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.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. 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.
9. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. 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.
11. 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/273457/2022 submitted by Shri. Kynmaw Laloo (M/S Mooshynroo Boulderstone Mine)

The Project Proponent, Shri. Kynmaw Laloo submitted online application vide proposal No.SIA/ML/MIN/273457/2022for Environmental Clearance for Mooshynroo Boulderstone Mine for an area 0.70 hectare. The proposal for mining of boulder stone is use for construction purposes-buildings, road projects, dams, etc., and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Mooshynroo, Moodymai, West Jaintia Hills, Meghalaya and toposheet Survey of India No. 83 C/2 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°30'41.0"N	92°07'38.0" E
2	25°30'42.4"N	92°07'40.8" E
3	25°30'43.7"N	92°07'39.2" E
4	25°30'44.4"N	92°07'38.1" E
5	25°30'43.5"N	92°07'36.1" E

The proposed mining area is on lease for periods of 25 years vide Deed of Lease executed on the 30th of November, 2021 at Jowai and certified by 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, Jowai vide letter No.JH/IR/IS/F.C/2021-22/985/B/1215 dated Jowai, the 1st November, 2021 and Letter of Intent vide No.JH/K.L/M.L/B.S/2021-22/B/1461 dated Jowai the 10thDecember, 2021.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMO-J/59/MM/Mining plan/2021-22/166 dated Jowai, the 5th January 2022 where it is mentioned that that there is no approved 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 Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No. DMO-J/59/MM/Mining plan/2021-22/163 dated Jowai, the 5th January 2022. The Mining Plan has been prepared to extract limestone at 22066 TPA with a project cost of Rs. 9.50 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the mineable reserves of boulder stone is of the order of 1,08,130 MT. The production in the period of the mining plan will be around 82,258 MT in 5 years. The balance reserves will be $(1,08,130 - 82,258) = 25,872$ MT. If the yearly production target is 10,000 MT after 5 years mining plan period, the balance reserve will be sufficient for $(25,872 / 10,000) = 2.58$ years. Thus total life of the mine is $(5 + 2.58) = 7.58$ or say 8 years.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

1. LOI ought to be renewed as the validity has expired
2. The Project Proponent has to construct a retaining wall of 5 or 6 feet height covering all along the slope and spill ways along the periphery to ensure that no run off to the nearby agricultural land takes place.
3. 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.
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.

2.7 Proposal No.SIA/ML/MIN/60309/2020 submitted by Smti. Falguni Warisa

The Project Proponent Smti. Falguni Warisa, submitted online application vide proposal No.SIA/ML/MIN/60309/2020 for Environmental Clearance for mining of boulder stone for an area of 2.61 hectare. 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 applied area located at Umduba, Raid Marwet, Mylliem Syiemship, Ri-Bhoi District, Meghalaya and toposheet Survey of India No 78 N/16 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	26°03'42.69"N	91°49'34.94"E
2	26°03'40.75"N	91°49'34.13"E
3	26°03'40.65"N	91°49'31.20"E
4	26°03'41.53"N	91°49'28.15"E
5	26°03'44.02"N	91°49'25.30"E
6	26°03'46.18"N	91°49'26.37"E
7	26°03'45.57"N	91°49'30.23"E
8	26°03'44.14"N	91°49'31.26"E
9	26°03'43.06"N	91°49'33.30"E

The land belongs to the project proponent vide Deed of Declaration made at Nongpoh the 25th January 2019 certified by Sub-Registrar, Nongpoh.

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/9/NOC/Stone/41/Pt.V/514 dated Shillong, the 02nd May 2019 and Letter of Intent vide No.KH/8/ML/Stone/69/560 dated Shillong, the 21st May 2019.

The project proponent has obtained a cluster certificate from the office of the Director, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/45/2019/1122 dated Shillong, the 24th September 2019 where its mention that nine approved mining plan of different project proponent located within 500 metres. Hence the applied mining area fall under cluster category with a total area of 24.99 ha and as per Ministry of Environment, Forest and Climate Change Notification No.S.O.3977 (E) dated New Delhi, the 14th August 2018 in appendix - XI, the project fall under category B2. Hence, the project proponent needs to prepare Environment Management Plan.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the office of the Directorate of Mineral Resources, Government of Meghalaya, Shillong vide letter No.DMR/MM/45/2019/490 dated Shillong, 21st June 2019. The Mining Plan

has been prepared to extract Boulder stone at an annual rate of 12,72,900MT of the highest production with a project cost of Rs.24.50 lakhs.

As per the mining plan, the mineable reserves of boulder stone are of the order of 16,55,400 tons with the production period as per mining plan will be around 12,72,900 tons in 5 years. The balance reserve $16,55,400 - 12,72,900 = 3,82,500$ tons with production target of 2,80,260 tons. The balance reserves will sufficient for $3,82,500 / 2,80,260 = 1.36$ years. Thus the total life of the mine is $5 + 1.36 = 6.36$ years.

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/RiBhoi/P-4/2020/1188 dated 23rd June 2020 and submitted the final EIA/EMP for the proposed Mining of Boulder stone where the project proponent complied all the points in compliance to the Term of Reference prepared by Enviro Infra Solutions PVT. LTD.

The public hearing was held on 21st December 2020 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri. B. J. Kharshandi, MCS, ADC, Ri-Bhoi District.

