

STATE EXPERT APPRAISAL COMMITTEE (SEAC)

::MEGHALAYA::

Silviculture Building Adjacent to 'SYLVAN' House,
Lower Lachumiere, East Khasi Hills, Shillong – 793001.

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MINUTES OF 59th MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA SHILLONG HELD ON 2nd September 2022, FOR ENVIRONMENTAL APPRAISAL OF NON-COAL MINING PROJECTS

Members of the Committee present:

Sl.No	Name	Designation	Signature
1	Shri. Nababrata Bhattacharjee	Chairman SEAC	-Sd-
2	Shri. Millanburg R. Sangma	Member	
3	Dr. Highland Kayang	Member	-Sd-
4	Shri. Gideon Lamborlang Kharkongor	Member	-Sd-
5	Shri. Pynbiang Singh Nongbri	Member	
6	Dr. Shiva Shankar Chaturvedi	Member	-Sd-
7	Dr. (Mrs) Van Jennifer Joan Wallang	Member	-Sd-
8	Shri Arpiyush Ch. Sangma, MFS Deputy Conservator of Forest (SF & Env.)	Member Secretary SEAC	-Sd-

The 59th meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 2nd September 2022 from 11:30 A.M. on ward in the Conference Hall, office of the Principal Chief Conservator of Forests & HoFF, Meghalaya, Lower Lachumiere, Shillong – 793001, through offline method. At the outset the Chairman Shri. Nababrata Bhattacharjee, welcomed all the members of the Committee present and called the meeting to order. He requested the Member Secretary to initiate the discussion as per the agenda circulated vide letter No.ML/SEAC/Meeting/Vol-IV/1/2022/16 dated the 31st August 2022, accordingly. All proposed mining areas are cross checked through google earth.

1. Confirmation of the minutes of the 58th Meeting held on 17th August 2022.

The minutes were confirmed.

2. Action taken report as per the decision taken in the 58th Meeting.

As per the decision taken in the 58th Meeting of the State Expert Appraisal Committee held on 17th August 2022, (7) Seven project proposals were recommended for Environmental Clearance to the State Environment Impact Assessment Authority.

1. ENVIRONMENTAL CLEARANCE

I.Proposal No.SIA/ML/MIN/287335/2022 submitted by Smt.Darilin Nongkhlaw (M/S CoDeo Stone Mine)

The Project Proponent Smt. 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.78O/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 day of 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 metres 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 pillars 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

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

The Project Proponent, Shri Ivan Lyngdoh submitted online application vide proposal No.SIA/ML/MIN/177198/2020 for Environmental Clearance for Ampynsemkura Boulder Stone Mine for an area of 3.72 hectares. The proposal is for mining of Boulder stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Ampynsemkura, Hima Jirang Syiemship, Ri Bhoi District, Meghalaya and toposheet Survey of India No. 78O/9 within the following GPS Coordinates:



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

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

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

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

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

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

As per the letter from the Deputy Commissioner, Ri Bhoi District vide No.DCRB(I.R)5/2017/Pt-II/Rev/196/1084(a) dated 14/9/2020, directed for cancellation of all new permissions granted after 9th July 2020 in Ri Bhoi District. However, in the case of this particular project, the Member Secretary, SEIAA forwarded a copy of the Advocate

General's opinion vide letter No.ML/SEIAA/Correspondence_EC/59/2021/82/377 Dated 30.08.2022 to consider the application for Environmental Clearance submitted by Shri.Ivan Lyngdoh.

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 Deferred for Site Visit as the area being in very close proximity to the Assam border and in view of recent Judicial intervention in the sensitive border area, an onsite inspection is desirable before recommending the case to SEIAA for grant of EC.

III.Proposal No.SIA/ML/MIN/283564/2022 submitted by Shri. Iainehskhem Gallong

The Project Proponent, Shri Iainehskhem 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.780/12 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 day of 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 metres 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 was already 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 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.
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.

IV.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/284560/2022for Hamar Limestone Mine for mining of Lime stone for an area of 1.36 hectares. 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.78O/12within 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' 16.84''N	91° 44' 55.02''E
6	25° 11' 14.989''N	91° 44' 53.38''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° 11'12.61''N	91° 44' 57.839''E
11	25° 11' 12.284''N	91° 44' 57.89''E

The proposed mining area belongs to the project proponent vide Deed of Declaration made on the 28th September2020 certified by Sub-Registrar, Sohra.



