

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

KA JINGPYNBNA BAD KA JINGPYNKUT

1 KA JINGPYNITHUH:

Ka “Rusiar Limestone Mine” kaba don hajan shnong- Rusiar, Lynti Dkhar Sohbar, Sohbar Sirdarship, District- East Khasi hills, Meghalaya. Ka jaka ai wai baroh jong ka projek ka long 1.0 ha. Ia ka kam tih mawshun la pynlong/yn pynlong da ka rukom tih mawshun kaba la pyndonkam da ki mashin ba plie.

Ia ka kam jong ka projek la thoh ha ka mat 1(a) B1 Ka jingtih ia ki marpoh khyndew ha ka Schedule jong ka jingpynbna EIA, 2006 bad ki jingpynkylla hadien kata kum ka projek jong ka kyrdan “B1” bad kumta donkam ia ka jingpynbna shwa na ka liang ka mariang.

Hynrei, katkum ka jingpynbna EIA No. S. O. 3977 (E) jong ka 14 tarik u August’ 2018 na ka bynta ki projek tih syiap bad kiwei kiwei minor mineral ha ka jinglong iajan kiba don ia ka jaka ba iajan duh jong ki bad ka jaka ba la mang ban trei > 5 ha. bad < 25 ha. lada don ba khlem mining ba sha jan ba > 5 ha. kan hap hapoh ka kyrdan “B2” bad kam donkam ia ka jingbishar paidbah na ka bynta ban bishar bniah ia ka EC.

Katkum ka jingthoh jong ka ophis jong Ministry of Environment, Forest & Climate Change kaba la thoh ha ka 12 tarik u Nailur, 2018 “Lada ka jingia jan jong ki par mawshun ne kaba kawei kan palat ia ka 5 ha dei ban pynlong ia ka EIA/EMP ka dei kaba donkam khnang ban ioh jingbit ia ka Environmental Clearance”. Ka jingheh jong ki cluster baroh ka long 5.23 Ha.

KYRTENG JONG KA JAKA.

Ka jaka tih mawshun ka don ha shnong- Rusiar, Lynti Dkhar Sohbar, Sohbar Sirdarship, District- East Khasi Hills, Meghalaya. Ka jaka ba ai wai ban tih mawshun ka long 1.0 ha ryngkat ka jingtyrwa ban pynmih ia ka ROM kaba long 48,900 TPA of ROM (Mawshun- 44,025 TPA & Ki jaboh marpoh khyndew/Subgrade- 4,875 TPA).

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

KA JINGTIP SHAPHANG KA JAKA:

S.No.	Particulars	Details
1.	Kyrteng jong ka Project	Rusiar Limestone Mine
2.	Jaka	Rusiar, Lynti Dkhar area Sohbar, Sohbar Sirdarship, District-East Khasi Hills, Meghalaya
3.	Jing heh jong ka jaka na ka bynta kata ka project.	1.0 Ha.
4.	Jait Jaka	Private Land
5.	Ka jingpeit na ka liang ka jing Khynniuh u Jumai	Zone very high damage risk zone (MSKIX or more) category

2 KA JINGBATAI IA KA PROJEK.

Ha kaba sdang la mynjur ia ka shithi jingthmu (LOI) na ka bynta u mawshun, ka jingheh 1.0 hectare la ai ha Ka. Seisoh Syiemlieh da ka Ophis jong u Divisional Forest Officer Khasi Hills Division, Shillong lyngba ka shithi no. KH/8/ML/Limestone/2655 dated 30.08.2024.

Ka Mining Plan ba la mynjur mynta ryngkat bad ka PMCP da u Mining Engineer, Directorate of Mineral Resources Meghalaya: Shillong katkum ka hukum NO/DMR/MM/203/2024/04-A dated 27.11.2024.

Ka jaka ba lah ban tih ka long kumba 2,76,345 MT ban pynmih mawshun ha ka dor kaba 48,900 TPA jong ka ROM (Mawshun- 44,025 TPA & Mineral Waste/Subgrade- 4,875 TPA). Ia ki kam tih mawshun la/yn pynlong da ka rukom tih mawshun kaba la pyndonkam da ki mashin da kaba plie.

KA JINGPEIT BNIAH IA KA KHYNDEW:

Ka jingpeit bniah na ki trai shnong.

Ka jingbud ryntih jong ki maw ha ka jaka ba la mang ka long kumba la ai harum :-

Table 1 Regional Geology

Geological Age	Group Name	Formation Name	Rock Type
Recent	Newer Alluvium	Unclassified	Sand, Silt and Clay
-----UNCONFIRMITY-----			

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

Pleistocene	Older Alluvium	Unclassified	Sand, Clay, Pebble, Gravel and boulder deposits
-----UNCONFIRMITY-----			
Mio-Pliocene	Dupitula Group	Unclassified	Mottled Clays, Feldspathic sand stone and conglomerate.
-----UNCONFIRMITY-----			
Oligo-Miocene	Garop Group	Chengopara Formation Baghmara Formation Simsang Formation	Sand, Siltstone, Clay, Mart Feldspathic Sandstone, Pebble, Conglomerate, Clay, Silty Clay. Shale, Sandstone, Mart
Eocene	Jaintia Group	Kopili Formation Shella Formation Langpar Formation	Siltstone-sandstone alternations, sand Alternation of sandstone-lime stone Calcareous Shale, Sandstone, Limestone
Upper Cretaceous	Khasi Group	Mahadek Formation Bottom Conglomerate Formation Jadukata Formation	Arkose (glaucconitic) Conglomerate, Arkose Sandstone-Conglomerate alternation
-----UNCONFIRMITY-----			
Jurassic	Sylhet Trap	-	Basalt, alkali Basalt, Rhyolite acid tuff.
-----UNCONFIRMITY-----			

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

Pre- Cambrian	-	Intrusives (AcidandBasic) Shillong Group	Ponphyritic and coarse granites, aplite, quartz vein,epidiorite,dolerite, basalt Quartzite,Phyllite, Conglomerate
-----UNCONFIRMITY-----			
Archaean	-	Gneissic Complex	Biotite- gneiss, Biotite- Hornblendgneiss, granitic gneiss, Migmatite, mica- schist, sillimanite - quartz schist, biotite- granulite- amphibolites,pynoxene- granulite etc.

Source:-ApprovedMiningPlandated 27.11.2024

Local Geology:-

Table1(a): LocalGeology

GeologicalAge	Group Name	FormationName	RockType
Recent	Newer Alluvium	Unclassified	Sand, Silt and Clay

-----UNCONFIRMITY-----			
Eocene	Jaintia Group	Shella Formation	Limestone

Ka Jinglong Jongka Jaka

Ka jingkiew hapoh ka jaka ba la mang ka long 183 mRL ka jingkhian kaba heh tam haduh 141 mRL ka jingkhein kaba rit tam.

