

STATE EXPERT APPRAISAL COMMITTEE (SEAC)

:: MEGHALAYA ::

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

East Khasi Hills, Shillong – 793001.

**MINUTES OF 50th MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA
SHILLONG HELD ON 19th October 2021, 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 Toiler H.S. Bonney (Rtd) IFS	Member	-Sd-
3	Shri. Puhran M. Sangma	Member	-Sd-
4	Shri. Phngain Singh Giri Lyngdoh	Member	-Sd-
5	Shri. Shekhar K. Sangma	Member	-Sd-
6	Shri. F. S Wann, MFS Deputy Conservator of Forest (SF & Env.)	Member Secretary SEAC	-Sd-

The 50th meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 19th October 2021 from 11:00 AM onwards in the Conference Hall, Sylvan House, Meghalaya, Shillong through blended mode method i.e. online and offline. 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-III/121/2020/32 dated the 12th October 2021, accordingly. All proposed mining areas are cross checked through google earth.

1. Confirmation of the minutes of the 49th Meeting held on 30th September 2021.

The minutes were confirmed.

2. Action taken report as per the decision taken in the 49th Meeting.

As per the decision taken in the 49th Meeting of the State Expert Appraisal Committee held on 30th September 2021, (1) one project proposal were recommended for grant Terms of Reference and (6) six project proposals were recommended for Environmental Clearance to the State Environment Impact Assessment Authority, Meghalaya.



3. TERM OF REFERENCE

I. Proposal No:SIA/ML/MIN/67148/2021 submitted by Smt. Keepcymerial Tymmenniang

The Project Proponent, Smt Keepcymerial Tymmenniang submitted online application for Term of Reference vide proposal No:SIA/ML/MIN/67148/2021 for Term of Reference for Ruieng Limestone Mine for mining of Lime stone for an area of 2.80 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 Ruieng, Lynti Dkhar Area, Sohbar Sirdarship, BPO Sohbar, 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° 11'4.91"N	91° 44'52.93"E
2	25° 11'5.87"N	91° 44'52.99"E
3	25° 11'6.46"N	91° 44'52.45"E
4	25° 11'6.82"N	91° 44'52.52"E
5	25° 11'8.95"N	91° 44'49.29"E
6	25° 11'8.78"N	91° 44'48.93"E
7	25° 11'9.88"N	91° 44'47.77"E
8	25° 11'9.71"N	91° 44'46.96"E
9	25° 11'8.88"N	91° 44'46.36"E
10	25° 11'7.77"N	91° 44'45.21"E
11	25° 11'6.77"N	91° 44'43.49"E
12	25° 11'6.07"N	91° 44'42.90"E
13	25° 11'5.40"N	91° 44'42.81"E
14	25° 11'4.87"N	91° 44'43.06"E

The proposed mining area is on lease for a period of 30 years vide Lease Agreement made on the 21st day of June 2019 certified by Notary, East Khasi Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & Ri-Bhoi (T) Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/5088 dated Shillong, the 1st February, 2021 and letter of



Intent vide letter No.KH/8/ML/Limestone/68/5103, dated Shillong, the 1st February, 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/121/2021/08 dated Shillong, the 4th August 2021 which states that there are twelve (12) 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 thirteen mines is summed up to 28.1715hectares. 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/121/2021/03 dated Shillong, the 02nd July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 1,04,639 TPA with a project cost of Rs.28.8 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 1046385 Tonnes with an average annual production of 104639 ($1046385/10=104639$) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 523180 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e. ($1046385-523180$) = 523205 Tonnes would be worked out in further 5 years. Therefore, the life of the mine will be 10 years (five years in plan period + five 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 standard Terms of Reference (ToR) with the following additional conditions:

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.
3. The distance between the boundary of Smt. Keepcymerial Tymmenniang, project proponent with adjoining approved mining plan of Shri Arbis Tangdhara and Shri Marbat Dohrut shown as "1"(one) and "2" metres in the Cluster Certificate, issued vide



No.DMR/MM/121/2021/08; dated Shillong, the 4th August 2021. Accordingly, as per provisions of Section 111[(2)] of Metalliferous Mines Regulations, 1961 no working is permitted within a distance of minimum 7.5 metres on both sides from the boundary of adjoining mine. This aspect should be highlighted in the EIA/EMP report, public consultation report etc, seeking for EC.

