



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

:: SEIAA: MEGHALAYA ::

'Silviculture Building' (Adjacent Sylvan House), Lower Lachumiere, Shillong- 793 001

Email :ms.seiaamegh@gmail.com.

MINUTES OF THE SEIAA MEETING

DATE : 09 June, 2020 : TIME : at 11 AM,

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.Manner, IFS, CCF, SF & EMember Secy. SEIAA

Shri T.T.C. Marak, Chairman presided over the meeting. At the outset, the Chairman welcomed the Members and then requested the Member Secretary to present the Agenda points for discussion.

The Member Secretary apprised the members about the action taken on the decision arrived at in the last SEIAA meeting held on 22nd May, 2020 and circulated the minutes of the said meeting. The meeting approved the actions taken and confirmed the proceedings.

The Member Secretary placed the following EC applications and TOR applications along-with its attachments including a copy of the Proceedings of SEAC's meeting held on 26 to 28 May, 2020 before the meeting and briefed the Members about these projects.

Agenda 1 : Applications recommended by SEAC for grant of Environmental Clearance

1. (1) EC : Proposal No SIA/ML/MIN/128952/2019 submitted by Shelina Nongbri.

Deliberations and observations in the Meeting :

- EC online application vide proposal no. SIA/ML/MIN/128952/2019 dated 09 May 2020 seeking environment clearance under the provisions of the EIA Notification, 2006 for the above mentioned project for mining of Limestone for an area of 1.50 hectare at Umeit Village, Raid Mawbuh, Myllem Syiemship, Meghalaya. The proposed project activity is listed at Sl.No. 1(a) Mining of minerals, under Category "B2 " of EIA Notification 2006.

- It is a private land duly registered on the 15th January 2015 at Nongpoh. It is a Non Forest Land, vide Divisional Forest Officer, East Khasi Hills & RiBhoi Territorial Division, Shillong, letter No.KH/9/NOC/Stone/ 41/Pt.V/5365 dated Shillong the 20th November 2018. The limestone will be used for construction purposes. It falls under toposheet Survey of India No 780/14 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25° 42' 28.9"N	91° 56' 33.1"E
2	25° 42' 29.8"N	91° 56' 31.6"E
3	25° 42' 31.9"N	91° 56' 30.5"E
4	25° 42' 36.0"N	91° 56' 33.2"E
5	25° 42' 32.2"N	91° 56' 35.3"E

- As per the Cluster certificate issued by the office of the Director, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/73/2019/1485 dated Shillong, the 27th November 2019, this project are in cluster with that the applied mining area of Smt. Banrisha Malngiang at Umeit village, Raid Mawbuh, Myllem Syiemship, RiBhoi District, Meghalaya located at a distance of 390 metres from the mining area of Smt. Shelina Nongbri with a total cluster area of 3.78 ha. Hence as per Ministry of Environment, Forest and Climate Change Notification No. S.O.3977(E) dated New Delhi, the 14th August 2018 in Appendix XI, the project falls under category B2 less than 5 hectare.
- The Mining plan was approved by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong vide letter No.DMR/MM/19/2019/239 dated Shillong the 16th May 2019.
- As per the approved Mining plan, the total geological reserve 7,58,260 MT with mineable reserve (excluding safety barrier) of 5,83,341 MT but after leaving residual benches, the net total mineable reserves come to 3,15,735 MT. the mine is targeted to produce 30,000 MT of boulder per annum and taking 300 as the average number of working days per annum, the anticipated life of the mine will be 10.5 years, say 11 years with a project cost of Rs.27, 00,000.00
- The mining will be done by opencast semi-mechanized mining operations. Approach roads, removal of soil and proper stacking of the same for use in future reclamation work shall be done before commencement of production. The soil as well as overburden that will be generated will be around 5,770 m³. It will be removed as and when the development of the benches proceed to the lower benches and it will be stored in a specific stack-yard on the western side of the safety barrier. Also for Umeit Boulder Stone Mine, the gritty soil that will be generated will be dumped on the west zone of the applied area. After the development stage, benches will be formed and worked in a top to downward manner. The bench height in the cluster is 5-6

m and width will vary accordingly but will not be less than the height. Also, excavation of the boulder stone will be carried out by both drilling and blasting and the use of other standard equipment like loader, dumpers, etc. The bench faces will be kept nearly vertical (75°-85°) and overall pit slope angle will be around 45° with the horizontal.

- The PP submitted that green belt will be developed for 0.27 ha with multi-species bio-diversified sapling planted will ensure the development of green covers that will match the natural vegetation around.
- The water requirement for the proposed project for drinking use, dust suppression and other use will be is made available from nearby existing bore well/ponds/river. The applied mining area fall within the parameter of the District Survey report related to RiBhoi District.
- The project proponent committed an amount of Rs.4,90,000.00 for five years for Environmental Protection Measures such as monitoring of Atmospheric Air, Surface water, Noise levels (By External Agency), Soil Management, Greenbelt development and maintenance, Reclamation of degraded land etc. An amount of Rs.45,000/-was committed for Occupational health and medical expenditure of employee.
- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda- 2.4, the SEAC recommended for issue of EC to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the Meeting, unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, subject to strict compliance of the Terms and Conditions.

The Terms and Conditions shall be 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 but since these conditions are generalized for both non coal mining of B1 and B2 category, the SEIAA in the meeting resolved to add conditions suitably for B2(non cluster and cluster below 5ha) in the State, as under :

- 1) Hon'ble S.C. Order for all B1 & B2 EC : "The mining lease holders shall after ceasing mining operations, undertake re-grassing the mining areas and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna, etc."

- 2) "The Project Proponent will undertake Ambient Air Quality Monitoring especially on air pollution viz. PM10, PM2.5, NO2, Co and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone.

Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, there-after final EC shall be issued by the Member Secretary.

2.(2) : EC Proposal No SIA/ML/MIN/149885/2020 submitted by S.M.Syiem

Deliberations and observations in the Meeting :

- EC online application vide proposal no. No.SIA/ML/MIN/149885/ 2020 dated 5th May, 2020 seeking environment clearance under the provisions of the EIA Notification, 2006 for the above mentioned project for mining of limestone for an area of 4.84 hectare at Joiram, Bhowal Syiemship, East Khasi Hills District. The proposed project activity is listed at Sl.No. 1(a) Mining of minerals, under Category "B2 " of EIA Notification 2006.
- The proposal is for mining of limestone to be used for construction purposes and export to Bangladesh. It is a Non Forest Land, vide Divisional Forest Officer, East Khasi Hills & RiBhoi Territorial Division, Shillong vide letter No.KH/8/NOC/limestone/ 41/Pt.VI/2966 dated Shillong the 01st August 2019. It falls under toposheet Survey of India No 780/8 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25°12'34.98"N	91°24'56.52"E
2	25°12'29.46"N	91°24'53.76"E
3	25°12'30.36"N	91°25'05.52"E
4	25°12'35.58"N	91°25'06.12"E

- As per the Cluster certificate issued by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong, vide letter No.DMR/MM/62/2019/1626 dated Shillong, the 16th December 2019 there is no approved mining plan located within a distance of 500 metres. Hence the applied mining area does not fall under cluster category.
- The Mining plan for this project was approved by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong vide letter memo No.DMR/MM/62/2019/956 dated Shillong the 30th August 2019. The mineable reserve would be 37,37,005 tonnes with an average annual production of 1,86,850 (3737005/20= 1,86,850) Tonnes. The average annual production of limestone may be different from the annual production of first five years. Thus 9,33,606 tonnes of the total mineable reserve will be worked out in the first 5 years and the balance mineable reserve i.e. 28,03,399 tonnes will be mined out in subsequent 15 years at the rate of 186893 tonnes per year. Therefore, the life of the mine will be 20 years (five years in plan period + fifteen years in conceptual period) which fall within

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the parameter of the District survey report related to East Khasi Hills District.