Ka jingtuid um ha ka jaka ba la ai wai ka long shaphang shathie. Ka jingtuid um kaba kyllum shabar jong ka jaka ka long la jan shaphang shathie da ki nalah ba neh slem. Ka jaka ka long kaba lum bad kaba don maw. Ym don jaka sah kaba don hapoh bad hajan ka jaka ba la ai wai.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

GEOLOGICAL AND MINEABLE RESERVES

Ki long harum: -

Table 2 UNFC Classification of mineral reserves

A) Total Mineral Reserves	Limestone (Tonnes)
Proved Mineral Reserves	2,76,345
Probable Mineral Reserves	0
Total Mineable Reserves	2,76,345
B) Total Remaining Resources	
Feasibility Mineral Resources	5,35,005
Pre-Feasible Mineral Resources	0
Inferred Mineral Resources	0
<i>Source: As per Approved Mining Plan alongwith PMCP Dated 27.11.2024.</i>	

Life of Mine	=Minable Reserves (Tonnes)/Average Production (Tonnes)
	=6.28 or Say 7 years

MINING KA RUKOM TIH IA U MARPOHKHYNDEW:

Ka rukom tih ia u maw kan long da kaba shu khlong ia ka khyndew da ki kor ki bor bad sa kaba shu ksam shapoh bad pynpait ia u maw. Ka jingpyntreikam kan long kat kum ka Mining Plan ba la ioh jingbit bad PMCP ka dei:-

- Ka jingpynbthei ka hap ban/kan long da ki thliw kiba lyngkot ne kiba jrong da kaba kat kum ka kyndon jong ka DGMS .
- Ka jingjrong bad jingheh jong ka ben la pynneh/yn pynneh kum 6 meter kawei kawei da kaba pyrkhat ia ka jingpynlong jong ki mashin.
- Ha ka por jong kane ka Mining Scheme u nongshim wai un pynshna ia hynriew tylli ki ben i.e. Na ki kyrdan Bench 171 mRL (ba hajrong duh), 165 mRL, 159 mRL, 153 mRL, 147 mRL, 141 mRL (ba hapoh duh)
- Ka ranad jong ka ben kan long 85°. Ka jingkit marpoh khyndew ka long beit na ki thliw ne na ka jaka buh marpoh khyndew ba shipor.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

- Ka khyndew kaba lah ban wan ha ka por tih maw ha ki jaka ne ha ki thliew la/yn sa khleh bad buh kyrpang ban pyndonkam na ka bynta ban thung ha man la ka por tlang.
- Ia ki jaboh marpoh khyndew la/yn bret ha ka liang South-West (SW) jong ka jaka ba la ai wai hajan u mawpud ‘2’ ha ka jaka kaba 0.01 ha na ka bynta 6 meter ka jingjrung ha ki ar tylli ki terrace kiba jrung 3 meter kawei kawei.
- La pynbiang ia ki nala um ba don ki kynroh parapet bad yn kdew sawdong ka thliew ban peit ia ka jingrung jong ka um kaba tuid ha ka por tlang sha ka thliew trei.
- Ki jingshakri ha ka jaka kum ka ophis jong ka jaka, ka tank um, ka jaka trei, ka kamra bam, ka kamra shet bad kiwei kiwei la dep pynbiang bad yn pynneh pynsah hajan ka jaka tih parmaw ha ka jaka jong u nongshim wai hi.

KA JINGTIP SHAPHANG KA JINGLAH BAN PYNMIH.

Ka jingpynmih ia u mar katkum ka snem na ka bynta san snem kan iaid katkum ka table harum: -

Table3: Production Details

Year	Tentative Excavation in Tons(ROM)	Waste/Sub Grade of Limestone in Tons	Mineral Limestone in Tons
First Year	48,900	4,900	44,000
Second Year	48,900	4875	44025
Third Year	48,900	4,900	44,000
Forth Year	48,900	4,900	44,000
FifthYear	48,900	4,900	44,000
Total	2,44,500	24,500	2,20,000
<i>Source: As per Approved Mining Plan alongwith PMCP dated 27.11.2024.</i>			

KA RUKOM PYNDONKAM IA KA JAKA

Ka plan pyndonkam jaka jong ka jaka par mawshun ban kynthup ia ki bynta shwa ban pyntreikam, ka jingpyntreikam bad hadien ka jingpyntreikam la ai harum:

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

Table4: Land Use Pattern

S. No.	Land use Category	Present (Ha)	End of 5 th year (Ha)	End of mine (Ha)
1.	Top Soil Dump	--	--	--
2.	Overburden Dump	--	0.02	0.02
3.	Excavation(voids Only)	--	0.64	0.64(0.13ha.-Plantation on Upper benches & 0.49 ha-Water reservoir)
4.	Roads	--	0.02	0.02
5.	Build up Area	--	--	--
6.	Township Area	--	--	--
7.	Afforestation	--	0.10	0.20
8.	Reclamation (Backfilled)	--	--	--
9.	Mineral Storage	--	--	--
10.	Processing (Crushing)	--	--	--
11.	Undisturbed area	1.0	0.22	0.12
Total		1.0	1.0	1.0
<i>Source: As per Approved Mining Plan along with PMCP dated 27.11.2024.</i>				

3 KA JINGBATAI SHAPHANG KA MARIANG .

Na ka bynta ban peit bniah ia ki jinglong jong ka mariang kum ka jinglong ka suinbneng, ka lyer, ka um, ka khyndew bad ka jingsawa, la buh ia ki jaka peit bniah ha ki shiphew tylli ki jaka ha ka jaka ban pule binah. Ia ki jingtip ba sdang la lum ha ka aiom slap hadien (risaw' 2023 haduh nohprah' 2023). Ia ka jingtip ba bniah shaphang ki jaka shim nuksa la ai harum:-

Table5: Sampling Location

S. No.	Sampling Location	Distance (Km)	Direction	Components
1.	Mine Site (Smti. Seisoh Syiemlieh)	--	--	Air, Ground Water, Noise, Soil
2.	Bholaganj Bazar	0.9	E	Air, Ground Water, Noise, Soil
3.	Bholaganj	2.3	S	Air, Ground Water, Noise, Soil
4.	Chakalabasti	4.0	SW	Air, Ground Water, Noise, Soil
5.	Diengkain	3.85	WSW	Air, Ground Water, Noise, Soil
6.	Mawthang	3.65	NW	Air, Ground Water, Noise, Soil
7.	Sohbar	4.3	NNE	Air, Ground Water, Noise, Soil
8.	Mawpathaw	5.9	ENE	Air, Ground Water, Noise, Soil

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

KA JINGLONG MARIANG KA JAKA

Ka Jinglong ka Jaka

Ki symboh khyndew la shim na ki phra jaka bad ha ka jingpait bha ia ka jingshong ka khyndew ka long harum: -

pH	:	7.32 to 7.84
Soil Conductivity	:	298 to 451µmhos/cm
Nitrogen as N	:	Of 0.041 to 320 Kg/Hectare
Phosphorus as P	:	10.84 to 18.67 mg/kg

KA JINGLONG KA UM

Ka um napoh khyndew.

La shim ia phra tylli ki nuksa um hapoh khyndew bad ar tylli ki nuksa um ba sla khyndew la shim ban peit ha ka jaka pule. Ki jingmih na ka jingpeit bniah ki long kumne harum: -

Ka jingmih na ka jingpeit bniah ka pyni ba la lap ba ka pH jong ka um hapoh khyndew ka don hapdeng 7.26-7.65. La lap ba ka TDS ka long hapdeng 285-448.0 mg/l. Kiwei pat ki jingthew kum ka Calcium, ka Magnesium, ka Kloraid, ka Sulphate bad ka Nitrate la lap hapoh ki kyndon ba la buh. Ka jingpeit bniah ia ka met – met na ka bynta kiwei pat ki jingthew ruh ki la long hapoh ki pud ba la shah katkum ki kyndon katkum ka IS: 10500. Ka jinglong jong ka um ka long kaba lah ban dih ha ka mariang.

