Ka jingtip heiyatoh wa ka

Jaiñtia Stone Mine (Wow tip ki paidbah)

Ya kawa daw pynman:

Ha Chnnong Lumshnong

District – East Jaiñtia Hills

Meghalaya

I thaw wow chim wai heh i: 4.20 Ha.

Ka karkhana wa pyndap Pyrtuid:

Jaintia Mining EnterpriseAddress:

Panaliar, P.O.: Jowai

District: West Jaiñtia Hills, State: Meghalaya

EIA Consultant Organisation

Novomine India Private Limited

NABET Category 'A' Certified Organisation [Sector 1 (a) (i)] Vide Certificate No. *NABET/EIA/2326/IA 0124*

FOR JAINTIA STONE MINE LOCATED AT LUMSHNONG VILLAGE, EAST JAINTIA HILLS DISTRICT, STATE-MEGHALAYA (AREA – 4.20 HA)

PROJECT PROPONENT: JAINTIA MINING ENTERPRISE

EXECUTIVE SUMMARY

1. Khajiak heiyatoh wa ini i jingkrehkaam:

Ka Jaintia Mining Enterprise, da yoh ko ya ka mining lease wow tih moochuni na Lumshnong, East Jaintia Hills District, lyngba ka chithi Meghalaya. Letter of Intent (LoI) kawa da e da ka sorkar jylla Meghalaya lyngab ka Letter No. JH/Y.P/ML/LS/2022- 23/4.20 ha/B/493-94, Dated 27/06/2022 ha i tahw wa heh kamwa 4.20 ha (Refer Annex II). Katkam ka chithi MFG.39/NLFC/MINING/MMMCR/2016/JH/2622 Dated 04/01/2022 wa da e da u Divisional Forest Officer, Jaintia Hills Territorial Division, Jowai, Department of Forests and Environment, Government of Meghalaya, heiwa kani ka project em ko hapoh I thaw wym em khlo namo Non-forest Land (Refer Annex III). Heiwa ka Mining Plan u man ko katkam ka juk ka stat science wa katni namo ka Progressive Mine Closure Plan kwa da ebor da u Divisional Mining Officer, Directorate of Mineral Resources, Meghalaya, Jowai vide letter No. DMO-J/82/MM/Mining Plan/2023-24/01 kawa em ka tarik 02/05/2023 (Refer Annex IV). Heiwa da pdiang ya ka Mining Plan, wei ya ki bynta wow pynkrehkaam ya kani ka project da yoh na u Divisional Mining Officer, Directorate of Mineral Resources, Jowai lyngba ka Vide Letter No. DMO-J/82/MM/Mining Plan/2023-2024/02 wa em ha ka tarik 02/05/2023 (Refer Annex VI). Ka Cluster Certificate, wa em 3 bynta kiwi ki project namo ki tahw tih moo (mines) kiwa heh 10.336 ha jngai ki 500m na I thaw wa toh u tih moochuni da kani ka karkhana katkam kani ka project.

Kani ka project hap ko hapoh ka kyrdan 'B2' Category neidaw wa i thaw who tih moochuni heh i 4.20 Ha). Wei katkam ka O.M. Vide **F. No. L-11011/175/2018-IA-II (M) Dated 12th December, 2018 da klam che wa** lada i thaw wow tih heh i palat 5 ha, daw emkaam ya ka EIA/EMP chwa wow yoh ya ka Environmental Clearance. Kamte emkaam ya ka EIA/EMP Report ya kani ka project chwa wow yoh ya ka Environmental Clearance (EC).

Ka State Environment Impact Assessment Authority (SEIAA), Meghalaya da booh ko ya ki kyndon Terms of Reference (ToR) lyngab ka Letter No. ML/SEIAA/MIN/EJH/P-336/2023/757 dated 1st August 2023 to the applicant (Refer Annex I).

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2. I pyrtuid ka project wa I thaw wow em i:

Jaintia Mining Enterprise ka wow em ha Lumshnong, East Jaiñtia Hills District, Meghalaya.

