

**STATE EXPERT APPRAISAL COMMITTEE (SEAC)**  
**::MEGHALAYA::**

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

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**MINUTES OF 71<sup>st</sup> MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA  
SHILLONG HELD ON 29<sup>th</sup> SEPTEMBER 2023, FOR ENVIRONMENTAL APPRAISAL OF NON-  
COAL MINING PROJECTS**

**Members of the Committee present:**

Sl.No	Name	Designation	Signature
1	Shri. Nababrata Bhattacharjee	Chairman SEAC	-Sd-
2	Shri. Millanburg R. Sangma	Member	
3	Dr. Highland Kayang	Member	-Sd-
4	Shri. Gideon Lamborlang Kharkongor	Member	-Sd-
5	Shri. Pynbiang Singh Nongbri	Member	-Sd-
6	Dr. Shiva Shankar Chaturvedi	Member	-Sd-
7	Dr. (Mrs) Van Jennifer Joan Wallang	Member	-Sd-
8	Shri Arpiyush Ch.Sangma, MFS Member Secretary	Member Secretary SEAC	-Sd-

The 70<sup>th</sup> meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 31<sup>st</sup> October 2023 from 11:00 A.M. on ward in the Conference Hall, office of the Principal Chief Conservator of Forests & HoFF, Meghalaya, Lower Lachumiere, Shillong – 793001, through offline method. At the outset the Chairman Shri. Nababrata Bhattacharjee, welcomed all the members of the Committee present and called the meeting to order. He requested the Member Secretary to initiate the discussion as per the agenda circulated vide letter No.ML/SEAC/Meeting/Vol-V/1/2023/18 dated Shillong, the 25<sup>th</sup> September, 2023, accordingly. All proposed mining areas are cross checked through google earth.

**1. Confirmation of the minutes of the 70<sup>th</sup> Meeting held on 29<sup>th</sup> September 2023.**

The minutes were confirmed.

**2. Action taken report as per the decision taken in the 70<sup>th</sup> Meeting.**

As per the decision taken in the 70<sup>th</sup> Meeting of the State Expert Appraisal Committee held on 29<sup>th</sup> September 2023, (3) three proposals for Environmental Clearance, (3) three ADS and (1) one proposal for Terms of Reference (TOR) were recommended to the State Environment Impact Assessment Authority, Meghalaya.



## ENVIRONMENTAL CLEARANCE

### I. Proposal No.SIA/ML/MIN/437607/2023 submitted by Shri. Paristar M.Sangma

The Project Proponent, Shri.Paristar M.Sangma submitted online application vide proposal No. SIA/ML/MIN/437607/2023 for Environmental Clearance for Dudanggre Stone Mine for mining of boulder stone for an area of 0.54 hectare. The proposal is for mining of boulder stone to be used for construction of buildings & making/dressing of roads. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Dudanggre, P.O Chibinang, P.S. Phulbari, West Garo Hills District, Meghalaya and toposheet No. G46M1 within the following GPS Coordinates

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 50' 43.55"N	90° 08' 34.93"E
2	25° 50' 43.87"N	90° 08' 33.08"E
3	25° 50' 45.39"N	90° 08' 32.98"E
4	25° 50' 47.66"N	90° 08' 34.32"E
5	25° 50' 46.54"N	90° 08' 35.67"E
6	25° 50' 45.26"N	90° 08' 34.31"E

The proposed land belongs to the project proponent vide Affidavit and Deed of Agreement which was executed on the 31<sup>st</sup> August 2022 and certified by the Public Notary, West Garo Hills, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South-West Garo Hills (T) Division, Tura vide letter No.B/16/VII/NOC/MMMCR/3585-87 dated Tura, the 20<sup>th</sup> October, 2022 and Letter of Intent vide letter No.B/16/VII/474, dated Tura, the 14<sup>th</sup> February, 2023 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2023/15 dated Williamnagar, the 25<sup>th</sup> April 2023 which states that there is no approved mining plan lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.



