

STATE EXPERT APPRAISAL COMMITTEE (SEAC)

::MEGHALAYA::

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

MINUTES OF 60th MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA
SHILLONG HELD ON 21st 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. MillanburgR. Sangma	Member	
3	Dr. Highland Kayang	Member	
4	Shri. Gideon Lamborlang Kharkongor	Member	-Sd-
5	Shri. Pynbiang Singh Nongbri	Member	-Sd-
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 60th meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 21st September 2022 from 11:00 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/1/2022/18 dated the 20th September 2022, accordingly. All proposed mining areas are cross checked through google earth.

1. Confirmation of the minutes of the 59th Meeting held on 2nd September 2022.

The minutes were confirmed.

2. Action taken report as per the decision taken in the 59th Meeting.

As per the decision taken in the 59th Meeting of the State Expert Appraisal Committee held on 2nd September 2022, One (1) project proposals were deferred for site visit and (9) Nine project proposals were recommended for Environmental Clearance to the State Environment Impact Assessment Authority.

1. ENVIRONMENTAL CLEARANCE

I. Proposal No:SIA/ML/MIN/287476/2022 submitted by Smt. Ranu Ch Momin

The Project proponent, Smti. Ranu Ch Momin submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/287476/2022 for Rokhongre Stone Mine for mining of Boulder Stone for an area of 1.00 hectares. The Proposal is for mining of boulder stone to be used for building and road construction materials. The project falls under Schedule 1 (a) of category B2 of EIA Notification 2006. The mining lease area is located at Rongkhongre, Phulbari, West Garo Hills, Meghalaya and toposheet Survey of India No.78K/1 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 49'24.55''N	90° 03'59.32''E
2	25° 49'19.33''N	90° 04'01.29''E
3	25° 49'18.19''N	90° 04'02.82''E
4	25° 49'18.53''N	90° 04'04.28''E
5	25° 49'19.94''N	90° 04'03.64''E
6	25° 49'21.17''N	90° 04'03.09''E
7	25° 49'21.56''N	90° 04'02.54''E
8	25° 49'22.71''N	90° 04'01.48''E
9	25° 49'24.81''N	90° 04'00.45''E
10	25° 49'26.47''N	90° 04'00.18''E

The proposed mine is on lease for a period of 4 years vide Deed of Agreement made on 28th September 2021 authorized by the Attorney and certified by the District Registrar, D.C office Tura.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South West Garo Hills (T) Division, Tura vide letter No.B/16/VII/NOC/MMMCR/1356-58, dated Tura, the 27th April, 2022 and letter of Intent vide letter No.B/16/VII/1359 dated Tura, the 27th April, 2022 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar, Meghalaya vide letter No.DMO-W/MP/15/2019/60 dated Williamnagar, the 4th August 2022 which states that there is no approved mining plan lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, East Garo Hills, Williamnagar, Meghalaya vide letter No.DMO-W/MP/77/2022/52 dated Williamnagar, the 8th July 2022. The Mining Plan has been prepared to extract boulder stone at the rate of 99837.9 TPA with a project cost of Rs 66.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 310544 Tons. Based on the maximum production of 99837.9 Tons during the current planned period, the life of the Mine is estimated as 3.11 years

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth. The Project Proponent has complied with the above mentioned conditions. 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. 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.

3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
9. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
13. A Comprehensive Environment Management Plan and Regional Environment Management Plan is to be furnish.

II. Proposal No:SIA/ML/MIN/281022/2022 submitted by Shri. Tamdor Sing Nadon (M/S Sohmluh Limestone Mine)

The Project Proponent, Shri Tamdor Sing Nadon submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/281022/2022 for Environmental Clearance for Sohmluh Limestone Mine for mining of Lime stone for an area of 2.1 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 B1 of EIA Notification 2006. The mining lease area is located at Sohmluh, Tempohreng Village, 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° 10'36.9''N	91° 43'11.4''E
2	25° 10'38.5''N	91° 43'04.5''E
3	25° 10'42.0''N	91° 43'03.3''E
4	25° 10'41.1''N	91° 43'10.2''E

The proposed mining area is on lease for a period of 30 years vide Lease Deed made on the 18th day of June 2019 certified by Sub-Registrar, Sohra, 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, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/585 dated Shillong, the 30th April, 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/591, dated Shillong, the 30th April, 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/138/2021/07 dated Shillong, the 7th October 2021 which states that there are ten (10) 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 twelve mines is summed up to 26.04 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/138/2021/2 dated Shillong, the 28th September 2021. The Mining Plan has been prepared to extract lime stone at the rate of 98,318 TPA with a project cost of Rs.24.8 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 983183 Tonnes with an average annual production of 98318 (983183/10=98318) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 492219 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e. (983183-492219) = 490964 Tonnes would be exhausted in further 5



years @98193 Tonnes. Therefore, the life of the mine will be 10 years (five years in plan period + five years in conceptual period).

