EXECUTIVE SUMMARY

The project has been proposed for Mining of Lime Stone from the Private Land occupied by the lessee by open cast semi-mechanized method. Mining will be confined to the allotted lease area which lies in

Lessee/applicant	Area (Ha)	Location	Lessee Address	Type of property
Shri Sunshine Laloo	4.00	Village- Khonjoy, District-South West Khasi Hills, Meghalaya	Village-Mawblei Block B, Madanriting District- East Khasi Hills, Meghalaya	Private

The proposed project is an opencast semi-mechanized mining project, where mining of Lime Stone will be done. Excavators shall be deployed for the removal of overburden & inter burden. Methods of mining will be open cast semi-mechanized with drilling and blasting. Mining will be confined to the allotted lease area located at- Khonjoy, District-South West Khasi Hills, Meghalaya from which a maximum of 2,04,920 tonnes per annum of lime stone will be excavated every year. Drilling and Blasting is proposed in this mining activity. Terms of Reference (ToR) for the proposed project has been granted by the SEIAA, Meghalaya vide its letter no. ML/SEIAA/MIN/P-2/2020/1053 Dated Shillong, the 30 April 2020.

Salient features of the project

1.	On Line Proposal No.	SIA/ML/MIN/49670/2020
2.	File No. Allotted By SEIAA, Meghalaya	ML/SEIAA/MIN/P-2/2020
3.	Name Of Proponent	Shri Sunshine Laloo

<table>
<tr><td>4.</td><td>Full Correspondence Address Of Proponent And Mobile Number</td><td>Mawblei Block B, Madanriting, Shillong,

District- East Khasi Hills, Meghalaya</td></tr>
<tr><td>5.</td><td>Name of Project</td><td>Lime Stone Mine</td></tr>
<tr><td>6.</td><td>Project Location (Plot/Khasra/Gata No.)</td><td>Village- Khonjoy, District-South West Khasi Hills, Meghalaya (Area: 4.00 ha.)</td></tr>
<tr><td>8.</td><td>Name Of Village</td><td>Khonjoy</td></tr>
<tr><td>9.</td><td>Tehsil</td><td>Ranikor</td></tr>
<tr><td>10.</td><td>District</td><td>South West Khasi Hills</td></tr>
<tr><td>11.</td><td>Name Of Minor Mineral</td><td>Lime Stone</td></tr>
<tr><td>12.</td><td>Sanctioned Lease Area In Ha</td><td>4.00 Ha</td></tr>
<tr><td>13.</td><td>Mineable Area In Ha</td><td>4.00 Ha</td></tr>
<tr><td>14.</td><td>Max. & Min mRL Within Lease Area</td><td>250 mRL to 238mRL</td></tr>
<tr><td>15.</td><td>Pillar Coordinates</td><td><table><tr><th>Pillar</th><th>Latitude</th><th>Longitude</th></tr><tr><td>A</td><td>25°12’52.54” N</td><td>91°03’45.63”E</td></tr><tr><td>B</td><td>25°12’48.13” N</td><td>91°03’50.92”E</td></tr><tr><td>C</td><td>25°12’52.76” N</td><td>91°03’56.00”E</td></tr><tr><td>D</td><td>25°12’57.12” N</td><td>91°03’50.69”E</td></tr></table></td></tr>
<tr><td>16.</td><td>Total Mineable Reserve</td><td>30,44,200 tons</td></tr>
<tr><td>17.</td><td>Proposed Production / Year</td><td>2,04,920 tons</td></tr>
<tr><td>18.</td><td>Sanctioned Period of LOI</td><td>30 years</td></tr>
<tr><td>19.</td><td>Production Of Mine/Day</td><td>677 tons</td></tr>
<tr><td>20.</td><td>Method of Mining</td><td>Open Cast Semi Mechanized with Drilling and Blasting</td></tr>
<tr><td>21.</td><td>No. of Working Days</td><td>300</td></tr>
<tr><td>22.</td><td>Working Hours/Day</td><td>08 hrs max, Day Time</td></tr>
<tr><td>23.</td><td>No. of Workers</td><td>44</td></tr>
</table>

