

STATE EXPERT APPRAISAL COMMITTEE (SEAC)

:: MEGHALAYA ::

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

MINUTES OF 54th MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA SHILLONG HELD ON 6th June 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	
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 54th meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 6th June 2022 from 11:00 A.M. onwards in the Conference Hall, Rain Forest Rest House, Forest Colony, Polo, 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/1/2022/6 dated the 1st June 2022, accordingly. All proposed mining areas are cross checked through google earth.

1. Confirmation of the minutes of the 53rd Meeting held on 20th May 2022.

The minutes were confirmed.

2. Action taken report as per the decision taken in the 53rd Meeting.

As per the decision taken in the 53rd Meeting of the State Expert Appraisal Committee held on 20th May 2022, (11) eleven project proposals were recommended for Environmental Clearance, and (3) three ADS were recommended to the State Environment Impact Assessment Authority, Meghalaya.

ENVIRONMENTAL CLEARANCE

I. Proposal No.SIA/ML/MIN/242263/2021 submitted by Shri Donkupar Massar (M/S Borsora Limestone Mine- Block I)

The Project Proponent, Shri Donkupar Massar submitted online application vide proposal No.SIA/ML/MIN/242263/2021 for Environmental Clearance for Borsora Limestone Mine (Block I) of for an area of 4.95 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 Borsora, Langrin Syiemship, South West Khasi Hills, Meghalaya and toposheet Survey of India No. 78O/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°12'10.700"N	91°12'25.900" E
2	25°12'11.800"N	91°12'20.300" E
3	25°12'17.170"N	91°12'29.370" E
4	25°12'20.330"N	91°12'35.090" E
5	25°12'15.200"N	91°12'33.700" E
6	25°12'12.800"N	91°12'32.900" E

The proposed mining area is on lease vide Lease Agreement signed between the Syiem of Langrin and his Durbar with Rita Massar on the 19th of August, 1988 and the affidavit certified by Public Notary, East Khasi Hills, Meghalaya on the 28th May 2021 that Shri Donkupar Massar is the son and legal heir of (L) Rita Massar and the mentioned Lease Agreement (KA SOSKULAR) dated 5th July 2013.

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)/779 dated Nongstoin, the 17th November, 2020 and Letter of Intent vide No.T/W&SW/20-21/ML/LS/143/357 dated Nongstoin the 12th March, 2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/130/2021/07 dated Shillong, the 9th November 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/130/2021/2 dated Shillong, the 25th September 2021. The Mining Plan has been prepared to extract limestone at 216386 MTPA with a project cost of Rs. 24.8 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves would be 3244601 Tonnes with an average annual production of 216307 ($3244601/15=216307$) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 1081545 Tonnes of the total mineable reserve will be worked out in first five years and the rest quantity of mineable reserve i.e. ($3244601-1081545$) = 2163056 Tonnes would be exhausted in further 10 years @ 216306 Tonnes per annum. Therefore, the life of the mine will be 15 years (five years in plan period + ten years in conceptual period).

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and deliberation by using kml file through google earth, the committee unanimously recommended for ADS (As per verification from google earth it shows that the river is less than 5 metres from the proposed mining site, and the road located near the proposed mining site is less than 50 metres, which is less than 100 metres. As per the Amended Notification of MMMCR 2016, dated 21.09.2020, Amendment Rule 4.1.(b): It is stated that no mining lease and quarry permit shall be granted in respect of any land within a distance of 100 m from any village, water source, bridges, dams, reservoirs and from the edge of the State Highways and any other roads when blasting is not involved and 200 metres restriction when blasting is involved. Hence, Project Proponent to obtain written justification from concerned departments like Forest & Environment, Mining & Geology/DMR in approving the mining lease, mining plan which is at variance with specifications of Meghalaya Minor Minerals Concession Rules, 2016, amended 21st September, 2020).