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-212/2021/223 dated 26th November 2021 and submitted the final EIA/EMP for the proposed Mining of Lime stone where the project proponent complied all the points in compliance to the Term of Reference prepared by CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 5th April 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smt. D. Phawa, 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 the 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. 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/282979/2022 submitted by Shri Ojoy A. Sangma.

The Project Proponent, Shri Ojoy A. Sangma submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/282979/2022 for Environmental Clearance for Bagli Limestone Mine for mining of Lime stone for an area of 1.00 hectares. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Bagli, Khonjowai, South West Khasi Hills District, Meghalaya and toposheet Survey of India No.780/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12'10.79''N	91° 04'31.28''E
2	25° 12'15.00''N	91° 04'33.66''E



3	25° 12'14.40''N	91° 04'30.18''E
4	25° 12'10.74''N	91° 04'28.50''E

The proposed mining area is on lease for a period of 10 years vide Deed of Lease made on the 12th March 2015 certified by Sub-Registrar, South West Khasi Hills District, Mawkyrwat.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Social Forestry & Territorial Division, West & South West Khasi Hills, Nongstoin vide letter No.T/W&SW/20/NOC(L)/536, dated Nongstoin, the 27th August, 2020 and letter of Intent vide letter No.T/W&SW/21-22/LS/ML/117/1198 dated Nongstoin, the 28th September, 2022 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/91/2020/09 dated Shillong, the 2nd February 2021 which states that there are five (5) 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 six mines is summed up to 7.61 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/91/2020/05 dated Shillong, the 8th January 2021. The Mining Plan has been prepared to extract lime stone at the rate of 72349 TPA with a project cost of Rs.10.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 506242 tonnes with an average annual production of 72320 ($506242/7=72320$) tonnes. The average annual production of limestone may be different from annual production of five year plan period. Thus 361304 tonnes of the total mineable reserve will be worked out in first five years and the rest quantity of mineable reserves i.e. ($506242 - 361304$) = 144938 tonnes would be exhausted in further 2 years with an average production of 72469 tonnes/annum. Therefore, life of the mine will be 7 years (five years in plan period + 2 years in 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/SWKH/P-135/2021/431 dated 3rd 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 14th January 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over 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 and the presentation of the EIA/EMP. 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. 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.
3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.



9. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.

IV. Proposal No.SIA/ML/MIN/79196/2021 submitted by Smt. Rejoice Chyne.

The Project Proponent, Smt. Rejoice Chyne submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/79196/2021 for Environmental Clearance for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 1.17 hectares. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at 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' 05.7''N	91° 41' 12.8''E
2	25° 11' 59.72''N	91° 41' 11.13''E
3	25° 11' 59.25''N	91° 41' 13.26''E
4	25° 12' 04.92''N	91° 41' 14.80''E

The proposed mining area belongs to the project proponent as per Sale Deed certified by Notary Public, East Khasi Hills on the 26th of June 2020.

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/4516, dated Shillong, the 21st December 2020 and letter

of Intent vide letter No.KH/8/ML/Limestone/68/4537, dated Shillong, the 21st 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/107/2021/08 dated Shillong, the 3rd June 2021 which states that there are three (3) 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 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/107/2021/04 dated Shillong, the 19th March 2021. The Mining Plan has been prepared to extract lime stone at the rate of 30500 TPA with a project cost of Rs.23, 50,000 and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 3, 90,200 tonnes. The production in the period of the mining plan will be around 152500 tonnes in 5 years. Therefore, the balance reserves will be $(390200 - 152500 = 237700)$ tonnes. If the production target is 30500 tonnes, the balance reserve will be sufficient for $(237700 / 30500 = 7.79)$ years. Thus, the total life of the mine is $5 + 7.79 = 12.79$ or say 13 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-168/2021/614 dated 24th 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 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, 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 the 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. 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.

