

KA PASOH
BAN IOH JINGBIT IA KA ENVIRONMENT CLEARANCE
**(Category - B1, under item 1 (a), as per EIA Notification 14th September' 2006 and its
subsequent amendments till date)**

IA

“REKETUNG LIMESTONE MINE”

Jaka: - ha Reketung, Nongtalang, District – West Jaintia Hills, Meghalaya.

Jingpynmih ba lah ban pynmih : - 2,00,475 MTPA

Jingheh ka Jaka: - 1.53 Ha;

LOI la ioh ha ka tarik 30.09.2021

Por ba Lease: - 15 Years (Naka tarik ba register)

Jingtibniah ia ka TOR	:	Ba la ioh na ka SEIAA, Meghalaya
Baseline data ba la pynmih	:	Lber, 2022 to Jymang, 2022 (Por Pyrem)
Project Jinglut	:	Rs. 23.50 Lacs

PROMOTER

**Shri. Robert Dkhar
Skhentalang, District – West Jaintia
Hills, State – Meghalaya**

ENVIRONMENTAL CONSULTANT

**Gaurang Environmental Solutions Pvt. Ltd.
#102, SNG Shree Ratna Apartment, Peetal Factory, Jhotwara
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NABET Accreditation: NABET/EIA/2023/ RA0192

Project:- Reketung Limestone Mine	
Applicant:- Shri. Robert Dkhar	

KA PASOH

1.0 KA JINGSDANG.

Ka project ba la kdew “Reketung Limestone Mine” ka ba don ha Reketung, Nongtalang, District- West Jaintia Hills (Meghalaya). Ka jaka baroh ba la mang naka bynta kata ka project ka long 1.53 ha. Ka rukom tih ia u mawshun kan long da kaba shu khlong ia ka khynsdew da ki kor ki bor bad sa kaba shu ksam shapoh bad pynpait ia u maw. Ka letter of intent la ai ha ka kyrteng jong U Robert Dkhar na ka Office jong ka Govt. of Meghalaya, The Department of Forests and Environment, Office of the Divisional Forest Officer: West Jaintia Hills Territorial Division, Jowai lyngba ka shithi no. JH/R.D/M.L/L.S/2021-22/B/1052 dated 30.09.2021 ia kaba la ai por haduh u 29.03.2022. Ka jaka ba la ioh jingbit na ka bynta ka mining ka don ka jingheh kumba 1.53 ha. bad ka mineable reserves ne ka jingdon u maw ka long 6,51,200 Tonnes ha katto ka jaka, ban pynmih 2,00,475 MTPA ia mawshun.

1.1 KYRTENG JONG KA JAKA.

Ka projek ba la mang “Reketung Limestone Mine” kadon ha reketung, Nongtalang, District- West Jaintia Hills (Meghalaya).

1.2 KI MAT JONG KANE KA PROJEK.

Sl. No.	Particulars	Details
1.	Kyrteng jong ka Project	Reketung Limestone Mine
2.	Jaka	Reketung, Nongtalang, District – West Jaintia Hills, Meghalaya.
3.	Jing heh jong ka jaka na ka bynta kata ka project.	1.53 Ha.
4.	Jait Jaka	Khatedari Land (Jaka la jong)
5.	Latitude & Longitude	25°14'36.5"N to 25°14'42.4" N and 92°5' 28.6"E to 92°5' 34.9"E
6.	Ka jingpeit na ka liang ka jing Khynnuih u Jumai	Ka hap hapoh ka Zone – V



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1.3 JINGBATAI IA KA PROJEK

Ka Letter of Intent ba la ai ia U Robert Dkhar na ka Office jong ka Govt. of Meghalaya, office of the Divisional Forest Officer (Territorial), Jaintia Hills Division, Jowai vide letter no JH/ R.D/M.L/L.S/2021-22/B/1052 dated 30.09.2021 ia kaba la ai por haduh u 29.03.2022 Ka jaka ba la mang na ka bynta ka mining ka don ka jingheh kumba 1.53 ha. bad ka mineable reserves ne ka jingdon u maw ka long 6,51200 Tonnes ha katto ka jaka, ban pynmih 2,00,475 MTPA. Ka rukom tih ia u mawshun kan long da kaba shu khlong ia ka khydew da ki kor ki bor bad sa kaba shu ksam shapoh bad pynpait ia u maw.