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Table 1: Brief Description of Project

Particulars	Details			
	Project Co-ordinates			
	Points	Latitude	Longitude	
Constituted Minimal Constitute	1	25 ⁰ 10′35.89″ N	92 ⁰ 22′06.95″ E	
Sanctioned Mining Lease area	2	25 ⁰ 10′33.10″ N	92 ⁰ 22′03.47″ E	
coordinate of 4.20 ha	3	25 ⁰ 10′33.30″ N	92 ⁰ 22′02.43″ E	
	4	25 ⁰ 10′31.61″ N	92 ⁰ 22′02.04″ E	
	5	25 ⁰ 10′32.81″ N	92 ⁰ 21′56.10″ E	
	6	25 ⁰ 10′36.33″ N	92 ⁰ 21′58.56″ E	
	7	25 ⁰ 10′38.37″ N	92 ⁰ 21′59.90″ E	
	8	25 ⁰ 10′39.45″ N	92 ⁰ 22′02.36″ E	
	9	25 ⁰ 10′39.38″ N	92 ⁰ 22′05.12″ E	
	10	25 ⁰ 10′37.85″ N	92 ⁰ 22′05.31″ E	

Toposheet No.	8 ₃ C/8 (Restricted)
Total area	4.20Ha
Total Mineral Reserve	43,18,082 Tonnes
Mineable Proved Reserve	42,03,414 Tonnes
Average Annual Production	3,08,434 Tonnes
Production	

3. I rukom tih mooochuni katkam ka juk wa katni (MINING METHOD)

- U pynemkaam da ka Opencast Semi-mechanized Mining neibynta 5 snem neidaw wa u moochuni man u uwa boon wa uwa skah ha ini i thaw.
- Daw pynemkaam da ka kor Jack Hammer Drill Machine wow siam thlu kiwa kmai 39 mm hadooh 34 mm wei u pynpiah ya u mochuni ha ini i thaw daw pynkreh da ki bru.
- Wow pynpdung ya ki thlu toh ki wow jngai o.8m x 1.0 m talawiar soodong.
- Daw pynemkaam da ka Muffled Blasting wow pyntikna wow ym sied ki moo. U tih ya I khyndaw toh da ki puh-chilum.
- Daw bood ya ka Benching System wa 6m x 6m yow bood ya ki kyndon ka Metalliferous Mines Regulations, 1961.
- ➤ Ka Bench Slope Angle u pynneh ya i chariñ hapoh 45° donhi.

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PROJECT PROPONENT: JAINTIA MINING ENTERPRISE

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Iwa emkaam neibynta wow tih moochuni (Basic Requirements for the Project):

S. No.	Equipment	Capacity	Motive Power	No. of Machines
1	Excavators	o.6 cu. M	Diesel	4
2	Compressor	120 cfm	Diesel	11
3	Jackhammer Drill	-	Compressed Air	11
4	Tippers	10 MT	Diesel	9
5	Rock Breaker	-	Diesel	2
6	Water Tanker	-	Diesel	2

Ki mar wow pynemkaam (Raw Material Required):

Inputs	Approx. quantity	Basis		
High Speed Diesel Requirement				
Diesel	Diesel Small amount for operating mining equipment			
	Water Require	ment		
Water for Drinking and Domestic Purposes 1.5 KLD Water requirement for drinking & dom per person is 20 liters/day. There requirement is 70x20 = 1400 liter/ day 1.5 KLPD				
Dust Suppression & others	2.5 KLD	Length of Road (m) x Width of Road (m) x 1litre/m2 x 2times per day		
Water for green belt development	1.0 KLD	o.5 Liter per plant 2 times a day		

4. I bor pynmih moochuni (PRODUCTS AND CAPACITIES):

Ya u moochuni u tih na i tahw wa heh 4.20 Ha ha Lumshnong, Dist – EastJaintia Hills, Meghalaya.

I rukom pynkrehkaam toh katkam ka **Table 2** wei i rukom pynmih moochuni ha ki 5 snem da booh ha ka **Table 3**.

Table 2: Programme from Mining Lease Area

Considerations	Details
Total Lease area	4.20 ha
Total Mineable Reserves	4310882 Tonnes
Total Production for first 5 years	1699353 Tonnes

FOR JAINTIA STONE MINE LOCATED AT LUMSHNONG VILLAGE, EAST JAINTIA HILLS DISTRICT, STATE-MEGHALAYA (AREA -4.20~HA)

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Table 3: Production Programme for the next 5 Years

Year	Proposed Production in Tonnes		
1	286859		
2	302400		
3	315052		
4	367978		
5	427064		
Total	1699353		

5. Wow yada ya ka mariang (ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES)

Daw bood ya ki kyndon ka MMDR Act-1957, MMR-1961, Mine Act-1952, Mines Rules-1955, MMMCR-2016 khnang wow lait ini i tih moochui u ktah ya ki thaw wa em soodong sookun.