The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, East Garo Hills District, Williamnagar vide letter No.DMO-W/MP/93/2023/280 dated Williamnagar, the 23<sup>rd</sup> March 2023. The Mining Plan has been prepared to extract boulder stone at the rate of 8999.7 TPA with a project cost of Rs.84.7 lakhs and the operations will be open cast, mechanized method of mining. As per the approved mining plan, the estimated life of the mine is 6 years.

### **Recommendation**

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

1. LOI ought to be renewed as the validity has expired.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and increase the number of saplings to be planted. The Nurseries for the approved



species as given in the EIA report should be created before commencement of the mining plan and the types of species should be according to the Forest Department Plantation Norms (Amended in 31.03.2023) & plantation should be done in the 1<sup>st</sup> and 2<sup>nd</sup> year of the planed period.

8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.





## **II. Proposal No.SIA/ML/MIN/439047/2023 submitted by Shri. Tumen Marak**

The Project Proponent, Shri.Tumen Marak submitted online application vide proposal No. SIA/ML/MIN/439047/2023 for Environmental Clearance for Allokdia Stone Mine for mining of boulder stone for an area of 1.10 hectares. The proposal is for mining of boulder stone to be used for construction of buildings & making/dressing of roads. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Allokdia, P.O Hollaidanga, P.S Tikrikilla, West Garo Hills District, Meghalaya and toposheet No.G46M1 within the following GPS Coordinates

<b>Pillar No</b>	<b>GPS Coordinates</b>	
	<b>Latitude</b>	<b>Longitude</b>
1	25° 55' 12.78"N	90° 07' 27.94"E
2	25° 55' 12.41"N	90° 07' 31.41"E
3	25° 55' 16.36"N	90° 07' 32.07"E
4	25° 55' 16.38"N	90° 07' 29.19"E

The proposed land is on lease for a period of 15 years vide Deed of Lease which was executed on the 19<sup>th</sup> April 2022 and certified by the Sub-Registrar, West Garo Hills, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South-West Garo Hills (T) Division, Tura vide letter No.B/16/VII/NOC/MMMCR/3442-44 dated Tura, the 6<sup>th</sup> October, 2022 and Letter of Intent vide letter No.B/16/VII/363, dated Tura, the 3<sup>rd</sup> February, 2023 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2023/35 dated Williamnagar, the 8<sup>th</sup> June 2023 which states that there is no approved mining plan lying within 500 metres from the applied mining lease area. Hence, the Environment Management Plan is not required.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, East Garo Hills District, Williamnagar vide letter No.DMO-W/MP/91/2023/13 dated Williamnagar, the 25<sup>th</sup> April 2023. The Mining Plan has been prepared to extract boulder stone at the rate of 51724.4 TPA with a project cost of Rs.84.7 lakhs and the operations will be open cast, mechanized method of mining.

As per the approved mining plan, the estimated life of the mine is 6 years.



## **Recommendation**

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

1. LOI ought to be renewed as the validity has expired.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and increase the number of saplings to be planted. The Nurseries for the approved species as given in the EIA report should be created before commencement of the mining plan and the types of species should be according to the Forest Department Plantation Norms (Amended in 31.03.2023) & plantation should be done in the 1<sup>st</sup> and 2<sup>nd</sup> year of the planed period.
8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.





9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.



### III. Proposal No.SIA/ML/MIN/443712/2023 submitted by Shri. Jengna Marak

The Project Proponent, **Shri. Jengna Marak** submitted online application vide proposal No. SIA/ML/MIN/443712/2023 for re-appraisal and grant of fresh Environmental Clearance for Manggapara Stone Mine for mining of boulder stone for an area of 1.28 hectares .The proposal is for mining of boulder stone use for construction purposes, hence the project fall under Schedule 1(a) of category B1 of EIA Notification 2006. The area is located at located at Manggapara, P.O Zikabari, P.S Tura, West Garo Hills District, Meghalaya and toposheet No.G46M2 with the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 37' 29.40"N	90° 00' 39.02"E
2	25° 37' 29.16"N	90° 00' 43.80"E
3	25° 37' 31.92"N	90° 00' 43.84"E
4	25° 37' 31.89"N	90° 00' 39.04"E

