

## 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 65<sup>th</sup> MEETING OF THE STATE EXPERT APPRAISAL COMMITTEE, MEGHALAYA SHILLONG HELD ON 22<sup>nd</sup> March 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 Evansara Shullai, MFS Deputy Conservator of Forest (SF & Env.)	Member Secretary SEAC	-Sd-
9	Prof. Sunil Kumar De	Special Invitee	-Sd-

The 65<sup>th</sup> meeting of State Expert Appraisal Committee (SEAC), Meghalaya, Shillong, held on 22<sup>nd</sup> March 2023 from 10:30 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 Prof. Sunil Kumar De, the expert on Sand Mining, and to all the members of the Committee present and called the meeting to order. He requested Prof. Sunil Kumar De to delivered the scientific opinion on Sand Mining, followed by the Member Secretary to initiate the discussion as per the agenda circulated vide letter No.ML/SEAC/Meeting/Vol-V/1/2023/3dated the 16<sup>th</sup> March 2023, accordingly. All proposed mining areas are cross checked through google earth.

#### 1. Deliberation of the Scientific opinion on Sand Mining by Prof. Sunil Kumar De.

As per the Enforcement & Monitoring Guidelines for Sand Mining Point 4.0 REQUIREMENTS FOR MONITORING & ENFOCEMENT Sustainable Sand Mining Management Guidelines (SSMMG) 2016 and past experience suggest that the source of sand in India are through:



- a) River (riverbed and flood plain),
- b) Lakes and reservoirs,
- c) Agricultural fields,
- d) Coastal / marine sand,
- e) Palaeo-channels and
- f) Manufactured Sand (M-Sand).

The SSMMG-2016 highlights the identification of the sand mining sources, replenishment of the River Bed Material (Sand, Boulder, Gravel, Cobble etc.), preparation of Districts Survey Report, and Standard Environmental Conditions suitable for sand mining projects.

According to the expert Prof. Sunil Kumar De invited by SEAC officially to provide expert technical, scientific inputs, the proposed sand mining of Smt. Wilme R. Marak (M/S Kusumkolgre Sand and Gravel Permit) for an area of 1.6 hectares located at Kusimkolgre, East Garo Hills District, Meghalaya, the project proponent should fulfil the following requirements:

1. The proposed sand mining should be 3 m gap away from the river. As per the Standard Environmental conditions for Sand Mining point 16. To maintain safety and stability of Riverbanks i.e. 3 meters or 10 % of the width of the river whichever is more will be left intact as no mining zone.
2. The proposed site of sand mining is of the convex river bed which is prone to erosion.
3. Hydro-geo morphological study of the area should be carried out as it is important to identify the morphological issue of the area.
4. Sediment load data both monsoon and pre-monsoon should be provided.
5. It is important to discuss the regional activities for the identification of the regional hazard.
6. The impacts of sand mining should be identified and mitigation measures should be provided.

**2. Confirmation of the minutes of the 64<sup>th</sup> Meeting held on 9<sup>th</sup> February 2023.**

The minutes were confirmed.

**3. Action taken report as per the decision taken in the 64<sup>th</sup> Meeting.**

As per the decision taken in the 64<sup>th</sup> Meeting of the State Expert Appraisal Committee held on 9<sup>th</sup> February 2022, (2) Two proposals for Environmental Clearance, (1) One Term of Reference, (3) Three ADS, (1) one site visit and (1) One Rejected were recommended to the State Environment Impact Assessment Authority, Meghalaya.



## ENVIRONMENTAL CLEARANCE

### 1. Proposal No.SIA/ML/MIN/216618/2021 submitted by Shri. Jeres Lamare (M/S Umsiang Boulder Stone Quarry)

The Project Proponent, Shri. Jeres Lamare submitted online application vide proposal No. SIA/ML/MIN/216618/2021 for Environmental Clearance for Umsiang Boulder Stone Quarry for an area of 0.3 hectare. The proposal is for mining of boulderstone use for construction purposes, hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The area is located at Umsiang village, Raid Maiong, Khyrim Syiemship, Ri-Bhoi District, Meghalaya and toposheet Survey of India No.83 B/4 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	26° 02' 16.363"N	92° 08' 45.733"E
2	26° 02' 17.728"N	92° 08' 43.811"E
3	26° 02' 16.644"N	92°08' 42.886"E
4	26° 02' 15.381"N	92° 08' 44.305"E

