



STATE ENVIRONMENT IMPACTASSESSMENT AUTHORITY(SEIAA)
:: MEGHALAYA::

'Silviculture Building', Lower Lachumiere ,Shillong - 793 001
Email : ms.seiaamegh@gmail.com

MINUTES OF THE MEETING OF THE SEIAA, MEGHALAYA
HELD ON 29th SEPTEMBER 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 20th September 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/287335/2022 submitted by Smti. Darilin Nongkhlaw (M/S CoDeo Stone Mine)

The Project Proponent, Smti. Darilin Nongkhlaw, submitted online application for Environmental Clearance for CoDeo Stone Mine vide proposal No.SIA/ML/MIN/287335/2022 for mining of Boulderstone for an area of 2.0 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 mining lease area is located at Laitmawroh village, Rural Area, Block Khadarshnong, Laitkroh, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/15 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 24' 20.8"N	91° 50' 53.2"E
2	25° 24' 23.0"N	91° 50' 50.6"E
3	25° 24' 27.4"N	91° 50' 55.8"E
4	25° 24' 25.3"N	91° 50' 58.5"E

The proposed mining area belongs to the project proponent vide Deed of Declaration executed on the 22nd March 2017 and certified by Sub Registrar, East Khasi Hills District, Shillong.

The applied area is a Non Forest Land which was confirmed by the Conservator of Forests(T), Khasi and Jaintia Hills, Meghalaya, Shillong vide letter No.MFG./39/42/NFLC/MINING/MMMCR/KH/Pt.II/762, dated Shillong, the 14th April 2022 and Letter of Intent confirmed by the Divisional Forest Officer, East Khasi Hills & Ri Bhoi(T) Division, Shillong vide letter No.KH/8/ML/Stone/69/433, dated Shillong, the 28th April 2022.

The project proponent obtained a cluster certificate Mining Engineer, Directorate of Mineral Resources, Meghalaya , Shillong vide letter No.DMR/MM/173/2022/09 dated Shillong,

the 12th July, 2022 which states that there is no approved mine lying within 500 meters from the applied mining lease area.

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/173/2022/04 dated Shillong, the 6th July, 2022. The Mining Plan has been prepared to extract boulder stone at an average annual production of 1,20,000 tons per annum with a project cost of Rs.50.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mine has a Total Mineable Reserves (111& 122) of 18,55,508 MT and after leaving residual benches, the Extractable Mineable Reserves come to 11,89,610 MT. The mine is targeted to produce 1,20,000 TPA of boulder stone. Taking 300 days as the average working days per annum, the daily production comes to around 400 TPD. Hence, the anticipated life of mine will be 9.91 years, say 10 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) 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.
- 2) 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 110 meter on the western direction, sloping to the valley below to ensure that no spillage of OB materials.
- 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. Planting of nurseries plant should start simultaneously with the commencement of the project.
- 8) CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 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/283564/2022 submitted by Shri. ĩainehskhem Gallong

The Project Proponent, Shri. ĩainehskhem Gallong submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/283564/2022 for mining of Lime stone for an area of 4.45 hectares. The proposal is for mining of lime stone to be used in kilns for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Temmaw, Elaka Wahlong Sirdarship, East Khasi Hills, District, Meghalaya and toposheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 10'49.44"N	91° 42'58.44"E
2	25° 10'57.35"N	91° 42'58.60"E
3	25° 10'56.47"N	91° 43'05.18"E
4	25° 10'50.73"N	91° 43'06.76"E

The proposed mining area is on lease for a period of 30 years vide Lease Agreement made on the 22nd January 2020 certified by Notary, East Khasi Hills 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 vide letter No.KH/8/NOC/Limestone/41/Pt.IV/5476 dated Shillong, the 22nd February 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/5526 dated Shillong, the 23rd February, 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/116/2021/10 dated Shillong, the 3rd August 2021 which states that there are six (6) 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 seven mines is summed up to 19.3672 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/116/2021/05 dated Shillong, the 30th June 2021. The Mining Plan has been prepared to extract lime stone at the rate of 265804 TPA with a project cost of Rs.29.5 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve would be 3987063 Tonnes with an average annual production of 265804 (3987063/15=265804) Tonnes. The average annual production of limestone may be

different from annual production of five years plan period. Thus 1328074 tonnes of the total mineable reserves will be worked out in first 5 years and the rest quantity of mineable reserve i.e.(3987063-1328074)=2658989 tonnes would be exhausted in further 10 years with an average production of 265899 tonnes/annum. Therefore, the life of the mine will be 15 years (five years in plan period +10 years of conceptual working period).