4. Since the distance between the proposed mine and adjoining mine(s) in the said cluster is “1” one and “2” metres and (7.5 metre after maintaining minimum 7.5 metres from adjoining mine as mentioned in clause 3 above) and nature of Over Burden (OB) is not known, as a precautionary measure, height of the 1st Bench is to be kept low, preferably within 1-3 metre maximum while maintaining width of the bench at 06 -7.5 metre.
5. A Comprehensive Environment Management Plan and Regional Environment Management Plan is to be furnished in the EIA/EMP.

II. Proposal No. SIA/ML/MIN/67601/2021 submitted by Smt. Tangkame D. Marak.

The Project Proponent, Shri Tangkame D. Marak submitted online application for Term of Reference vide proposal No:SIA/ML/MIN/67601/2021 for Term of Reference for Rochonpara Stone Mine for an area of 10 hectares. The proposal is for mining of lime stone to be used for construction of buildings & making/dressing of roads. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Rochonpara, P.O. Dhanua, P.S. Tura, West Garo Hills District, Meghalaya and toposheet Survey of India No.78G/14 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 41'37.00''N	89° 56'12.00''E
2	25° 41'42.20''N	89° 56'18.40''E
3	25° 41'50.80''N	89° 56'08.10''E
4	25° 41'41.90''N	89° 56'01.20''E
5	25° 41'38.10''N	89° 56'05.60''E
6	25° 41'40.80''N	89° 56'07.20''E
7	25° 41'40.20''N	89° 56'09.70''E

The proposed mining area is on lease for a period of 10 years vide Deed of Lease Agreement made on the 11th September 2020 certified by Notary, West Garo Hills Meghalaya.



The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South-West Territorial Division, Tura vide letter No.B/16/VII/NOC/MMMCR/1148-50 dated Tura, the 03rd March, 2021 and letter of Intent vide letter No.MFG.39/42/LOI/MMMCR/2016/2815, dated Shillong, the 6th July, 2021 respectively.

The project proponent obtained a cluster certificate from the Division Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2019/ dated Williamnagar, the 27th August 2021 which states that there are four (4) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of five mines is summed up to 13.27 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Division Mining Officer, East Garo Hills District, Williamnagar vide letter No.DMO-W/MP/69/2021/47 dated Shillong, the 03rd August 2021. The Mining Plan has been prepared to extract lime stone at the rate of 8,18,161 TPA with a project cost of Rs.66 lakhs and the operations will be open cast, mechanized method of mining.

As per the mining plan, the total mineable reserve would be 12272411 Tonnes with an average annual production of 818161 ($12272411/15 = 818161$) Tonnes and the production of stone in first 5 years will be 4090993 Tonnes. The average annual production of stone may be different from the annual production of first 5 years and the balanced mineable reserve for last 10 years would be 8181418 Tonnes. So life of the mine will be 15 years (five years plan period + ten years 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 standard Terms of Reference (ToR) with the following additional conditions:

1. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.



III. Proposal No. SIA/ML/MIN/67625/2021 submitted by Shri. Soshin Laitmon

The Project Proponent, Shri Soshin Laitmon submitted online application for Term of Reference vide proposal No:SIA/ML/MIN/67625/2021 for Term of Reference for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 0.75 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 Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 06.20''N	91° 41' 06.10'' E
2	25° 12' 01.30''N	91° 41' 06.00''E
3	25° 12' 00.00''N	91° 41' 04.20''E
4	25° 12' 04.80''N	91° 41' 04.30''E

The proposed mining area is on lease for 30 years vide Lease Deed made on the 5th 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/4716, dated Shillong, the 5th March 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4733, dated Shillong, the 5th March, 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/115/2021/13 dated Shillong, the 4th August 2021 which states that there are four (4) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of five mines is summed up to 7.475 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/115/2021/8 dated Shillong, the 12th July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 34,406 TPA with a project cost of Rs.22.5 lakhs and the operations will be open cast, semi-mechanized method of mining.



The mineable reserve would be 240840 Tonnes with an average annual production of 34406 (240840/7 = 34406) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 171940 Tonnes of the total mineable reserve i.e.(240840 – 171940) = 68900 Tonnes would be exhausted in further 2 years @ 34450 Tonnes per annum. Therefore, the life of the mine will be 7 years (Five years in plan period + Two 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 standard Terms of Reference (ToR) with the following additional conditions:

1. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

IV. Proposal No:SIA/ML/MIN/67796/2021 submitted by Shri Ivayle Mickdenov Ch. Sangma.

The Project Proponent, Shri Ivayle Mickdenov Ch. Sangma submitted online application for Term of Reference vide proposal No: SIA/ML/MIN/67796/2021 for Term of Reference for Rochonpara Stone Mine for mining of Boulder stone for an area of 10 hectares. The proposal is for mining of Boulder stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Rochonpara, P.O. Dhanua, P.S. Tura, West Garo Hills District, Meghalaya and toposheet Survey of India No.78G/14 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 41' 05.00''N	89° 56' 32.40''E
2	25° 41' 06.20''N	89° 56' 34.00''E
3	25° 41' 19.00''N	89° 56' 35.90''E
4	25° 41' 10.10''N	89° 56' 45.90''E
5	25° 41' 00.20''N	89° 56' 35.30''E

The proposed mining area is on lease for 10 years vide Deed of Lease made on the 1st September, 2020 certified by Notary, West Garo Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South-West Garo Hills (T) Division, Tura, Shillong, vide letter No. B/16/VII/NOC/MMMCR/1/51-53 dated Tura, the 3rd March 2021 and letter of Intent vide letter No.MFG.39/42/LOI/MMMCR/2016/2806, dated Shillong, the 6th July, 2021 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar, Meghalaya, vide letter No.DMR-W/MP/15/2019/ dated Williamnagar, the 27th August 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 16.05 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, East Garo Hills District, Williamnagar vide letter No.DMO-W/MP/71/2021/48 dated Williamnagar, the 3rd August 2021. The Mining Plan has been prepared to extract lime stone at the rate of 802626 TPA with a project cost of Rs.65 lakhs and the operations will be open cast, mechanized method of mining.

The total mineable reserve would be 12039393 Tonnes with an average annual production of 802626 ($12039393/15 = 802626$) Tonnes and production of stone in first 5 years will be 4012756 Tonnes. The average annual production of first 5 years and the balanced mineable reserve for last 10 years would be 8026637 Tonnes. So life of the mine will be 15 years (five years plan period + ten years 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 standard Terms of Reference (ToR) with the following additional conditions:

1. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

V. Proposal No:SIA/ML/MIN/67807/2021 submitted by Smt. Sylva R. Sangma.

The Project Proponent, Smt Sylva R. Sangma submitted online application for Term of Reference vide proposal No:SIA/ML/MIN/67807/2021 for Term of Reference for Sylva Limestone Mine for mining of Lime stone for an area of 1.7 hectares. The proposal is for mining of lime stone to be used in kilns for manufacturing of lime and construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Nongkulang Area, Khonjoy, South West Khasi Hills District, Meghalaya and toposheet Survey of India No.78O/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 23.10"N	91° 04' 29.40"E
2	25° 12' 21.70"N	91° 04' 34.06"E
3	25° 12' 20.10"N	91° 04' 35.00"E
4	25° 12' 16.80"N	91° 04' 30.06"E

The proposed mining area is on lease for 10 years vide Deed of Lease made on the 29th day of August 2017, certified by District Registrar, South West Khasi Hills District, Mawkyrwat.

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)/41, dated Nongstoin, the 12th January 2021 and letter of Intent vide letter NO. T/ W&SW/20-21/LS/138/ML/59, dated Nongstoin, the 14th January, 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/110/2021/09 dated Shillong, the 16th July 2021 which states that there are eleven (11) 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 twelve mines is summed up to 21.31 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/110/2021/05 dated Shillong, the 21st April 2021. The Mining Plan has been prepared to extract lime stone at the rate of 60000 TPA with a project



cost of Rs.27.5 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mine has a proved mineable reserves excluding safety barrier of 10,46,744 MT but after leaving residual benches, the net total mineable reserves comes to 7,49,889 MT. As the mine is targeted to produce 60,000 MT of limestone per annum, the anticipated life of the mine will be 12.5 years, say 13 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 standard Terms of Reference (ToR) with the following additional conditions:

1. LOI ought to be renewed as the validity has expired.
2. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.

4. ENVIRONMENTAL CLEARANCE

1. Proposal No:SIA/ML/MIN/225388/2021submitted by Shri. Piwel Lamare (M/S Thlunara limestone mine)

The Project Proponent, Shri Piwel Lamare submitted online application vide proposal No.SIA/ML/MIN/225388/2021 for Environmental Clearance for Thlunara Limestone Mine of for an area of 1.86 hectares. The proposal for mining of limestone for construction industry through stone crushing and Lime Kilns/plants and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Lumshnong, East Jaintia Hills, District, Meghalaya and toposheet Survey of India No. 83C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°10'39.1"N	92°20'58.5" E
2	25°10'38.7"N	92°20'57.6" E



3	25°10'38.4"N	92°20'56.8" E
4	25°10'38.0"N	92°20'55.0" E
5	25°10'35.1"N	92°20'56.2" E
6	25°10'33.7"N	92°20'58.1" E
7	25°10'34.0"N	92°21'00.0" E
8	25°10'34.4"N	92°21'00.8" E
9	25°10'37.7"N	92°21'00.6" E

The proposed mining area belongs to the project proponent as per Land holding certificate vide Memo No.JHADDC/REV/LHC/7/107/2018 dated Jowai, the 11th January 2021.

