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MINUTES OF THE MEETING OF THE SEIAA, MEGHALAYA HELD ON 19th OCTOBER 2022 AT 2:00 p.m

VENUE: OFFICE CHAMBER OF THE CHAIRMAN.

Members present in the Meeting:

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

Proceedings:

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

Agenda 1: Action taken Report- The Member Secretary informed about the action of the decisions taken in the last SEIAA's meeting held on 29th September 2022 and circulated the Minutes of the said meeting. The meeting approved the actions taken and confirmed the proceedings.

Agenda 2: Grant of Environmental Clearance (EC)

2.1 Proposal No. SIA/ML/MIN/287476/2022 submitted by Smti. 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.78 K/1 within the following GPS Coordinates:

Pillar No.	GPS Coordinates	
rillar No.	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 mine lying within 500 meters 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 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. Planting of nurseries plant should start simultaneously with the commencement of the project.
- 7) CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 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 pillar should be carved/painted clearly on the pillars with Red colour.

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- 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.
- 14) The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

2.2 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.78 O/12 within the following GPS Coordinates:

Pillar	GPS Coordinates	
No.	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 7^{th} October 2021 which states that there are ten (10) approved mines lying within 500 meters from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of twelve mines is summed up to 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 $28^{\rm th}$ 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.

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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 Smti. D. Phawa, MCS, ADC, East Khasi Hills District and Chairperson, EPH.

Recommendation

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

- 1) LOI ought to be renewed as the validity has expired
- 2) A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
- 3) Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
- 4) Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
- 5) If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
- 6) In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
- 7) To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants. Planting of nurseries plant should start simultaneously with the commencement of the project.
- 8) CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 lakh annually.
- 9) Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
- 10) GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.

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

Proposal No. SIA/ML/MIN/282979/2022 submitted by Shri. Ojoy A. Sangma 2.3

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.78 O/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, Nongstoiñ vide letter No.T/W&SW/20/NOC(L)/536, dated Nongstoiñ, the 27th August, 2020 and letter of Intent vide letter No.T/W&SW/21-22/LS/ML/117/1198 dated Nongstoiñ, 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 mines lying within 500 meters 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 $14^{\rm th}$ 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 presentation of the EIA/EMP, the committee unanimously recommended for grant of Environment Clearance with the following conditions;

- 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.
- 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. Planting of nurseries plant should start simultaneously with the commencement of the project.
- 7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 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.
- GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
- 10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
- 11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
- 12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.



13. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

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

2.4 Proposal No. SIA/ML/MIN/79196/2021 submitted by Smti. Rejoice Chyne

The Project Proponent, Smti. 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.78 O/12 within the following GPS Coordinates:

Pillar	GPS Coordinates	
No.	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 $3^{\rm rd}$ June 2021 which states that there are three (3) approved mines lying within 500 meters 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 $19^{\rm th}$ 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, 90,200tonnes. 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 24thSeptember 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.

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The public hearing was held on 14th January 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smti. 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 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.
- In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
- 7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants. Planting of nurseries plant should start simultaneously with the commencement of the project.
- 8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 lakh annually.
- 9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
- 10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
- 11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
- 12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
- 13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
- 14. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

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



toposheet Survey of India No.780/12 within the following GPS Coordinates:

The Project Proponent, Shri. Ïasuklang War submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/81798/2021 for Environmental Clearance for Sohnaraiñ 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 Sohnaraiñ, Wahlong Village, Elaka Wahlong Sirdarship, East Khasi Hills District, Meghalaya and

Pillar	GPS Coordinates	
No.	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 mines lying within 500 meters from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of eight mines is summed up to 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 2^{nd} 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 $14^{\rm th}$ 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.

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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;

- 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.
- 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.
- 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.
- CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 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.
- GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
- 10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
- 11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
- 12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
- 13. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

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

2.6 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 hectare. The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Mawlyndiar, Elaka Wahlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.780/12 within the following GPS Coordinates:

Pillar	GPS Coordinates	
No.	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 2^{nd} 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 $3^{\rm rd}$ June 2021 which states that there are five (5) approved mines lying within 500 meters 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 26^{th} 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 presentation of the EIA/EMP, the committee unanimously recommended for grant of Environment Clearance with the following conditions;



- 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.
- 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. Planting of nurseries plant should start simultaneously with the commencement of the project.
- 7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1.50 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.
- GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
- 10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
- 11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
- 12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.
- 13. The Green Belt shall be created within the 7.5 meter Safety Zone area during the first year of the project and if there are any sorts of vegetation in the said area, they shall be preserved and not damaged.