As per the letter from the Deputy Commissioner, RiBhoi District dated 14/9/2020, directed for cancellation of all new permissions granted after 9th July 2020 in RiBhoi District. However, in the case of this particular project, the Member Secretary, SEIAA vide letter No.ML/SEIAA/MIN/RiBhoi/P-4/2020/332 forwarded a copy of the Advocate General's opinion to consider the application for Environmental Clearance submitted by Smt.FalguniWarisa.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, and presentation of the EIA/EMP, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

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 is to be constructed in the area designated within mining area for stacking of Over Burden(OB) to ensure that no spillage of OB materials is possible beyond mining site.
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. Planting of nurseries plant should start simultaneously with the commencement of the project.

9. CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 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.

2.8 Proposal No.SIA/ML/MIN/53444/2020 submitted by Shri. Shembhlang K. Rymmai (M/S Sohmluh Limestone Quarry)

The Project Proponent Shri. Shembhlang K. Rymmai submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/53444/2020 for mining of limestone for an area of 4.50 hectare. The proposal is for mining of lime stone use as building and construction materials for various construction purposes as well as for supply to limestone kilns. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Sohmluh, Elaka Wahlong East Khasi Hills District, Meghalaya and topsheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 10' 50.5"N	91° 43' 07.7"E
2	25° 10' 48.7"N	91° 43' 03.4"E
3	25° 10' 48.5"N	91° 43' 00.2"E
4	25° 10' 46.0"N	91° 43' 00.2"E
5	25° 10' 42.19"N	91° 43' 02.86"E
6	25° 10' 44.37"N	91° 43' 09.39"E

The proposed land measuring for 4.50 hectare is on lease for 30 years vide Lease Agreement which was executed on 24th January 2019 and certified by Notary Public Govt of Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri Bhoi Territorial Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/7610, dated Shillong, the 20th May 2019 and letter of Intent vide letter No.KH/8/ML/Limestone/68/7734 dated Shillong, the 23rd March 2019.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/34/2019/1779 dated Shillong, the 24th January, 2020 which states that there are another four limestone mines of different owners lying within 500 metres from the applied

mining lease area. Hence the applied mining area falls under cluster category with a total area of all the five mines is summed up to 14.6242 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong vide letter No.DMR/MM/34/2019/128, dated Shillong, the 2nd May 2019. The Mining Plan has been prepared to extract Lime stone at an average annual production of 1,62,478 TPA with a project cost of Rs.30.45 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the mineable reserves of the lime stone is 32, 48,667 tonnes with an average annual production of 162433($3248667/20=162433$) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 807946 tonnes of the total mineable reserve will be worked out in first 5 years and the balance mineable reserve will be worked out in further 15 years@164715 tonnes per year. Therefore, the life of the mine will be 20 years (five years in plan period + fifteen years in conceptual period).

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-41/2020/1482 dated 27th August 2020 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 Environmental Research and Analysis.

The public hearing was held on 20th January 2021 conducted by the Meghalaya State Pollution Control Board presided by Smt. D. Phawa, MCS, ADC, East Khasi Hills District.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth; the Project Proponent has furnished the water quality and soil status report of samples collected from project site and analysed by labs accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) and recognised by the Ministry of Environment, Forest and Climate Change (MoEF&CC). The committee unanimously recommended for grant of Environment Clearance with the following conditions.

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.

2.9 Proposal No.SIA/ML/MIN/66635/2021 submitted by Smt. Arbina M. Sangma (M/S Bagli Limestone Mine).

The Project Proponent Smt. Arbina M. Sangma submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/66635/2021 for mining of limestone for an area of 1.0 hectare. The proposal is for mining of lime stone use for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Bagli, South West Khasi Hills, District, Meghalaya and toposheet Survey of India No.780/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12'34.00"N	91° 04'22.00"E
2	25° 12'36.00"N	91° 04'21.00"E
3	25° 12'38.19"N	91° 04'23.48"E
4	25° 12'35.43"N	91° 04'24.49"E

The proposed mining area is on lease for a period of 10 years vide Deed of Lease Agreement executed on the 9th of November 2017 certified by District Registrar, South West Khasi Hills District, Mawkyrwat.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Territorial Division, West & South West Khasi Hills, Nongstoin vide letter No.T/W&SW/20/NOC(L)/170 dated Nongstoin, the 7th February 2018 and letter of Intent vide letter No.T/WSW/ML/LS/A.M Sangma(1ha)/217 dated Nongstoin, the 21st February, 2019 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/26/2019/10 dated Shillong, the 4th August 2021 which states that there are seven (7) 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 eight mines is summed up to 17.2 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/26/2019/45 dated Shillong, the 17th April 2019. The Mining Plan has been prepared to extract lime stone at the rate of 83960 TPA with a project cost of Rs. 28.5 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve would be 419799 Tonnes with an average annual production of 83960 ($419799/5=83960$) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus the total mineable reserve will be worked out in 5 years. Therefore, the life of the mine will be 5 years (five years in plan period).

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/SWKH/P-188/2021/742 dated 6th October 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 Environmental Research and Analysis.

The public hearing was held on 14th January 2022 conducted by the Meghalaya State Pollution Control Board presided by Shri. W.Biam, MCS, ADC & i/c SDO Ranikor Civil Sub Division, South West Khasi Hills District.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through Google Earth. The Project Proponent has furnished the water quality and soil status report of samples collected from project site and analysed by labs accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) and recognised by the Ministry of Environment, Forest and Climate Change (MoEF&CC). The committee unanimously recommended for grant of Environment Clearance with the following conditions.

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.

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 Sept' 2022

Copy to :

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


Member Secretary
SEIAA,
Meghalaya, Shillong.