II. Proposal No.SIA/ML/MIN/270919/2022 submitted by Shri Albert Steven Diengdoh (M/S Albert Limestone Mine Block I)

The Project Proponent, Shri Albert Steven Diengdoh submitted online application vide proposal No.SIA/ML/MIN/270919/2022 for Environmental Clearance for Albert Limestone Mine Block I of for an area of 3.15 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 Rongdusora, South West Khasi Hills, Meghalaya and toposheet Survey of India No. 78O/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°12'43.8"N	91°5'34.5" E
2	25°12'38.8"N	91°5'19.9" E
3	25°12'43.8"N	91°5'19.6" E

The proposed mining area is on lease for 25 years vide Deed of Lease which was executed on 19th August 2014 and certified by the Sub-Registrar, Mawkyrwat.

The applied area is a Non Forest Land which was confirmed by the Conservator of Forest (T), Khasi and Jaintia Hills, Meghalaya, Shillong vide letter No.MFG.39/42/NFLC/MINING/MMMCR/KH/5310dated Shillong, the 24thAugust, 2021 and Letter of Intentconfirmed by the Divisional Forest Officer, SF & Territorial Division, West & South West Khasi Hills, vide letter vide No.T/W&SW/ML/LS/21-22/174/1060 dated Nongstoin the 10th September, 2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/142/2021/07 dated Shillong, the 15th December 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 Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/142/2021/01 dated Shillong, the 16th November 2021. The Mining Plan has been prepared to extract limestone at 165000MTPA with a project cost of Rs. 5.30 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mine has a Proved Mineable Reserves excluding safety barrier and UPL of 34,19,845 MT and after leaving residual benches, the Extractable Mineable Reserves come to 16,53,200 MT. The mine is targeted to produce 1,65,000 TPA of limestone.

Taking 300 days as the average working days per annum, the daily production comes to around 533TPD. Hence, the anticipated life of mine will be 10.02 years, say 10 years.

Recommendation

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

1. 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/272057/2022 submitted by Shri Donkupar Massar (M/S Borsora Block V Limestone Mine)

The Project Proponent, Shri Donkupar Massar submitted online application vide proposal No.SIA/ML/MIN/272057/2022 for Environmental Clearance for Borsora Block V Limestone Mine for an area of 4.92 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 Borsora, Langrin Syiemship, South West Khasi Hills, Meghalaya and toposheet Survey of India No. 78O/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°12'33.280"N	91°12'23.690" E
2	25°12'37.300"N	91°12'14.430" E
3	25°12'41.620"N	91°12'18.420" E
4	25°12'37.700"N	91°12'27.780" E

The proposed mining area is on lease vide Lease Agreement signed between the Syiem of Langrin and his Durbar with Rita Massar on the 19th of August, 1988 and the affidavit certified by Public Notary, East Khasi Hills, Meghalaya on the 28th May 2021 that Shri Donkupar Massar is the son and legal heir of (L) Rita Massar and the mentioned Lease Agreement (KA SOSKULAR) dated 5th July 2013.

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)/1225 dated Nongstoin, the 6th October, 2021 and Letter of Intent vide No.T/W&SW/ML/LS/21-22/191/1429 dated Nongstoin the 2nd November, 2021.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/154/2022/07 dated Shillong, the 29th April 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/154/2022/02 dated Shillong, the 10th February 2022. The Mining Plan has been prepared to extract limestone at 293954 MTPA with a project cost of Rs. 24.6 Lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserves would be 4408595 Tonnes with an average annual production of $293906(4408595/15=293906)$ Tonnes. The average annual production of limestone may be different from annual production of five years plan period .Thus 1468281 Tonnes of the total mineable reserve will be worked out in first five years and the rest quantity of mineable reserve i.e. $(4408595-1468281)=2940314$ Tonnes would be exhausted in further 10 years @ 294031 Tonnes per annum. Therefore, the life of the mine will be 15 years (five years in plan period + ten 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.