The project has already been awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-190/2021/730 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 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, MCS, ADC, East Khasi Hills District and Chairperson, EPH.

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.

2.3 Proposal No.SIA/ML/MIN/284560/2022 submitted by Shri. Hamarbabiang Khongsni

The Project Proponent, Shri. Hamarbabiang Khongsni submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/284560/2022 for Hamar Limestone Mine for mining of Lime stone for an area of 1.36 hectare. The proposal is for mining of lime stone to be used in kilns for building and construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ri Laingut, Lynti Dkhar Area, Sohbar Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 11' 12.284"N	91° 44' 58.611"E
2	25° 11' 14.631"N	91° 44' 58.611"E
3	25° 11' 14.599"N	91° 44' 57.968"E
4	25° 11' 15.936"N	91° 44' 58.162" E
5	25° 11' 16.840"N	91° 44' 55.020"E
6	25° 11' 14.989"N	91° 44' 53.380"E
7	25° 11' 13.874"N	91° 44' 54.874"E
8	25° 11' 13.582"N	91° 44' 54.264"E
9	25° 11' 12.853"N	91° 44' 54.268"E
10	25° 11' 12.610"N	91° 44' 57.839"E
11	25° 11' 12.284"N	91° 44' 57.890"E

The proposed mining area belongs to the project proponent vide Deed of Declaration made on the 28th September 2020 certified by Sub-Registrar, Sohra, East Khasi Hills, 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/5622, dated Shillong, the 2nd March 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4701, dated Shillong, the 4th 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/113/2021/07 dated Shillong, the 29th June 2021 which states that there are nine (9) 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 ten mines is summed up to 22.3115 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/113/2021/02 dated Shillong, the 24th April 2021. The Mining Plan has been prepared to extract lime stone at the rate of 60000 TPA with a project cost of Rs.28.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mine has a Total Mineable Reserves excluding safety barrier of 1125579 MT but after leaving residual benches, the Extractable Mineable Reserves comes to 664378 MT. As the mine is targeted to produce 60000MT of limestone per annum and taking 300 days as the average number of working days per annum, the anticipated life of mine will be 11.07 years, say 12 years.

The project has already been awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-184/2021/778 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 CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 18th January 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smti. D. Phawa, MCS, ADC, East Khasi Hills District and Chairperson, EPH.

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.

2.4 Proposal No.SIA/ML/MIN/281491/2022 submitted by Smti. Maria Ryngnga

The Project Proponent, Smti. Maria Ryngnga submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/281491/2022 for Sohmluh Limestone Mine for mining of Lime stone for an area of 0.693 hectares. The proposal is for mining of lime stone to be used in kilns for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ka Sohmluh, Tyngwai Area, Sohbar Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 10'38.22"N	91° 43'18.42"E
2	25° 10'44.76"N	91° 43'19.68"E
3	25° 10'44.82"N	91° 43'18.36"E
4	25° 10'38.22"N	91° 43'17.28"E

The proposed mining area is on lease for a period of 20 years vide Lease Agreement made on the 24th June 2020 certified by Notary Public, East Khasi Hills District, 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/2277, dated Shillong, the 8th September 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/2785, dated Shillong, the 15th September, 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/89/2020/09 dated Shillong, the 4th June 2021 which states that there are four (4) 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 five mines is summed up to 8.5592 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/89/2020/02 dated Shillong, the 26th November 2020. The Mining Plan has been prepared to extract lime stone at the rate of 45129 TPA with a project cost of Rs.22.00 lakhs and the operations will be open cast, semi-mechanized method of mining

The mineable reserve would be 225645 tonnes with an average annual production of 45129 (225645/5=45129) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 225619 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e (225645-225619) =26 tonnes would be mining loss. Therefore, the life of the mine will be 5 years (five years in plan period).