1.4 GEOLOGY

1.4.1 LOCAL GEOLOGY

U Mawshun u paw ha baroh ka jaka ba la kdew, ymdon shuh kiwei kiwei ki maw ba paw ha ka jaka ba la mang. U mawshun u la dain ha jan ka Shatei – Shathie bad ngam pynieng ha bam don ka jingtreakam. Ym don jingduna, jingkhylliap bad jingthut geological ba la iohi ha kane ka jaka ba shim wai. Ka jingwan jong ki maw ha ka jaka shim wai la ai harum:-

Table 1.1: Local Geology

Geological Age	Group Name	Formation Name	Rock Type
Recent	Newer Alluvium	Unclassified	Sand, Silt and Clay
-----UNCONFIRMITY-----			
Eocene	Jaintia Group	Shella Formation	Lime Stone

1.4.2 PHYSIOGRAPHY

Ka topography jong ka jaka ba la kdew ka long khohruh khohram ba ym long madam don ba long lum don ba long madan, Haka jingjrong ba jrontgam ka long 909 mSL bad haka jingjylliew ba shapoh 846 mSL. Ka nala ba don ha ka jaka ba ka kdew ka long shathie lam shatei.

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1.4.3 GEOLOGICAL AND MINEABLE RESERVES

Geological Reserve	: 27,37,440 MT
Mineable Reserve	: 6,51,200 MT
Jinglah Pynmih	: 2,00,475 TPA of ROM
Jingbuuh por ia ka jingdon u mar	: 05 Years

1.4.4 KA RUKOM TIH IA U MAR POHKHYNDEW.

Ka rukom tih ia u mawshun 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 rukom tih ia u mawshun 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 mied jingjrong yn buh 6m bad jingiar jong ka mied kam dei ban duna ia ka mied jingjrong.
- Baroh phra mied yn pynbha kata naduh ka level Mied 904 mRL (Nalor mied), 898 mRL, 892 mRL, 886 mRL, 880 mRL, 874 mRL, 868 mRL, 862 mRL, 850 mRL, 844 mRL , 838 mRL, 832 mRL, 826 mRL, 820 mRL (duna mied).
- Jingpynbthei yn leh da ki thliew barit bad bajrong da ka jingioh jingbit na DGMS
- Ka slope mied kan ai 85°.
- Ka jingrah kan long na ki jaka buh ne ki stocks.

1.4.5 KA JINGTIP JONG KA JINGMIH.

Ka jingpynmih ia u mawshun hapoh san snem kan long katkum ba la kdew harum:-

Table 1.2: Production Details

Year	ROM (T)	Waste / sub-grade (T)	Limestone Dimensional(T)
1 st Year	2,22,700	22,275	2,00,425
2 nd Year	2,22,750	22,275	2,00,475
3 rd Year	1,11,150	11,100	1,00,050
4 th Year	1,11,130	11,125	1,00,175
5 th Year	55,650	5,575	50,075
Total	7,23,550	72,350	6,51,200

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1.4.6 KA JING PYNDONKAM IA KA JAKA:

Ka jingpyndonkam ia ka jaka ba la kdew na ka bynta ban tih ia u marpoh khendew ka kynthup ia ka jing khlong iaka khyndew ba tap najrong, nangta pynpait ia u maw ba la paw hajrong hadien ba la dep pynkhuid ia ka khyndew bad kan long kum ba la kdew harum:-

Table 1.3: Ka jingpyndonkam ia ka jaka:

S. No.	Land Use Category	Pre-Operational (Ha.)	Operational (Ha.)	Post-Operational (Ha.)
1	Top Soil Dump	00	0.01	00
2	Overburden Dump	00	0.07	0.07
	Pit & Quarry Area	00	1.17	1.17
3	Excavation (Voids Only)	00	00	0.35
	Reclamation (Backfillerd)	00	00	0.82
4	Road	00	0.02	0.02
5	Infrastructure	00	0.01	00
6	Afforestation	00	0.10	0.20
7	Mineral Storage	00	00	00
8	Sub-grade stack yard	00	00	00
9	Undisturbed Area	1.53	0.15	0.07
Total		1.53	1.53	1.53