- The mining will be done by opencast semi mechanized method loading will be done tire mounted hydraulic loaders and transport will be done by trucks/tippers. Hydraulic breakers for stone breaking. Drilling will be done for blasting the stone out of the strata. Blasting of the shallow holes will be done using jackhammer drill having diameter from 39 mm to 34 mm the hole are generally made up to 3.3m (including 10% sub-grade) depth.
- The project proponent committed that under Environment Management plan for an amount of Rs1,60,000/- for Environmental Protection Measures such as monitoring of Atmospheric Air, Surface water, Noise levels (By External Agency), Soil Management, Greenbelt development and maintenance, Reclamation of degraded land etc and an amount of Rs 1,75,000/- to be spent under Corporate Social Responsibility plan annually. The project proponent submitted the disaster management plan and the risk assessment report to mitigate any hazards occur during blasting, movement of vehicle etc in the mining process.
- The project proponent submitted that the Period of Mining Lease is of 20 years from the date of executing a lease with a project cost of Rs.35 lakhs and the water requirement for the proposed project for drinking use, dust suppression and other use will be 5 KLPD, which will be taken from nearby sources.
- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda - 2.2, the SEAC recommended for issue of EC to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification-2006 and its subsequent amendments, subject to strict compliance of the terms and conditions
- The Terms and Conditions shall be 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.
- Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, final EC shall be issued by the Member Secretary.

1. (3) EC Proposal No SIA/ML/MIN/150167/2020 submitted by Jojeng Marak

Deliberations and observations in the Meeting :

- EC online application vide proposal no. SIA/ML/MIN/150167/2020 dated 03 May 2020 seeking environment clearance under the provisions of the

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EIA Notification, 2006 for Boulder-stone mining for an area of 1.10 ha., located at Bollonggre, P.O. Zikabari District- West Garo Hills Meghalaya. The proposed project activity is listed at Sl.No.1(a) Mining of minerals , under Category "B2 " of EIA Notification 2006.

- The applied area is on lease for a period of 10 years as per registered Lease deed executed on 22nd July 2019 at DC office Tura. The boulder stone will be used for construction purposes and export to Bangladesh. The applied area located at Bollonggre, P.O. Zikabari District- West Garo Hills Meghalaya. It is a Non Forest Land, vide Divisional Forest Officer, West and South West Garo Hills Territorial Division, Tura, letter No.B/16/VII/ NOC/MMMCR/3615-617 dated Tura the 17th September 2019. It falls under toposheet Survey of India No 78G/14 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25°38'49.1"N	089°58'10.6"E
2	25°38'51.4"N	089°58'11.6"E
3	25°38'53.5"N	089°58'12.3"E
4	25°38'54.7"N	089°58'08.6"E
5	25°38'51.5"N	089°58'07.9"E
6	25°38'51.2"N	089°58'09.6"E

- As per the Cluster certificate issued the office of the Divisional Mining Officer, East Garo Hills, Williamnagar, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMO-W/MP/15/2019/161 dated Williamnagar the 12th February 2020, there is no other approved mining plan located within a diameter aerial distance of 500 metres. Hence the applied mining area is a standalone and does not fall under cluster category.
- The Mining Plan for this project was approved vide Divisional Mining Officer, East Garo Hills, Williamnagar, Directorate of Mineral Resources, Government of Meghalaya, letter No.DMO-W/MP/46/2019/147 dtd.16th Jan, 2020 and as per the approved Mining Plan, the total geological reserve 12,94,830 MT and total production in 5 years 3,38,740 MT and a maximum of 68,200 MT/annum and the mineable reserves of boulder stone are of the order of 3,55,000 tones with the production period of this mining plan will be around 3,38,740 tons in 5 years. The balance reserve come to 355000-338740= 16260 tons. The balance reserves will be sufficient for 16260/68200=0.24 years. Thus, total life of the mine is 5+0.24=5.24 or say 6 years which fall within the parameter of the District survey report related to West Garo Hills District.
- Boulder stone in the Mine area is to be excavated by conventional method of opencast mining through the formation of safe benches which will be semi mechanized and on single shift basis. Benches are to be formed and worked in a top to downward manner. Because of presence of hard rock mass,

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drilling for blasting is to be performed for loosening of the rock mass. The rock will be mostly excavated and broken by hydraulic excavators and rock breakers respectively.

- The water requirement for the proposed project for drinking use, dust suppression and other use will be made available from nearby existing bore well/ponds/river.
- The project proponent committed an amount of Rs.3.1325 lakhs for Environmental Protection Measures such as monitoring of Atmospheric Air, Surface water, Noise levels (By External Agency), Soil Management, Greenbelt development and maintenance, Reclamation of degraded land etc. The PP submitted that green belt will be developed for 0.27 ha with multi-species bio-diversified sapling planted will ensure the development of green covers that will match the natural vegetation around.
- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda- 2.3, the SEAC recommended for issue of EC to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification-2006 and its subsequent amendments, subject to strict compliance of the terms and conditions
- The Terms and Conditions shall be 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.
- Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, there-after final EC shall be issued by the Member Secretary.

1. (4) EC Proposal No SIA/ML/MIN/151483/2020 submitted by EuricaTariang

Deliberations and observations in the Meeting :

- EC online application No. SIA/ML/MIN/151483/2020 dated 28/04/2020 for grant of Environment Clearance to the above project for Limestone mining for 3.55 ha., located at Amtapoh, District- West Jaintia Hills, Meghalaya. The Land is a private land and standalone mine vide DMO, Jaintia Hills, Jowai, Cluster Certificate letter No.DMR-J/14/MM/Mining Plan/2019-20/103dtd.08/04/20. Smt. E. Tariang leased the land from Shri Long Manar Myrchiang for 20 (twenty) years, and registered with the Sub Registrar, O/o the Sub Divisional Officer, Civil, Amlarem, West Jaintia

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Hills. The leased land is about 3km away from the highway NH-44E; the nearest village is Amtapoh village; the nearest institution, CHC, etc. are at Nongtalang village.

