

STATE EXPERT APPRAISAL COMMITTEE (SEAC)

:: MEGHALAYA ::

‘SYLVAN’ House, Lower Lachumiere,
East Khasi Hills, Shillong – 793 001.

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**MINUTES OF 46th MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA
SHILLONG HELD ON 23th August 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	Prof. Donkumar Syiem	Member	-Sd-
3	Shri Toiler H.S. Bonney (Rtd) IFS	Member	-Sd-
4	Shri. Puhran M. Sangma	Member	-Sd-
5	Shri. Phngain Singh Giri Lyngdoh	Member	-Sd-
6	Shri. Shekhar K. Sangma	Member	-Sd-
7	Shri. Jiswordy Dkhar, MFS Deputy Conservator of Forest (SF & Env.)	Member Secretary SEAC	-Sd-

The 46th meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 23rd August 2021 through video conference from 11:30 AM onwards through video conference in the Conference Hall, Sylvan House, Meghalaya, Shillong. 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/121/2020/23 dated the 20th August 2021, accordingly. All proposed mining areas are cross checked through google earth.

1. Confirmation of the minutes of the 45th Meeting held on 30th July 2021.

The minutes were confirmed.

2. Action taken report as per the decision taken in the 45th Meeting.

As decided in the 45th Meeting 3 (three) Nos. of project proposals were recommended for Environmental Clearance to the State Environment Impact Assessment Authority and 6 (six) proposals for Coke Oven Plants were rejected since the threshold limit of these plants are below 25,000 MTPA.

1. Proposal No.SIA/ML/MIN/220657/2021 submitted by Smt. Langspah Tymmenieng
 The Project Proponent, Smt. Langspah Tymmenieng submitted online application vide proposal No.SIA/ML/MIN/220657/2021 for Environmental Clearance for Shloit Limestone Mine for mining of limestone for an area of 1.0 hectares. The proposal for mining of Limestone stone is to be used in kilns for manufacture of lime and/or as building material for building, road and other construction works and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Shloit, Lynti Dkhar Area, East Khasi Hills District, Meghalaya and toposheet Survey of India No. 780/16 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°11'13.97"N	91°45'29.55" E
2	25°11'14.65"N	91°45'31.60" E
3	25°11'20.73"N	91°45'33.30" E
4	25°11'19.42"N	91°45'30.82" E

The proposed mining area is on lease for a period of 20 years vide Lease Agreement executed on the 25th February 2021 certified by Sub Registrar, Sohra.

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/V/6280 dated Shillong the 31stMarch 2021 and letter of Intent vide No. KH/8/ML/Limestone/68/6296 dated Shillong, the 31st March 2020.

The project proponent has obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong Vide letter No.DMR/MM/122/2021/06 dated Jowai, the 7th July 2021 where it is mentioned that there are another three approved mining plans located within 500 metres from the mining lease area where the total area is summed up to 3.75 Ha. That is less than 5 ha. 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/122/2021/02 dated Shillong, the 29th June 2021. The Mining Plan has been prepared to extract lime stone at 30100TPA with a project cost ofRs.29.00 lakhs and the operations will be open cast, semi-mechanized method of mining.



As per the mining plan, the mineable reserves of lime stone are of the order of 3, 02,000MT. The production in the period of the mining plan will be around 1, 50,500 MT in 5 years and the balance reserve will be (3, 02,000-1, 50,500) or 1, 51,500 MT. If the production target is 30,100MT, the balance reserves will be sufficient for 151500/30100 or 5.03 years. Thus the total life of the mine is 5+5.03= 10.03 years or 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, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommend 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 wall of requisite height along the periphery to ensure that no run off to the nearby agricultural, land human settlement, water bodies 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 shall stand revised accordingly.