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1.5 KA JINGLONG KA MARIANG:

Ban peit bha ia ka mariang kum ka meterorology, ka lyer, ka um, ka khynthew bad ka jinglong jong ka jingsawa, ki jaka peit bniah la buh ha ki hynriew jaka ha ka jaka ban pule/peit thuh. Ia ka baseline data la shim ha ka por pyrem (Nohprah' 2021 haduh Rymphang, 2021). Ia ka jingbatai bniah ha kine ki jaka la ai harum:-

Table 1.4: Sampling Location

Sampling Location	Distance (Km)	Direction	Components
Dominic (Mine Site)	--	--	Air, Water, Noise, Soil
Shri. Robert Dkhar (Mine Site)	2.0	N	Air, Water, Noise, Soil
Amjajer Roko	1.2	ENE	Air, Water, Noise, Soil
Smt. Phul Bareh (Mine Site)	1.6	SW	Air, Water, Noise, Soil
Nongtalang Shnongthymmai	1.7	SW	Air, Water, Noise, Soil
Sohkha	5.5	WSW	Air, Water, Noise, Soil
Khonglah	8.0	WNW	Air, Water, Noise, Soil
Amtapoh	3.0	N	Air, Water, Noise, Soil

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1.5.1 KA JINGLONG JINGMAN KA JAKA.

1.5.1.1 Ka Jinglong ka khynsdew:

Ki symbol khynsdew la shim na ki hynriew jaka bad ha ka jingpait bha ia ka jingshong ka khynsdew ka long harum:

pH	:	7.14 – 7.85
Total Organic Matter	:	0.36-0.51 (% by mass)
Total Kjeldahl Nitrogen as N	:	0.023 – 0.042%
Phosphorus as P	:	10.67-12.80 (mg/kg)
Potassium as K	:	236.00 – 248.50 (mg/kg)

1.5.1.2 Ka Jinglong Jingman jong ka Um:

Ki um na ki hynriew tylly ki jaka ban pule la shim. Ka jingiohi ia ka jingtohkit la pyni harum:-

Table 1.6: Water Quality Status

Project:- Reketung Limestone Mine

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S. No.	Parameter	Requirement (Desirable Limits).	Permissible Limits in the Absence of Alternate Source.	Units	Dominic (Mine Site)	Shri Robert Dkhar (Mine Site)	Amjajer Roko	Smt Phul Bareh	Nongtalang Chnongthmai	Sohkha	Khonglah	Amtapoh
Physiochemical Parameter												
1.	Colour	5	15	Hazen	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2.	Odour	Agreeable	Agreeable	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3.	Taste	Agreeable	-	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4.	Turbidity	1	5	NTU	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5.	pH value	6.5-8.5	-	-	7.26	7.58	7.42	7.50	7.37	7.21	7.89	6.94
6	Total Hardness (as CaCO ₃)	300	600	mg/l	162	174	163	152	154	162	148	160
7	Alkalinity as CaCO ₃	200	600	mg/l	180	182	196	175	166	175	160	172
8	Iron (as Fe)	1.0	No Relaxation	mg/l	0.132	0.126	0.125	0.150	0.115	0.135	0.121	0.128
9	Chlorides (as Cl)	250	1000	mg/l	15.0	18.0	14.0	15.5	16.0	14.0	16.6	18.0
10	Fluoride (as F)	1	1.5	mg/l	0.22	0.27	0.21	0.32	0.24	0.25	0.35	0.21
11	Conductivity	-	-	µmhos/cm	470	512	480	498	482	380	455	426
12	TDS	500	2000	mg/l	308	340	334	320	309	242	298	277
13	Calcium(as Ca ²⁺)	75	200	mg/l	51.0	56.6	54.2	55.0	58.0	60.0	57.5	58.0
14	Magnesium (as Mg ²⁺)	30	100	mg/l	8.34	7.86	6.65	3.50	2.17	2.91	1.02	3.64
15	Copper (as Cu)	0.05	1.5	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
16	Manganese(as Mn)	0.1	0.3	mg/l	BDL (<0.05)	BDL (<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
17	Sulphate (as SO ₄)	200	400	mg/l	28.0	26.5	23.2	26.0	21.0	24.0	20.6	25.8
18	Nitrate(as NO ₃)	45	No Relaxation	mg/l	2.12	2.50	1.60	2.45	2.60	3.81	2.55	2.02
19	Mercury (as Hg)	0.001	No Relaxation	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
20	Cadmium (as Cd)	0.01	No Relaxation	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)