24.	No. of VehiclesMovement/Day	4 Dumpers.
25.	Type Of Land	Private Land
26.	Max Depth of Mining	185 mRL
27.	Nearest Metalled Road from Site	610 meters, W
28.	Water Requirement	Total water requirement is about 5 KLD = 2.5 KLD (Drinking & Domestic Uses) + 2.5 KLD (Dust Suppression).
29.	Name of the QCI Accredited Consultant With QCI No. And Period Of Validity	GEOGREEN ENVIRO HOUSE PVT LTD, LUCKNOW NABET/EIA/1720/IA0023 Extended 8 October 2020.
30.	Any Litigation Pending Against The Project Or Land In Any Court.	No
31.	Proposed CER Cost	240000/-
32.	Propose EMP Cost	1159000/-
33.	No. of trees to be planted	300 Saplings

The baseline data was collected for the winter season i.e. December 2019 to February 2020 in the 10 km study area. The maximum value for $PM_{2.5}$ was observed, 44.60 $\mu g/m^3$ at the project site (AQ1) while 24 hours applicable limit is 60$\mu g/m^3$ for industrial and mixed use areas. The area observes average $PM_{2.5}$ concentration in the range of 35.4-44.60 $\mu g/m^3$. The maximum value for PM_{10} was observed as 89.4 $\mu g/m^3$ at project site (AQ1) while 24 hours applicable limit is 100$\mu g/m^3$ for industrial and mixed use areas. The area observes average PM_{10} concentration in the range of 78.60-89.4 $\mu g/m^3$ The maximum value for **SO_2** was observed, as 17.8 $\mu g/m^3$ at project site (AQ3) while 24 hours applicable limit is 80$\mu g/m^3$ for industrial and mixed use areas. The average **SO_2**concentration is 13.60-17.80$\mu g/m^3$.

The maximum value for **NO_2**was observed, as 27.8 $\mu g/m^3$ at project site (AQ1) while 24 hours applicable limit is 80$\mu g/m^3$ for industrial and mixed use areas. The area observes average

NO_2concentration in the range of 20.2-27.8 µg/m^3 .All the villages have observed value well under the prescribed limit.The maximum value for **CO** was observed, as 500 µg/m^3at project site (AQ1) while 08 hours applicable limit is 2000µg/$m^3$for industrial and mixed use areas. The area observes average **CO**concentration in the range of 458-500 µg/m^3 with the lowest concentration recorded at (AQ1)..All the villages have observed value well under the prescribed limit.

Environmental Management Plan (EMP)

Proper environmental management plan is proposed for "Lime Stone" mining project to mitigate the impact during the mining operation.

- No labour camps will be established on site.
- No cooking, or burning of woods will be allowed in the nearby area.
- Prior to commencement of mining, a short awareness program will be conducted for labours to make them aware of way of working and various precautions to be taken while at work. Such program will be repeated occasionally.
- In the event of any some causality or injury to any animal occurs, proper treatment will be given.
- No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed.
- Corridor movement of wild animals, if exists mining operations will be avoided in the area.
- It will be ensured that noise produced due to vehicles movement while carrying stone is within the permissible noise level.
- No piling of Stone will be done in adjoining area.
- If wild animals are noticed crossing the area, they will not be disturbed or chased away, instead the labors will move away from their path.

Environment Monitoring Program

S.No.	Activity	Schedule
Air Pollution Monitoring		
1.	Ambient air monitoring of parameters specified by MoEF (PM_{10}, SO_2& No_2).	Twice in a Year except monsoon
Water Quality Monitoring		

S.No.	Activity	Schedule
2.	Monitoring water quality surface water from the river	Twice in a Year except monsoon
3.	Monitoring of one sample of tube well and open well at mine / nearby location. Parameters are essential parameters as per IS: 10500:1991.	Twice in a Year except monsoon
4.	Monitoring of water spray requirements	Log-sheet of water spray will be maintained on daily basis
Noise Quality Monitoring		
5.	Noise in the ambient atmosphere in mining lease	Twice in a Year except monsoon
Greenbelt Maintenance		
6.	Monitoring schedule for Greenbelt development as per mining plan	Yearly
Soil Quality Monitoring		
7.	Soil at six locations	Twice in a Year except monsoon

The proposed project is expected to provide employment to local people in different activities such as mining, sizing (sieving) transportation and plantation activities. The revenue generated from the production and sale of mineral will also add to the exchequer of government, which in turn will help in the growth of state economy. Excavated material will cater the huge increasing demand of mineral in the fast-growing construction industry of Meghalaya and nearby states etc. The project is not expected to have any major adverse impact on the environment and whatever impacts are anticipated during the EIA study will be minimized with the help of suitable mitigation measures.