The proposed mining area belongs to the project proponent vide Deed of Declaration signed on the 16<sup>th</sup> of June,2009 which was certified by Sub-Registrar, Nongpoh, RiBhoi District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills & RiBhoi(T) Division vide letter No.KH/9/NOC/STONE/41/Pt.V/5090, dated Shillong, the 6<sup>th</sup> November 2018 and Letter of Intent vide letter No.KH/8/ML/Stone/69/ 4431 dated Shillong, the 8<sup>th</sup> October 2018 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/253/2018/10 dated Shillong, the 15<sup>th</sup> April 2021 which states that there are no approved mining plans 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 Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/253/2018/339 dated Shillong, the 23<sup>rd</sup> May 2019. The Mining Plan

has been prepared to extract lime stone at the rate of 8378 TPA with a project cost of Rs.10.00 lakhs and the operations will be open cast, semi-mechanized method of mining.

The mineable reserves would be 43535 Tonnes with an average annual production of 8707(43535/5=8707) Tonnes per year. The average annual production of stone may be different from annual production of five years and the total mineable reserves will be exhausted within five years of mining. Therefore, the life of mine will be 5 years.

### **Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google. 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 double the number of plants to be planted.



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/409198/2022 submitted by Shri. Koberth Ch. Marak (M/S Manggapara Stone Quarry)**

The Project Proponent Shri. Koberth Ch. Marak, submitted online application vide proposal No. SIA/ML/MIN/409198/2022 for Environmental Clearance for Boulder Stone Quarry for an area of 0.937 hectare. The proposal is for mining of boulder stone to be used for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Manggapara, Grenggandhi, P.O. Zekabari, P.S. Tura, West Garo Hills District, Meghalaya and toposheet Survey of India No.78 K/2 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 37'47.05''N	90° 00'43.61''E
2	25° 37'49.51''N	90° 00'42.41''E
3	25° 37'50.89''N	90° 00'45.59''E
4	25° 37'48.23''N	90° 00'47.21''E

The proposed land is on lease for a period of 20 years which was executed on the 14<sup>th</sup> July 2017 registered at D.C. Office, Tura, District Registrar.





The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, West, South & South West Garo Hills Territorial Division, Tura vide letter No.B/16/VII/NOC/MMMCR/3246-256, dated Tura, the 16<sup>th</sup> November, 2017 and letter of Intent vide letter No.B/16/VII/2390 dated Tura, the 15<sup>th</sup> June 2018 and subsequently renewed vide letter No.B/16/VII/3084-87 dated Tura, the 16<sup>th</sup> August 2019 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 vide letter No.DMO-W/MP/15/2019/111 dated Williamnagar, the 18<sup>th</sup> September, 2020 which states that there are four approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of total nine mines is summed up to 10.997 hectares.

The project proponent submitted the approved Mining Plan with Progressive Mine Closure Plan approved by the Director of Mineral Resources, Government of Meghalaya, vide letter No. DMR/MM/201/2018/2128 dated Shillong, the 15<sup>th</sup> March 2019. The Mining Plan has been prepared to extract boulder stone at the rate of 33415 TPA with a project cost of Rs.29.40 lakhs and the operations will be open cast, semi-mechanized method of mining. The mineable reserve would be 334594 tonnes with an average annual production of 334594 (334594/10=33459) tonnes per year and production of stone in first five years will be 161222 tonnes. The average annual production of stone may be different from the annual production of first five years. The balance mineable reserve, 173372 tonnes will be worked out in the subsequent 5 years. So, life of mine will be 10 years (first five years in plan period + 5 years in conceptual period).

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/WGH/P-99/2020/9/1625 dated Shillong the 29<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 CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 10<sup>th</sup> December 2021 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri. J. R. T. Sangma, MCS, Executive Magistrate & BDO, Seisella Block, West Garo Hills District.