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 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of ten mines is summed up to 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 was already 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 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 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.
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.

V. Proposal No.SIA/ML/MIN/281491/2022 submitted by Smt. Maria Ryngnga.

The Project Proponent, Smt. Maria Ryngnga submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/281491/2022for 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.78O/12within 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 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of five mines is summed up to 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 already 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 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 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.



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.

VI. Proposal No.SIA/ML/MIN/282808/2022 submitted by Shri Sangip M. Marak Limestone Mine.

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 hectares. 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.78O/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 metres 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 already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-167/2021/536 dated 17thSeptember 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 5thJanuary 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, 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 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.
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.



VII.Proposal No.SIA/ML/MIN/79381/2021 submitted by Shri Methos Marwein.

The Project Proponent, Shri Methos Marwein submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/79381/2021 for Sohnarain Limestone Mine for mining of Lime stone for an area of 1.77 hectares. 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 Sohnarain, Wahlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78O/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 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of five mines is summed up to 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 910200 tonnes. 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 621950 tonnes. 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 16 years.

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-176/2021/858 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 Gaurang Environmental Solutions Pvt. Ltd.

The public hearing was held on 14th January 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, 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 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.
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.

2. Reconsideration:

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

Environmental Clearance for Borsohra Limestone Mine for an area of 4.66 hectares located at Borsohra, South West Khasi Hills District, Meghalaya.

The Proposal were given ADS in the 54th meeting of the State Expert Appraisal Committee Dated 6.06.2022, As per verification from google earth it is observed that metalled road is less than 20 metres from the proposed mining site. As per the Notification of MMMCR 2016, dated 12th September 2016 vide No.MG.49/2011/408 Chapter II.3.(1) where no mining lease and quarry permit shall be granted in respect of any land within a distance of 50 meters from any village, bridge, national highway or water source except with prior approval of the State Government.

The water quality and soil status report of samples collected from project site and analysed by National Accreditation Board for Testing and Calibration Laboratories (NABL) or Ministry of Environment, Forest and Climate Change (MoEFCC), accredited/approved labs has to be furnished by the Project Proponent.

This project proposal was again put up in the 57th meeting of the State Expert Appraisal Committee, where the committee has unanimously decided to place the proposal for reconsideration in view of the NOC submitted by the Project Proponent vide letter No.NS/NOC/MINING/90/120 dated Nonghyllam 1st July 2019 referencing to point No.1 where it was stated that the location of the quarry should be beyond 50 metres away from the Right of way(ROW).



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. Again the Project Proponent submitted an NOC from the office of the Assistant Executive Engineer PWD (Roads), Nonghyllam Sub-Division, Nonghyllam vide letter No.NS/NOC/MINING/90/46 dated Nonghyllam 8th July 2022. 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 pillars 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.

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

Environmental Clearance for mining of Lime stone for an area of 1.98 hectare. located at Chiehruphi, Elaka Narpuh, East Jaintia Hills District, Meghalaya.

The Proposal were recommended for Reconsideration in the 57th meeting of the State Expert Appraisal Committee Dated 25.07.2022, as per verification, the project proponent has to furnished the list of species mentioning both in Scientific and local names, which are endemic/indigenous in the proposed mining site area, Classification of land use and land cover map and Correction of the EIA/EMP report along with the Plagiarism check certificate and Source of data taken.

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 complied with the above mentioned conditions. 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 pillars 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.

III. . Proposal No.SIA/ML/MIN/71020/2020 submitted by Shri Tiberius Shylla.

Environmental Clearance for mining of limestone for an area of 3.22 hectares. located at Thlusniang, Chiehruphi, Elaka - Narpuh, East Jaintia Hills District, Meghalaya.

The proposal was put up in the 57th meeting of the State Expert Appraisal Committee Dated 25.07.2022, where the committee unanimously recommended for reconsideration, as the project proponent has to furnished the list of species name, classification of land use and land cover map and correction of the EIA/EMP report along with plagiarism report and source of data taken.



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.

The meeting ended with a vote of thanks to the chair


Chairman,

State Expert Appraisal Committee,
Meghalaya, Shillong