2. Proposal No.SIA/ML/MIN/219365/2021 submitted by Shri Santi Sangma

The Project Proponent, Shri Santi Sangma submitted online application vide proposal No.SIA/ML/MIN/219365/2021 for Environmental Clearance for Bollongre Stone Mine for mining of boulder stone for an area of 0.75 hectares. The proposal for mining of boulder stone is to be for various construction works and road projects and hence the project fall

stone is to be for various construction works and road projects and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Bollonggre, P.O.-Dhanua, 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°38'44.0"N	89°58'11.4" E
2	25°38'45.4"N	89°58'13.3" E
3	25°38'43.1"N	89°58'15.9" E
4	25°38'41.5"N	89°58'13.8" E

The proposed mining area is on lease for a period of 20 years; vide Lease Agreement executed on the 23rd September 2019 certified by District Registrar, Tura.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South West Garo Hills Territorial Division, Tura vide letter No.B/16/VII/NOC/MMMCR/503/33 dated Tura the 12th November 2019 and letter of Intent vide No.B/16/VII/386 dated Tura, the 3rd Feb 2020. The project proponent has obtained a cluster certificate from the Divisional Mining Officer East Garo Hills, Williamnagar, Meghalaya, vide letter No.DMO-W/MP/15/2019/132 dated Williamnagar, the 19th November 2020 where it is mentioned that there is one approved mining plan located within 500 metres from the mining lease area where the total area is summed up to 1.85Ha. That is less than 5 ha. Hence, the Environment Management Plan is not required.

The project proponent submitted mining plan approved by the Divisional Mining Officer, East Garo Hills District, Meghalaya, Williamnagar vide letter no. DMO-W/MP/53/2019/106 dated Williamnagar, the 17th September 2020. The Mining Plan has been prepared to extract boulder stone at 27698 TPA with a project cost of Rs. 22.5lakhs 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 276660 MT with an average annual production of 27666(276660/10=27666) Tonnes and production of stone in first 5 years will be 138090 tonnes. The average annual production of stone may be different from the annual production

of first 5 years and the balance mineable reserve for last 5 years would be 138570 tonnes. So life of the mine will be 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, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommend 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 wall of requisite height along the periphery to ensure that no run off to the nearby agricultural land human settlement, water bodies 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.

3. Proposal No.SIA/ML/MIN/39088/2019 submitted by M/s Kolpo Bricks Industry.

The Project Proponent M/s Kolpo Bricks Industry submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/39088/2019 for mining of brick earth for an area of 2.00 hectares. The proposal is for mining of brick earth for making bricks for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Damalgre, P.O+P.S-Garobadha, South

West Garo Hills District, Meghalaya and toposheet Survey of India No.78K/2 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 31' 30.2"N	90° 06' 19.3"E
2	25° 31' 27.5"N	90° 06' 18.8"E
3	25° 31' 27.7"N	90° 06' 16.3"E
4	25° 31' 27.6"N	90° 06' 11.5"E
5	25° 31' 32.1"N	90° 06' 13.2"E
6	25° 31' 30.2"N	90° 06' 17.5"E
7	25° 31' 30.6"N	90° 06' 17.8"E

The proposed mining area is on lease for a period of 5 years vide Lease Agreement executed on the 4th November 2018 at Ampati, certified by Sub-Registrar, South West Garo Hills, Ampati.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West, South and South West Garo Hills (T) Division, Tura vide letter No.B/16/VII/NOC/MMMCR/4088-89, dated Tura, the 30th October 2018 and letter of Intent vide letter No.B/16/VII/968 dated Tura, the 12th March 2019. The project proponent obtained a Cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2019/49 dated Williamnagar, the 3rd July, 2020 which states that that there is no approved mining plan located within 500 metres from the mining lease area. Hence, the Environment Management Plan is not required. The Project proponent obtained the No Objection Certificate for excavation of clay from the District Agriculture Officer, South West Garo Hills, Ampati vide letter No.AGRI/SWGH/DAO/NOC-22/2018-19/315 dated Ampati, the 27th August, 2018.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the office of the Divisional Mining Officer, East Garo Hills, Meghalaya, vide letter No.DMO-W/MP/9/2019/41, dated Williamnagar, the 22nd May 2019. The Mining Plan has been prepared to extract brick earth at an average annual production of 4680 TPA with a

project cost of Rs.8lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the mine has a Total Mineable Reserves of 67459 tons/17297308 Nos. of bricks. But the permit holder has obtained the quarry permit only for 3 years with the production capacity of 12 lakh bricks or 4680 Tonnes of brick earth per year and thus total 14040 tonnes of Brick Earth will be mined out during mining period of 3 years. So, the life of the mine will be 3 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, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommend for grant of Environment Clearance with the following conditions.