- The proposed Project is to mine limestone (minerals) within mining leased area. Method of mining proposed is opencast & semi mechanized (as per approved mining plan) which includes drilling, blasting ; crushing of stones through machines. Mining activity is proposed for day-time only in order to reduce accidental hazards and avoid environmental pollution. No storage of stock, in the mining site, mined out minerals will be transported to the nearest crusher unit; from there it will be transported for market supply.
- The area represents a rugged topography with gorges. Around the proposed block, elevation difference is noted from 310 metres to 950 metres. South flowing Um Ngot and Myntdu rivers envelop the area towards West and East respectively.
- The entire area is highly potential area. The work will be started from the top portion of the area and advanced towards northern and downwards. The benching system 6mX6m will be practiced in the area in order to comply with the provisions of Metalliferous Mines Regulations, 1961. Since the deposit in this area is massive and compact in nature. It is proposed to carry out Open Cast Semi-Mechanized mining in this area during the plan period i.e. five years. Jack hammer drill machine will be deployed for drilling of shot holes ranging from 39 to 34mm diameter and breaking of limestone at the required size will also be done manually. For blasting of holes with burden and spacing of 1.6 m x 2 m in a staggered grid pattern would be adopted. Muffle blasting will be adopted as precautionary measure to contain fly rocks Mining will be carried out by semi-mechanized method with the help of machineries for transportation, loading etc. The guidelines issued by the Director of Mines Safety by various circulars, will be complied with. During the plan period of five years the area will be worked out leaving 7.5m safety barrier. The over burden will be removed and dumped at dumping site. During the conceptual plan period further plantation will be done along the approach road.
- The District Mining Officer, West Jaintia Hills, Jowai approved the Mining Plan, for this project- vide letter No. DMR-J/14/MM/Mining Plan/2019-20/89 dtd.17/03/20. Status of Land Certificate (Non Forest Area Clearance Certificate) was granted by the DFO Jaintia Hills Territorial Division, Jowai, vide letter No. JH/S.Quarry/2009-10/476/B/459 dtd.21/05/2018.
- The proposed project falls under Schedule 1(a) of Category B2 of EIA Notification 2006 being the mine lease area is less than 5 ha. It fall under toposheet Survey of India No. 83C/4 and the Boundary pillars of the project and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar	CO-ORDINATES
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	Latitude	Longitude
1	25°13'39.01"N	92°04'3.23"E
2	25°13'37.71"N	92°04'8.23"E
3	25°13'34.33"N	92°04'6.49"E
4	25°13'30.79"N	92°04'4.57"E
5	25°13'32.62"N	92°04'59.22"E
6	25°13'36.11"N	92°04'1.39"E

- The mineable reserve would be 4526799 Tonnes with an average annual production of 226340 Tonnes per year and production of limestone in first five years will be 1129795 Tonnes. The average annual production of limestone may be different from the annual production of first five years. The balance mineable reserve, 3397004 Tonnes will be worked out in the subsequent 15 years. So life of the mine will be 20 years (first five years in plan period + 15 years in conceptual period).
- Since the Mine will be worked in semi-mechanized method during this proposed plan period of 5 years, bench height will be restricted to the statutory 6mx6m due to compactness of the hard stone and as per the DGMS norms. Bench slope angle for stabilization of the benches will be maintained at 45°. Um Ngot River flows about 15 km away from the area. The area is gently sloping and workings will be kept restricted above ground water table. The proposed area with its surroundings is gently sloping. The proposed mining operation being semi-mechanized would not affect environment adversely. However, adequate control measures will be taken to prevent water garland drains will also be provided as precautionary measures.
- There would be 300 working days in a year and taking into account 5 years of plan period, the requirement of management & supervisory personnel has been considered are 30 persons.
- The 7-5m Safety Barrier shall be maintained for green belt development at 2.5 m spacing left all around and shall be used for plantation of trees with deep and thick vegetation so that air pollution due to dispersal of dust from the mine can be arrested. Pollution from dust, smoke & due to blasting shall be kept minimized by adoption of muffling system.
- The year wise greenbelt development along with number of required area, taking 525 plants on 0.33 ha. grid pattern. The plantation shall be done in the safety zone area.
- The cost of the mining Project is Rs.32 Lakhs and PP has earmarked Rs.2,11,250/- towards Environmental protection measures . The total water consumption is 5 KLD.
- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda -2.1, the SEAC recommended for issue of EC to this project.

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RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification-2006 and its subsequent amendments, subject to strict compliance of the terms and conditions
- The Terms and Conditions shall be 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.
- Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, final EC shall be issued by the Member Secretary.

1. (5) EC Proposal No SIA/ML/MIN/39260/2019 submitted by Bateinam S.L.Nongbri

Deliberations and observations in the Meeting :

- EC online proposal No. SIA/ML/MIN/39260/2019 dated 03 Apr 2020 seeking environment clearance under the provisions of the EIA Notification, 2006 for the above mentioned project. The proposed project activity is listed at SL.No. 1(a) Mining of minerals, under Category "B2 " of EIA Notification 2006.
- The Batei Stone Quarry (area of 2.40 ha.) is located in Thangsning Village, Maweitning, East Khasi Hills, Meghalaya. The Project was appraised by the State Expert Appraisal Committee (Non-Coal Mining). As per the Cluster certificate issued by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong, vide letter No. DMR/MM/210/2018/1711, dated Shillong, the 21st January 2020, this proposal is in cluster with the mining area of Smti. Shimhok Lyngdoh Nongbri (mining of boulder-stone for 2.50 hectare) located within 500 metres. Since, the proposed mining area fall under cluster category with a total area of 4.9 hectare and as per Ministry of Environment, Forest and Climate Change Notification No.S.O.3977(E) dated New Delhi, the 14th August 2018 in Appendix XI, the area of the project fall under category B2 less than 5 hectare.
- The proposed mining area is on agreement as per lease agreement executing on 30th January 2017 as certified by the Notary East Khasi Hills District, Shillong. The Boulder-stone will be used for construction purposes. It is a Non Forest Land, vide Divisional Forest Officer, East Khasi Hills & RiBhoi Territorial Division, Shillong letter No.KH/9/NOC/Stone/41/Pt.III/11586-A

dated Shillong the 22nd March 2018. It falls under toposheet Survey of India No.780/14 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

<u>Pillar No</u>	<u>Latitude</u>	<u>Longitude</u>
1	25°29'37.62"E	91°55'46.54"N
2	25°29'41.95" E	91°55'46.10"N
3	25°29'43.29"E	91°55'52.06" N
4	25°29'39.12" E	91°55'52.33" N

- The Mining Plan was approved by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong vide letter memo No.DMR/MM/210/2018/2143 dated Shillong the 18th March 2019. The mine has a geological reserve of 12,33,033 MT. The mine is targeted to produce 80,000 MT of stone per annum taking the production as 267 TPD taking 300 as the average working days per annum. On this basis, the anticipated life of the mine will be 15.4 years. But after leaving residual benches to prevent a vertical face around the mined out area, the reserves of boulder stone that will be blocked in the residual benches will be 1,25,504 tonnes. The mineable reserve therefore comes to only 11,07,529 tonnes. Accordingly, the actual anticipated life of the mine will be 13.8 say 14 years which fall within the parameter of the District survey report related to East Khasi Hills District.
- The mining will be done by opencast semi mechanized method loading and transport will be done by trucks/tippers. Hydraulic breakers for stone breaking. Drilling will be done for blasting the stone out of the strata. Manual/pneumatic hammering for stone breaking will also be done. Blasting of the shot holes will be done using explosive cartridges of size 25 mm x 200 mm and detonation of the charges will be carried out using detonators with safety fuse or by the use of exploder.
- The project proponent submitted that the Period of Mining Lease is of 14 years from the date of executing a lease with a project cost of Rs.65 lakhs and about 1.55 KLD water requirements will be met from nearby existing sources, like Thangsnung River, located around 1.4 kms.
- The project proponent committed an amount of Rs.7,25,000.00 for Environmental Protection Measures such as monitoring of Atmospheric Air, Surface water, Noise levels (By External Agency), Soil Management, Greenbelt development and maintenance, Reclamation of degraded land etc and Rs 1.40 lakhs means for occupational health and medical expenditure of employee. The project proponent submitted the disaster management plan and the risk assessment report to mitigate any hazards occur during blasting, movement of vehicle etc in the mining process.
- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of

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the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda- 1.7, the SEAC recommended for issue of EC to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification-2006 and its subsequent amendments, subject to strict compliance of the terms and conditions
- The Terms and Conditions shall be 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.
- Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, final EC shall be issued by the Member Secretary.