The proposed land is on lease for a period of 15 years vide Deed of Lease which was executed on the 22<sup>nd</sup> May 2017 and certified by the District Registrar, Tura, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West & South-West Garo Hills (T) Division, Tura vide letter No.B/16/VII/NOC/MMMCR/1465-471 dated Tura, the 20<sup>th</sup> June, 2017 and Letter of Intent vide letter No.B/16/VII/2294, dated Tura, the 21<sup>st</sup> August, 2017 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2023/22 dated Williamnagar, the 19<sup>th</sup> May 2023 which states that there are three approved mining plan lying within 500 metres from the applied mining lease area Hence the applied mining area falls under cluster category since the total area of total four mines is summed up to 5.3 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, East Garo Hills District, Williamnagar vide letter No.DMO-W/MP/84/2022/57 dated Williamnagar, the 2<sup>nd</sup> August 2023. The Mining Plan has been prepared to extract boulder stone at the rate of 79464 TPA with a project cost of Rs.21.00 lakhs and the operations will be open cast, mechanized method of mining.





As per the approved mining plan, the estimated life of the mine is 9.99 years or say 10 years.

The project was already awarded Environmental Clearance by the District Environment Impact Assessment Authority, Meghalaya vide letter No.WGH/DEIAA/EC/2017/2 dated Tura the 20<sup>th</sup> November 2017 and also obtained a detail statement of royalty from the Divisional Forest Officer, West & South-West Garo Hills (T) Division, Tura vide letter No.B/16/VII/1857 dated Tura, the 22<sup>nd</sup> May, 2023.

### **Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and deliberation as well as observation using kml file through google earth, the committee unanimously Rejected the proposal since as per the submitted Cluster Certificate the applied mining area falls under cluster category with the total area of total four mines summed up to 5.3 hectares. Hence, the project proponent is recommended to apply for Terms of Reference (TOR).



#### IV. Proposal No.SIA/ML/MIN/446151/2023 submitted by Smt. Jelika Khongrymmai

The Project Proponent, **Smt. Jelika Khongrymmai** submitted online application vide proposal No. SIA/ML/MIN/446151/2023 for Environmental Clearance for Temsuwai Limestone Mine for mining of limestone for an area of 1.64 hectares. The proposal is for mining of limestone to supply to lime kilns and for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Temsuwai, Elaka Wahlong Sirdarship, East Khasi Hills District, Meghalaya and toposheet Survey of India No.78O/12 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 11' 1.50"N	91° 42' 11.90"E
2	25° 11' 0.70"N	91° 42' 12.50"E
3	25° 10' 59.80"N	91° 42' 13.80"E
4	25° 10' 57.60"N	91° 42' 14.10"E
5	25° 10' 57.70"N	91° 42' 15.50"E
6	25° 10' 59.20"N	91° 42' 17.70"E
7	25° 11' 0.58"N	91° 42' 18.31"E
8	25° 11' 4.10"N	91° 42' 16.80"E
9	25° 11' 1.70"N	91° 42' 15.70"E

The proposed mining area is on lease for a period of 20 years vide Deed of Agreement executed on 18<sup>th</sup> August 2020 certified by Notary.

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/3348, dated Shillong, the 19<sup>th</sup> October, 2020 and letter of Intent vide letter No.KH/8/ML/Limestone/68/3395 dated Shillong, the 20<sup>th</sup> October 2020 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/95/2020/08 dated Shillong, the 28<sup>th</sup> January 2021 which states that there are four (4) 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 these five mines is summed up to 12.0211 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/95/2020/04 dated Shillong, the 23<sup>rd</sup> December 2020. The Mining Plan has been prepared to extract lime stone at the rate of 81,000 TPA with a project cost of Rs.19.60 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of limestone are of the order of 10,05,000 tonnes. The production in the period of the mining plan will be around 3,37,225 tonnes in 5 years. Therefore, the balance reserves will be (10,05,000 - 3,37,225) or 6,67,775 tonnes. If the production target is 81,000 tonnes, the balance reserve will be sufficient for (6,67,775 /81,000) or 8.24 years. Thus, the total life of the mine is 5+8.24=13.24 years.