1. LOI ought to be renewed as the validity has expired.

4. Proposal No.SIA/ML/MIN/178563/2020 submitted by Shri Ram Kumar Teli.

The Project Proponent Shri Ram Kumar Teli submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/178563/2019for Chandabhoi Brick Earth Quarry Permit for mining of brick earth for an area of 1.50hectares for the use of making bricks for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Chandabhoi, Dohapara, Dalu, West Garo Hills District, Meghalaya and toposheet Survey of India No.78K/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 13' 32.8"N	90° 10' 35.4"E
2	25° 13' 31.0"N	90° 10' 34.7"E
3	25° 13' 29.05"N	90° 10' 41.8"E
4	25° 13' 31.8"N	90° 10' 42.6"E

The proposed mining area is on lease as per Deed of Lease executed on the 22nd December 2017, certified by Notary, West Garo Hills, Tura.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West, South and South West Garo Hills (T) Division, Tura vide letter No.B/16/VII/NOC/MMMCR/4851-53, dated Tura, the 29th October 2019 and letter of Intent vide letter No.B/16/VII/4854 dated Tura, the 29th October 2019. The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2019/62 dated Williamnagar, the 22nd July, 2020 which states that there is another mine of different owner lying within 500 metres from the applied mining lease area and the total of these two mines is summed up to 2.487 Ha. Which is less than 5 Ha. The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the office of the Divisional Mining Officer, East Garo Hills, Meghalaya, vide letter No.DMO-W/MP/44/2019/140, dated Williamnagar, the 8th January 2020. The Mining Plan has been prepared to extract brick earth at an average annual production of 4250 TPA with a project cost of Rs.5, 79,000 and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the mine has a Total Mineable Reserves of 93,870 tons. The production in the period of this mining plan will be around 21250 tons in 5 years. The balance mineable reserve would be $93870 - 21250 = 72620$ tonnes. If the production target is 4250 tons, the balance reserve will be sufficient for $72620 / 4250 = 17.08$ years. Thus, total life of the quarry is $5 + 17.08 = 22.08$ or 22 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, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommend for grant of Environment Clearance with the following conditions.

1. LOI ought to be renewed as the validity has expired.

5. Proposal No.SIA/ML/MIN/49670/2020 submitted by Shri Sunshine Laloo.

The Project Proponent Shri Sunshine Laloo submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/49670/2020 for Sunshine Laloo's Limestone Mine for an area of 4.00 hectare. The proposal is for mining of lime stone use for making lime in lime kilns. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006.

The mining lease area is located Khonjoy, South West Khasi Hills District, Meghalaya and toposheet Survey of India No.780/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 52.54"N	91° 3' 45.63"E
2	25°12'48.13."N	91°3'50.92 E"
3	25°12'52.76"N	91°3'56.00 E"
4	25°12'57.12"N	91°3'50.69 E"

The proposed land is on lease for a period of 20 years; vide Deed of Lease executed on 9th May 2017 and certified by District Registrar, South West Garo Hills District, Mawkyrwat.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Social Forestry & Territorial Division, West and South West Khasi Hills vide letter No.T/W&SW/20/NOC (L)/220, dated Nongstoin, the 28th June 2018 and letter of Intent vide letter No.T/W&SW/ML/LS/S.Laloo (4.00Ha)/843 dated Nongstoin, the 9th August 2019.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/229/2018 dated Shillong, the 13th September, 2019 which states that there are another five limestone mines of different owners lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since total area of the other mines is summed up to 24.79 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/229/2018/05, dated Shillong, the 3rd April 2019. The Mining Plan has been prepared to extract Lime stone at an average annual production of 204920 TPA with a project cost of Rs.22.00 lakh 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 30, 44,200 tons. The production in the period of the mining plan will be around 10, 17,870 tons in 5 years. The balance reserves will be (3044200 – 1017870) or 20, 26,330 tons. If the production target is 2, 00,000, the balance reserves will sufficient for (20,26,330/2,00,000) 10.13 years. Thus, total life of the mine is 5+10.13 = 15.13 or say 16 years.