1.(6) EC Proposal No SIA/ML/MIN/42826/2019 submitted by Mark Andy Laloo

- EC online application vide proposal no. SIA/ML/MIN/42826/2019 dated 24th March, 2020 seeking environment clearance under the provisions of the EIA Notification, 2006 for mining of limestone for an area of 2.10 hectare, located at Umsong, Sandi Mustoh Village, Shella, East Khasi Hills in the State of Meghalaya submitted by Shri. Mark Andy Laloo. The proposed project activity is listed at Sl. No. 1(a) Mining of minerals , under Category "B2 " of EIA Notification 2006.
- The proposal is for mining of limestone use for construction purposes. The project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The applied area is a Non Forest Land, vide the Divisional Forest Officer, East Khasi Hill & RiBhoi Territorial Division, Shillong letter No.KH/8/NOC/ Limestone/41/Pt.IV/363 dated Shillong the 20th April 2018. It falls on toposheet Survey of India No.780/12 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25° 11' 11.6"N	91°38' 36.9"E
2	25°11' 11.4"N	91°38' 35.9"E
3	25°11' 12.6"N	91°38' 33.8"E
4	25°11' 17.4"N	91°38' 38.7"E
5	25°11' 15.3"N	91°38' 41.8"E

- The proposed mining area is on agreement as per deed of agreement executing on 18th December 2017 as certified by the Notary, East Khasi Hills District, Shillong. As per the Cluster certificate, vide letter No. DMR/MM/213/2018/1696 dated Shillong, the 21st Jan. 2020 issued by the Office of Director Mineral Resources, Meghalaya, Shillong, this project is in cluster with one approved mining plan of Shri Astraland Khylllep having area only 1.22 ha., making a total cluster area of 3.32 ha. i.e below 5 ha.
- The project proponent submitted the approved mining plan by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong vide letter memo No. DMR/MM/213/2018/587-A dated Shillong the 5th July 2019, the mineable reserve of limestone are 13,38,104 MT with 50,000 MT production target per annum taking the production as 178 TPD taking 280 as the average working days per annum. On this basis the anticipated life of the mine will be 26.7, say 27 years which fall within the parameter of the District survey report related to East Khasi Hills District.
- The mining will be done by opencast semi mechanized method loading and transport will be done by trucks/tippers. Hydraulic breakers for stone breaking. Drilling will be done for blasting the stone out of the strata. Manual/pneumatic hammering for stone breaking will also be done. Blasting of the shot holes will be done using explosive cartridges of size 25 mm x 200 mm and detonation of the charges will be carried out using detonators with safety fuse or by the use of exploder.
- As per project feasibility report submitted by the PP the project cost of Rs.68,00,000.00 and about 1.68 KLD water requirement will be met from nearby existing sources, Wah Umiam, located more than 600 m away from the mining area.
- The project proponent committed under Environment Management plan an amount of Rs.5,90,000 for Environmental Protection Measures such as monitoring of Atmospheric Air, Surface water, Noise levels (By External Agency), Soil Management, Greenbelt development and maintenance, Reclamation of degraded land, etc and Rs 1.40 lakhs means for occupational health and medical expenditure of employee.
- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda-1.6, the SEAC recommended for issue of EC to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification-

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2006 and its subsequent amendments, subject to strict compliance of the terms and conditions

- The Terms and Conditions shall be 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.
- Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, final EC shall be issued by the Member Secretary.

1. (7) EC Proposal No.SIA/ML/MIN/43588/2019 submitted by Banroilang Wahlang

- EC application vide proposal no. SIA/ML/MIN/43588/2019 dated 15 Mar 2020 seeking environment clearance under the provisions of the EIA Notification, 2006 for mining of Boulders, with an area of 1.12 hectare located at Kynrem, Mawlong Sirdarship, East Khasi Hills District, Meghalaya. The proposed project activity is listed at SL.No. 1(a) Mining of minerals, under Category "B2" of EIA Notification 2006.
- The land for the proposed boulder mining is on lease for 20 years which was executed on 10th December 2018 at Shillong as certified by the Notary Officer, East Khasi Hills District. It is a Non Forest Land, vide Divisional Forest Officer, East Khasi Hill & Ri Bhoi Territorial Division, Shillong, letter No.KH/9/NOC/Stone/41/Pt.V/6924 dated Shillong the 13th February 2019 and the boulder stone will be used for construction purposes. and hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. It is on toposheet Survey of India No.780/12 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25° 13' 21.89"N	91° 43' 09.20"E
2	25° 13' 23.90"N	91° 43' 10.22"E
3	25° 13' 23.36"N	91° 43' 11.79"E
4	25° 13' 20.14"N	91° 43' 15.48"E
5	25° 13' 19.86"N	91° 43' 12.22"E
6	25° 13' 21.20"N	91° 43' 10.47"E

- It is a standalone mine as per the Cluster certificate issued by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong, vide letter No.DMR/MM/39/2019/1712 dated Shillong the 21st January 2020, where it was mentioned that there is no approved mining plan located within 500 metres.
- The Mining Plan was approved by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong vide letter Memo No.DMR/MM/39/2019/275 dated Shillong, the 20th May 2019. As per the Mining Plan, boulder stone will be extracted at an annual rate of 45,000 MT with a project cost of Rs.23,00,000 and the operations will be open cast,

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semi-mechanized method of mining. Total geological reserve including safety barrier is 6,90,655 MT and the mineable reserves of boulder stone are of the order 4,72,757 MT but after leaving residual benches, the net total mineable reserves comes to 2,24,709 with a production target to 45000 MT of boulder stone per annum and taking 250 as the average number of working days per annum, the anticipated life of the quarry will be 4.99 years, say 5 years, fall within the parameter of the District survey report related to East Khasi Hills District.

- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda-1.3, the SEAC recommended for issue of EC to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification-2006 and its subsequent amendments, subject to strict compliance of the terms and conditions
- The Terms and Conditions shall be as stipulated in "Standard EC Conditions for Non-Coal mining sector" issued vide Ministry's OM No.22-24/2018-IA-III dtd. 08.01.2019.
- Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, final EC shall be issued by the Member Secretary.