KA JINGLONG KA LYER

Ban bishar bniah ia ka jinglong ba sdang jong ka jinglong ka lyer ha ka jaka pule la pynlong ia ka jingpeit bniah ia ka jinglong ka suinbneng kaba ryntih na ka bynta ki jingpynjakhlia kiba la buh kyndon (PM10, PM2.5, NOX, SO2 bad CO) ha ki 8 tylli ki jaka peit bniah ia ka jinglong ka lyer kiba mihkhmat.

Ka jinglong ka lyer sawdong.

Ka jingpeit bniah ia ka jinglong ka lyer la pynlong da kaba pynlong ar sngi ha ka shi taiew ha ki 8 tylli ki jaka kiba kynthup ia kawei ka aiom kaba pura kata naduh u bnai Risaw 2023 haduh u bnai Nohprah 2023. Ki jingkhein jingdiah bapher bapher kum ka 98th percent, ka pdeng, ka jingkhein kaba heh tam bad kaba rit eh la khein na ki jingtip ba thymmai ba la peit bniah na ka

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

bynta baroh ki jaka peit bniah jong ka AAQ. Ia kine la ianujor bad ki kyndon ba la buh da ka Central Pollution Control Board (CPCB) na ka bynta ki jaka nongkyndong bad ki jaka sah brierw. Ia ka jingpeit bniah kaba la pynshong nongrim ha ka jingpule bniah ia ki jingmih la lum lang ka long kat kum harum: -

PM₁₀:-Ka mih kaba heh na ka bynta ka PM₁₀ kaba la iohi ha ka jaka tih mawshun ka long 79.82 µg/m³ bad kaba rit eh na ka bynta ka PM₁₀ kaba la iohi ha Mawthang ka long 53.4 µg/m³. Ka jingthew kaba 24 kynta kaba lah ban pyntreikam na ka bynta ki jaka karkhana, ki jaka sah nongkyndong bad kiwei kiwei ka long 100 µg/m³.

PM_{2.5}:-Ka jingheh jong ka PM_{2.5} kaba la iohi ha ka jaka tih mawshun ka long 45.22 µg/m³ bad ka jingkheih kaba duna tam na ka bynta ka PM_{2.5} kaba la iohi ha Mawthang ka long 19.21 µg/m³. Ka jingthew kaba 24 kynta kaba lah ban pyntreikam na ka bynta ki jaka karkhana, ki jaka sah nongkyndong bad kiwei kiwei ki jaka ka long 60 µg/m³.

SO₂:- Ka jingkhein kaba heh tam na ka bynta ka SO₂ kaba la iohi ha Diengkain ka long 18.56 µg/m³ bad ka jingkhein kaba rit tam na ka bynta ka SO₂ ka long 5.84 µg/m³. Ka jingthew kaba 24 kynta kaba lah ban pyntreikam na ka bynta ki jaka karkhana, ki jaka sah nongkyndong bad kiwei kiwei ki jaka ka long 80 µg/m³.

NO_x:-Ka jingkhein kaba heh tam na ka bynta ka NO₂ ba la iohi ha ka jaka tih mawshun - 20.31 µg/m³ ha Diengkain 20.31 µg/m³ bad ka jingkhein kaba rit eh na ka bynta ka NO₂ ba la iohi ha Bholaganj Bazar 9.45 µg/m³. Ka jingthew kaba 24 kynta kaba lah ban pyntreikam na ka bynta ki jaka karkhana, ki jaka sah nongkyndong bad kiwei kiwei ki jaka ka long 80 µg/m³.

CO: -Ka jingkhein kaba heh tam na ka bynta ka CO ba la iohi ha ka jaka tih mawshun-0.92 mg/m³ bad ka jingkhein kaba rit tam na ka bynta ka CO ba la iohi ha Bholaganj 0.25 mg/m³. Ka jingbuh kyndon kaba 8 kynta na ka bynta ki jaka karkhana, ki jaka sah nongkyndong bad kiwei kiwei ka long 2.0 mg/m³.

Ka Jingpynkut: Ki jingmih na ki jingtip ba la buddien ki pyni ba ka jinglong ka lyer ba marjan jong ka thain ha ka jingialang baroh kawei ka iahap bad ki kyndon jong ki kyndon jong ka jinglong ka lyer ba marjan jong ka ri jong ka CPCB, ha baroh ki jaka ba la buddien.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

KA JINGLONG JINGMAN JONGKA JINGSAWA.

Ia ka jingpeit bniah ia ka jingsawa la pynlong na ka bynta ban tip ia ka jingsawa ha ki hynriew tylli ki jaka ha ka jaka pule. Ia ka jingsawa ha kawei pa kawei ka jaka la buh jingthoh haduh 24 kynta. Ia ki jingmih ba la ioh la ia nujor bad ki jingthew jong ka ri bad la shem ba ki don hapoh ki jingthew.

A) Ka Jingmih Ka Jingsawa ha ka Por Mynsngi Leq (por mynsngi)

Ka por sngi Leq (sngi) ka jingsawa ha baroh ki jaka la iohi ba ka long hapdeng 51.6-58.7 dB (A). Ka jingsawa kaba heh tam ka long 58.7 dB (A) ha ka jaka jong ka Mine bad ka jingsawa kaba duna tam ka long 51.6 dB (A) ha Mawpathaw ha ka por ba leh ia ka jingpule. La iohi ba ki jingsawa ha ka por mynsngi ki long katkum ka jingthew ba la buh kaba long 75dB (A) ha ka jaka pule.

B) Ka Jingmih Ka Jingsawa ha ka Por Mynmiet Leq (por mynmiet)

Ka jingsawa ha ka por miet L_{eq} (miet) ha baroh ki jaka sah la iohi ba ka long hapdeng 38.5-43.2 dB (A). Ka jingsawa kaba heh tam ka long 38.5 dB (A) ha Diengkain ha ka por ba leh ia ka jingpule. La lap ba ka jingsawa ha ka por miet ha ka jaka tih mawshun la lap ba ka long kaba heh bha namar ka jingkhieh jong ki kali, hapoh ka kyndon ba la buh kaba long 70 dB(A).

KA IOH KA KOT HA KA IMLANG SAHLANG.

Ka jaka pule ka kynthup ia ka jaka jong ka projek bad ka radius kaba 10 km sawdong jong ka, kaba kynthup ia san tylli ki tehsil: Pynursla, Shella Bholaganj, Myllem, Mawphlang, bad Khatarshnong Laitkroh, kynthup ia ki 53 tylli ki shnong. Ki don 3,879 tylli ki longiing, kaba kheih kyllum lang ki don phra ngut ki dkhot ha kawei kawei ka longiing. Na kine, 4.92% ki don hapoh 0-2 Km, 41.48% hapoh 2-5 Km, bad 53.60 % hapoh 5-10 Km. Ka jingdon briew baroh ka long 19,716 ngut, ha kaba 5.31% ki im ha ki jaka ba jngai 0-2 km, 41.76% ha ki jaka ba jngai 2-5 km, bad 52.93% ki im ha ki jaka ba jngai 5-10 km. Napdeng kine, 51.45% ki dei ki shynrang bad 48.55% ki dei ki kynthei, kaba pynlong ia ka jingkhein kynthei bad shynrang kaba long 944 ngut na ka 1,000 ngut ki shynrang.