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21	Selenium (as Se)	0.01	No Relaxation	mg/l	BDL (<0.01)							
22	Arsenic (as As)	0.01	No Relaxation	mg/l	BDL (<0.01)							
23	Cyanide (as CN)	0.05	No Relaxation	mg/l	BDL (<0.01)							
24	Lead (as Pb)	0.05	No Relaxation	mg/l	BDL (<0.01)							
25	Zinc (as Zn)	5	15	mg/l	0.128	0.132	0.141	0.136	0.145	0.136	0.145	0.126
26	Anionic Detergent (as MBAS)	0.2	1	mg/l	BDL (<0.10)							
27	Chromium (as Cr6+)	0.05	No Relaxation	mg/l	BDL (<0.05)							
28	Mineral oil	0.01	0.03	mg/l	BDL (<0.50)							
29	Aluminium (as Al)	0.03	0.2	mg/l	BDL (<0.01)							
30	Boron (as B)	1	5	mg/l	BDL (<0.10)							
Microbiological Parameter												
1.	Escherichia coli	Absent/100ml			Absent							
2.	Coliform Bacteria	Absent/100ml			Absent							



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1.5.2 Jinglong Jong ka Lyer:

Ban peit bha ia ka jinglong jong ka lyer ha ka jaka pule ka systematic ambient air quality monitoring la pyniaid ia ki jait jingaboh (PM₁₀, PM_{2.5}, NO_x, SO₂ and CO) ha ki phra jaka ba don ki ambient air quality monitoring stations.

1.5.2.1 Jinglong ka Lyer

Ka Ambient air quality monitoring la pyniaid shakhmat ha ka por ar sien shi taiew ha ki phra jaka ha kawei ka aiom kata naduh Lber' 2022 haduh Jymmag' 2022. Ka jingiohi ia ka jinglong jong ha baroh ki jaka ki long kumne harum. Ia kine la pyniahap kat kum ka jingbuh da ka Central Pollution Control Board (CPCB) jong ka rural bad residential zone.

Table 1.7: Ambient Air Quality Status

S. No.	Sampling Location		Parameters				
			PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1.	Dominic (Mine Site)	Min	37.21	25.96	6.69	8.44	0.3
		Max	56.78	36.58	8.95	13.45	0.59
		Avg.	45.01	29.51	7.51	9.93	0.43
		98th% ile	56.57	35.85	8.90	13.35	0.58
2.	Shri Robert Dkhar (Mine Site)	Min	42.61	27.44	7.26	10.52	0.29
		Max	55.47	36.22	11.24	16.25	0.71
		Avg.	48.92	29.89	9.11	13.12	0.48
		98th% ile	55.07	35.85	11.07	15.98	0.69
3.	Amjajer Roko	Min	34.52	20.12	7.54	9.68	0.3
		Max	55.48	32.26	10.88	14.66	0.77
		Avg.	44.15	25.22	8.89	11.33	0.48
		98th% ile	55.36	31.74	10.87	14.54	0.74
4.	Smt Phul Bareh (Mine Site)	Min	32.14	20.11	5.69	8.55	0.26
		Max	48.65	28.88	8.49	13.62	0.53
		Avg.	39.21	23.07	6.80	9.74	0.40
		98th% ile	48.54	27.72	8.47	13.59	0.52
5.	Nongtalang Chnongthmai	Min	32.52	20.68	5.35	9.24	0.35
		Max	47.32	29.53	9.47	14.63	0.8
		Avg.	37.43	24.45	7.23	10.98	0.53
		98th% ile	46.44	29.25	9.45	14.14	0.77
6.	Sohkha	Min	34.25	23.48	7.15	9.35	0.28
		Max	57.02	32.28	9.32	14.63	0.63
		Avg.	44.31	26.52	8.26	11.01	0.45
		98th% ile	56.91	32.23	9.18	14.47	0.63
7.	Khonglah	Min	30.52	18.44	5.35	8.26	0.38
		Max	45.62	26.65	7.85	12.98	0.82

