



# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

:: MEGHALAYA ::

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## MINUTES OF THE MEETING OF THE SEIAA, MEGHALAYA,

HELD ON 8<sup>th</sup> September, 2021, AT 1:00 PM,

VENUE: OFFICE CHAMBER OF THE CHAIRMAN.

### Members present in the Meeting:

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

### Proceedings:

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

**Agenda 1 : Action taken Report** - The Member Secretary informed about the action of the decisions taken in the last SEIAA's meeting held on 18<sup>th</sup> August, 2021 and circulated the Minutes of the said meeting. The meeting approved the actions taken and confirmed the proceedings.

### **Agenda 2 : Grant of Environmental Clearance (EC)**

#### **2.1 Proposal No.SIA/ML/MIN/220657/2021 submitted by Smt. Langspah Tymmeniang**

The Project Proponent, Smt. Langspah Tymmeniang 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 boulder 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. 78 O/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 25<sup>th</sup> February 2021 certified by Sub Registrar, Sohra, East Khasi Hills, Meghalaya

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & RiBhoi Territorial Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt/V/6280 dated Shillong the 31<sup>st</sup> March 2021 and letter of Intent vide No. KH/8/ML/Limestone/68/6296 dated Shillong, the 31<sup>st</sup> 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 7<sup>th</sup> 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 29<sup>th</sup> June 2021. The Mining Plan has been prepared to extract lime stone at 30100TPA with a project cost of Rs.15.00 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:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in " Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and 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.

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



## 2.2 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 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 23<sup>rd</sup> 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 12<sup>th</sup> November 2019 and letter of Intent vide No.B/16/VII/386 dated Tura, the 3<sup>rd</sup> 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 19<sup>th</sup> 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 17<sup>th</sup> September 2020. The Mining Plan has been prepared to extract boulder stone at 27698 TPA with a project cost of Rs. 22.5 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 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:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> August, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in "Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

- 1) LOI ought to be renewed as the validity has expired.
- 2) 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) 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) 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) 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.

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

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

The Project Proponent M/s KDS Bricks Industry submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/39056/2019 for mining of brick earth for an area of 0.503 hectares.

The proposal is for mining of brick earth use 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 Ghoramara, 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° 33' 56.9"N	90° 01' 34.9"E
2	25° 33' 54.5"N	90° 01' 35.4"E
3	25° 33' 54.2"N	90° 01' 32.2"E
4	25° 33' 56.7"N	90° 01' 32.8"E

The proposed mining area is on lease for a period of 5 years vide Lease Agreement executed on the 22<sup>nd</sup> 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/4070-71, dated Tura, the 30<sup>th</sup> October 2018 and letter of Intent vide letter No. B/16/VII/4935-939 dated Tura, the 19<sup>th</sup> December 2018.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No. DMO-W/MP/15/2019/50 dated Williamnagar, the 3<sup>rd</sup> 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 2.482 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/8/2019/40, dated Williamnagar, the 22<sup>nd</sup> May 2019. The Mining Plan has been prepared to extract brick earth at an average annual production of 4332 TPA with a project cost of Rs.7.5 lakhs 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 12996 tons/3332308 Nos. of bricks. But the permit holder has obtained the quarry permit only for 3 years with the production capacity of 11.1 lakh bricks or 4332 Tonnes of brick earth per year and thus total 12996 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:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> August, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in "Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. Letter of Intent (LOI) should be renewed as the validity has expired.

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

#### 2.4 Proposal No.SIA/ML/MIN/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/178563/2019 for Chandabhoi Brick Earth Quarry Permit for mining of brick earth for an area of 1.50 hectares 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 22<sup>nd</sup> 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 29<sup>th</sup> October 2019 and letter of Intent vide letter No.B/16/VII/4854 dated Tura, the 29<sup>th</sup> 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 22<sup>nd</sup> 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 8<sup>th</sup> 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:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> August, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in " Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. Letter of Intent (LOI) should be renewed as the validity has expired.