KA JINGPYNBEIT HA KA IMLANG SAHLANG

Ha ka jaka pule, ka jaitbynriew Scheduled Caste ka kynthup ia 4.33% na ka jingbun briew baroh, ha kaba 50.31% ki shynrang bad 49.69% ki kynthei, kaba pynlong ia ka jingkhein kynthei bad shynrang kaba 988 na man la ki 1,000 ngut ki shynrang. Katba ki jaidbynriew Scheduled Tribe ki don tang 49.50% na ka jingbun briew, ha kaba 49.50% ki shynrang bad 50.50% ki kynthei, kaba

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

ialam sha ka jingkhein shynrang bad kynthei kaba long 1020 ngut na man la ka 1,000 ngut ki shynrang.

KA JINGNANG JINGSTAD HA KA JAKA BA LAH PEIT BNIAH.

Ha ka jaka pule, 56.68% na ka jingbun briew baroh kawei ki dei kiba nang ban thoh ban pule, ha kaba 52.66% ki shynrang bad 47.34% ki kynthei, kaba pyni ba ka don ka jaka ban pynbha ha ka jingpule jong ki khynnah kynthei bad kynthei. Pynban, 43.32% na ki nongshong shnong ki bym nang thoh nang tar, kaba kynthup ia 49.06 % ki shynrang bad 50.94% ki kynthei.

KA JINGPEIT IA U NONGTREI & BAD KA JINGPYNBEIT IA KA RUKOM TREI.

Ka jingïashim bynta ha ka kam baroh kawei ha ka jaka pule ka long 35.55%, ha kaba 69.98% ki shynrang bad 31.02 % ki kynthei ki ïashim bynta ha ka kam. Napdeng ki nongtrei, 85.62 % ki dei kiba la khein kum ki nongtrei ba kongsan bad 14.38 % kum ki nongtrei ba marjan. Kiba bun ki shynrang ki trei ha ki karkhana rit, ka rep ka riang, bad ka kam, katba ki kynthei pat ki trei nyngkong eh kum ki nongtrei ba marjan namar ki kam ha iing ha sem, ha kaba bun ruh ki rep ia ki jaka rep jong ki

BIOLOGICALENVIRONMENT

Ka mariang ba im jong ka Meghalaya, kaba kynthup ia ki jingthaw ba im bapher bapher ha ka khyndew bad ha um, la bishar bniah ia ka jingktah ia ka mariang ban iada ia ki jingthung jingtep bad ki mrad ki mreng. Ka jingheh jong ka jylla kaba 22,429 km² ka kynthup ia 8,514 km² ki khlaw, ha kaba 722.36 km² ka don hapoh ka jingpeit beit jong ka tnad khlaw ka jylla. Ia ki jait khlaw la phiah kum ki khlaw kiba shit, kiba rit, bad kiba shit, da ki jingpher kiba kynthup ia ki khlaw kiba jyrngam, kiba jyrngam shiteng, ki khlaw kiba jyrngam bad kiba rkhiang, bad ki jaka jyrngam. Ki khlaw kiba jyrngam ki mih ha ki jaka kiba kham jrong, katba ki khlaw kiba jyrngam ki mih na ka jingpom pathar ia ki khlaw. Katkum u snem 2001, ka jingheh jong ka khlaw ka Meghalaya ka long 15,584 km², kumba 69.5% na ka jaka jong ka jylla, bad ki bynta kiba kongsan la pyniaid da ki dorbar shnong bad ki jaka treikam tynrai.

Table 6: Floral Diversity in Study Area

Study Area
Flora
Climbers – 19 Species

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

Herbs – 40 Species
Shrubs-70Species
Tree–74Species
Orchids-8Species
Fauna
Reptiles-9Species
Butterfly/Moth–28Species
Mammals–15Species
Avifauna-79species

4 KI JINGKTAH BA LA KHMIIH İA KA MARIANG BAD KI LAD BAN PYNDUNA

Ka jingpynkut ia ki jingktah kiba sniew kiba la khmih lynti ia ka mariang namar ka jingtih mawshun kaba la don lypa bad ki lad ban pynduna la ai harum: -

Jinglong ka Khyndew		
Aspects	Impact	Mitigation Measures
Ka jinglongdur jong ka jaka	Ka jingtih ia u mar ka pynkylla ia ka dur jong ka khyndew, ka pynlong ia ki jaka ba thylli, bad ka pynthut ia ka jaka.	Pyntreikam ia ka jingpynbha ia ka khyndew, pynduna ia ka jingpynthut, tehlakam ia ka jingtwa khyndew, pyniaid bha ia ka um, iada ia ki jingthaw ba im, iatreilang bad ki paidbah, bad buddien ia ki jingpyrshang ban pynbha pat.
Ka jingtwa bad jingpynjot ia ka khyndew	Ka jingtih parmaw ka pynthut ia ka khyndew, kaba ialam sha ka jingtwa bad jingkhluut.	Pynlong ia ki nala um bad ki pung um, thung ia ki jingthung jingtep, pynduna ia ka jingpyndonkam ia ki mashin kiba heh ha ki jaka ba slap, bad pyndonkam ia ki jingpynkylla ia ka khyndew na ka bynta ban pynbha pat.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

Ka jingpom pathar ia ki khlaw bad ka jingpynjot ia ki jaka shong jaka sah	Ka jingtih mawshun ka pynlong ia ka jingpom ia ki khlaw bad ka pynthut ia ki mariang.	Pyniaid ia ka jingthung jingtep ha ki jingkhong ba la buh da ka ain, sawdong ki jingtei, bad ki jaka bym pat trei. Palat 33% na ka jaka ba la ai wai kan long hapoh ka jingthung haduh ka por ba la buh jingmut 33% na ka jaka ba la ai wai (i.e. 0.33 ha.) kan long hapoh ka jingthung kaba kynthup ia ka 0.20 ha. Ka jaka bym shah pynthut bad 0.13ha. ka jaka jong ka ki ben ba shalor jong ka thliw ba la tih.
Ka jingktah ha ka dur bad ka jingpynjot ia ka jingitynnad:	Ka jingtih par maw ka pynkylla ia ki jaka bad ki jingpeit ba itynnad.	Pynlong ia ki jaka pynitynnad ia ka jaka bad ki jingthung jingtep ban pynduna ia ka jingpynthut kaba lah ban iohi
Ka jingkylla ha ka jaka, ki thliw ba jyllop, bad ka jinghiar khyndew	Ka jingtih par maw ka pynlong ia ka jingtwa khyndew bad ka pynkylla ia ka rukom tuid um.	Pynduh ia ki jingktah ha ka jaka ba la trei, pynleit jingmut ha ka jingthmu kaba bniah, ka jingpynbha, ka jingthung katkum ki bynta, bad pynroi ia ki jaka buh um. 0.49 ha. ka jaka na ka jaka baroh jong ka thliw tih (0.6 Ha) yn pynroi kum ka jaka buh um ha kaba kut jong ka jingtih jong ka par mawshun
Ka jaka khiih jumai V	Mining in high-risk areas poses significant environmental harm.	Pyntreikam ia ki jingpyniaid ba pyrkhing ia ka mariang, ka jingstad ba thymmai, bad ka jingpeitngor kaba bniah; pynneh pynsah ia ki jaka lum ben katkum ka plan tih maw bad pynlong ia ki jingpule ia ka jinglong sngur jong ki jaka lum.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