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/EKH/P-126/2021/455 dated Shillong the 3<sup>rd</sup> September 2021 and submitted the final EIA/EMP for the proposed Mining of Lime stone where the project proponent complied all the points in compliance to the Term of Reference prepared by GEOGREEN ENVIRO HOUSE PVT. LTD

The public hearing was held on 5<sup>th</sup> January 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smt. D. Phawa, MCS, ADC East Khasi Hills District and Chairperson, EPH (Environmental Public Hearing).

### **Recommendation**

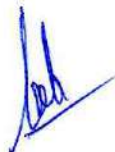
After due screening and examination of all the documents submitted by the Project Proponent and deliberation as well as observation using kml file through google earth, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

14. LOI ought to be renewed as the validity has expired.
15. 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.

16. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
17. 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.
18. 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.
19. 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.
20. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and increase the number of saplings to be planted. The Nurseries for the approved species as given in the EIA report should be created before commencement of the mining plan and the types of species should be according to the Forest Department Plantation Norms (Amended in 31.03.2023) & plantation should be done in the 1<sup>st</sup> and 2<sup>nd</sup> year of the planed period.
21. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
22. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
23. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
24. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
25. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.





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

A handwritten signature in blue ink, consisting of several stylized, overlapping loops and a long horizontal stroke extending to the right.

**V. Proposal No.SIA/ML/MIN/440808/2023 submitted by Shri. Mathew Ch. Momin**

The Project Proponent, **Shri. Mathew Ch. Momin** submitted online application vide proposal No. SIA/ML/MIN/440808/2023 for Environmental Clearance mining of boulder stone for an area of 0.80 hectares. The proposal is for mining of boulder stone use for construction purposes; hence the project fall under Schedule 1(a) of category B1 of EIA Notification 2006. The mining lease area is located at at Bollonggre area, P.O Dhanua, P.S. Garobada, 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° 39'12.96"N	089° 57'38.59"E
2	25° 39'14.67"N	089° 57'40.07"E
3	25° 39'13.74"N	089° 57' 43.92"E
4	25° 39'11.45"N	089° 57'42.00"E

The proposed land is on lease for a period of 10 years which was executed on the 26th October 2017 certified by Sub-Registrar, West Garo Hills, Tura.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West and South West Garo Hills Territorial Division, Tura vide letter No.B/16/VII/NOC/MMMCR/588-90, dated Tura, the 13th February 2019 and letter of Intent vide letter No.B/16/VII/617 dated Tura, the 15th February 2019 and subsequently renewed vide letter No.B/16/VII/1249-52 dated Tura, the 16th March 2020 issued by the Divisional Forest Officer, West and South West Garo Hills Territorial Division, Tura.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, East Garo Hills, Williamnagar, Government of Meghalaya, vide letter No.DMO-W/MP/15/2019/88 dated the 26th August, 2019 which states that there are three approved mining plans lying within 500 metres from the applied mining lease area with a total cluster area is 12.46 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, Director of Mineral Resources, Government of





Meghalaya, vide letter No. DMOW/MP/1/2019/30 dated Williamnagar, the 16th May 2015. The Mining Plan has been prepared to extract boulder stone at the rate of 4530 MTA with a project cost of Rs.7.1 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of boulder stone are of the order of 3,61,300 tonnes. The production in the period of the mining plan will be around 22,650 tonnes in 5 years. Therefore, the balance reserves will be  $(3,61,300 - 22,650)$  or 3,38,650 tonnes. If the production target is 4530 tonnes, the balance reserve will be sufficient for  $(3,38,650 / 4530)$  or 74.75 years. Thus, the total life of the mine is  $5 + 74.75 = 79.75$  or say 80 years.