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

#### 2.5 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 9<sup>th</sup> 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 28<sup>th</sup> June 2018 and letter of Intent vide letter No.T/W&SW/ML/LS/S.Laloo (4.00Ha)/843 dated Nongstoin, the 9<sup>th</sup> 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 13<sup>th</sup> 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 3<sup>rd</sup> 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 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the Mineable Reserves of limestone is of the order of 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 30<sup>th</sup> 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 15<sup>th</sup> 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:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 24<sup>th</sup> August, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in " Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and 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.

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

## 2.6 Proposal No.SIA/ML/MIN/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.780/16 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 29<sup>th</sup> 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 & RiBhoi (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 22<sup>nd</sup> July 2019, subsequently renewed vide letter No. KH/8/ML/Limestone/68/6157 dated Shillong, the 28<sup>th</sup> 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 24<sup>th</sup> 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 9<sup>th</sup> 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 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the Mining Plan, the Mineable Reserves of limestone is of the order of 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 29<sup>th</sup> 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 8<sup>th</sup> December 2020 conducted by the Meghalaya State Pollution Control Board presided by the Addl. District Magistrate, East Khasi Hills District.

#### **RECOMMENDATION:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in " Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and 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 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.
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; m 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, 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.
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.

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

## 2.7 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 Boulder stone 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 1<sup>st</sup> 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 2<sup>nd</sup> July 2020 and letter of Intent vide No. T/W&SW/20-21/SQ/101/457 dated Nongstoin, the 6<sup>th</sup> August 2020.

The project proponent has obtained a cluster certificate from the Directorate of Mineral Resources, Meghalaya, vide letter No.DMR/MM/101/2020/10dated Shillong, the 6<sup>th</sup> 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 22<sup>nd</sup> April 2021. The Mining Plan has been prepared to extract boulder stone at 50160 TPA with a project cost of Rs.21.30 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 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:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in " Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and 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.

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

### 2.8 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 Garo Hills, 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 16<sup>th</sup> March 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 8<sup>th</sup> June 2021 where it is mentioned 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:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in " Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and 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.

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

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

The Project Proponent Shri. Karbar Tyngkan, submitted online application vide Proposal No.SIA/ML/MIN/39677 /2019 for Environmental Clearance for Hill Sand Mining for an area of 1.96 hectares.

The proposal is for mining of Hill Sand use for construction purposes, hence the project fall under Schedule I(a) of category 82 of EIA Notification 2006. The area located near Muriap, Raliang, West Jaintia Hills District, Meghalaya and toposheet Survey of India No.83C/10 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25°31'07.7"N	92°35'59.6" E
2	25°31'04.8"N	92°36'02.2" E
3	25°31'03.3"N	92°36'00.7" E
4	25°31'02.1"N	92°35'59.7" E
5	25°31'00.1"N	92°35'57.6" E
6	25°30'58.0"N	90°35'55.5" E
7	25°30'57.6"N	90°35'53.7" E
8	25°30'58.0"N	90°35'53.2" E
9	25°31'01.7"N	90°35'57.2" E
10	25°31'03.9"N	90°35'58.3" E
11	25°31'06.5"N	90°35'58.2" E

The proposed land belongs to the project proponent vide Land Holding Certificate No. 12 of 2018 issued by the Revenue Officer, Jaintia Autonomous District Council, Jowai vide letter No.MEMO.NO. JHADC/REV /LHC.13/157 /2017 dated Jowai, the 17th January 2018.

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/972 dated Jowai, the 24th August 2018 and letter of Intent vide letter No.JH/MMMCR-2016/2016-17 /869/8/1916 dated Jowai, the 9th July, 2019.

The project proponent has obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai, vide letter No.DMO-J/02/MM/Mining Plan/2018-19 /5 dated Jowai, the 16th April 2019, where it is mentioned that there is no approved mining plan located within 500 meters from the mining lease area. Hence, Environment Management Plan is not required.