Ka jingpynkhuid ia ka jingtap khyndew bad ka jingpynmih jaboh:	Ka jingtih mawshun ka pynmih shibun ki jaboh bad ka khyndew. Katkum ka skhim tih mawshun kumba 83,625 ton ki jaboh kin wan ha ka por ba 5 snem jong ka skhim tih mawshun bad kumba 1,32,240 ton ka jaboh baroh kan mih haduh kaba kut jong ka jingim jong ka par mawshun.	La pyniaid ia ki jaboh lyngba ka jingbret jaboh ha ka rukom kaba biang, pynskhem ia ki jaka bret jaboh da ki kynroh ba pynskhem, bad pyndonkam ia ka khyndew ba la tih na ka bynta ban thung khnang ban lait na ki jingbuh jingkybmaw ba neh. Ia ki jaboh marpoh khyndew la/yn bret ha ka liang South-West (SW) jong ka jaka ba la ai wai hajan u maw ‘1’ bad ‘3’ ha ka jaka kaba 0.02 ha na ka bynta 6 meter ka jingrong ha ki ar tylli ki terrace kiba jrong 3 meter kawei kawei. Ia ka jaka bret jaboh yn pynskhem da kaba pynskhem ia ki kynroh da ki maw ba la rben. Yn shna ruh ia ka kynroh parapet bad ka nala um sha ka liang kaba kham rit ban peit ia ka jingtuid um ha ka por tlang .
---	---	---

Ka Jinglong Ka Um

Ka Umpohkyndew

Ka jingkiakynduh bad jingduh jong ka um hapoh khyndew; ki jingkylla ha ki jinglong jong ka um.	Ka jingtih mawshun ka lah ban iakynduh bad pynjaboh ia ka um hapoh khyndew bad ka ktah ia ki jinglong jong ki um hapoh khyndew.	La buh ia ki pud jong ki thliew ban kiar na ka um hapoh khyndew. Ia ka jingdonkam um (5.0 KLD) la pynbiang/yn pynbiang lyngba ka jingpynpoi um da ki tanker na ki wah um kiba don hajan, ym na ka um hapoh khyndew. Hadien ba la dep tih mawshun, yn sa pyndap biang ia ka jaka ba kynja mariang, bad yn sa peit bniah man ka por ia ka jinglong jong ka um hapoh khyndew.
Ka um jakhlia na ki tank bad ki thliew um.	Ka um jakhlia ka lah ban tuid bad pynjaboh ia ka um hapoh khyndew.	Ia ka um jaboh (0.7 KLD) la/yn pyniaid da ki thliew um bad ki thliew um. Ia ka sbob ba la pynskhem la pyndonkam/yn pyndonkam na ka bynta ban thung jingthung.
Ka jingpynmih ia ki dawai ne ki mobil bad ki nar kiba heh.	Ka jingmih um na ki jaboh jong ki par maw ka lah ban pynjaboh ia ka um hapoh khyndew.	Yn ym pyndonkam ne pynmih ia ki dawai/mobil ne ki nar kiba heh. Yn pyntreikam ia ka rukom pyniaid ia ki jaboh jabaiñ, ki liner ban khanglad, bad ka jingpyniaid ia ka um kaba biang. Ka jingpeit bniah man ka por kan pynthikna ia ka

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

		jingiada ia ka um hapoh khyndew.
--	--	----------------------------------

--	--	--

Ka Um ha Sla Khyndew

Ka jingpynjakhlia ia ki um kiba don hajan.	Ka um kaba tuid ka lah ban kit ia ki sboh bad ki dawai, kiba lah ban pynsniew ia ka jinglong ka um bad pynsniew ia ki jingthaw ba im ha um.	Yn nym pyndonkam da ki dawai ne ki nar kiba heh. Ki plan pyniaid um kin pyniaid bha ia ka jingtuid um lyngba ka jingpyndonkam ia ki pung ba la buh bad ki jaka pyntuid um maw.
---	---	--

Ka jingkylla jong ka um.	Ka jingtih ia u mar ka lah ban pynkylla ia ka rukom tuid um bad pynduna ia ka jingdon um shapoh wah, kaba ktah ia ki jingthaw bajong ka. Yn pyniaid bad pyndonkam ia ka um slap, im.	Ka jingtuid um na ka mariang kan sah khlem shah ktah. Ka jingpynbha hadien ka jingtih kan pynphai biang ia ka jaka sha ka jinglong tynrai jong ka. Yn pyniaid bad pyndonkam ia ka um slap, da kaba buh ia ki lad jingiada na ka jingtwah khyndew ban iada ia ka jinglong ka um.
---------------------------------	--	---

Ka Jinglong ka Lyer

Ka jingmih na ki mashin heh bad ki kali kit mar.	Ka jingmih jong ki jakhlia (NOx, SO2, VOCs) ka iarap ia ka jingjaboh ka lyer.	Pynbiang ia ki mashin da ki lad jingpynmih lyer kiba mynta, pynbha man ka por, bad pynbha biang ia ki jaka ba la pynthut da ki jingthung jingtep ban pynskhem ia ka khyndew bad pynduna ia ka pum pum. Pyniasoh ia ki nongshong shnong ha ki plan pyniaid ia ka jinglong khuid ka lyer.
---	---	---

Ka pum pum bad ki jingjaboh na ki jaka tih par maw	Ka pum pum bad ki jingjaboh kiba mih na ki jaka tih maw ki pynlong ia ka jingjaboh ka lyer.	Pynkhreh biang ia ki jaka ba la pynthut da ki jingthung jingtep ban pynskhem ia ka khyndew bad ban pynduna ia ka dewbilat. Pyniasoh bad pyntip ia ki nongshong shnong ha ki plan pynkhuid ia ka jinglong ka lyer ban weng ia ki jingeh bad ban pynbha ia ka jingkhuid.
---	---	--

Ka Jingmih jong ka Jingsawa

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

Ka Jingsawa ba heh	Ka pynthut ia ki nongtrei, ki shnong kiba don hajan, bad ki mrad khlaw.	Pynlong ia ki jingkhang ia ka jingsawa, pynbha ia ki tiar, pyndonkam ia ki jingpynbeit ba iada na ka jingkhieh, buh por ia ki kam kiba don jingsawa ha ki por ba kham duna ka jingsawa, pyntreikam ia ki buit ban pynduna ia ka jingsawa, plan ia ka jingpynbthei ba la tehlakam, bad pynthikna ba ki surok kit ki long kiba suk.
Ka jingtreikam kaba bteng khlem shong	Ka jingmih ka jingsawa kaba neh na ki belt kit bad ki korpynkhylllem.	Ka jingpynbha man ka por ia ki mashin, khanglad ia ka jingstet jong ki trok, buh ia ki jingpynjem sur ha ki tiar, bad pynbiang ia ki kamra ba khang na ka bynta ki nongpyniaid
Jingtah ia ka koit ka khiah	Ka jingbym lah ban iohsngew,ka jingklusai, ka jingbym lah ban iohthiah,bad ka jingpynthut ia ka jinglong jong ki mrad.	Pynioh jingiada ia ka jingsngap, pyntreikam ia ki jingpyniaid synshar, pynkylla ia ki kam, pynlong ia ka jingthung jingtep ha kylleng, pynlong ia ki jingpeit bniah ia ka koit ka khiah man ka por, bad pynlong ia ka jingpeit bniah ia ka jingsawa man ka por.
Ka Imlang Sahlang bad ka ioh ka Kot		
Ki jingtah kiba Sniew bad Jingpynbha		
Ki jingshem ia ka Jingeh ha ka imlang sahleng	Ka jingbun briew bad ka jingtreikam ha ka ioh ka kot kap lah ban pynjynjar ia ki jingshakri ha ka imlang sahleng bad ki jingtei ha ka thain.	Yn pynlong ia ki jingiatreilang bad ki sorkar apdeng bad ki seng treimon sngewbha ban kyntiew ia ki jingshakri ha ka imlang sahleng. Yn pyntreikam ia ki prokram pynroi ia ka imlang sahleng ban weng ia ki jingeh ha ka imlang sahleng.
Ka jingtah ia ka kolshor	Ka jingtih par maw ka lah ban pynthut ia ka rukom im tynrai bad ki rukom lehniam jong ki trai ri trai muluk ne ki nongshong shnong .	Ki nongshong shnong kin iashim bynta ha ki jingthmu bad ki jingshim rai kiba iadei bad ka kolshor. Yn kyrshan ia ki jingthmu ban pynneh pynsah ia ka kolshor bad yn burom ia ki riti dustur jong ka thain.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

