

Project:- "Boulder Stone Mine"	
Applicant:- Shri Khrikshon Lyngkhoi	Ka Jingpynbna bad Ka Jingpynkut

KA JINGPYNBNA BAD KA JINGPYNKUT

1 KA JINGSDANG:

Ka "Boulderstone Mine" kaba ha - Syllai Madan, Laitkynsew, Laitlyngkot Khyrim Syiemship, District- East Khasi Hills, State- Meghalaya. Ka jaka bala wai baroh jong kane ka projek ka long 4.23 Ha. Ia ka kam tih mawthup yn pyntreikam da ka rukom tih mawthup kaba plie da kaba shu khlone ia ka khyndew da ki kor ki bor bad sa kaba shu ksam shapoh.

/Ia ka jingtreikam jong ka projek la buh kyrteng 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 ia ka tnat 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 mawthup 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 9.22 Ha.

1.1 KYRTENG JONG KA JAKA:

Ka projeck ba la mang ha shnong Syllai Madan, Laitkynsew, Laitlyngkot Khyrim Syiemship, District- East Khasi Hills, State- Meghalaya. Ka jaka ba la ai wai ka long 4.23 ha ryngkat ka jingthmu ban pynmih mar 4,75,200 TPA ROM (Mawthup- 95,040 TPA & Ki jakhlia/ki marpoh khyndew - 3,80,160 TPA)

1.2 KA JINGPYN BNA SHAPHANG KA MINING:

Sl. No.	Particulars	Details
1.	Kyrteng jonkg ka Project	"Boulder Stone Mine"

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2.	Jaka	Village- Syllai Madan, Laitkynsew, Laitlyngkot Khyrim Syiemship, District- East Khasi Hills, State- Meghalaya
3.	Jingheh ka Jaka	4.23 Ha.
4.	Jait Jaka	Private Land
5.	Ka jingpeit na ka liang ka jing Khynniuh u Jumai	zone V very high damage risk zone (MSK IX or more) category

2 KA JINGBATAI BNIAH NA KA BYNTA KA PROJECT:

Ha kaba sdang ia ka shithi jingthmu (LOI) na ka bynta ban tih Mawthup, ka jingheh: 4.23 hectare la mynjur ha ka liang jong u Shri Khrikshon Lyngkhoi da ka Ophis jong u Divisional Forest Officer Khasi Hills Division, Shillong ha ka liang jong u Shri Khrikshon Lyngkhoi vide order No.KH/8. ML/Maw/69/332 ba la buh tarik 19.04.2018.

Ia ka Mining Lease la ai da ka Office of Divisional Forest Officer Khasi Hills Division, Shillong ha ka liang jong u Shri Khrikshon Lyngkhoi vide order NO.KH/8/KL/196/3953 dated 10.09.2018.

LOI Ka jingpynjlan por da ka Ophis jong u Divisional Forest Officer: East Khasi Hills & Ribhoi Territorial Division Shillong vide ka hukum No.KH/8/ML/stone/69/1705 dated 10.07.2024 na ka bynta 3 bnai naduh ba pynmih ia kane ka shithi.

Ka jingmynjur ia ka Mining Plan ba la ai sha ka DEIAA ban ioh ia ka EC la mynjur da u Mining Engineer, Directorate of Mineral Resources Meghalaya: Shillong vide order No.DMR/MM/116/2017/2090 dated 08.01.2018.

Kham mynshwa ia ka EC ba la pynmih da ka Ophis jong u Deputy Commissioner: DEIAA, Eastern Khasi Hills District, Shillong, Govt. jong ka jylla Meghalaya vide hukum No.EKJ.20/17/2017/17/72/543 jong ka 08.08.2018.

Ym shym la don satia kano kano ka jingpynmih mar naduh ka mining lease haduh kine ki sngi, bad yn sdang noh hadien ba la ai ia ka Environmental Clearance (EC) na ka SEIAA Meghalaya.