1.(8) EC Proposal No SIA/ML/MIN/42917/2019 submitted by Alfreda Khylllep

- EC online application vide proposal no. SIA/ML/MIN/42917/2019 dated 04 Mar 2020 seeking environment clearance under the provisions of the EIA Notification, 2006 for the above mentioned project for mining of limestone for an area of 2.595 hectare located at Mawlong Village, Mawlong Sirdarship District- East Khasi Hills. The proposed project activity is listed at Sl.No. 1(a) Mining of minerals, under Category "B2 " of EIA Notification 2006.
- The Limestone will be used for construction purposes and for export to Bangladesh. It is a Non Forest Land, vide the Divisional Forest Officer, East Khasi Hill & RiBhoi Territorial Division, Shillongletter No.KH/8/NOC/ Lime Stone/ 41/Pt.IV/2710 dated Shillong the 19th July 2019.The proposed project is under toposheet Survey of India No.780/12 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

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Pillar No	Latitude	Longitude
1	25° 11'57.21"N	91°41'28.75"E
2	25° 11'57.79"N	91°41'26.80"E
3	25°11'57.64"N	91°41'22.70"E
4	25° 11'52.16"N	91°41'22.95"E
5	25° 11'52.67"N	91°41'28.37"E

- As per the Cluster certificate from the office of the Director of Mineral Resources, Government of Meghalaya, Shillong, vide letter No. DMR/MM/56/2019/, Dated Shillong, the 30th August 2019, this project is in cluster with mining area of Smt. Arbibora Chyne (mining of limestone for 2ha.) located within 500 metres. Hence the proposed mining area fall under cluster category with a total area of 4.595 hectare, which is less than 5 ha.
- The Mining Plan was approved vide letter Memo. No.DMR/MM/56/2019/842 dated Shillong, the 9th August 2019 As per the Mining Plan the total geological reserve 33,53,800 mt and total production in 5 years 3,66,500 tones and the peak production is 87,870 MT/annum with a project cost of Rs.16,50,000.00. The mineable reserve of limestone are 16,20,400 tones with the production in the period of mining plan will be around 3,66,500 tonnes in 5 years. Balance reserve: $1620400 - 366500 = 1253900$ tones with production targets is of 87870 tones. The balance reserves will sufficient for $1253900 / 87870 = 14.27$ years. Thus the total life of the mine is $5 + 14.27 = 19.27$ say 20 years fall within the parameter of the District survey report related to East Khasi Hills District.
- The mining will be done by opencast semi mechanized method and transport will be done by trucks/tippers. Hydraulic breakers for stone breaking. Drilling will be done for blasting the stone out of the strata. Manual/pneumatic hammering for stone breaking will also be done.
- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda - 1.4, the SEAC recommended for issue of EC to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification-2006 and its subsequent amendments, subject to strict compliance of the terms and conditions
- The Terms and Conditions shall be 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.

- Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, final EC shall be issued by the Member Secretary.

1. (9) EC Proposal No SIA/ML/MIN/38845/2019 submitted by Rocky Dhar

- EC online application vide proposal No.SIA/ML/MIN/38845/2019 dated 2nd March, 2020 seeking environment clearance under the provisions of the EIA Notification, 2006 for mining of boulder-stone, area of 2.0 hectare located at Mawlyngngad village, District- East Khasi Hills Meghalaya. The proposed project activity is listed at Sl. No. 1(a) Mining of minerals , under Category "B2 " of EIA Notification 2006.
- The boulder-stone will be used for construction purposes. The project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The applied area belongs to the Project Proponent as per registered Sale deed dated 20th May 2013. It is a Non Forest Land, vide Divisional Forest Officer, East Khasi Hill & Ri Bhoi Territorial Division, Shillong letter No.KH/9/NOC/ Stone/41/ Pt.V/4319 dated Shillong the 01st October 2018. It falls under toposheet Survey of India No.780/14 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25°32'14.64"N	91°55'32.16"E
2	25°32'16.01"N	91°55'34.43"E
3	25°32'16.19"N	91°55'35.98"E
4	25°32'13.81"N	91°55'40.40" E
5	25°32'12.84"N	91°55'39.68"E
6	25°32'12.01"N	91°55'37.96"E
7	25°32'11.80"N	91°55'35.33"E
8	25°32'12.62"N	91°55'33.53"E

- The applied area not fall under a cluster category as per a cluster certificate issued vide letter No. DMR/MM/40/2019/ 958 Dated Shillong, the 30th August 2019 by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong.
- The PP submitted a mining plan approved by the office of the Director of Mineral Resources, Government of Meghalaya, Shillong vide letter memo No.DMR/MM/40/2019/406 dated Shillong the 6th June 2019.As per the approved Mining Plan, the mineable reserve of boulder-stone are 14,80,530 tones with the rate of production per year is 1,00,320 tones, with the project cost of Rs.20,00,000.00.Thus the reserves are sufficient for 1480530/ 100320 = 14.75 years or say for 15 years fall within the parameter of the District survey report related to East Khasi Hills District.
- The mining will be done by opencast semi mechanized method and transport will be done by trucks/tippers. Hydraulic breakers for stone

breaking. Drilling will be done for blasting the stone out of the strata. Manual/pneumatic hammering for stonie breaking will also be done.

- The E.C. proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda 1.5, the SEAC recommended for issue of EC to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting,unanimously resolved to grant Environment Clearance to the project. Accordingly, Environmental Clearance is hereby accorded for the above project on recommendation of the SEAC and as per the EIA Notification- 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions
- The Terms and Conditions shall be as stipulated in "Standard EC Conditions for Non-Coal mining sector" issued vide Ministry's OM No.22-24/2018-IA-III dtd. 08.01.2019.
- Member Secretary to prepare a draft EC for this project and after the same is checked by all Members of the SEIAA for correction if any, final EC shall be issued by the Member Secretary.

Agenda 2 :Approval of Term of Reference (TOR)

2. (1). TOR Proposal No SIA/ML/MIN/49825/2020 submitted by Falguni Warisa

The salient features of the project submitted by the project proponent is available at Report under online proposal no. SIA/ML/MIN/49825/2020

Deliberation & observation :

- This has reference to online application vide proposal no. SIA/ ML/ MIN/ 49825/2020 dated 17 Jan 2020 submitted by Smt. F. Warisa, for Term of Reference for mining of boulder-stone for an area of 2.61 hectare at atUmduba, Raid Marwet District- Ri- Bhoi, Meghalaya. The PP submitted a Non Forest Land Certificate issued by the Divisional Forest Officer, East Khasi Hills & Ri Bhoi Territorial Division, Shillong vide letter No.KH/9/ NOC/ Stone/41/ Pt.V/514, dated Shillong, the 02 nd May 2019. It is under toposheet Survey of India No 78N/16 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	26°03'42.69"N	91°49'34.94"E
2	26°03'40.75"N	91°49'34.13"E
3	26°03'40.65"N	91°49'31.20"E

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4	26°03'41.53"N	91°49'28.15"E
5	26°03'44.02"N	91°49'25.30"E
6	26°03'46.18"N	91°49'26.37"E
7	26°03'45.57"N	91°49'30.23"E
8	26°03'44.14"N	91°49'31.26"E
9	26°03'43.06"N	91°49'33.30"E

- The proposal is for mining of boulder stone use for construction purposes. PP submitted that the total geological reserve 36,55,260 MT and total production in 5 years 12,72,900 MT and peak production of 2,80,260 MT/annum. The mineable reserves of boulder stone are of the order of 1655400 tons with the production period as per mining plan will be around 1272900 tons in 5 years. The balance reserve 1655400-1272900 = 382500 tons with production target of 280260 tons. The balance reserves will sufficient for $382500/280260 = 1.36$ years. Thus the total life of the mine is $5+1.36 = 6.36$ years with a project cost of Rs.24,50,000.00
- The project proponent has obtained a Cluster certificate from the office of the Director, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/45/2019/1122 dated Shillong, the 24th September 2019 where it mentioned that 9(nine) approved mining plan of different project proponents located within 500 metres radius of this project. Hence this proposal falls under cluster category with a total cluster area of 24.99 ha. i.e. more than 5 ha. Therefore, as per Ministry of Environment, Forest and Climate Change MoEF& CC vide O.M. No.L-11011/175/2018-IA-II(M) dated 12.12.2018, relating to compliance to Hon'ble National Green Tribunal Order dated 13th September 2018 in O.A. No. 186 of 2016 (Satendra PandeyVs Ministry of Environment, Forest & Climate Change &Anr. and read with Notification No.S.O.3977(E) dated New Delhi, the 14th August 2018, Term of Reference (TOR) is required for this project
- The TOR proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda No. 3.1, the SEAC recommended a TOR in standard format to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously approved Standard Terms of Reference (sTOR) as recommended by the SEAC as a TOR to the project.
- Member Secretary to take necessary action.