V. Proposal No.SIA/ML/MIN/81798/2021 submitted by Shri. Iasuklang War.

The Project Proponent, Shri Iasuklang War submitted online application for Environmental Clearance vide proposal No:SIA/ML/MIN/81798/2021 for Environmental Clearance for Sohnrain Limestone Mine for mining of Lime stone for an area of 2.12 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 Sohnrain, wahlong Village, Elaka 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° 11'13.77''N	91° 42'31.04''E
2	25° 11'13.80''N	91° 42'34.10''E
3	25° 11'14.42''N	91° 42'35.21''E
4	25° 11'16.66''N	91° 42'37.22''E
5	25° 11'17.89''N	91° 42'35.91''E
6	25° 11'19.02''N	91° 42'36.79''E
7	25° 11'20.45''N	91° 42'35.80''E
8	25° 11'20.91''N	91° 42'34.24''E

The proposed mining area is on lease for a period of 20 years vide Lease Agreement made on the 2nd November 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 Territorial Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/5430, dated Shillong, the 19th February 2021 and the



Renewed letter of Intent vide letter No.KH/8/ML/Limestone/68/968 dated Shillong, the 7th June, 2022 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/118/2021/08 dated Shillong, the 3rd August 2021 which states that there are seven (7) 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 eight mines is summed up to 14.2011 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/118/2021/04 dated Shillong, the 2nd July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 55950 TPA with a project cost of Rs. 19.50 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve of Limestone would be 1328710 MT. The production period of the mining plan would be around 251175 MT in 5 years. The balance reserves is $1328710 - 251175 = 1077535$ MT. The yearly production target is 50225 MT. The balance reserves will sufficient for $1077535/50,225 = 21.45$ years. Thus, the total life of the mine is $21.45 + 5 = 26.45$ or say 27 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-186/2021/754 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, 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 the presentation of the EIA/EMP. 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. 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.
3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
9. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.



VI. Proposal No.SIA/ML/MIN/80866/2020 submitted by Smt. Fridina D. Shira

The Project Proponent Smt. Fridina D. Shira, submitted online application vide proposal No.SIA/ML/MIN/80866/2020 for Environmental Clearance for Dhapguri Stone Mine for an area of 1.26 hectare. 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 Dhapguri, P.O. Zikabari, West Garo Hills District, Meghalaya and toposheet Survey of India No.78K/2 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 38'12.61''N	90° 00'52.99''E
2	25° 38'14.04''N	90° 00'54.10''E
3	25° 38'10.73''N	90° 00'59.48''E
4	25° 38'09.36''N	90° 00'58.54''E

The proposed land is on lease for a period of 20 years which was executed on the 27th March 2017 certified by District Registrar, D.C. Office, Tura.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West, South & South West Garo Hills Territorial Division, Tura vide letter No.B/16/VII/NOC/MMMCR/1493-499, dated Tura, the 20th June, 2017 and letter of Intent vide letter No.B/16/VII/213 dated Tura, the 28th January 2019.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2019/116 dated Williamnagar, the 15th October, 2020 which states that there are three approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of total nine mines is summed up to 9.98 hectares.

The mining plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, East Garo Hills, Williamnagar.

The Mining Plan has been prepared to extract boulder stone at the rate of 40956 TPA with a project cost of Rs.7.46 lakhs and the operations will be open cast, semi-mechanized method of mining. The total mineable reserve would be 409562 tonnes with an average annual production of 40956 (409562/10=40956) tonnes per year and production of stone in first five years will be 201169 tonnes. The average annual production of stone may be different from the annual production of first five years and the balance mineable reserve for last 5 years would be 208393 tonnes. So life of the mine will be 10 years.

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/WGH/P-106/2020/4 dated 29th January 2021 and submitted the final EIA/EMP for the proposed Mining of boulder stone where the project proponent complied all the points in compliance to the Term of Reference prepared by ENVIRO INFRA SOLUTIONS PVT. LTD.

The public hearing was held on 10th December 2021 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri. J.R.T. Sangma, MCS, Executive Magistrate & BDO, Selsella Block, West Garo Hills District.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and deliberation by using kml file through google earth, and presentation of the EIA/EMP, the committee unanimously recommended for ADS (As per verification, the project proponent has to furnish the following):

- The list of species mentioning both in Scientific and local names, which are endemic/indigenous in the proposed mining site area.
- The Classification of land use and land cover map.
- The Certified land document.
- The Approval of Mining Plan Certificate from the Directorate of Mineral Resources, Shillong, Govt. of Meghalaya.