The project proponent submitted approved Mining Plan and Progressive Mine Closure Plan from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMOJ/MM/Mining Plan/4, dated Jowai, the 30th March 2019. The Mining plan has been prepared to extract hill sand at an annual rate of 124680 tonnes with a project cost of Rs.

19.00 lakhs and the operations will be open cast mining with semi-mechanized method of mining.

As per the mining plan, the mineable reserves of sand is of the order of 10,30,700 tonnes. The production in the period of this mining plan will be around 6,23,400 tonnes in 5 years. Balance reserves would be  $(10,30,700 - 6,23,400)$  or 4,07,300 tonnes. If the production target is 1,51,200 tonnes, the balance reserves will sufficient for  $4,07,300/1,51,300$  or 2.69 years. Thus the total life of the mine is  $5 + 2.69 = 7.69$  or say 8 years.

### RECOMMENDATION:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September, 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Environmental Clearance to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grants Environmental Clearance to this project, with the terms and conditions as stipulated in " Standard EC Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

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 down slope 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.

### Agenda 3 : Grant of Term of Reference (TOR)

#### 3.1 Proposal No. SIA/ML/MIN/63275/2021 submitted by Shri. Teson Dkhar

The Project Proponent, Shri. Teson Dkhar submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/63275/2021 for Term of Reference for Shri. Teson Dkhar's Limestone Mine for mining of Lime stone for an area of 1.07 hectares.

The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Lumshnong, Elaka Narpuh, 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° 09' 58.6"N	92° 22' 53.0"E
2	25° 09' 59.4"N	92° 22' 53.1"E
3	25° 10' 00.1"N	92° 22' 53.6"E
4	25° 10' 00.3"N	92° 22' 54.2" E
5	25° 10' 00.1"N	92° 22' 55.2"E
6	25° 09' 59.7"N	92° 22' 55.8"E
7	25° 09' 59.4"N	92° 22' 56.3"E
8	25° 09' 58.9"N	92° 22' 56.6"E
9	25° 09' 58.4"N	92° 22' 56.8"E
10	25° 09' 57.3"N	92° 22' 56.6"E
11	25° 09' 56.8"N	92° 22' 56.2"E
12	25° 09' 56.4"N	92° 22' 55.6"E
13	25° 09' 56.0"N	92° 22' 54.7"E
14	25° 09' 55.5"N	92° 22' 54.6"E
15	25° 09' 55.9"N	92° 22' 54.0"E
16	25° 09' 56.1"N	92° 22' 53.2"E
17	25° 09' 58.2"N	92° 22' 53.5"E

The proposed mining area belongs to the project proponent as per Land holding certificate vide No.JHADC/REV/LHC/510/89 dated Jowai, the 7<sup>th</sup> February 2012.

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/626, dated Jowai, the 13<sup>th</sup> June, 2018 and letter of Intent vide letter No.JH/MMMCR-2016/2016-17/869/B/2213 dated Jowai, the 16<sup>th</sup> January 2019 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/33/MM/Mining Plan/2019-2020/119 dated Jowai, the 2<sup>nd</sup> September 2020 which states that there are three (3)

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 four mines is summed up to 10.816 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/33/MM/Mining Plan/2019-20/117 dated Jowai, the 24<sup>th</sup> August 2020. The Mining Plan has been prepared to extract lime stone at the rate of 65,070 MTPA with a project cost of Rs.19.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 6, 02,200 tonnes. The production in the period of the mining plan will be around 252720 tonnes in 5 years. Therefore, the balance reserves will be (602200 - 252720) or 349480 tonnes. If the production target is 65070 tonnes, the balance reserve will be sufficient for (349480 / 65070) or 5.37 years. Thus, the total life of the mine is 5+5.37=10.37 or say 11 years.

The Project proponent has applied for No Objection Certificate from Divisional Officer, Wildlife Division as sought by SEIAA as the mining is located at a distance of 2.4 kilometres from Narpuh wildlife sanctuary.