Da booh thong leh wow lait u chah ktah ka um, ka lyer, i khyndaw, ki mrad, wa i kamai ki bru.

Ya ini waroh da booh ha ka Table 4.

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Table 4: Description of Identifiable Impacts

S. No.	Aspects	Identification of Impacts	Mitigation/Minimizing Measures
Α	Land Environme	ent	
A.1	Land use & Land Cover	 Effect on productivity of land due to mining by loss of topsoil. Dust generation due to mining cause dust cover problems on the nearby vegetation. 	 To minimize the effect of mining plantation will be in done along the 7.5m boundary of the mine area and after the exhaustion of the pit whole area will be reclaimed into green cover. After the conceptual mining there will be a mine void which will be extensively planted. Mining operations will be confined strictly within the demarcated area. During Plan period some quantity of gritty soil will be removed and will be stacked in a specific stack-yard. It will be used for road maintenance and plantation. The dust generation due to the mining will be minimized by sprinkling of water through water sprinkler.
A-2	Soil Quality	The frequent movement of trucks on unpaved roads can result in soil compaction, reducing the infiltration rate and impeding the growth of deep-rooted plants to stagnation of succession.	 The movement of vehicles will be restricted to haul roads The roads that will be used for transportation of mined minerals are already constructed. The unpaved roads will be strengthened in order to minimizing the impact on soil quality.

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B-1	Air Ouglitur		
	Air Quality	 Exhaust from vehicle engines used for excavation and transporting. Fugitive dust generation during mining 	 Dust screens and water sprinklers are to be employed in mining operations to effectively mitigate the gusting dust. Regular water sprinkling in the mining area, haul roads and dumping site of gritty soil will be done to prevent dust emissions. Use of dust masks for workers in dust prone areas. Plantation will be carried out on approach roads and nearby villages. Transportation of mineral will be done in trucks covered with Tarpaulin to avoid fugitive dust emissions. Regular preventive maintenance of vehicles is conducted, and all transportation vehicles are required to carry a valid Pollution Under Control (PUC) certificate. No overloading of vehicles to be allowed to avoid any spillages. Periodic air quality monitoring will be carried out.
B-2	Noise Level	 Noise is generated by trucks /loaders in the mine lease area and the route of transportation. Blasting is another factor that increases noise levels momentarily. 	 Proper care and maintenance of the equipment will be carried out. The well-tuned vehicles will be used, Plantation will be taken up along the approach roads and nearby villages. The plantation minimizes propagation of noise and also arrests dust, Efficient traffic management will be done with speed limits and minimal use of horns, Ambient noise monitoring will be conducted regularly at the designated monitoring points Values of peak particle velocity will be maintained within the prescribed limit by DGMS, Sound- proof cabins to be used to negate adverse effects to the operator. All worker will be provided PPE. The maintenance of the excavators will be carried out as per manual & schedule, Proper free face will be maintained to