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		Avg.	35.28	20.49	6.18	9.60	0.56
		98th% ile	44.65	24.44	7.51	12.43	0.80
8.	Amtapoh	Min	32.23	15.45	6.24	10.2	0.42
		Max	45.08	19.1	8.74	15.52	0.71
		Avg.	41.41	16.93	7.38	11.81	0.55
		98th% ile	45.03	18.88	8.70	14.83	0.71
NAAQ STANDARDS		100	60	80	80	2	

1.5.3 Jinglong Jingman Jongka JIngsawa.

Ka jingthew ia ka jingsawa la pyniaiad ban tip bha ia ka jinglong ka jingsawa ha ki hynriew jaka ban pule. Ka jingthew ia ka jingsawa ha man ki jaka la shim ha 24 kynta. Ka jingiohi ba la ioh la pyniahap bad ka national standards bad la shem ba long kat kum ka standard. Ki data ba la ioh la pyni harum:-

Table 1.8: Ambient Noise Level Status

Location	Date of Sampling	Day Time (6.00 AM to 10.0PM)	Night Time (10.00 PM to 6.00 AM)
Dominic (Mine Site)	01.03.2022	59.2	46.1
Shri Robert Dkhar (Mine Site)	03.03.2022	58.4	44.7
Amjajer Roko	05.03.2022	53.1	41.2
Smt Phul Bareh (Mine Site)	06.03.2022	57.6	45.0
Nongtalang Chnongthmai	08.03.2022	51.5	42.6
Sohkha	10.03.2022	54.6	40.2
Khonglah	12.03.2022	50.2	43.8
Amtapoh	14.03.2022	53.6	41.4
Standards			
Category of Area/ Zone		Day Time	Night Time
Industrial Area		75	70
Commercial Area		65	55
Residential Area		55	45
Silence Zone		50	40

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1.5.4 Ka jingioh jingkot jong ki biew:

Ka jaka pule ka kynthup ia 53 tylli ki shnong ha Amsyndui, Nongtalang, District- West Jaintia Hills District(Meghalaya) hapoh 10 km ka jaka sawdong na ka mine.

Table 1.9: Demography Profile of the Study Area

Sl. No.	Particulars	Details
1.	No. of Villages	53
2.	Total Population	26,606
	a. Male	13,221
	b. Female	13,385
3.	No. of Households	4,798
4.	No. of Literates	16,350
	a. Male	8,054
	b. Female	8,296
5.	Main Workers	11,714
	a. Male	6,910
	b. Female	4,804
6.	Marginal Workers	4,220
	a. Male	1,982
	b. Female	2,238
7.	Non-workers	14,892
	a. Male	6,311
	b. Female	8,581

(Source: Census, 2011)

1.5.5 Jingmih ha ka Mariang:

Core Zone	Buffer Zone
Flora	
Climber – 6 Specie	Climber – 19 Specie
Herb – 7 Species	Herb – 40 Species
Shrubs - 8 Species	Shrubs - 70 Species
Tree - 9 Species	Tree – 74 Species

Fauna	
Amphibian - 6 Species	Amphibian – 17 Species
Fish - 4 Species	Fish - 16 Species
Avifauna - 31 Species	Avifauna – 92 Species
Butterflies – 4 Species	Butterflies – 28 Species
Mammals – 2 Species	Mammals – 27 Species

1.6 Ka Jingtreikam bad ka Jingtehlakam ia ki Jingma:

Ka jingpeit ia ka jingma ka dei ka jingpule ba dap da ka jingbamtkna bad mad jingma ha ki katno katne ki jaka. Ban peitngor ia ka jingma ka dei ban ithuh ia ki jingma ba iadei bad ka jingpyntreikam mining, bad ban sgewthuh kumno bad hangno yn shem bad ianujor ia ka jingkynduh (ha ka pisa lane ha kiwei kiwei) ha ka jingmih. Ka pyni bad nujor ia ki jingma ia ki riew shimet, ki kam bad government agencies ba lah ban ioh na ka mariang lane da ki jingjia ki briew.