The project has already been awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-183/2021/802 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 CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 11th January 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smti. D. Phawa, MCS, ADC, East Khasi Hills District and Chairperson, EPH.

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.

2.5 Proposal No.SIA/ML/MIN/282808/2022 submitted by Shri. Sangip M. Marak

The Project Proponent, Shri. Sangip M Marak submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/282808/2022 for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 1.84 hectare. The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ri Jyrkha, Mawlong Elaka, Mawlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 06.6"N	91° 41' 07.1"E
2	25° 12' 06.9"N	91° 41' 08.7"E
3	25° 11' 54.0"N	91° 41' 07.0"E
4	25° 11' 53.9"N	91° 41' 05.2"E

The proposed mining area is on lease for 30 years vide Deed of Lease Agreement made on 17th October 2020 at Shillong certified by Notary Public, East Khasi Hills.

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/4343, dated Shillong, the 15th December, 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4384 dated Shillong, the 15th December 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/108/2021/08 dated Shillong, the 9th June 2021 which states that there are three (3) approved mining plans lying within 500 meters from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area four mines is summed up to 6.725 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/108/2021/04 dated Shillong, the 8th April 2021. The Mining Plan has been prepared to extract lime stone at the rate of 62467 TPA with a project cost of Rs.27.50 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 624729 tonnes with an average annual production of 62473(624729/10=62473) tonnes. The average annual production of limestone may be different from annual production of five year plan period. Thus 312076 tonnes of the total mineable reserve will be worked out in first five years and the rest quantity of mineable reserves i.e. (624729 - 312076) = 312653 tonnes would be exhausted in further 5 years @ 62531 tonnes per annum. Therefore, life of the mine will be 10(five years in plan period +5 years in conceptual period).

The project has already been awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-167/2021/536 dated 17th September 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 January 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smti. D. Phawa, MCS, ADC, East Khasi Hills District and Chairperson, E.P.H.

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.

2.6 Proposal No.SIA/ML/MIN/79381/2021 submitted by Shri. Methos Marweñ.

The Project Proponent, Shri. Methos Marwein submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/79381/2021 for Sohnañ Limestone Mine for mining of Lime stone for an area of 1.77 hectare. The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Sohnañ, Wahlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 11' 21.51"N	91° 42' 32.90"E
2	25° 11' 22.44"N	91° 42' 33.45"E
3	25° 11' 22.95"N	91° 42' 33.40"E
4	25° 11' 23.09"N	91° 42' 34.10" E
5	25° 11' 22.84"N	91° 42' 35.57"E
6	25° 11' 24.09"N	91° 42' 35.92"E
7	25° 11' 22.86"N	91° 42' 38.62"E
8	25° 11' 22.30"N	91° 42' 40.32"E
9	25° 11' 21.25"N	91° 42' 40.49"E
10	25° 11' 19.90"N	91° 42' 39.46"E
11	25° 11' 19.96"N	91° 42' 38.94"E
12	25° 11' 19.09"N	91° 42' 38.51"E
13	25° 11' 19.01"N	91° 42' 38.11"E
14	25° 11' 19.20"N	91° 42' 37.06"E
15	25° 11' 20.70"N	91° 42' 35.81"E

The proposed mining area is on lease for a period of 25 years vide Lease Agreement made on the 28th January, 2021 certified by Notary Public, East Khasi Hills District, 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/6062, dated Shillong, the 24th March 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/6110, dated Shillong, the 25th 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/199/2021/06 dated Shillong, the 12th July 2021 which states that there are four (4) approved mining plans lying within 500 meters 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 8.7511 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/119/2021/02 dated Shillong, the 17th June 2021. The Mining Plan has been prepared to extract lime stone at the rate of 57650 MTPA with a project cost of Rs.16.50 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 910200tonnes. The production in the period of the mining plan will be around 288250 tonnes in 5 years. Therefore, the balance reserves will be $(910200 - 288250)$ or 621950tonnes. If the production target is 57650 tonnes, the balance reserve will be sufficient for $(621950 / 57650) = 10.78$ years. Thus, the total life of the mine is $5 + 10.78 = 15.78$ or say 16years.