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/P-2/2020/1053 dated 30th April 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 Geo-green Enviro House PVT.LTD.

The public hearing was held on 15th January 2021 conducted by the Meghalaya State Pollution Control Board presided by the Addl. District Magistrate and S.D.O Ranikor Civil Sub-Division, South West Khasi Hills District.

Recommendation:

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, and the presentation given by project consultant; the committee unanimously recommend 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. Provision of toilets under CER must be avoided except for providing bio-toilets. Providing toilet facilities are covered under various schemes of Central/State government of which the most popular is the Swachh Bharat Mission. This will eliminate scope of duplication/overlap.
5. Health camps can be organized once a year. However it is mandatory under Occupational Health & Safety to provide personal protective and safety equipments like helmet, specified shoes/boots for mining activities, dust proof mask, gloves, medical kit etc to the workers engaged in mining site.
6. Budgetary allocation for CER activities is re fixed at minimum Rs 2 lakhs.
7. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Government of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.



8. Mechanisms to maintain ambient air quality distortion within threshold limits in and around mining site is to be adhered to strictly. In the event of any violation during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Air (Prevention & Control of Pollution) Act, 1981.

6. Proposal No.SIA/ML/MIN/50656/2020 submitted by Shri Narsen Mawa.

The Project Proponent Shri Narsen Mawa submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/50656/2020 for Temjalong Limestone Mine for an area of 3.50 hectare. The proposal is for mining of lime stone use for making lime in lime kilns. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located Temjalong, Wahlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78O/16 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 11' 0.03"N	91° 42' 32.48"E
2	25° 10' 58.40"N	91° 42' 39.76"E
3	25° 10' 55.08"N	91° 42' 40.07"E
4	25° 10' 53.30"N	91° 42' 35.99"E
5	25° 10' 56.17"N	91° 42' 30.97"E

The proposed mining land belongs to the project proponent vide date of declaration made on 29th June 2020 and certified by Sub Registrar, Sohra.

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 , dated Shillong, the ___/___ 2019 and letter of Intent vide letter No.KH/8/ML/Limestone/68/2775 dated Shillong, the 22nd July 2019, subsequently renewed vide letter No. KH/8/ML/Limestone/68/6157 dated Shillong, the 28th January 2020. The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/55/2019/1121 dated Shillong, the 24th September 2019 which states that there are another five limestone mines of different owners lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since total area of the other mines is summed up to 18.2091 hectares. The project proponent submitted the

Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Government of Meghalaya, Shillong vide letter No.DMR/MM/55/2019/843, dated Shillong, the 9th August 2019. The Mining Plan has been prepared to extract Lime stone at an average annual production of 198450 TPA with a project cost of Rs.17.50 lakh 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 27,98,600 tons. The production in the period of the mining plan will be around 8,27,620 tons in 5 years. The balance reserves will be (2798600 – 827620) or 19,70,980 tons. If the production target is 1,98,450, the balance reserves will sufficient for (19,70,980/1,98,450) 9.93 years. Thus, total life of the mine is 5+9.93 or 14.93 or say 15 years.

The project already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-12/2020/1389 dated 29th June 2020 and submitted the final EIA/EMP for the proposed Mining of Lime stone. The EIA/EMP in compliance to the Term of Reference was prepared by Geogreen Enviro House Pvt Ltd.

The public hearing was held on 8th December 2020 conducted by the Meghalaya State Pollution Control Board presided by the Addl. District Magistrate, East Khasi Hills District.