## Recommendation

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

1. LOI ought to be renewed as the validity has expired.
2. A settling Tank is to be constructed, at a suitable site within the mining area for collection of debris, sediment, silt, fragmented stones etc carried by surface water channelized through the Curtain drain. The deposited debris, spoils etc are to be removed/cleared, both from the tank and drain as and when required. Overflowing water that flows downhill shall be dispersed but precautions to be taken that spoils etc. generated from mining are not carried along.
3. A retaining wall of adequate height not less than 6 ft above the ground level and 4-6 ft below the ground level is to be constructed around the periphery of the proposed mining site for stacking of Over Burden (OB), sloping to the valley below to ensure that no spillage of OB materials.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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. Plantation should be done in the 1<sup>st</sup> and 2<sup>nd</sup> year of the planed period.
9. CER should be included in the capital cost and it should be increased to a minimum of Rs 1 lakh annually.



10. 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.
11. GPS coordinates of each pillars should be carved/painted clearly on the pillars with Red colour.
12. 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.
13. 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.
14. Storing and collection of water through rainwater harvesting for dust sprinkling and recharging of the aquifers.

**III. Proposal No.SIA/ML/MIN/281166/2022 submitted by Smti. Evalyni Kharbani (M/S Marasali Boulder Stone Mine)**

The Project Proponent, Smti. Evalyni Kharbani submitted online application vide proposal No.SIA/ML/MIN/281166/2022 for Environmental Clearance for mining of Boulder Stone for an area of 15 hectares. The proposal is for mining of Boulder stone to be used construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Marasali, P.O. Dhanua, P.S. Tura, Selsella, 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° 40' 13.99''N	89° 56' 54.51''E
2	25° 40' 18.57''N	89° 56' 55.19''E
3	25° 40' 30.28''N	89° 57' 08.00''E
4	25° 40' 29.15''N	89° 57' 10.76''E
5	25° 40' 18.95''N	89° 57' 02.67''E
6	25° 40' 18.87''N	89° 57' 11.99''E
7	25° 40' 28.69''N	89° 57' 15.43''E
8	25° 40' 32.67''N	89° 57' 11.38''E
9	25° 40' 31.15''N	89° 57' 06.42''E
10	25° 40' 27.18''N	89° 57' 04.51''E

*Lab*



11	25° 40' 27.35''N	89° 57' 01.18''E
12	25° 40' 26.12''N	89° 56' 59.04''E
13	25° 40' 25.50''N	89° 56' 55.90''E
14	25° 40' 25.60''N	89° 56' 53.10''E
15	25° 40' 25.00''N	89° 56' 51.50''E
16	25° 40' 19.50''N	89° 56' 48.72''E
17	25° 40' 16.68''N	89° 56' 52.18''E

The proposed land is on lease for a period of 30 years vide Lease Agreement made on the 20<sup>th</sup> May 2019 registered at District Registrar, D.C. Office, 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/1155-57, dated Tura, the 11<sup>th</sup> March, 2020 and letter of Intent was obtained from the Principal Chief Conservator of Forests & HoFF, Meghalaya, Shillong vide letter No.MFG.39/42/IBMM/15 Ha/B/5148 dated Shillong, the 21<sup>st</sup> July 2020.

The project proponent obtained a cluster certificate from the Divisional Mining Office, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2019/109 dated Williamnagar, the 7<sup>th</sup> October, 2020 which states that there are another three 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 total nine mines is summed up to 18.28 hectares.

The project proponent submitted the Mining Plan with Progressive Mine Closure Plan approved by the Divisional Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/52/2019/104 dated Williamnagar the 1<sup>st</sup> October 2020. The Mining Plan has been prepared to extract Limestone at the rate of 816885 TPA with a project cost of Rs.75.00 lakhs and the operations will be open cast, semi-mechanized method of mining. As per the mining plan, the total mineable reserve would be 12253451 tonnes with an average annual production of 816897 (12253451/15=816897) tonnes and production of stone in first 5 years will be 4084051 tonnes. The average annual production of stone may be different from the annual production of first 5 years and the balanced mineable reserve for last 10 years would be 8169400 tonnes. So life of the mine will be 15 years (five years plan period + ten years conceptual period).