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/RO/2019-20/985/B/285 dated Jowai the 17th May, 2021 and letter of Intent vide No.JH/P.L/M.L/L.S/2021-22/B/365 dated Jowai, the 1st July 2021.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/47/MM/Mining Plan/2021-22/141 dated Jowai, the 23rd August 2021 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/47/MM/Mining Plan/2021-22/140 dated Jowai, the 5th August 2021. The Mining Plan has been prepared to extract limestone at 167675 MTPA with a project cost of Rs. 20.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of limestone are of the order of 8,90,000 MT. The production period of this mining plan will be around 8,38,350 MT in 5 years. The balance reserves will be $890000 - 838350 = 51650$ MT. If the yearly production target is 167675 MT, then the balance reserves will be sufficient for $51650 / 167675 = 0.30$ years. Thus total life of the mine is $5 + 0.30 = 5.30$ or 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, and

verification on actual site visit, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

1. The Project Proponent has to construct a wall of requisite height along the periphery to ensure that no run off to the nearby agricultural land human settlement, water bodies takes place.
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. GIS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
10. A board contain the name of Project, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be install in the entrance to the mining site.



II. Proposal No:SIA/ML/MIN/226860/2021 submitted by Shri Crozer G Momin

The Project Proponent, Shri Crozer G Momin submitted online application vide proposal No.SIA/ML/MIN/226860/2021 for Environmental Clearance for Chigisim Boulder stone Mine for mining of boulder stone for an area of 1.65 hectares. The proposal for mining of boulder stone is to be for construction and masonry work and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Rongeng, christianpara, P.O. Rongeng, East Garo Hills District, Meghalaya and toposheet Survey of India No. 78K/14 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°38'21.49"N	90°48'11.72" E
2	25°38'21.39"N	90°48'09.06" E
3	25°38'17.28"N	90°48'09.47" E
4	25°38'15.80"N	90°48'09.30" E
5	25°38'13.90"N	90°48'08.40" E
6	25°38'14.33"N	90°48'10.85" E
7	25°38'16.79"N	90°48'12.16" E

The proposed mining area belongs to the project proponent as per the Gift Deed certified by the Notary, East Garo Hills District, made on 15th September 2020.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East and North Garo Hills (T) Division, Williamnagar, vide letter No.B/50/II/945-952 dated Williamnagar the 9th September, 2020 and letter of Intent vide No.B/50/III/1242-1251 dated Williamnagar the 23rd October, 2020.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills District, Meghalaya vide letter No.DMO-W/MP/15/2019/52 dated Williamnagar, the 11th August 2021 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, East Garo Hills, Meghalaya vide letter No.DMO-W/MP/55/2020/33 dated Williamnagar, the



12th July 2021. The Mining Plan has been prepared to extract boulder stone at 80260TPA with a project cost of Rs. 20.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of boulder stone are of the order of 5,80,000 MT. The production in the period of this mining plan will be around 4,01,280 MT in 5 years. The balance reserves will be $580000 - 401280 = 178720$ MT. If the yearly production target is 80260 MT, then the balance reserves will be sufficient for $178720 / 80260 = 2.226$ years. Thus total life of the mine is $5 + 2.226 = 7.226$ 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, and site visit has not been undertaken, 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. 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.
3. 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.
4. 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.
5. 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.
6. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
7. 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.



8. GIS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
9. A board contain the name of Project, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be install in the entrance to the mining site.