Recommendation:

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth, and the presentation given by the project consultant; the committee unanimously recommend 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.
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. Provision of toilets under the CER scheme must be avoided except for providing bio-toilets. Providing toilet facilities are covered under various schemes of Central/State govt of

which the most popular is the Swachh Bharat Mission. This will eliminate scope of duplication/overlap.

4. Health camps can be organized once a year. However it is mandatory under Occupational Health & Safety to provide personal protective and safety equipments like helmet, specified shoes/boots; m for mining activities, dust proof mask, gloves, medical kit etc to the workers engaged in mining site.

5. Budgetary allocation for CER activities is re fixed at minimum Rs 2 lakhs.

6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing, annual maintenance etc the notified norms of Forest and Environment Department, Government of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.

7. Mechanisms to maintain ambient air quality distortion within threshold limits in and around mining site is to be adhered to strictly. In the event of any violation during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Air (Prevention & Control of Pollution) Act, 1981.

7. Proposal No.SIA/ML/MIN/218823/2021 submitted by Shri Leonard Pariong

The Project Proponent, Shri Leonard Pariong submitted online application vide proposal No.SIA/ML/MIN/218823/2021 for Environmental Clearance for Boulderstone Mine for mining of boulder stone for an area of 4.0 hectares. The proposal for mining of boulder stone is to be for various construction works and road projects and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Mawpun-H, Mawshynrut, West Khasi Hills District, Meghalaya and toposheet Survey of India No. 780/2 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°39'7.0"N	91°4'39.7" E
2	25°39'8.1"N	91°4'46.8" E
3	25°39'0.9"N	91°4'43.2" E
4	25°39'2.1"N	91°4'49.4" E

The proposed mining area is on lease for a period of 10 years vide Lease Agreement executed on the 1st May 2019 certified by Notary, East Khasi Hills District, Meghalaya. (Area of the land not mentioned).

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Social Forestry & Territorial Division, West and South West Khasi Hills, vide letter No.T/WSW/21/NOC(S)/348 dated Nongstoin the 2nd July 2020 and letter of Intent vide No. T/W&SW/20-21/SQ/101/457 dated Nongstoin, the 6th August 2020.

The project proponent has obtained a cluster certificate from the Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/101/2020/10 dated Shillong, the 6th July 2021 where it is mentioned that there is no approved mining plan located within 500 metres from the 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 vide letter no. DMR/MM/101/2020/06 dated Shillong, the 22nd April 2021. The Mining Plan has been prepared to extract boulder stone at 50160 TPA with a project cost of Rs.21,30,000 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 2304340 MT. around 2, 01,696 tons of boulder stone is expected to excavate during the period of the Mining Plan. The rest reserves will be $2304340 - 201696 = 2102644$ tons. If the rate of production after five years will be 50160 tons per year, thus the reserves are sufficient for $(5 + 21,02,644 / 50,160) = 46.9$ years or say for 47 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, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommend 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. 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.
4. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
5. LOI ought to be renewed as the validity has expired.

8. Proposal SIA/ML/MIN/209896/2021 submitted by Shri George S. Marak

The Project Proponent, Shri George S. Marak submitted online application vide proposal No.SIA/ML/MIN/209896/2021 for Environmental Clearance for Samanda Warima Boulder stone mine for mining of boulder stone for an area of 1.95 hectares. The proposal for mining of boulder stone is to be for various construction purposes and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area located at Samanda Warima, Tetenggrime, East Garo Hills District, Meghalaya and toposheet Survey of India No. 78K/6 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°34'13.36"N	90°30'18.32" E
2	25°34'12.01"N	90°30'17.74" E
3	25°34'11.34"N	90°30'15.41" E
4	25°34'12.09"N	90°30'13.79" E
5	25°34'14.92"N	90°30'12.81" E
6	25°34'16.44"N	90°30'13.24" E
7	25°34'17.10"N	90°30'15.89" E
8	25°34'16.07"N	90°30'17.20" E

The proposed mining area is on lease for a period of 20 years vide Lease Agreement certified by Notary, East GaroHills, Williamnagar, Meghalaya.