Tangba kin don hi kato katne ki daw kiba lah ban pynlong kaba ma ha ki por treikam/jingmaham ha ba tih ia u mawshun (major minerals). Ia ki jait jingma la pynithuh por tih mawshun bad la pyni harum:-

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 jingüt ia ki jingma ba ktah na ka jingpynjot

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

Step 3: Ki jingwengnloh ia ki jingjulor

Step 4: Ka jingtibniah 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



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1.7 Ka Jingpynkreh bad ban tehlakam na ka jingjot jongka Mariang(EMP):

Impact	Mitigation Measures
Jinglong bad ka jingpynkhreh na ka bynta Jaka	
Ka khyndew kan sa julor namar ba tih bad bret ia ki jaboh.	<ul style="list-style-type: none"> ➤ Ka jingkyllum ban tih ia ka thliew kan long 1.17 ha na ka 0.35 ha., yn pyndonkam kum ban buh um 0.82 ha. yn pyndap khyndew, ban kam biang bad pynbha da kaba thung jingthung hapoh ka jaka ba la mang.
Jinglong bad ka jingpynkhreh na ka ban ym pynjaboh pynjaklia ia ka um Um	
Ban pyllait ia ki um jakhlia na ka Jaka Trei. Ka jingiakynduh ka um khyndew por pyntreikam ha ka jingtih.	<ul style="list-style-type: none"> ➤ Kannym don jingpyllait um jakhlia na ka jaka tih. Jaka tih (0.35 ha.) kan long kum ka jaka buh um. ➤ Kat kum ka Mining Plan ba la shim bad ka PMCP, ka jingheh jong ka pit (820 mSL) kan long hajrong ka um khyndew bad kan ym kynduh.
Jinglong bad ka jingpynkhreh na ka ban yn ym pynsniew Lyer	
Pumpum kan her por tih, por rah bad pynhiar. Ki lyer jaboh kin bha na ba iaid kali.	<ul style="list-style-type: none"> ➤ Ia ki kali bai aid ha ka jaka treikam yn shna bad peit bha ban buh ka jingmih lyer hapoh ki adong. ➤ Ha jaka pynhap bad pynkiew bad ki lynti iaid, yn pynbuu um ban pashaid ban pynduna ka jingmih kynpum. ➤ Ha ban pyrthuh ia ka jingkylla ha ka jinglong jong ka lyer, AERMOD version 8.8.0 model la pyndonkam. Ka baheh tam ba pynkiew ia ka jingkhleh khyndew PM₁₀ & PM_{2.5}, NO_x & CO na ki bapher ki jaka ba tih ha ka por pule (pyrem) la iohi ba ka long 3.1137 μg/m³, 2.2240 μg/m³, 0.21 μg/m³ bad 0.00034 mg/m³ respectively. ➤ Ki jingmih kan iai don hapoh ka National Ambient Air Quality Standards na ki bynta ki kharkhana/ jaka sah briew.
Jinglong bad ka jingpynkhreh na ka bynta Jingsawa	
Jingsawa na ka daw ba leh mining Jingsawa na ka daw ba iaid kali.	<ul style="list-style-type: none"> ➤ Ka jingsawa na baroh ki jaka ka long man ka por bad hatang por treikam. ➤ Ka jingthew ia ka jingsawa ba la shim data ha ka jaka ka long hapoh ka adong jong ka National Ambient Noise Quality Standards ➤ Ka jingdon jong ka jingsawa ka long duna ha kane ka jaka ba la kah ki lum ki wah/ba shna kali.