ka koit ka khiah na ki nong ai jingsumar jong ki shnong	ki kam tih maw ki lah ban kynthup ia ki mat kum ka jingjaboh ka lyer bad ka um, ka jingsawa, ka jingkiew ka jingma na ki jingpang bampong, ka jingshah ktah ha ki dawai kiba lah ban pynmysaw, bad ka jingpynthut ia ka jinglah ban ioh ia ki tyllong um kiba khuid .	Yn pynlong ia ka jingpeit bniah ia ka koit ka khiah man ka por jong ki nongtrei bad ki nongshong shnong kiba don hajan. Yn buh ia ki jingthoh shaphang ka koit ka khiah bad ka jingshngain jong u nongtrei. Yn ai jinghikai ia ki nongtrei. Yn pynbiang ia ki tiar iada shimet sha ki nongtrei. Yn pynthikna ia ka jingshngain bad jingbha jingmiat jong ki nongtrei katkum ki kyndon bad ki kyndon tih marpohkhyndew.
Ka jaka shong jaka sah	Ki projek tih mawshun ki lah ruh ban wanrah, ka jingshah pynkynriah jaka, ka jingkiew jong ki kam runar, ka jingbym iaryngkat ha ka ioh ka kot, ka jingeh ha ki jingtei, bad ki jingeh ha ka pateng kaba slem, kaba ktah jur ia ki jaka shong jaka sah jong ki briew kiba don hajan bad ia ka jinglong jingman jong ki.	Ka jaka sah kaba jan tam ka jngai 2.3 km ha SSW. (Shnong - Umsaw). Ym don kano kano ka jingshah pynkynriah jaka ha ka met ne ka ioh ka kot namar ka projek bad kumjuh ruh ym shym la antad ha ki por ban wan ruh. Ki lad ban pynduna jingeh na ka bynta ki jaka shong jaka sah jong ki briew kiba don hajan ki kynthup, ka jingbei tyngka ha ka koit ka khiah bad ki jingtei jong ki paidbah, ban pynthikna ia ka jingmyntoi ha ka ioh ka kot kaba hok, ban pynrung ia ki nongshong shnong ha ka jingshim rai bad kiwei kiwei.

Project:-“Rusiar Limestone Mine”

Applicant:-Smt. Seisoh Syiemlieh

Executive Summary

Ka Jingioh Jingmyntoi

Ka Jingmih bad ka Jingpynmih:

- Ka jingpynkiew ia ka ioh ka kot kaba pdeng na ka bynta ki nongshong shnong kiba trei ia ki kam tih mawshun kiba kum kita da kaba beit bad khlem da beit.
- Ka jingkieh ha ka khajna jong ka sorkar bad ka sorkar pdeng.
- Ka jingtreikam kaba jop jong ka karkhana kan khring shuh shuh ia ki nongbei tyngka na ka bynta ki karkhana, kaba ai jingmyntoi ia ka imlang sahleng bad ia ka jaitbynriew

Lad Kamai

- Kumba 19 No. ki briew kin ioh kam beit na ka projek tih mawshun.
- Ka jingkhmih lynti ban thaw ia ki lad kamai kiba thymmai kiba beit bad ki bym beit.
- Ka jingkhmih lynti ban kiew ha ki lad kamai ki bym dei na ka rep ka riang, kiba iadei beit bad bym iadei beit.
- Ka jingwan jong ki briew kaba duna eh la khmih lynti ha ka por ba pyntreikam.

Ka Jingtei da kaba shnahi.

- La khmih lynti ba yn pynkhlain ia ka surok bad ka bording ha katei ka thain kum shi bynta jong ka jingpynroi kaba bud ryntih.

Ka Jinglong Ka Mariang

• Ka jingpynkhuid ia ki jingthung jingtep . • Ka jingsawa bad jingkhieh na ki kam tih maw . • Ka jingpynmih ia ka um ba la jakhlia . • Ka jingpynmih dewbilat • Ka jingpynkylla ia ki jingthung	• Ka jingpom pathar ia ki khlaw ki btap, ka jingpynthut ia ki mrad khlaw, bad ka jingpynjot ia ki jingthung jingtep ha um. • Ka jingpynkynriah jaka ia ki mrad bad ki sim, ka jingpynthut ia ki mrad khlaw kiba don ha ka thain. • Ka jingpynjot ia ki jingthung jingtep bad ki mrad ba im ha um.	Pynlong ia ki jingpeit bniah: la pynkreh ia ka kaiphod EIA kaba bniah ban sngewthuh ia ki jingktah kiba lah ban mih bad ban shna ia ki lad pynduna kiba biang. Kiar na ki jaka ba don Jingma: Ka jingaiwai tih mawshun ka don ha ka jaka jong ki riew shimet, bad ym don ki jaka ri mrad ne ki jaka ri mrad hapoh ka jingjingai kaba 10 kilomitar na ka jaka aiwai. Namarkata, ka jingma ban ktah ia ki jaka kiba rit ka long kaba duna bha. Ki jingjurip ia ki jait jingthaw: La pynlong ia ka jingwad bniah ban tip ia ka jingdon jong kino kino ki jait jingthaw kiba don ha ka Schedule I
---	---	---

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

jingtep na ka bynta ban tih.	• Ka jingktah ia ki jingthung jingtep kiba don hajan bad ka mariang ba im. • Ka jingduh noh ia ki jingthung jingtep bad ka jingpynthut kaba lah ban mih na ka bynta ka mariang ha ka thain.	lane ki jingthung jingtep kiba sngewkhia hapoh ka jaka pule. Ym don kano kano ka jait jingthung jingtep ne ki jait jingthung kiba don ha ka schedule 1 kiba la lap ha ka jaka ba la leh ia ka jingpule. Ki Plan ban pynthymmai: Pynkhreh ia ki plan na ka bynta ban pynthymmai ia ka mariang bad pyndonkam ia ki jait jingthung trai ri ban thung biang. Ka Jingpyniaid ia ka Um bad ka Iyer: Pyniaid ia ka jingjaboh ka um bad ka lyer lyngba ka jingpyniaid bad jingpeit bniah kaba biang. Ka Jingpynduh kaba shngain: Pyndonkam ia ki jaboh tih maw da ka jingkitkhlieh bad wad ia ki lad ban pyndonkam biang. Ka Jingtehlakam ia ka Jingtwa Khyndew: Pyntreikam ia ki rukom iada na ka jingtwa khyndew kum ki jingker dewbilat bad ka jingthung ia ki jingthung jingtep. Ka Jingiashim bynta jong ki nongshim bynta: Iatreilang bad ki nongshong shnong bad pynbeit ia ki jingeh jong ki lyngba ka jinghikai bad jingai jingmut. Ka jingpeit bniah kaba bteng: Buddien ia ki jingktah ia ka mariang bad ai kaiphod halor ka jingbud ryntih ia ki lad pynduna. Pynbud ia ki kyndon: Bud ia ki kyndon jong ka mariang bad ki jingdonkam ban ai jingbit
------------------------------	--	---

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

5 KA PROKRAM BAN PEIT IA KA MARIANG:

Ka Lyer.