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/1853-1863 dated Williamnagar the 18th February,2021 and letter of Intent vide No.B/50/III/2103-2111 dated Williamnagar, the 16thMarch 2021.



The project proponent has obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills District, Meghalaya vide letter No.DMO-W/MP/15/2019/17 dated Williamnagar, the 8th June 2021 where it is mentioned that that there is another mine of different owner lying within 500 metres from the applied mining lease area and the total of these two mines is summed up to 2.55 Ha. which is less than 5 Ha. 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/67/2021/15 dated Williamnagar, the 25th May 2021. The Mining Plan has been prepared to extract boulder stone at 100320 MT 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 of boulder stone are of the order of 7, 37,690 MT. The production in the period of this mining plan will be around 4, 01,280 MT in 5 years. Balance reserves will be (737690-401280) or 3, 36,410 MT. If the production target is 80256 MT, the balance reserves will be sufficient for $336410/80256 = 4.19$ years. Thus, the total life of the mine is $5 + 4.19 = 9.19$ years or say 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, as site visit could not be undertaken due to COVID 19 lockdown; the committee unanimously recommend 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. 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.
4. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.

9. Proposal No.SIA/ML/MIN/39677/2019 submitted by Shri Karbar Tyngkan

Environmental Clearance for Karbar Tyngkan's Hill sand Mine for an area of 1.96 hectares located at Muriap Raliang, West Jaintia Hills District Meghalaya.

ADS (Additional Detail Sought) asking to provide a comprehensive plan to safe guard siltation in the nearby paddy field and state highway.

Recommendation

After due screening and examination of all the documents submitted by the Project Proponent, the committee unanimously recommended to grant Environmental Clearance to the project proponent along with the following conditions which is part of a comprehensive plan to safeguard siltation in nearby paddy field and state highway, duly furnished by PP under ADS and accepted to be in order to meet the objective.

1. The design of the mine will be as such that run-off is prevented from leaving the site.
2. Drains will 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. Water from the settling tank will be used for maintaining the Green Belt proposed along the Mining Lease boundary.
3. Periodical cleaning of the settling tank is proposed to maintain its efficiency which will also enable lessee to realise value of the mineral as the settled suspended solids will be saleable.
4. Waste generation from the production is not anticipated from the mining. However, a waste dump site shall be created for any waste that may occur during production. Garland drains will be constructed along the toe of the dump after which retaining wall shall be erected to avoid any wash off.
5. Stockpile protection:
 - Stockpiles will be covered when not in use, they can be covered using builder's plastic (weighted down) when not in use to protect them from erosion by wind or rain. If stockpiles must be located in an overland flow path then water can be diverted around the stockpile using a perimeter bank or a row of sandbags on the upslope side.
 - Ensuring stockpiles are not placed on top of sediment barriers (e.g. sediment fences)
 - Ensuring stockpiles are not located in overland flow paths. If unavoidable, run-off will be directed around the stockpile.
6. Any existing vegetation from the site will not be removed until mining is required in that area.

7. Lessee will divert and prevent water from entering the excavations by using cut off ditches around the working area.
 8. Designated vehicle washing areas will be used and contaminated water to be collected in a sump.
 9. After significant excavation takes place at the mining site, the pit will act as an attenuation pond which will prevent storm water from flooding the settling tank.
 10. Sediment Control on Entry/Exit areas
 - A rock-pad to be provided at the entry/exit gate of the mine
 - The entry/exit gate to include a bund to direct upslope run-off to a sediment trap
 11. Sediment barrier
 - Sediment fences act like a small dam to slow the water to allow coarse sediment to settle out.
- These fences can be provided downslope of the mining site. The sediment fence to be effective must be buried at least 200mm into the ground with support posts at intervals.
12. 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.
 13. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.

The meeting ended with a vote of thanks from the Chair



Chairman

State Expert Appraisal Committee
Meghalaya Shillong