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/WGH/P-94/2020/4 dated Shillong the 14<sup>th</sup> January 2021 and submitted the final EIA/EMP for the proposed Mining of Lime stone where the project proponent complied all the points in compliance to the Term of Reference prepared by GEOGREEN ENVIRO HOUSE PVT. LTD

The public hearing was held on 21<sup>st</sup> March 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri. Raj Kr. Hajong, Executive Magistrate, West Garo Hills District.

### **Recommendation**

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

1. LOI ought to be renewed as the validity has expired.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.



3. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
4. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
5. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
6. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
7. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and increase the number of saplings to be planted. The Nurseries for the approved species as given in the EIA report should be created before commencement of the mining plan and the types of species should be according to the Forest Department Plantation Norms (Amended in 31.03.2023) & plantation should be done in the 1<sup>st</sup> and 2<sup>nd</sup> year of the planed period.
8. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
9. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
10. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
11. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
12. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
13. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.





14. Because of some oppositions in the Public Hearing, blasting is not recommended to be carried out in the project site. The No Objection Certificate from the opposition which the project proponent has produced during the meeting are to be submitted to the office of the Deputy Commissioner, West Garo Hills District.

A handwritten signature in blue ink, consisting of stylized, cursive letters, positioned below the text of the list item.

## TERM OF REFERENCE

### I. Proposal No.SIA/ML/MIN/447249/2023 submitted by Uranus Stone Products & Co.

The Project Proponent, Uranus Stone Products & Co.submitted online application for re-appraisal and grant of fresh Term of Reference vide proposal No:SIA/ML/MIN/447249/2023 for mining of boulder stone for an area of 4.96 hectares. The proposal is for mining of boulder stone use for construction purposes; hence the project fall under Schedule 1(a) of category B1 of EIA Notification 2006. The mining lease area is located at Umduba Village, Raid Marwet, P.O Killing, P.S Khanapara, Ri Bhoi District, Meghalaya and No. G46H16 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	26° 04' 16.59" N	91°49' 35.66"E
2	26° 04' 16.56" N	91°49' 34.26"E
3	26° 04' 15.30" N	91°49' 29.25"E
4	26° 04' 13.62" N	91°49' 29.92"E
5	26° 04' 12.54" N	91°49' 31.33"E
6	26° 04' 10.49" N	91°49' 32.21"E
7	26° 04' 08.98" N	91°49' 33.38"E
8	26° 04' 08.49" N	91°49' 35.66"E
9	26° 04' 09.32" N	91°49' 37.13"E
10	26° 04' 11.51" N	91°49' 38.45"E
11	26° 04' 13.38" N	91°49' 39.47"E
12	26° 04' 12.92" N	91°49' 37.42"E
13	26° 04' 15.78" N	91°49' 36.85"E

The proposed mining land is on lease for a period of 10 years vide Lease Deed made on the 8<sup>th</sup> September 2016 certified by District Registrar, Ri Bhoi District, Nongpoh, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills (T) Division, Shillong vide letter No.KH/9/NOC/Stone Quarry/41/Pt.II/2104, dated Shillong, the 6<sup>th</sup> July, 2017 with a corrigendum of the Non-Forest Land Certificate in respect of the co-ordinates vide letter



No.KH/9/NOC/STONE/41/Pt.VI/5531, dated Shillong ,the 6<sup>th</sup> December 2019 and letter of Intent vide letter No.KH/8/ML/Stone/69/2405 dated Shillong, the 12<sup>th</sup> July 2017 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/45/2017/85 dated Shillong, the 6<sup>th</sup> July 2023 as well as a Functional Status of Cluster Certificate from the office of the Divisional Forest Officer, East Khasi Hills & Ri Bhoi (T) Division, Shillong vide letter No.KH/8/NOC/USP& Co./154/3314, dated Shillong, the 19<sup>th</sup> September 2023 which states that there is one (1) approved functional mine lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of these two mines is summed up to 6.65 hectares.