2.7 Proposal No.SIA/ML/MIN/168640/2020 submitted by Smti. Sianti Mawrie

The Project Proponent, Smti. Sianti Mawrie, submitted online application vide Proposal No.SIA/ML/MIN/168640/2020 for Environmental Clearance for mining of Boulder stone for an area of 2.15 hectares. The proposal is for mining of boulder stone use as construction materials, hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Lum Velite, Kongripara village, Ri Bhoi District, Meghalaya and toposheet Survey of India No.780/13 within the following GPS Coordinates:



Pillar	GPS Coordinates	
No.	Latitude	Longitude
1	25° 58' 12.88"N	91° 50' 11.20"E
2	25° 58' 17.48"N	91° 50' 09.37"E
3	25° 58' 19.54"N	91° 50' 12.50"E
4	25° 58' 21.06"N	91° 50′ 14.11″E
5	25° 58' 20.15"N	91° 50' 16.61"E

The proposed mining area belongs to the project proponent vide Deed of Lease executed on the 15th December 2009 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 Territorial Division, Shillong, vide letter No.KH/9/NOC/Stone/41/Pt.V/2416 dated Shillong, the 9th July 2019 and letter of Intent vide letter No.KH/8/ML/Stone/69/3643, dated Shillong, the 27th August 2019, subsequently renewed vide letter No.KH/8/ML/stone/69/302 dated Shillong, the 2nd June 2020.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong, Government of Meghalaya, , vide letter No.DMR/MM/76/2019/06 dated Shillong,, the 21^{st} May 2020, where it is mentioned that there is no approved mining plan located within 500 metres of the proposed area. Hence, the Environment Management Plan is not required.

The project proponent submitted approved Mining Plan and Progressive Mine Closure Plan from the Directorate of Mineral Resources, Meghalaya vide letter No.DMR/MM/76/2019/1490, dated Shillong, the 27^{th} November 2019. The Mining plan has been prepared to extract boulder stone at an annual rate of 90000 TPA with a project cost of Rs. 50 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mine has a Total Mineable Reserves excluding safety barrier and UPL of 10,43,259 MT and after leaving reserves in the residual benches to prevent one vertical long face, the Extractable Mineable Reserves come to 8,82,756 MT. The mine is targeted to produce 90,000 TPA of boulder stone. Taking 300 days as the average working days per annum, the daily production comes to around 300 TPD. Hence, the anticipated life of the mine will be 9.8 years, say 10-12 years, allowing for production interruptions in some years.

Recommendation

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

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

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

The Project Proponent, Shri. Greneth M. Sangma submitted online application vide proposal No.SIA/ML/MIN/242492/2021 for Environmental Clearance for mining of Boulder stone for an area of 1.99 hectares. The proposal for mining of Boulderstone use for construction purposes-buildings, road projects, dams, etc., and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Nokatgre Village, P.O. Siju, South Garo Hills District, Meghalaya and toposheet Survey of India No. 78 K/11within the following GPS Coordinates:

Pillar	GPS Coo	rdinates
No.	Latitude	Longitude
1	25°23.527′ N	90°34.638′ E
2	25°23.565' N	90°34.690′ E
3	25°23.587′ N	90°34.731′ E
4	25°23.559′ N	90°34.747′ E
5	25°23.541′ N	90°34.759' E
6	25°23.514′ N	90°34.729′ E
7	25°23.479′ N	90°34.679′ E



The proposed mining area is on lease for a period of 10 years vide Deed of Lease which was executed on 25th January 2021 at Baghmara and certified by Sub-Registrar, South Garo Hills, Baghmara.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Social Forestry & Territorial Division, South Garo Hills, Baghmara vide letter No. SF&T/SGH/NFL/154/2217 dated Baghmara, the 17th March, 2021 and Letter of Intent vide No.SGH/SF&T/LOI/158/52 dated Baghmara the 13th April, 2021.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2019/150 dated Williamnagar, the 21stOctober 2021 where it is mentioned that that there is no other mine lying within 500 meters from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted approved Mining plan from Divisional Mining Officer, East Garo Hills District, Williamnagar vide letter No.DMO-W/MP/75/2021/146 dated Williamnagar, the 8th October 2021. The Mining Plan has been prepared to extract boulder stone at an annual rate of 43735 MTPA with a project cost of Rs. 122.343 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the anticipated life of mine is 191681.64/191514=1*5=5 Years.

Recommendation

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

- 1) LOI ought to be renewed as the validity has expired
- 2) A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
- 3) 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.

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

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

Chairman SEIAA, Meghalaya, Shillong.

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

Dated Shillong, the Oct' 2022

Copy to:

1) Member, SEIAA, Meghalaya, Shillong for information.

2) File concern for record

Member Secretary SEIAA,

Meghalaya, Shillong.