VII. Proposal No.SIA/ML/MIN/79259/2021 submitted by Shri Symper Nongtraw.

The Project Proponent, Shri Symper Nongtraw submitted online application for Environmental Clearance vide proposal No:SIA/ML/MIN/79259/2021 for Environmental Clearance for Mawlyndiar Limestone Mine for mining of Lime stone for an area of 0.58 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 Mawlyndiar, 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' 57.70"N	91° 42' 15.50"E



2	25° 10' 59.20''N	91° 42' 17.70''E
3	25° 10' 58.60''N	91° 42' 18.30''E
4	25° 10' 57.10''N	91° 42' 18.20'' E
5	25° 10' 55.27''N	91° 42' 16.46''E
6	25° 10' 55.80''N	91° 42' 15.40''E
7	25° 10' 56.80''N	91° 42' 16.00''E

The proposed mining area is on lease for 20 years vide lease agreement made on the 2nd day of November 2020 certified by Notary, Govt. of Meghalaya, East Khasi Hills District.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri-Bhoi Territorial Division, Shillong, vide letter No.KH/8/NOC/Limestone/41/Pt.IV/4355, dated Shillong, the 15th December 2020 and the renewed letter of Intent vide letter No.KH/8/ML/Limestone/68/967, dated Shillong, the 7th June, 2022 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/106/2021/12 dated Shillong, the 3rd June 2021 which states that there are five (5) 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 six mines is summed up to 12.3011 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/106/2021/06 dated Shillong, the 26th March 2021. The Mining Plan has been prepared to extract lime stone at the rate of 31320 MTPA with a project cost of Rs.13.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 185600 MT. The production in the period of the mining plan will be around 156580 MT in 5 years. Therefore, the balance reserves will be $(185600 - 156580) = 29020$ MT. If the production target is 31320 MT, the balance reserve will be sufficient for $(29020/31320) = 0.93$ years. Thus, the total life of the mine is $5+0.93=5.93$ or say 6 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-177/2021/838



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 5th 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 the presentation of the EIA/EMP. 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. 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.
3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.



7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
9. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.

2. FURTHER CONSIDERATION:

I. Proposal No.SIA/ML/MIN/168640/2020 submitted by Smti. Sainti Mawrie

Environmental Clearance for Mawrie Stone Mine for an area of 2.15 hectares located at Lum Velite, Kongripara village, Ri-Bhoi District, Meghalaya.

The Proposal were given further consideration in the 36th dated 01.12.2020 meeting of the SEAC, as per the letter from the Deputy Commissioner, Ri Bhoi District 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 vide letter No.ML/SEIAA/Correspondence_EC/59/2021/82/392 dated 7.09.2022 forwarded a copy of the Advocate General's opinion to consider the application for Environmental Clearance from Smti. Sharon Ann Pariat and other similar proposals from Ri Bhoi 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 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.

3. ADDITION DETAILS SOUGHT (ADS)

I. Proposal No.SIA/ML/MIN/242492/2021 submitted by Shri. Greneth M. Sangma

Environmental Clearance for Nokatgre Stone Mine for an area of 1.99 hectares located at Nokatgre Village, P.O. Siju, South Garo Hills District, Meghalaya.

The Proposal were given ADS in the 53rd meeting dated 20.05.2022 of the SEAC.

In response to the ADS raised by the State Expert Appraisal Committee, the project proponent submitted a letter vide No. No.B/mwl/GH/NOC/Mining/24/723 dated 17.08.2022 from the Divisional Forest Officer, East & West Garo Hills, Wildlife Division, Tura, clarified that the distance of the proposed mining site is 1.18 km from the draft Notification of Eco-sensitive zone of Nokrek National Park.

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 as per the letter submitted by the project proponent vide No. No.B/mwl/GH/NOC/Mining/24/723 dated 17.08.2022 the location of the proposed stone mine is 1.18 km from the draft Notification of Eco-sensitive zone of Nokrek National Park. Further, as per the Supreme Court Order I.A No. 117831 of 2019 & I.A No. 65571 of 2021 dated New Delhi, 3rd June, 2022. In the matter of Writ Petition of T.N Godavarman Thirumulpad (Petitioner) Vs Union of India and Ors (Respondent) in Case No. 42 (h) stated that "In respect of sanctuaries or national parks for which the proposal of a State or Union Territory has not given, the 10 km buffer zone as ESZ, as indicated in the order passed by this Court on 4th December 2006 in the case of Goa Foundation (Supra) and also Contained in the Guidelines of 9th February 2011 shall be implemented. Within that area, the entire set of restrictions concerning an ESZ shall operate till a final decision in that regard is arrived at". 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.

The meeting ended with a vote of thanks to the chair.



Chairman,
State Expert Appraisal Committee,
Meghalaya, Shillong