The project has already been awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-211/2021/1212 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 8th April 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smti. D. Phawa, MCS, ADC, East Khasi Hills District and Chairperson, E.P.H.

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.

2.7 Proposal No.SIA/ML/MIN/266555/2022 submitted by Shri. Raynold Milton Laloo (M/s Borsohra Limestone Mine).

The Project Proponent, Shri. Raynold Milton Laloo submitted an online application for Environmental Clearance vide proposal No.SIA/ML/MIN/266555/2022 for mining of limestone for an area of 4.66 hectare. The proposal is for mining of limestone 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 mining lease area is located at Borsohra, South West Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12'10.2526"N	91° 10'57.9439"E
2	25° 12'9.6783"N	91° 11'2.3697"E
3	25° 12'21.6163"N	91° 11'2.8623"E
4	25° 12'21.1598"N	91° 10'57.7773"E

The proposed land is on lease for a period of 25 years and the nomination of the land was made vide Special Power of Attorney which was executed on the 26th February 2019 certified by Notary Public, Govt of Meghalaya.

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)/643 dated Nongstoin, the 11th June 2018 and letter of Intent vide letter No.T/W&SW/ML/LS/R.LALOO/657 dated Nongstoin, the 13th June 2019 issued by the Divisional Forest Officer, West & South West Khasi Hills Territorial Division, Nongstoin.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/52/2019/06 dated Shillong, the 22nd July 2020 which states that there is another 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 total nine mines is more than 5 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Director of Mineral Resources, Government of Meghalaya vide letter No.DMR/MM/52/2019/721 dated Shillong, the 29th November 2019. The Mining Plan has been prepared to extract limestone stone at the rate of 241936 MTA with a project cost of Rs.32 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve would be 4821703 tonnes with an average annual production of 241085 (4821703/20=241085) Tonnes and production of limestone in the first five years will be 1207694 tonnes. The average annual production of limestone may be different from annual production of each of the first five years. The balance mineable reserve, 3614009 tonnes will be worked out in the subsequent 15 years. Therefore, the life of the mine will be 20 years (first five years in plan period + 15 years in conceptual period).

The project has already been awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/P-98/2020/11/1384 dated 8th January 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 29th October 2021 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 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.

2.8 Proposal No.SIA/ML/MIN/71083/2020 submitted by Shri. Mekless Dkhar

The Project Proponent, Shri. Mekless Dkhar submitted online application vide proposal No.SIA/ML/MIN/71083/2020 for Environmental Clearance for mining of Lime stone for an area of 1.98 hectare. The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Chiehruphi, Elaka Narpuh, East Jaiñtia Hills District, Meghalaya and toposheet Survey of India No. 83 C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 13'16.6"N	92° 22'52.1"E
2	25° 13'18.1"N	92° 22'52.9"E
3	25° 13'19.0"N	92° 22'53.3"E
4	25° 13'19.5"N	92° 22'53.8"E
5	25° 13'19.8"N	92° 22'54.9"E
6	25° 13'20.2"N	92° 22'55.9"E

7	25° 13'19.7"N	92° 22'56.3"E
8	25° 13'18.9"N	92° 22'56.4"E
9	25° 13'18.3"N	92° 22'57.0"E
10	25° 13'17.3"N	92° 22'57.0"E
11	25° 13'16.4"N	92° 22'57.1"E
12	25° 13'15.8"N	92° 22'57.5"E
13	25° 13'15.5"N	92° 22'57.6"E
14	25° 13'14.7"N	92° 22'56.9"E
15	25° 13'14.1"N	92° 22'55.9"E
16	25° 13'13.9"N	92° 22'54.4"E
17	25° 13'14.6"N	92° 22'53.5"E
18	25° 13'15.5"N	92° 22'52.6"E

The proposed land is on lease for a period of 20 years vide Deed of Lease executed on the 15th January 2018 certified by 1st Class Magistrate, East Jaintia Hills District, Khliehriat.