The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/WGH/P-110/2020/4/1650 dated Shillong the 29<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 CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 20<sup>th</sup> October 2021 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri Dolrich B.G. Momin, MCS, Executive Magistrate, West Garo Hills District.

#### **Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and deliberation by using kml file through google earth and the presentation of the EIA/EMP, the committee unanimously recommended for ADS (As per verification, the proposed mining area is 15 Ha. and the area is tapering at the middle, the proposed mining site requires to access for two Over Burden (OB) dumps and to increase the greenbelt area for more than 7.5 meter all along the boundary of the proposed mining area. Hence, the project proponent needs to rework on the schematic map for benches and to furnish the process flow diagram and the schematic map for development plan of the proposed mining site including green belt).

#### **IV. Proposal No.SIA/ML/MIN/284959/2022submitted by Shri. Royal A. Sangma (M/S Bagli Limestone Mine)**

The Project Proponent, Shri Royal A. Sangma submitted online application vide proposal No.SIA/ML/MIN/284959/2022for Environmental Clearance for Bagli Limestone Mine for mining of Lime stone for an area of 1.00 hectares. The proposal is for mining of lime stone to be used in kilns for construction purposes. The project falls under Schedule 1(a) of category B2 of EIA Notification 2006. The mining lease area is located at Bagli, Khonjowai, South West Khasi Hills District, Meghalaya and toposheet Survey of India No.78 O/4 within the following GPS Coordinates:

<b>Pillar No</b>	<b>GPS Coordinates</b>	
	<b>Latitude</b>	<b>Longitude</b>
<b>1</b>	25° 12'27.15''N	91° 04'12.95''E
<b>2</b>	25° 12'24.66''N	91° 04'12.11''E



3	25° 12'28.91''N	91° 04'06.62''E
4	25° 12'30.38''N	91° 04'08.58''E
5	25° 12'27.70''N	91° 04'10.23''E

The proposed mining area is on lease for a period of 10 years vide Deed of Lease made on the 7<sup>th</sup> October 2016 certified by District Registrar, South Khasi Hills District, Meghalaya.

The applied area is a Non Forest Land which was confirmed by the Divisional Forest Officer, SF & Territorial Division, West and South West Khasi Hills, vide letter No.T/W&SW/20/NOC(L)/538, dated Nongstoin, the 27<sup>th</sup> August 2020 and letter of Intent vide letter NoT/W&SW/20-21/LS/ML/142/162, dated Nongstoin, the 9<sup>th</sup> February, 2021 respectively.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/125/2021/07 dated Shillong, the 15<sup>th</sup> July 2021 which states that there are seven (7) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category since the total area of eight mines is summed up to 18.21 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/125/2021/02 dated Shillong, the 29<sup>th</sup> June 2021. The Mining Plan has been prepared to extract lime stone at the rate of 54474 TPA with a project cost of Rs.28.5 lakhs and the operations will be open cast, semi-mechanized method of mining

The mineable reserve would be 272371 tonnes with an average annual production of 54474(272371/5=54474) Tonnes. The average annual production of limestone may be different from annual production of five years plan period. Thus 272363 Tonnes of the total mineable reserve will be worked out in first 5 years and the rest quantity of mineable reserve i.e (272371-272363) =8 tonnes would be mining loss. Therefore, the life of the mine will be 5 years (five years in plan period).

The project was already awarded Term of Reference by the State Environment Impact Assessment Authority, Meghalaya vide letter No.ML/SEIAA/MIN/SWKH/P-192/2021/766 dated Shillong the 6<sup>th</sup> October 2021 and submitted the final EIA/EMP for the proposed Mining of Lime stone where the project proponent complied all the points in compliance to the Term of Reference prepared by CHAITANYA PROJECTS CONSULTANCY PVT. LTD.



The public hearing was held on 23<sup>rd</sup> March 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Shri. L. George Marboh Kharmih, ADC & I/c Ranikor Civil Sub Division, South West Khasi Hills District.