2.(2) : TOR Proposal No SIA/ML/MIN/49844/2020 submitted by Promilla R Marak.

- The salient features of the project submitted by the project proponent is available at Report under online proposal no. SIA/ML/MIN/49844/2020

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DELIBERATION & OBSERVATION IN THE MEETING :

- The Project Proponent Smt. Promilla R Marak, submitted online application vide proposal No.SIA/ML/MIN/49844/2020 dated 30th Jan. 2020 for Term of Reference for mining of boulderstone for an area of 1.33 hectare, located at Near Village Maraka Chiring, Manggapara P.O.- Zekabari District- West Garo Hills, Meghalaya. The boulders will be used for construction purposes. Hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. It is a Non Forest Land, vide Divisional Forest Officer, West and South West Garo Territorial Division, Tura letter No.B/16/VII/ NOC/ MMMCR/ 5622-24 dated Tura 24th November 2019. It falls under toposheet Survey of India No 78K/2 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25°36'42.97"N	90°01'06.66"E
2	25°36'43.97"N	90°01'03.73"E
3	25°36'47.43"N	90°01'06.44"E
4	25°36'46.13"N	90°01'08.35"E

- The project proponent a project cost of Rs.20,00,000.00. Total geological reserve 12,76,790MT with mineable reserves of boulder-stone are of 7,52,900 tons with the target production of 5,35,920 tones in 5 years. The balance reserves is $752900 - 535920 = 2,16,980$ tones with production target of 1,27,250 tones. The balance reserves will sufficient for $216980/127250=1.7$ years. Thus the total life of the mine is $5+1.7= 6.7$ say 7 years. Boulder stone in the Mine area is to be excavated by conventional method of opencast mining through the formation of safe benches which will be semi mechanized and on single shift basis. Benches are to be formed and worked in a topto downward manner. Because of presence of hard rock mass, drilling for blasting is to be performed for loosening of the rock mass. The rock will be mostly excavated and broken by hydraulic excavators and rock breakers respectively.
- The project proponent has obtained a Cluster certificate from the office of the Divisional Mining Officer, East Garo Hills Williamnagar, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMO-W/MP/15/2019/103 dated Williamnagar, the 25th September 2019 where it mentioned that 5(five) approved mining plan of different project proponents located within 500 metres radius of this project. Hence the applied mining area fall under cluster category with a total cluster area of 5.53 hectare. Therefore, as per Ministry of Environment, Forest and Climate Change MoEF&CC vide O.M.No.L-11011/175/2018-IA-II (M) dated 12.12.2018, relating to compliance to Hon'ble National Green Tribunal Order dated 13th September 2018 in O.A. No. 186 of 2016 (Satendra Pandey Vs Ministry of Environment, Forest & Climate Change & Anr. and read with Notification No.S.O.3977(E) dated New Delhi, the 14th August 2018, Term of Reference (TOR) is required for this project
- The TOR proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of

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the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda No. 3.3, the SEAC recommended a TOR in standard format to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously approved Standard Terms of Reference (sTOR) as recommended by the SEAC as a TOR to the project.
- Member Secretary to take necessary action.

2. (3) TOR Proposal No SIA/ML/MIN/52732/2020 submitted by Arjust Nongtraw

The salient features of the project submitted by the project proponent is available at Report under online proposal no. **SIA/ML/MIN/52732/2020**

DELIBERATION & OBSERVATION IN THE MEETING :

- The Project Proponent Shri. Arjust Nongtraw, submitted online application vide proposal No.SIA/ML/MIN/52732/2020 dated 1st May,2020 for Term of Reference for mining of limestone for an area of 0.7162 hectare, located at Khlieh Parmaw, Tyngwai Area, East Khasi Hills District, Meghalaya. The limestone will be used for construction purposes. Hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006.It is a Non Forest Land, vide Divisional Forest Officer, East Khasi Hills and RiBhoi Territorial Division, Shillong letter No.KH/8/NOC/Limestone/41/Pt.IV/6170 dated Shillong, the 11th January 2019 .It falls under toposheet Survey of India No 780/12 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25°10'39.5"N	91°43'20.1"E
2	25°10'41.2"N	91°43'19.9"E
3	25°10'43.4"N	91°43'20.5"E
4	25°10'42.8"N	91°43'22.6"E
5	25°10'40.8"N	91°43'22.0"E
6	25°10'38.8"N	91°43'21.7"E

- The approved Mining Plan and Progressive Mine Closure Plan from Directorate of Mineral Resources, Meghalaya vide letter No.DMR/MM/21/2019/2019/01-A, dated Shillong, the 3rd April 2019.The Mining plan has been prepared to extract limestone deposits at an annual rate of 50,000 MT. The mine has been planned for a production of 200 TPD and the mine working will be based on open cast, semi-mechanized method of mining. The project cost of Rs70 lakhs. Total geological reserve 6,01,075MT with mineable reserves of limestone of 4,19,941 tons with the target

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production of 50000 MT per year and taking 250 as average number of working days per annum, the anticipated life of the mine will be 4.01 years say 4 years.

- The project proponent has obtained a cluster certificate from the office of the Director, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/21/2019/1536 dated Shillong the 6th December 2019 where it mentioned that 2(two) approved mining plan of different project proponent located within 500 metres. Therefore, as per Ministry of Environment, Forest and Climate Change MoEF&CC vide O.M.No.L-11011/175/2018-IA-II (M) dated 12.12.2018, relating to compliance to Hon'ble National Green Tribunal Order dated 13th September 2018 in O.A. No. 186 of 2016 (Satendra Pandey Vs Ministry of Environment, Forest & Climate Change & Anr. and read with Notification No.S.O.3977(E) dated New Delhi, the 14th August 2018, Term of Reference (TOR) is required for this project
- The TOR proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda No. 3.6, the SEAC recommended a TOR in standard format to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously approved Standard Terms of Reference (sTOR) as recommended by the SEAC as a TOR to the project.
- Member Secretary to take necessary action.