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/2139, dated Jowai, the 22nd February 2018 and letter of Intent vide letter No.JH/MMMCR-2016/2016-17/869/B/342 dated Jowai, the 4th May 2018 issued by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMO-J/13/MM/Mining Plan/2019/13 dated Jowai, the 20th May, 2019 which states that there is another 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 total two mines is more than 5 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Director of Mineral Resources, Government of Meghalaya vide letter No. DMR/MM/185/2018/2136 dated Shillong, 18th March 2019. The Mining Plan has been prepared to extract lime stone at the rate of 2,12,630 MTA with a project cost of Rs.22 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of limestone are of the order of 14,58,930 tonnes. The production in the period of the mining plan will be around 9,90,230 tonnes in 5 years. Therefore, the balance reserves will be (14,58,930-9,90,230) or 4,68,700 tonnes. If the production target is 2,12,630 tonnes, the balance reserve will be sufficient for (4,68,700/2,12,630) or 2.20 years. Thus, the total life of the mine is 5+2.20=7.20 or say 8 years.

The project proponent also submitted a copy of Application for No Objection Certificate from the Chief Forest Officer, Jaintia Hills Autonomous District Council, Jowai.

The project has already been awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EJH/P-95/2020/4/1586 dated 14th January 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 Geogreen Enviro House Pvt. Ltd.

The public hearing was held on 13th November 2021 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri. E. Kharmalki, IAS, DC, East Jaintia 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 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/71020/2020 submitted by Shri. Tiberius Shylla

The Project Proponent, Shri. Tiberius Shylla submitted an online application vide proposal No.SIA/ML/MIN/71020/2020 for Environmental Clearance for mining of limestone


43	25° 13' 01.09"N	92° 23' 00.56"E
44	25° 13' 00.19"N	92° 23' 00.19"E
45	25° 13' 00.39"N	92° 23' 00.65"E
46	25° 13' 00.43"N	92° 23' 01.12"E
47	25° 13' 00.51"N	92° 23' 01.45"E
48	25° 12' 58.99"N	92° 23' 03.43"E

The proposed mining area belongs to the Project Proponent as per Land Holding Certificate issued vide Letter Memo. No. JHADC/REV/LHC/7/96/2009 dated Jowai, the 16th December 2009 by the Revenue Officer, Jaintia Hills Autonomous District Council, Jowai.

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/2214, dated Jowai, the 12th January 2019 and letter of Intent vide letter No.JH/MMMCR-2016/2016-17/869/B/2377 dated Jowai, the 15th February 2019, subsequently renewed vide letter No.JH/MMMCR-2016/2016-17/869/B/2123, dated Jowai, the 30th January 2020.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Mineral Resources Department, Government of Meghalaya, vide letter No.DMO-/J/1/MM/Mining Plan/2019/09 dated Jowai, the 15th May, 2019 which states that there is another mine of different project proponent lying within 500 meters from the applied mining lease area. Hence the applied mining area falls under cluster category as the total area of the two mines is more than 5 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the office of the Division Mining Officer, Directorate of Mineral Resources, Government of Meghalaya, Shillong vide letter No.DMO-J/1/MM/Mining Plan/2019/02 dated Jowai, 29th April 2019. The Mining Plan has been prepared to extract Lime stone at an annual rate of 2,00,200 MT of the highest production with a project cost of Rs.22,00,000 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 22, 69,760 tonnes and the production of reserves during the plan period of 5 years is around 10, 00,590 tonnes. Hence, the balance of reserves will sufficient for $12,69,170/2,00,200 = 6.34$ years. Thus, total life of the mine is $5+6.34=11.34$ or say 12 years.

The project has already been awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EJH/P-28/2020/1560 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 Geogreen Enviro House Pvt. Ltd.

The public hearing was held on 13th November 2021 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri. E. Kharmalki, IAS, DC, East Jaintia 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 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.
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.

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

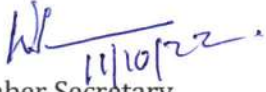

Chairman
SEIAA,
Meghalaya, Shillong.

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

Dated Shillong, the Oct' 2022

Copy to :

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


Member Secretary
SEIAA,
Meghalaya, Shillong.