III. Proposal No:SIA/ML/MIN/231722/2021submitted by Shri. Michel Lyngdoh

The Project Proponent, Shri Michel Lyngdoh submitted online application vide proposal No.SIA/ML/MIN/231722/2021 for Environmental Clearance for Lumbatai Limestone Mine for an area of 3.30 hectares. The proposal for Quarrying of limestone is to be used for making lime by lime kiln and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Lumbatai, Mynkre Village, East Jaintia Hills District, Meghalaya and toposheet Survey of India No. 83C/8 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°13'52.67"N	92°22'20.95" E
2	25°13'52.65"N	92°22'20.02" E
3	25°13'52.99"N	92°22'18.68" E
4	25°13'51.85"N	92°22'16.80" E
5	25°13'52.32"N	92°22'16.35" E
6	25°13'52.86"N	92°22'15.98" E
7	25°13'53.56"N	92°22'16.13" E
8	25°13'54.16"N	92°22'16.37" E
9	25°13'54.99"N	92°22'16.55" E
10	25°13'56.69"N	92°22'16.69" E
11	25°13'59.22"N	92°22'17.34" E
12	25°13'59.89"N	92°22'18.40" E
13	25°13'59.88"N	92°22'19.47" E
14	25°13'59.65"N	92°22'20.00" E
15	25°13'58.74"N	92°22'20.73" E
16	25°13'56.90"N	92°22'22.80" E
17	25°13'56.20"N	92°22'23.20" E



18	25°13'56.00"N	92°22'23.10" E
19	25°13'54.50"N	92°22'22.50" E
20	25°13'52.70"N	92°22'21.70" E

The proposed mining area is on lease for a period of 4 years vide Deed of Lease certified by Sub Registrar, East Jaintia Hills, Meghalaya on the 17th January 2017.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai, vide letter No.JH/S.Quarry/2009-10/476/B/1965 dated Jowai the 30th November, 2018 and letter of Intent vide No.JH/MMMCR-2016/2016-17/869/B/2647 dated Jowai, the 27th March 2019.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Jowai, Meghalaya vide letter No.DMO-J/11/MM/Mining Plan/2019/25 dated Jowai, the 8th August 2019 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Jowai, Meghalaya vide letter No.DMO-J/11/MM/Mining Plan/2019/11 dated Jowai, the 16th May 2019. The Mining Plan has been prepared to extract limestone at 90000 MTPA with a project cost of Rs. 22.50 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves of limestone are of the order of 29,66,370 Tons. The production period of this mining plan will be around 4,30,200 Tons in 5 years. The balance reserves will be 25,36,170 Tons. If the yearly production target is 90000 tons, then the balance reserves will be sufficient for $2536170/90000=28.179$ years. Thus total life of the mine is $5+28.179=33.179$ or say 33 years.

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 verification on actual site visit the committee unanimously recommended for **EDS** (the project proponent should erect the Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and correction of the address of the mining site in Form 2).

IV. Proposal No:SIA/ML/MIN/232450/2021submitted by Shri. Teilang Pde

The Project Proponent, Shri Teilang Pde submitted online application vide proposal No.SIA/ML/MIN/232450/2021 for Environmental Clearance for Kalagaw Limestone Mine for an area of 1.97 hectares. The proposal for quarrying of limestone is to be use for making lime by lime kiln for building materials and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Nonghyllam, South West Khasi Hills District, Meghalaya and toposheet Survey of India No. 78O/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°12'17.22"N	91°6'23.28" E
2	25°12'21.48"N	91°6'16.14" E
3	25°12'19.56"N	91°6'13.56" E
4	25°12'15.36"N	91°6'21.78" E

The proposed mining area is on lease for a period of 40 years vide Deed of Lease made on the 12th September 2019, certified by Sub Registrar, South West Khasi Hills, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West and South West Khasi Hills (SF&T) Division, vide letter No.T/WSW/20/NOC(L)/347 dated Nongstoin the 11thMarch, 2021 and letter of Intent vide No.T/W&SW/ML/LS/2021/156/599 dated Nongstoin, the 16thApril 2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/134/2021/07 dated Shillong, the 29thSeptember 2021 where it is mentioned that there is no other mine lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/134/2021/2 dated Shillong, the 22ndSeptember2021. The Mining Plan has been prepared to extract limestone at 64344 MTPA with a project cost of Rs. 28.00 Lakhs and the operations will be open cast, semi-mechanized method of mining.



The mineable reserve would be 643436 Tonnes with an average annual production of 64344($643436/10=64344$) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 321636 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e($643436-321636$)=321800 Tonnes would be exhausted in further 5 years @64360 Tonnes per annum. Therefore, the life of the mine will be 10 years(five years in plan period + 5 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, and site visit has not been undertaken, 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. 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.
3. 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.
4. 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.
5. 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.
6. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
7. 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.



8. GIS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
9. A board contain the name of Project, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be install in the entrance to the mining site.

The meeting ended with a vote of thanks to the Chair


Chairman

State Expert Appraisal Committee
Meghalaya Shillong