### RECOMMENDATION:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in " Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

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

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

### 3.2 Proposal No.SIA/ML/MIN/64182/2021 submitted by Shri. Lamshwa Kyndoh

The Project Proponent, Shri. Lamshwa Kyndoh submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/64182/2021 for Term of Reference for Chetah Lashi Limestone Mine for mining of Lime stone for an area of 2.97 hectares.

The proposal is for mining of lime stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Chetah Lashi 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
LK1	25° 09' 47.9"N	92° 22' 39.7"E
LK2	25° 09' 47.3"N	92° 22' 39.4"E
LK3	25° 09' 46.0"N	92° 22' 39.1"E
LK4	25° 09' 44.8"N	92° 22' 39.3"E
LK5	25° 09' 43.7"N	92° 22' 39.5"E
LK6	25° 09' 42.7"N	92° 22' 38.6"E
LK7	25° 09' 42.3"N	92° 22' 38.0"E
LK8	25° 09' 41.7"N	92° 22' 36.7"E
LK9	25° 09' 41.6"N	92° 22' 34.7"E
LK10	25° 09' 40.8"N	92° 22' 35.8"E
LK11	25° 09' 39.2"N	92° 22' 35.4"E
LK12	25° 09' 39.4"N	92° 22' 36.5"E
LK13	25° 09' 39.6"N	92° 22' 37.9"E
LK14	25° 09' 39.8"N	92° 22' 38.4"E
LK15	25° 09' 39.9"N	92° 22' 38.8"E
LK16	25° 09' 40.0"N	92° 22' 39.3"E
LK17	25° 09' 41.4"N	92° 22' 41.2"E
LK18	25° 09' 42.9"N	92° 22' 41.8"E
LK19	25° 09' 42.5"N	92° 22' 42.1"E
LK20	25° 09' 42.8"N	92° 22' 43.2"E
LK21	25° 09' 43.4"N	92° 22' 43.7"E
LK22	25° 09' 44.8"N	92° 22' 42.8"E
LK23	25° 09' 46.1"N	92° 22' 42.8"E
LK24	25° 09' 48.6"N	92° 22' 42.7"E
LK25	25° 09' 48.7"N	92° 22' 42.8"E
LK26	25° 09' 48.5"N	92° 22' 42.1"E
LK27	25° 09' 48.4"N	92° 22' 41.4"E
LK28	25° 09' 48.1"N	92° 22' 40.4"E

The proposed mining area is on lease vide Lease Agreement made on the 7th September, 2018 certified by Additional Deputy Commissioner, East Jaintia Hills District, Khliehriat.

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/L.K/M.L/2019-20/LS/B/835, dated Jowai, the 10<sup>th</sup> September, 2020 and letter of Intent vide letter No.JH/L.K/ML/2019-20/LS/B/837 dated Jowai, the 16<sup>th</sup> September 2020 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/41/MM/Mining Plan/2020-2021/136 dated Jowai, the 8<sup>th</sup> March 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 four mines is summed up to 16.136 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/41/MM/Mining Plan/2020-21/130 dated Jowai, the 19<sup>th</sup> January 2021. The Mining Plan has been prepared to extract lime stone at the rate of 125000 TPA with a project cost of Rs.20.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 14, 84,000 tonnes. The production in the period of the mining plan will be around 625000 tonnes in 5 years. Therefore, the balance reserves will be (1484000 - 625000) or 859000 tonnes. If the production target is 125000 tonnes, the balance reserve will be sufficient for (859000 / 125000) or 6.872 years. Thus, the total life of the mine is 5+6.872=11.872 or say 12 years.

The Project proponent has applied for No Objection Certificate from Divisional Officer, Wildlife Division as sought by SEIAA as the mining site is located at a distance of 1.99 kilometres from Narpuh Wildlife Sanctuary.