Yn pynlong ia ka jingpeit bniah ia ka jinglong ka lyer katkum ki kyndon jong ka SPCB bad CPCB .

Ka Um.

Yn pynlong ia ka jingpeit bniah man ka por ia ka jinglong ka um hapoh khyndew ha ki jaka kiba biang. Yn lum ia ki nuksa um saw sien ha ka shisnem katta. Shwa - Slap, Slap, Hadien - Slap bad Ka Por Tlang.

Ka Jingsawa.

Yn buh jingthoh ia ka jingsawa man ka por ha ka jaka tih mawshun hajan ki mashin ba treikam ha ka por mynsngi bad miet.

KA KOIT KA KHIAH BAD KA JINGKHUID JINGSUBA.

Periodical medical checkup of workers is being done and medical facility provided. The Initial Medical Examination (IME) is conducted at the start, while the Periodic Medical Examination (PME) is required every 3 years for those over 45 and every 5 years for those 45 or younger.

Toilets and urinals is being/will be provided near the mine site. Drinking water is being/will be made available to the workers.

6 KIWEI DE KI JINGPEITBNIAH.

KA JINGSNGEW PAIDBAH.

Ia ka kaiphod EIA/EMP ba la shna lypa la dang pynpoi. Ia ka jingpynsgew paidbah yn pynlong katkum ki jingbthah jong ka EIA Notification 14th September, 2006 bad ki jingpynkylla hadien jong ka.

KA JINGPEIT BAD JINGPYNBEIT IA KI JINGMA

Ka jingpeit bniah ia ki jingma ka dei ka jingpule bniah ia ki jingbym thikna bad ki jingma kiba iakynduh ha ki bynta bapher bapher. Ki nongpeit bniah ia ki jingma ki wad ban ithuh ia ki jingma

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

kiba don ha ki kam tih mawshun, ban sngewthuh kumno bad mynno ki mih, bad ban antad ia ka jingktah (ha ka liang ka pisa tyngka ne kiwei kiwei) jong ki jingmih kiba sniew. Ka batai bad bishar bniah ruh ia ki jingma ia ki briew shimet, ki kam bad ki tnad sorkar kiba lah ban mih na ki jingjia ba sniew kiba lah ban mih na ka mariang bad na ki briew.

Hynrei ki don ki daw bapher bapher, kiba lah ban wanrah ia ki jinglong jingman/ jingma ha ka jingtrei bym shngain ha kaba tih ia u mawshun (ki marpoh khyndew kiba rit). La ithuh ia kine ki jait jingma ha ka por ba tih ia u mar: -

1. Ba mynsaw por pynkiew, pyniaid bad bret ia u maw.
2. Ba mynsaw da ka daw bai aid kali
3. Ba rung um

Ban pyniaid bha ia ki kam ki jam, ki jingkdew harum yn bud na ka bynta ban iada na ki mynsaw ha ka mine.

Step 1: Ki jingiit ia ki jingma ba ktah na ka jingpynjot

Step 2: Ki jingiit ia ki briew ba don ha ka jingma

Step 3: Ki jingwengnoh ia ki jingjulor

Step 4: Ka jingtipbniah na ka bynta ka jingma

Step 5: Ki lad ban iada ba iadei ban shim

Step 6: Ban buh jingkhein

Step 7: Ban peit biang

7 KA JINGMYNTOI NA KA PROJEK.

Ki sboh na ki Jingioh Jingmyntoi na ka Project.

Ki jingmyntoi ba kyllum:

- Ka jingpynbiang ia ka kam kaba siew bha kaba bud ia ki kyndon treikam ba la pdiang.
- Ki prokram ai jinghikai bad ai jinghikai.
- Ka jingpynroi ia ki karkhana bad ki kam khaii ha ka thain.
- Ka jingkyrshan ia ki jingthmu jong ka sorkar bad ki kam imlang sahlang.
- Ka jingbei tyngka ha ki jingtei jong ka imlang sahlang.
- Ki prokram jong ka koit ka khiah bad ka jingkhuid jingsuba, kum ka jingiada na ka jingpang khlam.
- Ka jingbud ryntih ia ki ain jong ka thain, ka jylla, bad ka sorkar pdeng.
- Ka jingkiew ha ka kam trai ri bad ki nongtrei kiba tbit.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

Ka Kam:

Ka Jingtrei Beit: Kumba 19 ngut kin don beit ha ka por ba pyntreikam, da kaba don katto katne ki briew kiba tbit kiba la shim nabar bad ki bym tbit ne kiba tbit shiteng na ka thain.

Ka kam ba shiphang: Ki briew na ka thain kin shem ia ki kam bym thikna ha ki bynta kum ki dukan sha, ka jingpynbha kali, ka jingkit jingbah, ki jaka buh mar, bad ki kam pynpoi marbam. Nalor kata, yn ai jinghikai ia ki kam ban tei ia ki nongtrei kiba tbit na ka bynta ki par mawshun ha ka thain

Ki jingpynbha ha ki jingtei:

Ki Jingtei dalade hi:

- Ka jingpynbha ia ka jingiakren ha surok bad ki jingdonkam ha ka imlang sahlang.
- Ki jaka buh um slap ban pynbha ia ka jingdon um.
- Ki prokram pynroi ia ki sap ki phong bad ki jinghikai trei kam na ka bynta ban kamai jakpoh.
- Ki prokram pynsgewthuh kum ki jaka sumar bad ki kam pynbha ia ka iing ka sem.

Ki jingtei ha ka imlang sahlang:

- Ki jingktah kiba bha ha ka roi ka par ha ka imlang sahlang, kynthup ia ki kam thymmai bad ki jaka pule bad jaka sumar kiba kham bha.
- Ki jingthmu ban sumar ia ka koit ka khiah, kynthup ia ki jaka sumar paidbah.
- Ka jingpynbha ia ka jinglah ban ioh kam bad ki jingnoh synniang sha ka sorkar jylla bad ka sorkar pdeng.

Ka koit ka khiah:

- Ka jingpeit bniah ia ka koit ka khiah man ka por katkum ka ain/ki kyndon jong ki rukom tih par maw.
- Ki kam pynroi ia ka imlang sahlang kiba thmu ban pynbha ia ka koit ka khiah ha ki shnong kiba marjan.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

8 KA PLAN BAN PYNIAID NE PYNBHA ĪA KA MARIANG

Ka Plan Pyniaid ia ka Mariang (EMP) ka thmu ban pynneh pynsah ia ka mariang da kaba pyrkhat ia ki jaka pynduna ia ka jingjaboh ba la shna ha ka jaka tih mawshun. Yn shim katto katne ki kyndon ba kongsan kiba synshar ia ki lad jingiada ia ka mariang.

KA JINGPYNĪAD ĪA KA JINGPYNDONKAM ĪA KA JAKA

Yn shim ia ka plan pynthymmai harum ha kane ka par maw.

