

**STATE EXPERT APPRAISAL COMMITTEE (SEAC)**

**:: MEGHALAYA ::**

**Silviculture Building Adjacent to 'SYLVAN' House, Lower Lachumiere,**

**East Khasi Hills, Shillong – 793001.**

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**MINUTES OF 56<sup>th</sup> MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA  
SHILLONG HELD ON 6<sup>th</sup> July 2022, FOR ENVIRONMENTAL APPRAISAL OF NON-COAL  
MINING PROJECTS**

**Members of the Committee present:**

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

The 56<sup>th</sup> meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 6<sup>th</sup> July 2022 from 2:00 P.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/1/2022/10dated the 4<sup>th</sup> July 2022, accordingly. All proposed mining areas are cross checked through google earth.

**1. Confirmation of the minutes of the 55<sup>th</sup> Meeting held on 24<sup>th</sup> June 2022.**

The minutes were confirmed.

**2. Action taken report as per the decision taken in the 55<sup>th</sup> Meeting.**

As per the decision taken in the 55<sup>th</sup> Meeting of the State Expert Appraisal Committee held on 24<sup>th</sup> June 2022, (11) eleven project proposals were recommended for grant Terms of

Reference and (8) eight project proposals were recommended for Environmental Clearance to the State Environment Impact Assessment Authority, Meghalaya.

## ENVIRONMENTAL CLEARANCE

### I. Proposal No.SIA/ML/MIN/265312/2022 submitted by Shri Jeffry Shangpliang (M/S Umpung Boulderstone Mine)

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

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

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

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

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

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/140/2021/09dated Shillong, the 27<sup>th</sup>January 2022 where it is mentioned that that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/140/2021/4 dated Shillong, the 20<sup>th</sup>December 2021. The Mining Plan has been prepared to extract limestone at 40128TPA with a project cost of Rs.18.50 Lakhs and the operations will be open cast, semi-mechanized method of mining.

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

### **Recommendation**

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

1. LOI ought to be renewed as the validity has expired
2. The Project Proponent has to construct a retaining wall of 5 or 6 feet height covering all along the slope and spill ways along the periphery to ensure that no run off to the nearby agricultural land takes place.
3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.



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

**II. Proposal No.SIA/ML/MIN/254422/2022 submitted by Smt. Streamlet Merry Syiem (M/S Mawpyrshong Limestone Mine)**

The Project Proponent, Smt. Streamlet Merry Syiem submitted online application vide proposal No.SIA/ML/MIN/254422/2022 for Environmental Clearance for Mawpyrshong Limestone Mine for an area of 4.80 hectares. The proposal for mining of limestone will be used in kilns for manufacturing of lime used as building material and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at

Mawpyrsnong, North Side of Kharabi, Hima Bhowal Syiemship, East Khasi Hills, Meghalaya and toposheet Survey of India No. 780/8 within the following GPS Coordinates:

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

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

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

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/148/2021/06 dated Shillong, the 25<sup>th</sup> January 2022 where it is mentioned that that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/148/2021/2 dated Shillong, the 2<sup>nd</sup> December 2021. The Mining Plan has been prepared to extract limestone at 230196 TPA with a project cost of Rs.24.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves would be 4597560 Tonnes with an average annual production of 229878 (4597560/20=229878) Tonnes. The average annual production of limestone may be different from annual production of first five years. Thus, 1148772 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e (4597560-1148772)=3448788 Tonnes would be exhausted in further 15 years @229919 Tonnes per annum. Therefore the life of the mine will be 20 years (5 years in plan period + 15 years in conceptual period).

## **Recommendation**

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

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

11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.

**III. Proposal No.SIA/ML/MIN/258631/2022 submitted by Shri Rudolf G. Kyndiah (M/S Sapiang Limestone Mine)**

The Project Proponent, Shri Rudolf G. Kyndiah submitted online application vide proposal No.SIA/ML/MIN/258631/2022 for Environmental Clearance for Sapiang Limestone Mine for an area of 1.85 hectares. The proposal for mining of limestone will be used in kilns for manufacturing of lime used as building material and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Sapiang, Rah Khlieh, Dong Shoh Tngo, Shnongrim Village, East Jaintia Hills District, Meghalaya and toposheet Survey of India No. 83C/11 within the following GPS Coordinates:

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

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

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/IR/F.C/2021-22/985/B/1123 dated Jowai, the 22<sup>nd</sup> October, 2021 and Letter of Intent vide No.JH/R.G.K/ML/LS/2021-22/B/1254 dated Jowai the 9<sup>th</sup> November, 2021.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMO-J/57/MM/Mining plan/2021-22/164 dated Jowai, the 5<sup>th</sup> January 2022 where it is mentioned that that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/57/MM/Mining plan/2021-22/162 dated Jowai, the 5<sup>th</sup> January 2022. The Mining Plan has been prepared to extract limestone at 60075 TPA with a project cost of Rs. 11.50 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the mineable reserves of limestone is of the order of 6,57,000 MT. The production in the period of the mining plan will be around 3,00,375 MT in 5 years. The balance reserves will be  $(6,57,000 - 3,00,753) = 3,56,247$  MT. If the yearly production target is 60,075 MT, the balance reserve will be sufficient for  $(356247/60075) = 5.93$  years. Thus total life of the mine is  $(5 + 5.93) = 10.93$  or say 11 years.

### **Recommendation**

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

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



4. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
5. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
6. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
7. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
8. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
9. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
10. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
11. The project proponent erected only four pillars out of eleven. However, the boundary pillars should be erected with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar.
12. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
13. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
14. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.



15. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.

**IV. Proposal No.SIA/ML/MIN/277943/2022 submitted by Smt. Danima Pdang (M/S Larung Limestone Mine)**

The Project Proponent, Smt. Danima Pdang submitted online application vide proposal No.SIA/ML/MIN/277943/2022 for Environmental Clearance for Larung Limestone Mine for an area of 1.60 hectares. The proposal for mining of limestone will be used in kilns for manufacturing of lime used as building material and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Larung, Lumshnong Village, East Jaintia Hills, Meghalaya and toposheet Survey of India No. 83C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°10'52.3"N	92°24'20.2" E
2	25°10'52.6"N	92°24'20.5" E
3	25°10'53.3"N	92°24'20.8" E
4	25°10'53.4"N	92°24'20.9" E
5	25°10'54.4"N	92°24'21.3" E
6	25°10'54.9"N	92°24'21.2" E
7	25°10'55.0"N	92°24'20.6" E
8	25°10'55.5"N	92°24'19.9" E
9	25°10'55.5"N	92°24'19.6" E
10	25°10'55.6"N	92°24'19.3" E
11	25°10'56.4"N	92°24'18.9" E
12	25°10'56.7"N	92°24'18.9" E
13	25°10'56.9"N	92°24'19.2" E
14	25°10'58.2"N	92°24'20.3" E
15	25°10'58.6"N	92°24'19.8" E
16	25°10'58.5"N	92°24'19.5" E
17	25°10'58.4"N	92°24'19.0" E
18	25°10'58.7"N	92°24'18.2" E
19	25°10'58.0"N	92°24'17.5" E
20	25°10'56.8"N	92°24'16.6" E

21	25°10'56.7"N	92°24'16.1" E
22	25°10'55.9"N	92°24'16.3" E
23	25°10'55.8"N	92°24'16.6" E
24	25°10'55.4"N	92°24'16.5" E
25	25°10'54.6"N	92°24'17.3" E
26	25°10'53.5"N	92°24'17.0" E
27	25°10'53.3"N	92°24'17.4" E
28	25°10'52.8"N	92°24'17.8" E
29	25°10'52.5"N	92°24'18.8" E
30	25°10'52.5"N	92°24'19.5" E
31	25°10'52.7"N	92°24'19.8" E

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

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/IR/I.S/F.C/2021-22/985/B/1539 dated Jowai, the 23<sup>rd</sup> December, 2021 and Letter of Intent vide No.JH/D.P/ML/1.6ha/L.S/2021-22/B/1588 dated Jowai the 7<sup>th</sup> January, 2022.

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

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



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

### **Recommendation**

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

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



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

**V. Proposal No.SIA/ML/MIN/277137/2022 submitted by Shri. Christopher Rani (M/S Rasong Limestone Mine)**

The Project Proponent, Shri Christopher Rani submitted online application vide proposal No.SIA/ML/MIN/277137/2022 for Environmental Clearance for Rasong Limestone Mine for an area of 2.00 hectares. The proposal for mining of limestone will be used in kilns for manufacturing of lime used as building material and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Porjrei, Pormawdar Village, Nongstoin Syiemship, South West Khasi Hills, Meghalaya and toposheet Survey of India No. 780/3 within the following GPS Coordinates:

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

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

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

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/157/2022/06 dated Shillong, the 12<sup>th</sup> May 2022 where it is mentioned that that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/157/2022/02 dated Shillong, the 21<sup>st</sup> February 2022. The Mining Plan has been prepared to extract limestone at 180240 TPA with a project cost of Rs. 24.50 Lakhs and the operations will be open cast, semi-mechanized method of mining.

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

### **Recommendation**

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

1. LOI ought to be renewed as the validity has expired
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.



5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
9. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.

**VI. Proposal No.SIA/ML/MIN/273457/2022 submitted by Shri. Kynmaw Laloo (M/S Mooshynroo Boulderstone Mine)**

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

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°30'41.0"N	92°07'38.0" E

2	25°30'42.4"N	92°07'40.8" E
3	25°30'43.7"N	92°07'39.2" E
4	25°30'44.4"N	92°07'38.1" E
5	25°30'43.5"N	92°07'36.1" E

The proposed mining area is on lease for periods of 25 years vide Deed of Lease executed on the 30<sup>th</sup> of November, 2021 at Jowai and certified by Public Notary, West Jaintia Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/IR/I.S/F.C/2021-22/985/B/1215 dated Jowai, the 1<sup>st</sup> November, 2021 and Letter of Intent vide No.JH/K.L/M.L/B.S/2021-22/B/1461 dated Jowai the 10<sup>th</sup> December, 2021.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMO-J/59/MM/Mining plan/2021-22/166 dated Jowai, the 5<sup>th</sup> January 2022 where it is mentioned that that there is no approved mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No. DMO-J/59/MM/Mining plan/2021-22/163 dated Jowai, the 5<sup>th</sup> January 2022. The Mining Plan has been prepared to extract limestone at 22066 TPA with a project cost of Rs. 9.50 Lakhs and the operations will be open cast, semi-mechanized method of mining.

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

### **Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, the



committee unanimously recommended for grant of Environment Clearance with the following conditions.

1. LOI ought to be renewed as the validity has expired
2. The Project Proponent has to construct a retaining wall of 5 or 6 feet height covering all along the slope and spill ways along the periphery to ensure that no run off to the nearby agricultural land takes place.
3. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and double the number of plants to be planted.
8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
10. GPS coordinates of each 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