### **Recommendation**

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

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

**V. Proposal No. SIA/ML/MIN/289424/2022 submitted by Shri. Redifystar Khylllep (M/S TRR Khylllep Limestone Mine)**

The Project Proponent, Shri. Redifystar Khylllep submitted online application for Environmental Clearance vide proposal No.SIA/ML/MIN/289424/2022 for TRR Khylllep Limestone Mine for mining of Lime stone for an area of 0.436 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 Mawpyrsen, Mawlong, Mawlong 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° 11'40.9"N	91° 41'42.2"E
2	25° 11'39.0"N	91° 41'42.0"E
3	25° 11'40.6"N	91° 41'38.9"E
4	25° 11'41.9"N	91° 41'39.7"E

The proposed mining area belongs to the project proponent vide Gift Deed made on 28<sup>th</sup> August 2019 certified by Public Notary, Shillong, 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/L/Stone/41/Pt.IV/4215, dated Shillong, the 26<sup>th</sup> September 2019 and Letter of Intent vide letter No.KH/8/Quarry Permit/Limestone/4439, dated Shillong, the 14<sup>th</sup> October 2019 respectively and subsequently renewed the Letter of Intent vide letter No.KH/8/Quarry Permit/Limestone/5114, dated Shillong, the 14<sup>th</sup> November 2019.

The project proponent obtained a cluster certificate from the Mining Engineer, Directorate of Mineral Resources, Meghalaya, Shillong vide letter No.DMR/MM/77/2019/09 dated Shillong, the 9<sup>th</sup> December 2020 which states that there are five (5) 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 six mines is summed up to 6.627 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/77/2019/1709 dated Shillong, the 21<sup>st</sup> January 2020. The Mining Plan has been prepared to extract lime stone at the rate of 30000 TPA with a project cost of Rs.80 lakhs and the operations will be open cast, semi-mechanized method of mining.

The quarry has a Measured Mineable Reserves excluding safety barrier and UPL of 242849 MT but after leaving residual benches the net total Mineable Reserves comes to 140132 MT. As the quarry is targeted to produce 30000 MT of Limestone per annum and taking 250 days as the average number of working days per annum, the anticipated life of the quarry will be 4.67 years, say 5 years.

The project was already awarded Auto Generated Term of Reference 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 CHAITANYA PROJECTS CONSULTANCY PVT. LTD.

The public hearing was held on 14<sup>th</sup> January 2022 which was conducted by the Meghalaya State Pollution Control Board and presided over by Smt. D.Phawa, ADC, East Khasi Hills District and Chairperson, EPH.

### **Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and site cross checking and deliberation by using kml file through google earth and the presentation of the EIA/EMP. The committee unanimously Rejected (As per verification

from google earth it was observed that the road is less than 50 metres from the proposed mining site. Prior to the Notification of MMMCR 2016, dated 12<sup>th</sup> September 2016 vide No.MG.49/2011/408 Chapter II.3.(1) where no mining lease and quarry permit shall be granted in respect of any land within a distance of 50 meters from any village, bridge, national highway or water source except with prior approval of the State Government. Hence, the Project Proponent to obtain a corrigendum of coordinates from the Divisional Forest Officer, measure 50 m away from the road and to re-apply the same.

## 2. TERM OF REFERENCE

### I. Proposal No. SIA/ML/MIN/415235/2023 submitted by Smti. Sanitha Ch. Marak (Rochonpara Stone Mine).

The Project Proponent, Smt. Sanitha Ch. Marak submitted online application for Term of Reference vide proposal No:SIA/ML/MIN/415235/2023 for Rochonpara Stone Mine for an area of 1.00 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 Rochonpara, P.O. Dhanua, West Garo Hills District, Meghalaya and toposheet Survey of India No.G46M2 within the following GPS Coordinates:

Pillar No	GPS Coordinates	
	Latitude	Longitude
1	25° 40'53.36''N	89° 56'38.80''E
2	25° 40'56.10''N	89° 56'42.40''E
3	25° 40'53.31''N	89° 56'43.21''E
4	25° 40'50.36''N	89° 56'40.04''E

The proposed mining area is on lease for periods of 20 years vide Deed of Lease made on the 26<sup>th</sup> October 2021 certified by Public Notary, 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/3671-73 dated Tura, the 3<sup>rd</sup> November, 2021 and Letter of Intent vide letter No.B/16/VII/517, dated Tura, the 23<sup>rd</sup> February, 2022 respectively.