The project proponent submitted modification of Mining Plan with Progressive Mine Closure Plan approved by the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR-/MM/45/2017/81 dated Shillong, the 9<sup>th</sup> June 2023. The Mining Plan has been prepared to extract lime stone at the rate of 231347 TPA with a project cost of Rs.48.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of boulder stone are of the order of 1495520 MT. The production in the period of the mining plan will be around 750700 MT in 5 years. Therefore, the balance reserves will be (1495520 - 750700) or 744820 MT. If the production target is 150140MT, the balance reserve will be sufficient for (744820 /150140) or 4.96 years. Thus , the total life of the mine is 5+4.96=9.96 years.

The project was already awarded Environmental Clearance by the District Environment Impact Assessment Authority, Ri Bhoi District, Meghalaya vide letter No.DCRB( LR) 24/2017/Rev/573/1832 dated Nongpoh the 18<sup>th</sup> October 2017 and also obtained a detail statement of royalty from the Divisional Forest Officer, East Khasi Hills & Ri Bhoi (T) Division vide letter No.KH/8/USP& Co./154/3659 dated Shillong, the 9<sup>th</sup> October, 2023.

### **Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and deliberation as well as observation using kml file through google earth, the committee unanimously recommended for grant of Terms of Reference with the following conditions.



1. Site photographs together with photographs and other related details of site visits by resource persons of NABET accredited consultant of project proponent, with their names and profession/designation, together with date(s) of visit, date(s) of data collection including names of instrument/machine actually used in the field, during preparation of EIA report, is to be clearly highlighted in the EIA/EMP report.
2. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
3. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
4. Plagiarism check certificate for EIA/EMP report has to be furnished.
5. Source of data taken from external sources is to be mentioned clearly.





**PROPOSALS THAT WERE GIVEN ADDITIONAL DETAILS SOUGHT (ADS) IN THE PREVIOUS MEETING OF SEAC:**

**I. Proposal No.SIA/ML/MIN/420945/2023 submitted by Shri. Pleasureful Ahnam**

The Project Proponent, **Shri. Pleasureful Ahnam** submitted online application for Environmental Clearance vide proposal No:SIA/ML/MIN/420945/2023 for Mookasnor Boulder Stone Mine for mining of boulder stone for an area of 1.45 hectares. The proposal is for mining of boulder stone to be used for construction of buildings & making/dressing of roads. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Mookasnor, Wahiajer Village, West Jaintia Hills District, Meghalaya. and toposheet Survey of India No.83C/2 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 31'30.91"N	92° 10'38.86"E
2	25° 31'31.73"N	92° 10'37.32"E
3	25° 31'32.13"N	92° 10'35.62"E
4	25° 31'30.83"N	92° 10'35.38"E
5	25° 31'28.71"N	92° 10'35.47"E
6	25° 31'26.73"N	92° 10'35.01"E
7	25° 31'24.40"N	92° 10'36.27"E
8	25° 31'25.74"N	92° 10'37.29"E
9	25° 31'27.17"N	92° 10'37.48"E
10	25° 31'29.23"N	92° 10'38.03"E

The proposed land is on lease for a period of 20 years vide Deed of Lease which was executed on the 1<sup>st</sup> August 2022 and certified by the Public Notary, Government of Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/IR/EC/2022-23/985/B/1134, dated



Jowai, the 30<sup>th</sup> September, 2022 and Letter of Intent vide letter No.JH/P.A/M.L/L.S/2022-23/B/842 dated Jowai, the 12<sup>th</sup> July 2023 respectively.