2.4)TOR Proposal No No.SIA/ML/MIN/52741/2020submitted by Pirtimai L Synrem

The salient features of the project submitted by the project proponent is available at Report under online proposal no. **SIA/ML/MIN/52741/2020**

DELIBERATION& OBSERVATION IN THE MEETING :

- No.SIA/ML/MIN/52741/2020 dated 1st May,2020 for Term of Reference for mining of limestone for anarea of 2.449 hectare located RiLaingut, Tyngwai Area, Sohbar Sirdarshhip & East Khasi Hills District submitted by Mrs. Pirtimai. The limestone will be used for construction purposes. Hence the project fall under Schedule 1(a) of category B2 of EIANotification 2006. It is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills and Ri Bhoi Territorial Division, Shillong vide letterNo.KH/8/NOC/Limestone/41/Pt.III/10309-8 dated Shillong, the 16th Jan 2018 It falls under toposheet Survey of India No 780/12 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

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Pillar No	Latitude	Longitude
1	25°11'26.82"N	91°44'49.39"E
2	25°11'26.50"N	91°44'50.55"E
3	25°11'26.20"N	91°44'51.28"E
4	25°11'25.95"N	91°44'52.07"E
5	25°11'23.59"N	91°44'53.49"E
6	25°11'21.35"N	91°44'53.24"E
7	25°11'18.56"N	91°44'52.48"E
8	25°11'18.18"N	91°44'50.05"E
9	25°11'19.88"N	91°44'49.51"E
10	25°11'22.25"N	91°44'49.70"E
11	25°11'24.29"N	91°44'49.13"E
12	25°11'26.13"N	91°44'48.23"E

- The PP submitted the approved Mining Plan and Progressive Mine Closure Plan from the Directorate of Mineral Resources, Meghalaya vide letter No. DMR/MM/239 /2018/2145-A, dated Shillong, the 19th March 2019. She had been mining on this area till a ban on mining activities has been imposed in the state on mines without valid License from the competent authority. The mine has been planned for a production of 50,000 TPD and the mine working will be based on opencast, semi-mechanized method of mining. The project cost of Rs.29.87 Lakhs. Boulder stone in the Mine area is to be excavated by conventional method of opencast mining through the formation of safe benches which will be semi mechanized and on single shift basis. Benches are to be formed and worked in a top to downward manner. Because of presence of hard rock mass, drilling for blasting is to be performed for loosening of the rock mass. The rock will be mostly excavated and broken by hydraulic excavators and rock breakers respectively.
- The project proponent has obtained a Cluster certificate from the office of the Director, Directorate of Mineral Resources, Government of Meghalaya, vide letter No. DMR/MM/ 239/2018/1746 dated Shillong, the 22nd January 2020 where it was mentioned that 4(four) approved mining plan of different project proponents located within 500 metres. Hence the applied mining area fall under cluster category with a total cluster area of 13.464 hectare. Therefore, as per Ministry of Environment, Forest and Climate Change MoEF&CC vide O.M.No.L-11011/175/2018-IA-II (M) dated 12.12.2018, relating to compliance to Hon'ble National Green Tribunal Order dated 13th September 2018 in O.A. No. 186 of 2016 (Satendra Pandey Vs Ministry of Environment, Forest & Climate Change & Anr. and read with Notification No.S.O.3977(E) dated New

TM

Delhi, the 14th August 2018, Term of Reference (TOR) is required for this project

- The TOR proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda No. 3.7, the SEAC recommended a TOR in standard format to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously approved Standard Terms of Reference (sTOR) as recommended by the SEAC as a TOR to the project.
- Member Secretary to take necessary action.

3. (5) TOR Proposal No SIA/ML/MIN/52917/2020 submitted by Arbibora Chyne.

The salient features of the project submitted by the project proponent is available at Report under online proposal no. **SIA/ML/MIN/52917/2020**

DELIBERATION & OBSERVATION IN THE MEETING :

- The Project Proponent Smt. Arbibora Chyne, submitted online application vide proposal No.SIA/ML/MIN/52917/2020 dated 27thApril,2020 for Term of Reference for mining of limestone for an area of 2 hectare, located at Mawlong Sohpieng, MawlongSirdarship East Khasi Hills District Meghalaya. The proposal is for mining of limestone use for construction purposes. Hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. It is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hill & Ri Bhoi Territorial Division, Shillong vide letter No.KH/8/NOC/limestone/41/Pt.IV/3357 dated Shillong the 03rd August 2018. It falls under toposheet Survey No.780/12 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No	Latitude	Longitude
1	25°11'34.7"N	91°41'39.1"E
2	2511'36.2"N	91°41'23.1"E
3	25°11'37.8"N	91°41'23.1"E
4	25°11'36.3"N	91°41'39.1"E

- The project proponentsubmitted that the Period of Mining Lease is of 7 years from the date of executing a lease with a project cost of

TOR

Rs.85.00 lakhs. The PP submitted approval of the Mining Plan and Progressive Mine Closure Plan from Department of Mineral Resources, Meghalaya vide letter no. DMR/MM/228/2018/2100-A dated Shillong, the 14/03/2019. The Mining plan has been prepared to extract limestone deposits at an annual rate of 70,000 MT. The mine has been planned for a production of 280 TPD and the mine working will be based on opencast, semi-mechanized method of mining. Total geological reserve 8,01,949 MT with mineable reserves of limestone of 5,90,501 mt with the target production of 70000 MT per annum taking 250 as the average number of working days per annum, the anticipated life of the mine will be 5.15 years say 6 years.

- The project proponent has obtained a Cluster certificate from the office of the Director, Directorate of Mineral Resources, Government of Meghalaya, vide letter No. DMR/MM/228/2018/1710 dated Shillong, the 21st January 2020 where it was mentioned that four approved mining plan of different project proponent located within 500 metres. Therefore, as per Ministry of Environment, Forest and Climate Change MoEF&CC vide O.M.No.L-11011/175/2018-IA-II (M) dated 12.12.2018, relating to compliance to Hon'ble National Green Tribunal Order dated 13th September 2018 in O.A. No. 186 of 2016 (Satendra Pandey Vs Ministry of Environment, Forest & Climate Change & Anr. and read with Notification No.S.O.3977(E) dated New Delhi, the 14th August 2018, Term of Reference (TOR) is required for this project
- The TOR proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda No. 3.2, the SEAC recommended a TOR in standard format to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously approved Standard Terms of Reference (sTOR) as recommended by the SEAC as a TOR to the project.
- Member Secretary to take necessary action.

2.(6). TOR Proposal No SIA/ML/MIN/50779/2020 submitted by Kermiky Dkhar

The salient features of the project submitted by the project proponent is available at Report under online proposal no. SIA/ML/MIN/50779/2020

DELIBERATION & OBSERVATION IN THE MEETING :

- The Project Proponent Shri Kermiky Dkhar, submitted online application vide proposal No.SIA/ML/MIN/50779/2020 dated 13th Feb.,2020 for Term of Reference for mining of limestone for an area of 4.58 hectare. The

proposal is for mining of limestone use for construction purposes. Hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. The applied area located at Wahlathma, Lumshnong, District- East Jaintia Hills Meghalaya The proposed mining area is a Non Forest Land which was confirmed by the Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai vide letter No.JH/S.Quary/2009 10/476/B/1737 dated Jowai the 19th June 2019.It falls under toposheet Survey of India No. 83C/8 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates :

Pillar No.	Latitude	Longitude
1	25°09'50.3" N	92°22'02.0" E
2	25°09'49.7" N	92°22'01.8" E
3	25°09'49.5" N	92°22'01.7" E
4	25°09'49.3" N	92°22'01.6" E
5	25°09'48.7" N	92°22'01.4" E
6	25°09'48.3" N	92°22'01.5" E
7	25°09'47.8" N	92°22'01.4" E
8	25°09'45.9" N	92°22'00.7" E
9	25°09'45.1" N	92°21'59.8" E