The project proponent obtained a cluster certificate from the Division Mining Officer, East Garo Hills, Williamnagar vide letter No.DMO-W/MP/15/2019/118 dated Williamnagar,

dated 6<sup>th</sup> December 2022 which states that there are two (2) approved mining plan lying within 500 metres from the applied mining lease area. Hence the applied mining area falls under cluster category.

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/15/2019/118 dated Williamnagar, the 6<sup>th</sup> December 2022. The Mining Plan has been prepared to extract stone at the rate of 25289.6 TPA with a project cost of Rs.57.60 lakhs and the operations will be open cast, mechanized method of mining.

As stated in the mining plan, the anticipated life of the mine is 5.4 years.

### **Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and deliberation by using kml file through google earth, the committee unanimously recommended for ADS (As per verification, it was observed that the cluster certificate vide letter No.DMO-W/MP/15/2019/118 dated Williamnagar, dated the 6<sup>th</sup> December 2022 has not given the area of the Mines located within a distance of 500 meters. Hence, the project proponent has to furnish a cluster certificate mentioning the area which are under cluster and to provide the correct name of the project proponent.

### **3. CORRIGENDUM:**

#### **I. Proposal No.SIA/ML/MIN/294234/2022 submitted by Shri. Amit Agarwal (M/S Meghalaya Cement Limited)**

The Project Proponent, Shri. Amit Agarwal submitted online application vide proposal No. SIA/ML/MIN/294234/2022 for Meghalaya Cements limited for an area of 31.05 Hectares located at South Khliehjar, Thangskai Village, Khliehriat, East Jaintia Hills District, Meghalaya for corrigendum in existing Environmental Clearance granted by SEIAA vide Letter No.SEIAA/(PR-19/2022) PT/PR-05/2015/444, dated Shillong the 9<sup>th</sup> January 2017 to mention the limestone production capacity as 22,40,704 TPA in subject matter in line with ToR Letter, Approved Mining Plan, Public hearing and Final EIA/EMP Report.

### **Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and deliberation by using kml file through google earth, the committee unanimously recommended for grant of Environmental Clearance, as per the EC granted by SEIAA, letter No.SEIAA(PR-19/2012)/PT/PR-05/2015/444 Dated, Shillong the 9<sup>th</sup> January, 2017 stated



that the validity of EC is for a period of 12 (twelve) years, which is the expected life period of the mine.

**II. Proposal No.SIA/ML/MIN/293750/2022 submitted by Dalmia Cement Bharat Limited (M/S Umsoo Mootang Limestone Mine Block III)**

The Project Proponent, Dalmia Cement Bharat Limited submitted online application vide proposal No. SIA/ML/MIN/293750/2022 for Umsoo Mootang Limestone Mine ( Block III) for an area of 4.90 Hectares located at Umsoo Mootang area, Thangskai village, Narpuh Elaka, P.O. Lumshong, East Jaintia Hills District, Meghalaya for corrigendum in existing Environmental Clearance (Transferred) granted by SEIAA vide Letter No.SEIAA/2125(E)/PR-10/2015/312,dated Shillong the 28<sup>th</sup> June 2022 to extend the validity of the Environmental Clearance as per the amendment of EIA notification 2006 vide S.O 1807(E) dated 12<sup>th</sup> April 2022.

**Recommendation**

After due screening and examination of all the documents submitted by the Project Proponent and deliberation by using kml file through google earth, the committee unanimously recommended for ADS (As per verification, the project proponent is to furnish the following).

- A monitoring certificate from the State Pollution Control Board, in compliance to the conditions of the Environmental Clearance.
- A certificate from the Directorate of Mineral Resources (DMR) stated the production of limestone that has been extracted during Five year period.

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



Chairman

State Expert Appraisal Committee  
Meghalaya Shillong