- Ha kaba kut jong ka jingim jong ka par,ka jaka ba la tih baroh kawei kan long 0.12 Ha.
- Ha ka por ba dang pyrkhat, palat 33% na ka jaka ba la ai wai (i.e. 0.33 ha.) yn kynthup hapoh ka jingthung jingtep kaba kynthup ia ka 0.20 ha. ka jaka bym shah pynthut, 0.013 ha ka jaka bret jaboh & 0.14 ha ka jaka jong ki ben ba shalor jong ka thliew ba la tih.

KA JINGPYNBNA BAD JINGPEIT BNIAH ĪA KA UM

Katto katne ki lad jingiada ba la shim na ka bynta ban tehlakam ia ka jingjaboh ka um ki long kumne harum: -

- Da kaba pynshong nongrim ha ki jingmih na ka jingpeit bniah yn shim ia ki lad pynbeit.
- Ka jingthew ia ka jingkylla ka um ban bishar ia ka jingktah jong ka kam tih maw ia ka jingduna um ha ki jaka ba jan jong ki tyllong um ba la tih bad ki tyllong um ba la tih.
- Yn pynlong ia ka jingpeit bad jingbishar bniah man ka por ia ki nuksa um ha ki jaka ba kongsan ban peit ia ka jinglong ka um.
- Ia ka um jakhlia na iing yn pynpoi sha ki tank septic bud sa ka thliew pynngam.

KA PLAN BAN TEHLAKAM IA KA JINGLONG KA LYER

Ka jingbud ia ki kyndon ban tehlakam ia ka jingsniew ka lyer ki long harum:-

- Ka jingsted jong ki kali hap ban peit bniah bad kin leit beit da kaju.
- Ka jingpeit bniah ia ka jingpynmih tдем ki kali bad ki kot kali ba biang.
- Ka jing iaid ne jingmih ki kali na jaka trei kin long ba baing khnang ba kan yn ym pynthud ia ka leit ka wan ki nongshong shnong.
- Ki kali ba kit ia ki mar dei ban tap da ki trapal.
- Ban yn ym shah ban kit sha ba palat ban lait na ka jinghap sha surok.
- Ban pynbha ia ka surok.
- Ka jingtista ban pynkhuid ka iarap ia ka lyer ban lait na ki pum pum.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

- Ka jing pynsynried um sha ka surok khnang ban lait na ka jingsniew jong u surok.
- Ka shna ia ka jingiada na rud surok ban iada ha ba don pum pum.
- Ia u speed breaker yn shna khnang ban tehlakam ia ka jing pynstet kali. Tangba, ka jingmaham ia ka jingpynstet ia ka kali kan sa don.
- Ka jingtista ba peit bniah bad pule bniah ia ka jinglong jingman ka lyer kan long ha man la ki por. Lada ka jinglong jingman ka lyer ka long palat ia kaba dei ban long, kaei kaba donkam ban leh naka bynta ka jingbha dei ban leh.

KA PLAN BAN TEHLAKAM IA KA JINGMIH KA JINGSAWA:

Ki kyndon ban tehlakam ne pynduna ia ka jing mih ka jingsawa ki long harum:-

- Ka jingmih ka jingsawa kan tang ha ki por mynsngi por trei khnang ban lait na ka jingthud ia kiba don shajan.
- Ka jingpeit bniah ia ka rukom long ki kali ki machine kan long ha man la ki por bad ban kyliang ia kiba dei ban kyliang.
- Ka jing pynbha ia ki kali ka long kaba donkam bad yn ym shah ban kit palat pud.
- La maham iaka jingpynsted kali ha kaba iadei bad u surok bad ki surok shnong.
- Ka jingpeit bniah ia ka rukom mih ka jingsawa kan long ha man la ka por khnang ban lait na ka jingpynthud ha ka jingiadei bad ka jingmih jongka jingsawa.
- Personal Protective Equipments i.e., earmuffs and earplugs ban pynbiang ia ki nongtrei khnang ban lait na ka jingsawa kaba khlain.
- Ka jingpeit na ka jingkoit jingkhiah kan long ha man la ka por na ka bynta ki nong trei ban lait na ka jingshah ktah ha ka jingsawa ba mih.
- Ka jingsawa ba mih por trei kan pyni ha ki kor ki bor khnang ban tehlakam ia ka jingkhlain bor ka jingsawa ba mih ha ka por trei.

KA JINGKOIT KOIT BAD KA JINGSHNGAIN HA KA KAM

- Ban lait jingma ia ka koit ka khiah ki nongtrei na ki pum pum, jingsawa, bad kiwei kiwei de ki lad jingiada dei ban don ha ka jaka trei.
- Ban tista ban peitbniah ia ki tiar ki machine ba pyntrei katkum ka rukom ba ki lah shna ia ki.
- Ban ai ia ki personal protective equipment ia ki nongtrei ha jingtrei.
- Ban pait bniah ia ka koit ka khiah ki nongtrei ha manla ki por.
- Ka jingia pynsngewthuh ia ki nongtrei ka donkam.

Project:-“Rusiar Limestone Mine”	
Applicant:-Smt. Seisoh Syiemlieh	Executive Summary

KA JINGLONG JINGMAN JONGKA IMLANG SAHLANG

- Ki Sahep kiba dei peit ia ka mariang ki dei ban peit ia jinglong jingman khnang ba kan ym kthah ia ka mariang.
- Kumba 19 ngut ki trai shnong kin ioh trei beit directly bad bun kin ioh indirectly.
- Ka jingioh trei bad ka jinghikai ki bapher bapher khnang ban iarap kam ia ki trai shnong.
- Ka jing ioh trei ki trai shnong ka long ka jingpynshisha. Ia kito kiba lah ioh jinghikai kin thep hadien ba lah pynheh ia ka rukom trei.
- Ka jingpeit bniah ia ka koit ka khiah kan long ha manla ki por.

KA PLAN BAN TEHLAKAM IA KA JINGMA IA KI JINGIM BA DON MARJAN:

Ym don jingma ban ktah ne ki jingma ia ki jingim ban mih na ka jaka trei (mining activity). Tangba, ka jingpeit bha bad ka jingthung ia ki dieng kan don khnang ban tehlakam ia ki jingma ia ka mariang bad ki jingim ba don ha ka.

9 KA JINGPYNKUT

Ia ka jingpule EIA la leh kat kum ka jingmynjur ka ToR. Ka jinglong jingman bapher jong ka mariang la peit thuh kaba iadei bad ka jingtreikam mining. Ka jingiadei bad ki jingktah la ithuh bad peitshai. Da la peit bha ki lad ki lynti ban ianujor ia ka jinglong jong ka mariang ia ka Environmental Management Plan la pynkhreh bad la buh ka pisa ba donkam. Ka EMP ka la long ba iar, ba jem bad pher man la ka por ba rai biang.

Ka projek kan pynkiew ia ka jingioh nong ia ka State Govt. bad kumjuh kan rah ia ka ioh ka kot jong ki briew shnong. Ka programme pynbha ia ka greenbelt kan iarap ban kham jyrngam shuh shuh ia ki jaka ba marjan. Kumta, ka projek ba la don kan ym ktah ia ka mariang lane ia ka jinglong jingman ki jingthung jingtep ba marjan. Ka Senior Management kan shym khia ia ka jingrai ia ka projek jong ka EMP bad ki jingpyntreikam ban pyntikna ba ka EMP ka long ba treikam bha bad biang. Kumta, ki lad ki lynti badei yn shim ban jop ia baroh ki thong ba la buh ha ka EMP bad ka projek kan sa wanrah ka jingktah babha ha ka jaka pule.