10	25°09'44.8" N	92°21'59.7" E
11	25°09'44.6" N	92°21'59.3" E
12	25°09'44.3" N	92°21'58.7" E
13	25°09'43.0" N	92°21'58.7" E
14	25°09'42.6" N	92°21'59.5" E
15	25°09'42.4" N	92°21'59.6" E
16	25°09'42.2" N	92°21'59.7" E
17	25°09'41.8" N	92°21'59.2" E
18	25°09'39.7" N	92°21'58.0" E
19	25°09'39.6" N	92°21'56.5" E
20	25°09'39.7" N	92°21'55.5" E
21	25°09'40.1" N	92°21'54.6" E
22	25°09'41.0" N	92°21'54.5" E
23	25°09'41.7" N	92°21'52.3" E
24	25°09'43.3" N	92°21'52.5" E
25	25°09'45.1" N	92°21'54.6" E
26	25°09'46.0" N	92°21'56.4" E
27	25°09'46.9" N	92°21'57.2" E
28	25°09'48.6" N	92°21'57.2" E
29	25°09'49.3" N	92°21'57.4" E
30	25°09'50.1" N	92°21'57.0" E
31	25°09'50.43" N	92°21'57.1" E
32	25°09'50.4" N	92°21'58.1" E
33	25°09'50.7" N	92°22'00.0" E

TMB

- The project proponents submitted that the Period of Mining Lease is of 16 years from the date of executing lease with a project cost of Rs23,00,000.00. Total geological reserve 74,36,740MT with mineable reserves of limestone of 32,00,000 tons with the target production of 10,00,350 tons in 5 years. The balance reserves is 3200000-1000350=2199650 tones with production target of 200070 tones. The balance reserves will be sufficient for $2199650/200070=10.997$ years. Thus the total life of the mine is $5+10.99=15.99$ say 16 years. Limestone in the Mine area is to be excavated by conventional method of opencast mining through the formation of safe benches which will be semi mechanized and on single shift basis. Benches are to be formed and worked in a top to downward manner. Because of presence of hard rock mass, drilling for blasting is to be performed for loosening of the rock mass. The rock will be mostly excavated and broken by hydraulic excavators and rock breakers respectively.
- The project proponent has obtained a cluster certificate from the office of the Divisional Mining Officer West Jaintia Hills District vide letter No.DMO-J/23/MM/Mining Plan/2019/34 dated Jowai, the 19th September 2019 where it is mentioned that two approved mining plans are located within 500 metres. Hence the applied mining area falls under cluster category with a total area of 12.053 hectare. Therefore, as per Ministry of Environment, Forest and Climate Change MoEF&CC vide O.M.No.L-11011/175/2018-IA-II (M) dated 12.12.2018, relating to compliance to Hon'ble National Green Tribunal Order dated 13th September 2018 in O.A. No. 186 of 2016 (Satendra Pandey Vs Ministry of Environment, Forest & Climate Change & Anr. and read with Notification No.S.O.3977(E) dated New Delhi, the 14th August 2018, Term of Reference (TOR) is required for this project
- The TOR proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda No. 3.6, the SEAC recommended a TOR in standard format to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously approved Standard Terms of Reference (sTOR) as recommended by the SEAC as a TOR to the project.
- Member Secretary to take necessary action.

2.(7) . TOR Proposal No SIA/ML/MIN/50656/2020 submitted by Narsen Mawa

The salient features of the project submitted by the project proponent is available at Report under online proposal no. **SIA/ML/MIN/50656/2020**

DELIBERATION & OBSERVATION IN THE MEETING :

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- The Project Proponent Shri Narsen Mawa, submitted online application vide proposal No.SIA/ML/MIN/50656/2020 dated 04th Feb.2020 for Term of Reference for mining of limestone for an area of 3.5 hectare, located at Temjalong, Wahlong Sirdarship, District- East Khasi hills, Meghalaya. The proposal is for mining of limestone use for construction purposes. Hence the project fall under Schedule 1(a) of category B2 of EIA Notification 2006. area is a Non Forest Land which was confirmed by the Divisional Forest Officer, East Khasi Hills and RiBhoi Territorial Division, Shillong vide letterNo.KH/8/NOC/Limestone/41/Pt.IV/ dated Shillong 2019.It fallsw under toposheet.Survey of India No.780/16 and as per the Non Forest Land Clearance Certificate, the approved Mining Plan, the Kml file and duly examined by SEAC, the site is within the following GPS Coordinates:

Pillar No	Latitude	Longitude
1	25°11'00.03"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 project proponent submitted that the Period of Mining Lease is of 15 years from the date of executing a lease with a project cost of Rs.17,50,000.00. Total geological reserve 50,52,370 MT with mineable reserves of limestone of 27,98,600 tons and the target production of 8,27,620 tones in 5 years. The balance reserves is 2798600-827620 = 1970980 tones with production target of 1,98,450 tones. The balance reserves will sufficient for 1970980/198450=9.93 years. Thus the total life of the mine is 5+9.93=14.93 or 15 years. Limestone in the Mine area is to be excavated by conventional method of opencast mining through the formation of safe benches which will be semi-mechanized and on single shift basis. Benches are to be formed and worked in a top to downward manner. Because of presence of hard rock mass, drilling for blasting is to be performed for loosening of the rock mass. The rock will be mostly excavated and broken by hydraulic excavators and rock breakers respectively.. The project proponent has obtained a cluster certificate from the office of the Director, Directorate of Mineral Resources, Government of Meghalaya, vide letter No.DMR/MM/55/2019/1121 dated Shillong the 24th September where it mentioned that 5(five) approved mining plan of different project proponent located within 500 metres. Hence the applied mining area fall under cluster category with a total area of 14.7091 hectare. Therefore, as per Ministry of Environment, Forest and Climate Change MoEF&CC vide O.M.No.L-11011/175/2018-IA-II (M) dated 12.12.2018, relating to compliance to Hon'ble National Green Tribunal Order dated 13th September 2018 in O.A. No. 186 of 2016 (Satendra Pandey Vs Ministry of Environment, Forest & Climate Change &Anr. and read with Notification No.S.O.3977(E)

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dated New Delhi, the 14th August 2018, Term of Reference (TOR) is required for this project

- The TOR proposal above was deliberated by the State Expert Appraisal Committee in its meeting held from 26th to 28th May, 2020. The Minutes of the SEAC's Meeting was uploaded on 05th June, 2020 and as per the Agenda No. 3.6, the SEAC recommended a TOR in standard format to this project.

RECOMMENDATION :

- The State Environment Impact Assessment Authority, Meghalaya, in its meeting held on 09th June, 2020 noted the recommendation in the above said SEAC's Minutes relating to this project and accepted the recommendation of the SEAC. Then the SEIAA in the said Meeting, unanimously approved Standard Terms of Reference (sTOR) as recommended by the SEAC as a TOR to the project.
- Member Secretary to take necessary action.

The Meeting ended with a Vote of thank from the Chair.


Chairman, SEIAA, Meghalaya

Memo.No.ML/SEIAA/Meeting/Vol.II/06/2020/27-A

Dated. Shillong, the 16th June, 2020

Copy to :

1. The Member, SEIAA, Meghalaya for information.
2. Concerned Project files for record.

Member Secretary, SEIAA, Meghalaya