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	reduce noise and vibration.
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S. No.	Aspects	Identification of Impacts	Mitigation/Minimizing Measures
С	Water Environ	ment	
C-1	Water Quality	 Surface & ground water are two separate entities, so they must be regarded as such. However, there is an ever- increasing need for management of the two as they are part of an interrelated system. Impact on surface water bodies through indiscrete disposal of liquid waste and suspended solids carried by rainwater. 	 Mining will be done well above the ground water level. Water stored in the mined-out area will act as a water recharging source in the area (Positive impact on ground water). During the course of mining, rainwater in the form of surface runoff will be there during monsoon only. The accumulated rain water will partly be used for dust suppression, afforestation. The non-working pits/ excavated pits will be used as reservoir at the end of mine after securing the side walls. Conventional toilets will be provided for the workers.
D	Ecological Env	ironment	
D-1	Flora	 Fugitive emission from vehicle movement will form a layer in leaves thus reducing the gaseous exchange process. This ultimately affects the growth of plants. The construction of a new linear surface, such as a road, can create a new microclimate and alter physical conditions in the surrounding area. This change can impact plant mortality and the biological community, extending from the road edge to varying distances. 	 Use of dust screens and water sprinklers to minimise the effect of gusting dust. Plantation will be carried out on approach roads and nearby villages. Mineral transportation will be done in trucks covered with Tarpaulin to avoid fugitive dust emissions. Annual bio-monitoring will be conducted on plants to assess their exposure to vehicular pollution. This monitoring will involve evaluating the dust load accumulated on plant surfaces and determining the Air Pollution Tolerance Index (APTI) of the plants.
D-2	Fauna	 The operational activities such as population influx, transportation and noise generation may have an adverse impact on fauna. The presence of suitable roadside habitats for animals that rely on acoustic signals, like birds, presents a trade-off between habitat availability and 	 Efforts will be made to minimize the impact of mining activities on residential areas and crucial wildlife habitats by carefully planning the right-of-way (ROW). This involves avoiding the direct route through residential areas and important wildlife habitats such as rookeries, raptor nesting areas, and calving areas, to the extent possible.

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		the potential negative impacts of traffic noise and passing vehicles on their survival and breeding success	All equipment used in the mining operations will be equipped with sound-control devices that are as effective as the original equipment. Motorized equipment will be properly muffled and			
	T					
S. No.	Aspects	Identification of Impacts	Mitigation/Minimizing Measures			
			 maintained to ensure optimal noise control measures are in place. No mining will be carried out during the rainy season to minimize impact on aquatic life. 			
E	Solid Waste (<u></u>				
E-1	Domestic Waste	 Waste management is an important facet of environment management. Thus, solid waste management is important from both aesthetics & environmental viewpoints. 	 Food waste or any domestic waste will be collected in dustbins and will be properly disposed. Required no. of toilets will be provided on site 			
E-2	OB and Hazardous Waste	 OB generated due to mining is not hazardous. Hazardous waste generated will mainly be i) used Lub oil, ii) used batteries, iii) Used tires, etc. 	 The trucks will be tarpaulin covered so that there is minimal spillage. During the plan period 42797 MT soil will be removed dumped at South-Eastern side with suitable precaution. Few quantities of generated gritty soil would also be used for road maintenance and plantation. After exhaustion of mineable reserve quarry will be reclaimed to the extent possible. Inorganic waste such as wrappers, plastic waste, foils, etc. will be stored in blue bins and will be sold to recycler authorized by CPCB. 			
F	Social Environment					
F-1	Health	 For improving the socio-economic environment, proper CSR activities will be taken up in vicinity to uplift the condition of people. All workers will be subjected to medical examination as per Mines Rule 1955. 	 Awareness program will be conducted about likely occupational health hazards so as to have preventive action in place, Occupational Health and Safety (OHS) within the organization will be promoted and develop safer and healthier ways of working will be developed, Training of supervisors and workers on 			

health and safety practices and legislation will be conguette a g e

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Greenbelt development:

<u>Table 5: Year Wise Proposed Plantation Programme</u>

Sl. No.	Year of Plantation	Area for greenbelt in m ²	No. of plants	Location of Plantation
1	1 st	500	80	Safety Barrier Zone
2	2 nd	500	80	Safety Barrier Zone
3	3 rd	500	80	Safety Barrier Zone
4	4 th	500	80	Safety Barrier Zone
5	5 th	500	80	Safety Barrier Zone

6. ESTIMATED COST OF THE PROJECT:

Estimated EMP cost for the proposed project is as follows.

Table 6: EMP Cost

S. No.	Particulars	Capital Cost	Annual Recurring Cost
1.	Air pollution control (Dust Suppression along road, water sprinklers)	1,50,000	70,00
2.	Plantation & Maintenance	40,000	25,200
3.	Environmental Monitoring and Reclamation		1,00,000
4.	Maintenance of Settling Tank, Garland Drains etc.		80,000
5.	Personal Protective Equipment	50,000	40,000
6.	CER activity		1,20,000
	Total	2,40,000	4,35,200