IV. Proposal No.SIA/ML/MIN/50779/2020 submitted by Shri. Kermiky Dkhar. (M/S Kermiky Dkhar's Limestone Mine)

 The Project Proponent Shri. Kermiky Dkhar submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/50779/2020 for mining of limestone for an area of 4.58 hectare. The proposal is for mining of lime stone use for making lime. The lime stone will be supplied to Lime Kilns for making lime as the lease is under Minor Mineral . The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The applied area located at Wahlathma, Lumshnong, District- East Jaintia Hills Meghalaya and within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°09'50.3"	92°22'02.0"
2	25°09'49.7"	92°22'01.8"
3	25°09'49.5"	92°22'01.7"
4	25°09'49.3"	92°22'01.6"
5	25°09'48.7"	92°22'01.4"
6	25°09'48.3"	92°22'01.5"
7	25°09'47.8"	92°22'01.4"
8	25°09'45.9"	92°22'00.7"
9	25°09'45.1"	92°21'59.8"
10	25°09'44.8"	92°21'59.7"
11	25°09'44.6"	92°21'59.3"
12	25°09'44.3"	92°21'58.7"
13	25°09'43.0"	92°21'58.7"
14	25°09'42.6"	92°21'59.5"
15	25°09'42.4"	92°21'59.6"
16	25°09'42.2"	92°21'59.7"
17	25°09'41.8"	92°21'59.2"
18	25°09'39.7"	92°21'58.0"
19	25°09'39.6"	92°21'56.5"

20	25°09'39.7"	92°21'55.5"
21	25°09'40.1"	92°21'54.6"
22	25°09'41.0"	92°21'54.5"
23	25°09'41.7"	92°21'52.3"
24	25°09'43.3"	92°21'52.5"
25	25°09'45.1"	92°21'54.6"
26	25°09'46.0"	92°21'56.4"
27	25°09'46.9"	92°21'57.2"
28	25°09'48.6"	92°21'57.2"
29	25°09'49.3"	92°21'57.4"
30	25°09'50.1"	92°21'57.0"
31	25°09'50.43"	92°21'57.18"
32	25°09'50.4"	92°21'58.1"
33	25°09'50.7"	92°22'00.0"

The project proponent submitted that the Period of Mining Lease is of 20 years vide Lease Deed dated 24th July 2013 with a project cost of Rs 23 Lakhs. The mineable reserves of limestone are of the order of 3200000 tons with the target production of 1000350 tons in 5 years. The balance reserves is $3200000 - 1000350 = 2199650$ tones with production target of 200070 tones. The balance reserves will sufficient for $2199650/200070=10.99$ years. Thus the total life of the mine is $5+10.99= 15.99$ say 16 years.

Limestone in the Mine area is to be excavated by conventional method of opencast mining through the formation of safe benches which will be semi mechanized and on single shift basis. Benches are to be formed and worked in a top to downward manner. Because of presence of hard rock mass, drilling for blasting is to be performed for loosening of the rock mass. The rock will be mostly excavated and broken by hydraulic excavators and rock breakers respectively.

The proposed mining area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/S.Quary/2009-10/476/B/1737 dated Jowai the 19th June 2019 and letter of intent vide letter No.JH/MMMCR-2016/2016-17/869/B/2009 dated Jowai 30th July 2019 which subsequently renewed vide letter No.JH/MMMCR-2016/2016-17/869/B/2126 dated Jowai, the 30th January 2020.

The project proponent has obtained a cluster certificate from the office of the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/23/MM/Mining Plan/2019/34 dated Jowai, the 19th September 2019 where it is mention that two approved mining plan are located within 500 metres. Hence the applied mining area fall under cluster category with a total area of 12.053 hectare and as per Ministry of Environment, Forest and Climate Change Notification No.S.O.3977(E) dated New Delhi, the 14th August 2018 in appendix – XI, the project fall under category B2. Hence, the project proponent need to prepare for Environment Management Plan.

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-59/2020/1376 dated 29th June 2020 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 Enviro Infra Solutions PVT. LTD.

The public hearing was held on 25th March 2022 conducted by the Meghalaya State Pollution Control Board presided by Shri. S.S Syiemlieh, the Addl. District Magistrate, East Jaintia 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.