Ka Jingioh Jingkot ne Ka Jingiarap na ka bynta ki Brie

- | | |
|---|---|
| <ul style="list-style-type: none"> ➤ Jingiohkam ➤ Jingpeit bniah iaka jingkot jingkhiah ➤ Jaka ai pule | <ul style="list-style-type: none"> ➤ Ka jingtreikam mining kam ktah than ia ka jingioh jingkot ki brie ➤ Kam don jingkynriah (0) ha ka jaka ba la mang ban leh mine. ➤ Kumba 41 ngut ki nongshong shnong kin ioh lad treikam ryngkat bad ka jinghikai man ka por ban pyntbit ki sap bapher. ➤ Ki rukom bathymmai ban aikam/ioh pisa yn sa ioh pynmih. ➤ Ka jingpeit ia ka jingkoit jingkhiah man ka por da ki health camp. ➤ Ka jingiarap skul bad ioh scholarship ia ki khynnah yn ai. |
|---|---|

Jingmih ha ka Mariang

- | | |
|--|--|
| <ul style="list-style-type: none"> ➤ Jingktah jong ka jingkylla ha jinglong jingman jong ka mariang ➤ Ki mrad bad ki jingthung ki ban shah ktah. | <ul style="list-style-type: none"> ➤ Ka jingpyntreikam ia ka minning kan don ka jingktah bapur bha ia ki mrad bad jingthung jingtep. Ka jinglong jong ka projek ka long ban iarap ia ki jinghung jingthep ha ka jak aba la thmu. ➤ Ki jingthung jingtep ba don ha ka jaka mining ki long ki dieng bad sanium. Kinnym shah pynthud na ka daw ka jingpyntreikam mining. Te, ka jingktah ia ki jingthung jingtep kan long kaba duna. ➤ Ki jingheh jong ki jingthung hajan bad shajan ki jaka sah. Ka jingsawa bad khhin na ka daw ba pynbthei bad jingtreikam ki machine kin beh ia ki mrad na khlaw bad ki sim na ki skum hajan. ➤ Ki jaka ba kyllum bad ki jaka ba pyniakhlad ki long jah na ki jaka mariang ba kloj ban shah ktah. Te ka jingktah ia ka jinglong jingman jong ka mariang bad ki mrad ka long ba duna. ➤ Ia ka Green belt yn pynroi bad u pud u sam u riew shimet ba ai wai ban long kum ka kynroh na ki jaboh ia ka jinglong jingman ka mariang. ➤ Ka la don ruh ka jingiashimti ia ka jingthung jingtep ha ka lynti iaid kali jong u nongshimwai bad ka surok ba ia snoh lang. ➤ Ka jingpynbthei, pynsawthliew bad jingrah yn pyntreikam tang ha ka por mynsngi ban pynduna ia ka jingktah ia ka jingiaid ki mrad na khlaw. ➤ Baroh ki jingdonkam ban peit ia ka jing jaboh yn shim da u nongshimwai ban pynduna ia ka jingktah ia ka mariang ba ker sawdong. |
|--|--|



1.8 KA PROGRAMME NA KA BYNTA BAN PYN NEH IA KA MARIANG

Ka jingpynkhreh ia ka jingmang jong ka pisa na ka bynta ka Programme ban pyn neh ia ka Mariang ka long kumne harum:-

Table 1.10: Provision for Environmental Protection Measures

SL. No.	Description	Capital Cost (Rs. In Lacs)	Recurring Cost (Rs. In Lacs)
1.	Environmental Monitoring (Air, Water, Noise and Soil)	--	2.00
2.	Occupational Health and Safety (Initial & Periodical Medical Check-ups)	1.00	0.50
3.	Green Belt (phase wise greenbelt development during plantation plan period)	4.35	0.44
4.	Construction & Maintenance of Settling Tank, Garland Drains etc.	1.00	0.40
5.	Provision of fencing around mine pit	1.00	0.20
6.	Environmental Awareness Program	--	0.50
7.	Rain Water Harvesting	1.00	0.25
8.	Socio EMP	0.47	--
Total		8.82	4.29

1.9 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.