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Table 7: CER Budget

S. No.	Activity	Total Cost (Rs.)	
1	Quarterly medical checkup camp will be organized for the villagers of the nearby villages of the applied area by a qualified Doctor (M.B.B.S.) for minimum 60 villagers @ Rs 10,000/- per quarter. Total 4 x 10,000/- = Rs 40,000/-	40,000	
2	To promote education by providing Books, Copies, School dresses to the nearby village school's needy students.	30,000	
3	Water supply & purification arrangement & Sanitation for local villagers.	22,500	
4	Maintenance & Construction of Village roads.	30,000	
	Total		

The project cost is Rs. 24.5 Lakhs. Corporate Environment Responsibility (CER) budget is Rs. 0.735 lakhs more than 2% of the project cost i.e. Rs 0.49 lakhs.

7. I man i long ka Mariang (BASELINE ENVIRONMENTAL DATA):

Ya ki jingkheiñ toh ha u September 2023 hadooh u November 2023. Ki jingkheiñ man ki kamni hawah:

Ka lyer namo Ambient Air Quality Results: Da chim sample na 5 tylli ki thaw wei iwa chem man ki kamni hawah:

Particulate Matter 10 (PM₁₀)

The results of PM10 of all locations are showing variations from 2 1 . 3 8 μ g/m³ to 28.52 μ g/m³.

Particulate Matter 2.5 (PM2.5)

The results of PM_{2.5} of all locations are showing variations from 27.38.5 μ g/m³ to 38.78 μ g/m³.

Gaseous Pollutants

The results of SO₂ of all locations are showing variations from 14.35 μ g/m³ to 16.12 μ g/m³. The results of NO₂ of all locations are showing variations from 16.58 μ g/m³ to 19.05 μ g/m³.

I ood I thai namo Noise Quality Results: da chim sample na 5 tylli ki thaw wei iwa chem man I kamni hawah:

The ambient noise level at day time varies from 45.8 dB (A) to 58.3 dB(A) and at night time

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noise levels vary from 35.3 dB (A) to 42.6 dB (A)

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I khooid ka um namo Water Quality Results: Da chim sample na 4 tylli ki thaw heiyatoh w aka um chapoh khyndaw namo ground water wa 4 tylli ki thaw wa chong wei mih ka um namo surface water sources wei da chem kamni:

Ground Water results: All results comply with the standard drinking water standards (IS: 10500).

<u>Surface Water results</u>: The surface water quality of the upstream and downstream points of two different rivers namely Seshympha and Wah Lukha is within the prescribed CPCB Water Quality Criteria Class of water.

I man I long I khyndaw namo Soil Quality Result: Da chim sample na ki 5 tylli ki thaw.

Da chem wa man I khyndaw iwa sboh wei iwa miat iwa ye u mih jingthung (Based on the provided data, it can be inferred that the soil in the study area has moderate fertility, indicated by sufficient levels of phosphorus and organic Carbon for plant growth and foliage development).

I man I long ki mrad wa kiwi (Ecology and Biodiversity Results):

I thaw wow pynkreh man iwa syllen. Heiwa da puræ bniah ya I thaw wa 10 km talawiar.

Ki manyung wa I kamai kajih (Socio Economic Condition):

Ym em wa chong was ah ha I thaw wow tih moo, wei em 22 tylli ki chnong kiwa tawiar ya ka buffer zone. Em 8757 ngut kiwa chong chnong wei 1854 tylli ki manyung. Ha kawi ka manyung em 5.5 ngut kiwa chong wa sah. Kiwa chong chnong toh ki Scheduled Tribes (ST) kwia em 98.13% katwa ki Scheduled Caste (SC) em ki 0.14%. I stat I tip man i 49.6% na kiwa chong chnong. Ki chynrang em 50.5%, kiwa stat wa tip wei 49.5% toh ki kynthai. Kiwa boon kiwa chong chnong toh kiwa im nei rep

Ya ini I jingkheiñ da chim leh n aka Census of India 2011 Report.

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9. Wow yada na iwon iwon I jingjia wym poi pyrkhat (IDENTIFICATION OF HAZARDS AND MITIGATION MEASURES):

Ya kini waroh da booh ha ka Table 8.