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. 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 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/266555/2022 submitted by Shri. Raynold Milton Laloo. (M/S Borsohra Limestone Mine)

The Project Proponent Shri. Raynold Milton Laloo submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/266555/2022 for mining of limestone for an area of 4.66 hectare. The proposal is for mining of limestone use for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA

Notification 2006. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Borsohra, 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° 12'10.2526"N	91° 10'57.9439"E
2	25° 12'9.6783"N	91° 11'2.3697"E
3	25° 12'21.6163"N	91° 11'2.8623"E
4	25° 12'21.1598"N	91° 10'57.7773"E

The proposed land is on lease for a period of 25 years and the nomination of the land was made vide Special Power of Attorney which was executed on the 26th February 2019 certified by Notary Public, Govt of Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Territorial Division, West & South West Khasi Hills, Nongstoin vide letter No.T/W&SW/20/NOC(L)/643 dated Nongstoin, the 11th June 2018 and letter of Intent vide letter No.T/W&SW/ML/LS/R.LALOO/657 dated Nongstoin, the 13th June 2019 issued by the Divisional Forest Officer, West & South West Khasi Hills Territorial Division, Nongstoin.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/52/2019/06 dated Shillong, the 22nd July 2020 which states that there is another approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of total nine mines is more than 5 hectares. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Director of Mineral Resources, Government of Meghalaya vide letter No.DMR/MM/52/2019/721 dated Shillong, the 29th November 2019. The Mining Plan has been prepared to extract limestone stone at the rate of 241936 MTA with a project cost of Rs.32 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve would be 4821703 tonnes with an average annual production of 241085 (4821703/20=241085) Tonnes and production of limestone in the first five years will be 1207694 tonnes. The average annual production of limestone may be different from annual production of each of the first five years. The balance mineable reserve, 3614009 tonnes will be worked out in the subsequent 15 years. Therefore, the life of the mine will be 20 years (first five years in plan period + 15 years in conceptual period).

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/P-98/2020/11/1384 dated 8th January 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 Environmental Research and Analysis.

The public hearing was held on 29th October 2021 conducted by the Meghalaya State Pollution Control Board presided 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 deliberation by using kml file through google earth, and presentation of the EIA/EMP, the committee unanimously recommended for ADS.

- As per verification from google earth it is observed that metalled road is less than 20 metres from the proposed mining site. As per the Amended Notification of MMMCR 2016, dated 21.09.2020, Amendment Rule 4.1.(c): It is stated that no mining lease and quarry permit shall be granted in respect of any land within a distance of 200 m from any village, water source, bridges, dams, reservoirs and from the edge of the State Highways and any other roads when blasting is involved and minimum 100 metres restriction when blasting is not involved. Hence, Project Proponent to obtain written justification from concerned departments like Forest & Environment, Mining & Geology/DMR in approving the mining lease, mining plan which is at variance with specifications of Meghalaya Minor Minerals Concession Rules, 2016, amended 21st September, 2020.
- The water quality and soil status report of samples collected from project site and analysed by National Accreditation Board for Testing and Calibration Laboratories (NABL) or Ministry of Environment, Forest and Climate Change (MoEFCC), accredited/approved labs has to be furnished by the Project Proponent.

VI. Proposal No.SIA/ML/MIN/53444/2020 submitted by Shri. Shembhlang K. Rymmai (M/S Sohmluh Limestone Quarry)

The Project Proponent Shri. Shembhlang K. Rymmai submitted online application for Environmental Clearance vide proposal **No.SIA/ML/MIN/53444/2020** for mining of limestone for an area of 4.50 hectare. The proposal is for mining of lime stone use as building and construction materials for various construction purposes as well as for supply to limestone kilns. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Sohmluh, Elaka Wahlong 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° 10' 50.5"N	91° 43' 07.7"E
2	25° 10' 48.7"N	91° 43' 03.4"E
3	25° 10' 48.5"N	91° 43' 00.2"E
4	25° 10' 46.0"N	91° 43' 00.2"E
5	25° 10' 42.19"N	91° 43' 02.86"E
6	25° 10' 44.37"N	91° 43' 09.39"E