Ka jaka ba ai wai ban tih mawthup ka long 4.23 ha ryngkat ka jingtyrwa ban pynmih ia ka ROM kaba 4,75,200 TPA (Mawthup - 95,040 TPA & ki jakhlia/ki marpoh khyndew - 3,80,160 TPA).

Ia ki rukom tih mawthup yn pynlong da ka rukom tih kaba plie.

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2.1 KI STAD PEIT KHYNDEW:

2.1.1 Ki stad peit khyndew na ka thain lajong hi.

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

Table 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

Source: - Approved Mining Plan dated 10.06.2024

2.1.2 Ka Jinglong Jongka Jaka:

Ka dur khyndew jong katta ka jaka ka long ba long loom. Ka jingkiew hapoh ka jaka ba la mang ka long 1815 mRL ka jingkhian kaba heh tam haduh 1790 mRL ka jingkhein kaba rit tam. U marpoh khyndew u paw ha ka jaka lease baroh kawei.

Ka jingtuid um ha ka jaka ba la ai wai ka long kaba jan shaphang mihngi. Ka jingtuid um kaba kyllum shabar jong ka jaka ka long kaba la jan shaphang shathie. 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.

2.2 GEOLOGICAL AND MINEABLE RESERVES

Details are as follows: -

Table 2 UNFC Classifications of mineral reserves

A) Total Mineral Reserves	UNFC Code	Boulder Stone (Tonnes)
Proved Mineral Reserves	111	13,66,600
Probable Mineral Reserves	121 & 122	16,31,700
Total Mineable Reserves		
B) Total Remaining Resources		
Feasibility Mineral Resources	211	2,41,160
Pre-Feasible Mineral Resources	221+222	6,99,420
Measured mineral resources	331	
Indicated Mineral resources	332	
Inferred Mineral Resources	333	7,77,040
Reconnaissance mineral resource	334	



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Life of Mine	= Minal Reserves (Tonnes)/Average Production (Tonnes)
	= 29,98,300 /3,80,160 = 7.97 or Say 08 years

2.3 KA RUKOM TIH IA U MARPOHKHYNDEW:

Ka rukom tih ia u maw kan long da kaba shu khleng 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:-

- Ia ka jingbthei yn leh da ki thliw kiba lyngkot ne kiba jrong da ka jingbit jong u DGMS .
- Ia ka jingjrong bad jingheh jong ka ben yn buh 6m hynrei u trai u lah ban pan jingbit na ka DGMS na ka bynta ka jingjrong jong ka ben kaba palat ia ka 6m.
- Baroh hynniew tylli ki ben yn pynroi, kitta na ki kyrdan Bench 1781 mRL (ka ben ba ha khlieh duh), 1775 mRL, 1769 mRL,1763 mRL, 1757 mRL, 1751 mRL, 1745 mRL (ka ben kaba rit tam).
- Yn pynbiang ia ki surok ban leit sha ki ba ha khmat duh bad yn pynbha na ka por sha ka por na ka bynta ka jingleit jingwan jong ki kali.
- Ka ranad jong ka ben kan ai 85°. Ka jingkit marpoh khyndew ka long beit na ki thliw ne na ka jaka buh marpoh khyndew ba shipor.
- Ia ka khyndew kaba lah ban wan ha ka por tih ia u mar ha ki jaka ne ha ki thliw yn sa khleh bad buh kyrpang ban pyndonkam ha ka por thung ha man la ka por tlang.
- Ia ki jaboh jabaiñ yn bret shabar jong ka jaka bad shi bynta hapoh ka jaka ba la ai wai. Ha ka jaka shaphang shathie lam mihngi ha ka jaka ha ka jaka kaba heh 0.12 ha na ka bynta 8 meter ka jingjrong ha ki ar tylli ki terrace kiba jrong 4 meter kawei kawei.
- Yn pynbiang ia ki jingker maw bad yn pynneh pynsah sha ka liang kaba kham jrong jong ki jaka bret niut ban kem ia ka jingsait kaba jem.
- Ka jingtih maw ka long da kaba sngem ne da kaba pyndonkam da ki tiar pynduh dewbilat.
- Yn pynbiang ia ki nala um ba don ki kynroh sawdong jong ka thliw ban peit ia ka jingrung jong ka um kaba tuid ha ka por tlang sha ka thliw trei.
- Ka jingshakri jong ka jaka kum ka ophis jong ka jaka, ka tank um, ka jaka trei, ka kamra bam, ka kamra shet bad kiwei kiwei bad yn pynneh pynsah hajan ka jaka tih mawthu ha ka jaka jong u nongshim wai hi.