Table 8: Possible risks during mining and mitigation measures

Risks	Mitigation Measures	
Risks of inundation due to flash floods due to heavy rains during the rainy season	Limited mining will be done during the rainy season.	
Risks due to landslide	Avoid working near unstable high walls during rainy seasons.	
Risks due to slope failure	 Bench height and width will be maintained as per the approved Mine Plan so that slope of individual benches and overall safe pit slope be maintained. For determining factor of safety, the bench slopes will be monitored regularly by sensitive instruments at precise level at regular intervals to check for any possible ground movement. A well-developed drainage system over the lease hold area is to be ensured to check the water flow out of the lease area during rainy season. Adequate competent persons for carrying out statutory inspections will be deployed. Monitoring and supervision of active mine benches and also exhausted benches will be made mandatory. Inspection report of the benches with suggested corrective measures to be place before the higher management from time to time. 	
Risks of accident due to vehicular movement	 All transportation within the mining lease working will be carried out directly under the supervision and control of the management. The vehicles will be maintained in good condition and checked thoroughly at least once a month by the competent person. Road signs will be provided at each and every turning point up to the main road (wherever required). To avoid danger while reversing the equipment/ vehicles especially at the working place/loading points, stopper should be posted to properly guide reversing/spotting operating, otherwise no person should be there within 10m radius of machine. The maximum permissible speed limit shall be prescribed and ensured. Overloading of material will be avoided. 	

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	Unauthorized persons will not be allowed to ride on vehicles
•	Strict code of conduct will be put in place to avoid driving in
	intoxicated condition by drivers

Risks due to mineral loading, unloading and transportation/Use of machinery	 All the equipment deployed at the mine will be of highest standard All the loading and operating machines will have horns and proper maintenance of mining machinery shall be done Height of the bench will be maintained as per approved mining plan to avoid over hanging of rocks. The mineral will be loaded in trucks mechanically and in safe manner to avoid fly rocks Fencing of the mining area to prevent inadvertent entry of human and livestock. The complete mining operation will be carried out under the Management and control of experienced and qualified Mines Manager having Certificate of Competency to manage the mines granted by DGMS. All the provisions of Mines Act 1952, MMR 1961 and Mines Rules 1955, RMMCR 1986 and other laws applicable to mine will strictly be complied with. During heavy rainfall the mining activities will be discontinue. Strict code of conduct will be put in place so that no one goes near the moving part of machines for maintenance. Secured cabin will be provided to all operators to shield them from any
Risks due to drilling and blasting	 fly rocks. Drilling manual will be put in place which will have detailed procedure for shifting of drill machines and its operation Explosives will be stored in the Magazine approved by Controller of Explosives Burden and spacing will be kept as per the study conducted by the expert agency for designing the blasting parameters Misfires during blasting will be handled as per procedures laid down by DGMS Firing of the charged shot holes shall be done from proper blasting shelter. All the persons working in the mine will be provided safety shoes and helmet to prevent them from fly rock. Explosives will be used and handled under strict supervision of competent persons.
Risks of respiratory disorder due to fugitive emissions	 Regular water sprinkling will be done at dust generation points and on the haul road to control dust. Drilling and blasting shall be done with proper blast hole pattern to

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	minimise dust generation.
•	Secondary drilling and blasting will be kept bare minimum.
•	During loading and unloading workers involved in the activity will wear
	dust masks.
•	Load operator will have closed cabins.
•	Transportation of stones will be done in covered dumpers.

I yarap wa wut-wut (EMERGENCY PREPAREDNESS PLAN):

Daw bood ya ki kyndon ka Metalliferous Mines Regulations of 1961, kawa da kdaw che ya ki kyndon wow pyntikna wa ki kor wa ki rukom kreh man ki kiwa miat wa bha. Ka Disaster Management Plans leh da pynkhreh ya ki kamni hawah:

Plans for Disaster Management Onsite emergency planning:

An onsite emergency is caused by an accident or hazard that takes place within the plan area and the effects are confined to the plant area.

The onsite emergency plan consists of the following key elements:

- Planning as per hazard analysis
- Preventive measures
- Emergency response procedure
- Recovery procedure

An on-site plan shall be in place which includes the following:

- a. Regular safety audit/inspection
- b. Emergency Response team, its role and responsibility will be clearly defined to each team member
- c. Procedures for taking care of incidents/emergencies
- d. Mock drills are conducted at regular interval
- e. Assembly point will be clearly demarked
- f. Communication system/arrangement with administrative and regulatory agencies, media and public etc.
- g. Siren for declaring/closing emergency.
- h. Regular training on first aid and evacuation etc.