The proposed land measuring for 4.50 hectare is on lease for 30 years vide Lease Agreement which was executed on 24th January 2019 and certified by Notary Public Govt of 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/7610, dated Shillong, the 20th May 2019 and letter of Intent vide letter No.KH/8/ML/Limestone/68/7734 dated Shillong, the 23rd March 2019. The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/34/2019/1779 dated Shillong, the 24th January, 2020 which states that there are another four limestone mines of different owners lying within 500 metres from the

applied mining lease area. Hence the applied mining area falls under cluster category with a total area of all the five mines is summed up to 14.6242 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong vide letter No.DMR/MM/34/2019/128, dated Shillong, the 2nd May 2019. The Mining Plan has been prepared to extract Lime stone at an average annual production of 1,62,478 TPA with a project cost of Rs.30.45 lacs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the mineable reserves of the lime stone is 32, 48,667 tonnes with an average annual production of 162433($3248667/20=162433$) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 807946 tonnes of the total mineable reserve will be worked out in first 5 years and the balance mineable reserve will be worked out in further 15 years@164715 tonnes per year. Therefore, the life of the mine will be 20 years (five years in plan period + fifteen years in conceptual period).

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-41/2020/1482 dated 27th August 2020 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 Environmental Research and Analysis.

The public hearing was held on 20th January 2021 conducted by the Meghalaya State Pollution Control Board presided by Smt. D. Phawa, MCS, ADC, East Khasi Hills District.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent and deliberation by using kml file through google earth, and presentation of the EIA/EMP, the committee unanimously recommended for ADS (The water quality and soil status report of samples collected from project site and analysed by National Accreditation Board for Testing and Calibration Laboratories (NABL) or Ministry of Environment, Forest and Climate Change (MoEFCC), accredited/approved labs has to be furnished by the project proponent).

VII. Proposal No.SIA/ML/MIN/66635/2021 submitted by Smt. Arbina M. Sangma.(M/S Bagli Limestone Mine)

The Project Proponent Smt. Arbina M. Sangma submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/66635/2021 for mining of limestone for an area of 1.0 hectare. The proposal is for mining of lime stone use for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Bagli, 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° 12'34.0''N	91° 04'22.0''E
2	25° 12'36.0''N	91° 04'21.0''E
3	25° 12'38.19''N	91° 04'23.48''E
4	25° 12'35.43''N	91° 04'24.49''E

The proposed mining area is on lease for a period of 10 years vide Deed of Lease Agreement executed on the ___ day of November 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, Territorial Division, West & South West Khasi Hills, Nongstoin vide letter No.T/W&SW/20/NOC(L)/170 dated Nongstoin, the 7th February 2018 and letter of Intent vide letter No.T/WSW/ML/LS/A.M Sangma(1ha)/217 dated Nongstoin, the 21st February, 2019 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/26/2019/10 dated Shillong, the 4th August 2021 which states that there are seven (7) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of eight mines is summed up to 17.2 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/26/2019/45 dated Shillong, the 17th April 2019. The Mining Plan has been prepared to extract lime stone at the rate of 83960 TPA with a project cost of Rs. 28.5 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserve would be 419799 Tonnes with an average annual production of 83960 ($419799/5=83960$) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus the total mineable reserve will be worked out in 5 years. Therefore, the life of the mine will be 5 years (five years in plan period).

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/SWKH/P-188/2021/742 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 Environmental Research and Analysis.

The public hearing was held on 14th January 2022 conducted by the Meghalaya State Pollution Control Board presided 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 deliberation by using kml file through google earth, and presentation of the EIA/EMP, the committee unanimously recommended for ADS (The water quality and soil status report of samples collected from project site and analysed by the National Accreditation Board for Testing and Calibration Laboratories (NABL) or Ministry of Environment, Forest and Climate Change (MoEFCC), accredited/approved labs has to be furnished by the project proponent).

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



Chairman

State Expert Appraisal Committee,
Meghalaya, Shillong