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2.4 KHYNDIAT SHAPHANG KA JINGPYNMIH IA U MAR:

Ka jingpynmih ia u maw katkum ka snem na ka bynta san snem kan iaid katkum ka table harum .

Table 3 Production Details

Year	ROM (T)	Mineral Boulder Stone (T)	Waste/sub-grade of Stone (T)
1 st	4,62,000	92,400	3,69,600
2 nd	4,62,000	92,400	3,69,600
3 rd	4,68,600	93,720	3,74,880
4 th	4,68,600	93,720	3,74,880
5 th	4,75,200	95,040	3,80,160
Total	23,36,400	4,67,280	18,69,120

***Source: - Approved Mining Plan with PMCP dated 08.01.2018**

2.5 KA RUKOM PYNDONKAM IA KA KHYNDEW

Ka plan pyndonkam jaka jong ka jaka ban tih ia u maw ban kynthup ia ki bynta shwa ban pyntreikam, ka jingpyntreikam bad hadien ka jingpyntreikam la ai harum .: -

Table 4 Land Use Pattern

S. No.	Land use Category	Present (Ha)	End of 5 th year (Ha)	End of mine (Ha)
1.	Top Soil Dump	--	0.01	--
2.	Waste Dump	--	0.12	0.12 (Reclaimed by plantation)
3.	Excavation (voids Only)	--	3.25	3.31 (Plantation on upper benches – 0.81 ha & Water Reservoir-2.50 Ha)
4.	Roads	--	0.04	--
5.	Build-up Area	--	0.01	--
6.	Township Area	--		--
7.	Afforestation	0.2	0.80	0.80
8.	Reclamation (Backfilled)	--	--	--
9.	Mineral Storage	--	--	--
10.	Processing (Crushing)	--	--	--
11.	Undisturbed area	4.03	--	--
Total		4.23	4.23	4.23



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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 pule. 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: - : -

Table 5 Sampling Location

Sampling Location	Distance (Km)	Direction	Components
Mine Site	--	--	Air, Water, Noise, Soil
Pomlum	1.3	ENE	Air, Water, Noise, Soil
Mawkajem	1.1	ESE	Air, Water, Noise, Soil
Dymmlew	2.6	SSE	Air, Water, Noise, Soil
Umtieh	2.5	S	Air, Water, Noise, Soil
Lewmawlong	2.1	WNW	Air, Water, Noise, Soil
Setthliew	5.3	NNW	Air, Water, Noise, Soil

3.1 KA JINGLONG JINGMAN KA JAKA:

3.1.1 Ka jinglong ka khyndew.

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

pH	:	7.21 to 7.64
Soil Conductivity	:	275.0 to 416.15 μ mhos/cm
Available Nitrogen	:	0.021 to 0.046 Kg/ Hectare
Phosphorus as P	:	10.67 to 14.3 mg/kg

3.2 KA JINGLONG KA UM:

3.2.1 Ka um napoh khyndew.

La pyrkhat ia hynniew tylli ki nuksa um hapoh khyndew ki nuksa ba la leh ia ka jingpule. Ki jingmih na ka jingpeit bniah ki long kumne harum: -

Ka jingmih na ka jingpeit bniah ka pyni ba la shem ba ka pH jong ka um hapoh khyndew ka don hapdeng 7.25- .7.88. La lap ba ka TDS ka long hapdeng 298-378 mg/l. katba ka jingkhlain jong ka la lap ba ka long hapdeng 148 bad 190 mg/l. Ka jingdon jong ka fluoride

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ka long naduh 0.16 haduh 0.26 mg/l. Kiwei pat ki jingthew kum ka calcium, ka magnesium, ka kloraid, ka sulphate, bad ka nitrate baroh ki long hapoh ki kyndon ba la buh.