11. I pdiang ki paidbah namo ka PUBLIC CONSULTATION:

Ya I pynsñiaw padibah daw pyndep wei daw pynkhreh u e ya ka Draft EIA cha ki bor sorkar.

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12. Wow pynneh u yada ya I chait I khiah (Occupational Health Hazards and Mitigation):

Ki bynta ki bru wa ye u chah ktah man ki kamni hawah:

- Noise induced hearing losses
- Health impact due to diesel particulates from emission of diesel operated vehicles and equipment
- Hand-arm vibration, whole body vibration due to use of drills, HEMM etc.
- Presence of snakes and other reptiles in the mining area
- Polluted drinking water
- Excess working load and overtime
- Presence of mosquitoes in the lease area
- Sudden accident in the mining area causing personal injury.

Wow yada neini (Mitigation Measures):

Daw e ya ki PPE wcha kiwa kreh, waroh kwia kreh daw hap leh ki ya ka Initial Medical Examination katkam ka aiñ The Mines Rules of 1955 heipor wa thung kreh, Ki Medical Camp daw pynman neibynta kiwa kreh chisien chi snem. Hadien wa dep u tih moochuni daw leh ya ka medical test wow tip yei chait I khiah yong ki.

Table 9: Budget for Occupational Health

S. No.	Description	Amount (In Lakhs)
1	Workers will be subjected to primary health check-up before they are employed to ascertain their health conditions. Thereafter, Regular Medical check-up will be organized for workers & villagers to evaluate the adverse impact if any on these persons due to proposed mining activity.	0.40
2	Workers will be provided with PPE	0.90
3	First Aid facility and training to workers.	0.40
4	Insurance for workers	0.80
	Total	2.50

FOR JAINTIA STONE MINE LOCATED AT LUMSHNONG VILLAGE, EAST JAINTIA HILLS DISTRICT, STATE-MEGHALAYA (AREA -4.20~HA)

PROJECT PROPONENT: JAINTIA MINING ENTERPRISE

EXECUTIVE SUMMARY

13. Wow yada ya ka mariang (ENVIRONMENT MANAGEMENT PLAN):

An EMP is a site-specific plan developed to ensure that the project is implemented in an environmentally sustainable manner. An effective EMP should ensure the application of best practices for environmental management of a project. The purpose of an EMP is to:

- i. Assist Management to perform mining operations in an environment friendly way;
- ii. Improve the contribution of Management so that an EMP can be used effectively;
- iii. Ensure a minimum standard and consistent approach to the implementation of EMP;
- iv. Ensure that the commitments made as part of the project's EIA are implemented throughout the project life, and
- v. Ensure that environment management detail is captured and documented at all stages of a project.

14. POST PROJECT MONITORING PLAN:

Table 10: Location, Monitoring Schedule and Parameters

SI.	Description of	Location	Schedule and Duration of
No.	Parameters		Monitoring
Α	Air Quality (PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂) monitoring		
A-1	Five monitoring station	One within and four outside the project area covering upwind and downwind directions.	Will be monitored on a quarterly basis as per CPCB/ MoEF&CC Guidelines/ Notifications.
В	Quality of surface and gro	und water monitoring	
B-1	Four Surface Water Samples will be collected as per EIA Report and in	Up-stream (Two locations) Down-stream (Two locations)	Will be collected on a quarterly basis in accordance with the guidelines and
	consultation with SPCB.	2 0 111 0 11 0 111 (1 11 0 10 10 10 110 1	notifications provided by the
B-2	Four Ground Water Samples will be collected as per EIA Report and in consultation with SPCB.	One should be taken near the active working area and four within the study area.	CPCB and MoEF&CC
C	Ambient Noise Level monitoring		
C-1	Five monitoring station	One is at onsite and four within the study area covering approach road connected with main road.	Will be monitored on a monthly/quarterly basis as per CPCB/ MoEF&CC Guidelines/ Notifications.
D	Soil Quality monitoring		
D-1	Soil Samples will be collected from five locations.	Within the study area	Will be collected half-yearly as per CPCB/MoEF&CC Guidelines/Notifications