The project proponent obtained a cluster certificate from the Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No.DMO-J/79/MM/Mining Plan/2022-23/25 dated Jowai, the 24<sup>th</sup> January 2023 which states that there is one (1) approved mining plans lying within 500 metres from the applied mining lease area. Hence the applied mining area does not fall under cluster category since the total area of four mines is summed up to 2.35 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/79/MM/Mining Plan/2022-23/24 dated Jowai, the 23<sup>rd</sup> January 2023. The Mining Plan has been prepared to extract boulder stone at the rate of 20,060 TPA with a project cost of Rs.16.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves of boulder stone are of the order of 357630 MT. The production in the period of the mining plan will be around 100260MT in 5 years. Therefore, the balance reserves will be (357630 - 100260) or 257370MT. If the production target is 20060MT, the balance reserve will be sufficient for (257370/20060) or 12.83 years. Thus, the total life of the mine is 5+12.83=17.83 or say 18 years.

In response to the ADS raised by the committee in the 70<sup>th</sup> meeting of the State Expert Appraisal Committee, the project proponent has furnished a written no objection certificated from concerned owners of the neighbouring cultivated land.

### **Recommendation**

In response to the ADS raised by the committee in the 70<sup>th</sup> meeting of the State Expert Appraisal Committee, the project proponent has furnished a written no objection certificated from concerned owners of the neighbouring cultivated land. As such, the committee unanimously recommended for grant of Environment Clearance with the following conditions.

1. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water





channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.

2. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and increase the number of saplings to be planted. The Nurseries for the approved species as given in the EIA report should be created before commencement of the mining plan and the types of species should be according to the Forest Department Plantation Norms (Amended in 31.03.2023) & plantation should be done in the 1<sup>st</sup> and 2<sup>nd</sup> year of the planed period.
7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
9. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.



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

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## **II. Proposal No.SIA/ML/MIN/436477/2023 submitted by Smt. Dolly Khonglah**

The Project Proponent, Smt. Dolly Khonglah submitted online application vide proposal No. SIA/ML/MIN/436477/2023 for re-appraisal and grant of fresh Environmental Clearance for Amsyndui Low Grade Limestone Deposit for mining of limestone for an area of 0.35 hectares. The proposal is for mining of limestone and will be used in kilns for manufacturing of lime used as building materials. The project falls under Schedule I(a) of category B2 of EIA Notification 2006. The mining lease area is located at Amsyndui, Nongtalang Elaka, West Jaintia Hills District, Meghalaya and toposheet Survey of India No.83C/4 within the following GPS Coordinates:

<b>Pillar No</b>	<b>GPS Coordinates</b>	
	<b>Latitude</b>	<b>Longitude</b>
1	25° 13' 22.40"N	92° 05' 29.10"E
2	25° 13' 22.14"N	92° 05' 30.72"E
3	25° 13' 21.92"N	92° 05' 31.28"E
4	25° 13' 21.90"N	92° 05' 31.90"E
5	25° 13' 21.28"N	92° 05' 31.75"E
6	25° 13' 20.80"N	92° 05' 31.50"E
7	25° 13' 20.50"N	92° 05' 30.20"E
8	25° 13' 21.20"N	92° 05' 27.60"E



The proposed land is on lease for a period of 6 years vide Deed of Lease which was executed on the 16<sup>th</sup> August 2015 and certified by the District Registrar, Amlarem, Meghalaya. The project proponent also submitted an affidavit declaring that Smt. Dolly Khonglah is the bonafide person to take over the lease (second party/lessee).

The project proponent submitted corrigendum from the Deputy Commissioner, West Jaintia Hills District, vide letter No.GEN-185/Mining Plan/KK/2017/358 dated Jowai, the 2<sup>nd</sup> August, 2018 and Letter of Intent from the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/DK/ML/LS/2022-23/Pt-II/935/B/559, dated Jowai, the 5<sup>th</sup> July, 2022.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Director of Mineral Resources, Meghalaya vide letter No.DMR/MM/ML/33/2017/1337 dated Shillong, the 25<sup>th</sup> September 2017. The Mining Plan has been prepared to extract limestone at the rate of 14150 TPA with a project cost of Rs.16 lakhs and the operations will be semi-mechanized, opencast method of mining.