#### RECOMMENDATION:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in "Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. LOI ought to be renewed as the validity has been expired.
2. Since the distance between the proposed mine and adjoining mine(s) in the said cluster is hardly 1 metre and nature of Over Burden(OB) is not known, as a precautionary measure, height of the 1<sup>st</sup> Bench is to be kept low, preferably within 1-3 metre maximum while maintaining width of the bench at 06 -7.5 metre.
3. 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.

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

#### 3.3 Proposal No.SIA/ML/MIN/64420/2021 submitted by Smt. Rejoice Chyne

The Project Proponent, Smt. Rejoice Chyne submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/64420/2021for Term of Reference for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 1.17 hectares.

The proposal is for mining of lime stone to be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ri Jyrkha, MawlongElaka, Mawlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.780/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 05.7"N	91° 41' 12.8"E
2	25° 11' 59.72"N	91° 41' 11.13"E
3	25° 11' 59.25"N	91° 41' 13.26"E
4	25° 12' 04.92"N	91° 41' 14.80"E



The proposed mining area belongs to the project proponent as per sale deed certified by Notary Public, East Khasi Hills on the 26th of June 2020.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & RiBhoi Territorial Division, Shillong, vide letter No.KH/8/NOC/Limestone/41/Pt.IV/4516, dated Shillong, the 21<sup>st</sup> December 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4537, dated Shillong, the 21<sup>st</sup> December, 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/107/2021/08 dated Shillong, the 3<sup>rd</sup> June 2021 which states that there are three (3) 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 four mines is summed up to 6.725 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/107/2021/04 dated Shillong, the 19<sup>th</sup> March 2021. The Mining Plan has been prepared to extract lime stone at the rate of 30500 TPA with a project cost of Rs.23, 50,000 and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 3, 90,200 tonnes. The production in the period of the mining plan will be around 152500 tonnes in 5 years. Therefore, the balance reserves will be (390200 - 152500) or 237700 tonnes. If the production target is 30500 tonnes, the balance reserve will be sufficient for (237700 / 30500) or 7.79 years. Thus, the total life of the mine is 5+7.79=12.79 or say 13 years.

#### **RECOMMENDATION:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in " Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following 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.

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

#### **3.4 Proposal No.SIA/ML/MIN/65773/2021 submitted by Shri. Arbis Tangdhara**

The Project Proponent, Shri. Arbis Tangdhara submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/65773/2021 for Term of Reference for Ri Laingut Limestone Mine for mining of Lime stone for an area of 0.66 hectares. The proposal is for mining of lime stone to be used for manufacturing of lime and as building materials for building, road and other construction works.



The project falls under Schedule 1(a) of category B1 of EIA Notification 2006. The mining lease area is located at Ri Laingut, Lynti Dkhar, Sohbar village, Sohbar Sirdarship, District- East Khasi Hills, State- Meghalaya and toposheet Survey of India No.780/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 11' 13.99"N	91° 44' 51.69"E
2	25° 11' 13.96"N	91° 44' 51.86 "E
3	25° 11' 9.63"N	91° 44' 48.10"E
4	25° 11' 11.38"N	91° 44' 46.25"E

The proposed mining area is on lease for 30 years vide lease agreement made on 18<sup>th</sup> February 2019 certified by Sub-Registrar, Sohra, East Khasi Hills.

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/6267, dated Shillong, the 30<sup>th</sup> March 2021 and letter of Intent vide letter No.KH/8/ML/Limestone/68/6272, dated Shillong, the 30<sup>th</sup> March 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/120/2021/07 dated Shillong, the 15<sup>th</sup> July 2021 which states that there are eleven (11) 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 twelve mines is summed up to 25.7715 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/120/2021/04 dated Shillong, the 2<sup>nd</sup> July 2021. The Mining Plan has been prepared to extract lime stone at the rate of 14450 TPA with a project cost of Rs. 21 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 1,59,500 tonnes. The production in the period of the mining plan will be around 72,250 tonnes in 5 years. Therefore, the balance reserves will be (159500 - 72250) or 87250 tonnes. If the production target is 14450 tonnes, the balance reserve will be sufficient for (87250/14450) or 6.03 years. Thus, the total life of the mine is 5+6.03=11.03 or say 11 years.