As per the approved mining plan, the mineable reserve was 88102 Tonnes. Production up to 31<sup>st</sup> March 2022 =  $300+5732+21468+12000+19932=59432$  Tonnes. Thus 59432 Tonnes of the total mineable reserve was worked out already and the rest quantity of mineable reserve i.e.  $(88102-59432) = 28670$  Tonnes. 28300 Tonnes would be exhausted in further 2 years with average annual production of 14150 Tonnes. 370 Tonnes would be mining loss. Therefore, the life of the mine will be 2 years (2 years in plan period).

The project was already awarded Environmental Clearance by the Deputy Commissioner, West Jaintia Hills District, Jowai cum Chairman, District Environment Impact Assessment Authority, Meghalaya vide letter No.GEN-185/Mining Plan/KK/2017/275 dated Jowai the 19<sup>th</sup> December 2017 and also obtained a detail statement of royalty from the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/DK/ML/LS/2022-23/Pt.II/935/B/1456 dated Jowai, the 18<sup>th</sup> October , 2023.

In response to the ADS raised by the committee in the 69<sup>th</sup> meeting of the State Expert Appraisal Committee, the project proponent has furnished the non-forest land certificate and the Cluster certificate, a copy of Environmental Clearance granted by DEIAA and a certificate from the Divisional Forest Officer stating the production of limestone that has been extracted during Five-year period. The project proponent has also submitted compliance report as per the conditions mention in EC that was granted by DEIAA.





## **Recommendation**

In response to the ADS raised by the committee in the 69<sup>th</sup> meeting of the State Expert Appraisal Committee, the project proponent has furnished the non-forest land certificate and the Cluster certificate, a copy of Environmental Clearance granted by DEIAA and a certificate from the Divisional Forest Officer stating the production of limestone that has been extracted during Five-year period. The project proponent has also submitted compliance report as per the conditions mention in EC that was granted by DEIAA. As such, the committee unanimously recommended for grant of afresh 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. Garland drains is to be constructed along the periphery of the mining lease boundary to capture the storm water run-off from the mining area, all drains will link to a settling tank with compartments to check and arrest siltation in the mine water prior to discharge.
3. Curtain Drain is to be constructed properly to intercept the surface water from flowing into the mining area and water flowing out of the mine channelized to the Settling tank.
4. If any debris etc. overflows to adjoining land/agricultural field etc. during the mining operation, Monitoring Agency is to take necessary action as per relevant section(s) of Water (Prevention & Control of Pollution) Act, 1974.
5. In annual EMP budget under GREEN BELT, creation of plantations including nursery cost, fencing etc the notified norms of Forest and Environment Department, Govt of Meghalaya is to be followed strictly, including financial cost. Budget under said head stands revised accordingly.
6. To increase the allocation for plantation and maintenance to a minimum of Rs. 1 lakh per annum and increase the number of saplings to be planted. The Nurseries for the approved species as given in the EIA report should be created before commencement of the mining plan and the types of species should be according to the Forest Department Plantation



Norms (Amended in 31.03.2023) & plantation should be done in the 1<sup>st</sup> and 2<sup>nd</sup> year of the planed period.

7. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.
8. Boundary pillars with the height not less than 2.5 feet above the ground level and 1.5 feet below ground and minimum 8 inches on all face of pillar should be erected.
9. GPS coordinates of each pillar should be carved/painted clearly on the pillars with Red colour.
10. A board highlighting the name of project and project proponent, location name, total area of the mine, date of issue of EC by SEIAA and CTO & CTE by MSPCB should be installed at the entrance to the mining site and clearly visible.
11. Fencing of the boundary of site with minimum two strands of barbed wire or ordinary split bamboo fencing is to be erected all around the periphery of the approved mining area.
12. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.

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



Chairman

State Expert Appraisal Committee  
Meghalaya Shillong