#### RECOMMENDATION:

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in " Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following conditions:

1. Since the distance between the proposed mine and adjoining mine(s) in the said cluster is hardly 1 metre and nature of Over Burden(OB) is not known, as a precautionary measure, height of the 1<sup>st</sup> Bench is to be kept low, preferably within 1-3 metre maximum while maintaining width of the bench at 06 -7.5 metre.
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.

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

### 3.5 Proposal No.SIA/ML/MIN/65059/2021 submitted by Shri. Sangip M. Marak

The Project Proponent, Shri. Sangip M Marak submitted online application for Term of Reference vide proposal No.SIA/ML/MIN/65059/2021 for Term of Reference for Ri Jyrkha Limestone Mine for mining of Lime stone for an area of 1.84 hectares. The proposal is for mining of lime stone to be used for construction purposes.

The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Ri Jyrkha, Mawlong Elaka, Mawlong Sirdarship, East Khasi Hills District, Meghalaya and top sheet Survey of India No.780/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 12' 06.6"N	91° 41' 07.1"E
2	25° 12' 06.9"N	91° 41' 08.7"E
3	25° 11' 54.0"N	91° 41' 07.0"E
4	25° 11' 53.9"N	91° 41' 05.2"E

The proposed mining area is on lease for 30 years vide affidavit made on 17<sup>th</sup> October 2020 at Shillong certified by Notary Public, East Khasi Hills.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & RiBhoi Territorial Division, Shillong vide letter No.KH/8/NOC/Limestone/41/Pt.IV/4343, dated Shillong, the 15<sup>th</sup> December, 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/4384 dated Shillong, the 15<sup>th</sup> December 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/108/2021/08 dated Shillong, the 9<sup>th</sup> June 2021 which states that there are three (3) 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 four mines is summed up to 6.725 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/108/2021/04 dated Shillong, the 8<sup>th</sup> April 2021. The Mining Plan has been prepared to extract lime stone at the rate of 62467 TPA with a project cost of Rs. 27.50 lakhs and the operations will be open cast, semi-mechanized method of mining.

As per the mining plan, the mineable reserve would be 624729 tonnes with an average annual production of 62473(624729/10) tonnes. The average annual production of limestone may be different from annual production of five year plan period. Thus 312076 tonnes of the total mineable reserve will be worked out in first five years and the rest quantity of mineable reserves i.e. (62479 - 312076) = 312653 tonnes would be exhausted in further 5 years @ 62531 tonnes per annum. Therefore, life of the mine will be 10(five years in plan period +5 years in conceptual period).

**RECOMMENDATION:**

The State Environment Impact Assessment Authority, Meghalaya, in the meeting held on 8<sup>th</sup> September 2021 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC and unanimously resolved to grant Terms of Reference to this project.

Accordingly, on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, the SEIAA in the meeting unanimously grant Terms of Reference to this project, with the terms and conditions as stipulated in " Standard TOR Conditions for Non-Coal mining sector" issued vide Ministry' OM No.22-24/2018-IA-III dtd. 08.01.2019 and with the following 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. Since the distance between the proposed mine and adjoining mine(s) in the said cluster is hardly 1 meter and nature of Over Burden (OB) is not known, as a precautionary measure, height of the 1<sup>st</sup> bench is to be kept low, preferably within 1-3 meter maximum while maintaining width of the bench at 6-7.5 meters.

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

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

  
Chairman  
SEIAA  
Meghalaya, Shillong.

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

**Dated Shillong the     Sept' 2021**

Copy to :

- 1) Member, SEIAA, Meghalaya, Shillong for information.
- 2) File concern for record.

  
Member Secretary  
SEIAA  
Meghalaya, Shillong