Ha ka jingialang, ka jingpeit bniah ia ka um ka la pynthikna ba baroh ki jingthew ki iahap bad ki kyndon ba la buh da ka IS: 10500. Kum ka jingmih, ia ka jinglong jong ka um la kheiñ ba ka long kaba lah ban dih, kaba pynlong ia ka ban long kaba bit ban dih.

3.2.2 Ka um ba don ha sla khyndew:

Ka jingmih na ka jingpeit bniah ka pyni ba la lap ba ka pH jong ka um ba don ha sla khyndew ka don hapdeng 7.36 haduh 7.59. Ka COD bad ka DO la lap ba ki don hapdeng 15 haduh 18 mg/l bad 7.3 haduh 7.6 mg/l.

3.3 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 98 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 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 briew.

Ka jingmih na ka jingpeit bniah ia ka jinglong ka lyer ka pynpaw ia kine ki jingpeit bniah harum: Na ka bynta u PM10, la buh jingthoh ia ka jingkhluit kaba heh tam ha ka jaka jong ka Mine (87.48 µg/m³) bad kaba duna tam ha Shettliew (61.64 µg/m³), baroh ar ki sah hapoh u pud 24 kynta uba long 1000. ug/m³. Ka jingdon jong ka PM2.5 ka long naduh kaba heh tam 48 µg/m³ ha ka jaka tih mawthup haduh kaba duna eh kaba 24.61 µg/m³ ha Setthliew, ruh hapoh u pud ba 60 µg/m³. Ka Sulphur dioxide (SO2) ka long kaba heh tam ha ka jaka tih mawthup (11.04 µg/m³) bad kaba duna tam ha Lewmawiong (5.55



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µg/m³), kaba sah hapoh u pud ba la buh hapoh 24 kynta kaba long 80 µg/m³. Ka jingdon jong ka Nitrogen dioxide (NO₂) ka long naduh 20.27 µg/m³ ha ka jaka tih mawthup haduh 10.81 µg/m³ ha Setthliew, hapoh u juh u pud ba la shah. La iohi ia ka jingdon jong ka Carbon Monoxide (CO) kaba heh tam haduh 1.45 mg/m³ ha ka jaka tih mawthup bad kaba duna eh ka long 0.24 mg/m³ ha Pomlum, kaba long hapoh bha ia u pud ba 8 kynta uba long 2.0 mg/m³.

Ha kaba pynkut, ki jingtip ba la buddien ki pyni ba ka jinglong ka lyer ha ka thain ha ka jingmut kaba kyllum ka iahap bad ki kyndon jong ka jinglong ka lyer ha ka ri baroh kawei ba la buh da ka CPCB ha baroh ki jaka ba la bishar bniah.

3.4 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 ianujor bad ki jingthew jong ka ri bad la shem ba ki don hapoh ki jingthew.

Ka jingpeit bniah ia ka jingsawa ka la pynpaw ba ka Leq levels ha ka por mynsngi ka long naduh 50.2 haduh 59.6 dB(A), ha kaba ka jingsawa kaba heh tam la buh ha ka jaka tih mawthup bad kaba rit eh ha Dymmiew, baroh hapoh u pud ba la buh 75 dB(A). Ha ka jingiapher, ka jingsawa ha ka por miet ha ki jaka sah briew ka long naduh 38.0 haduh 43.1 dB(A), kaba kiew tam ha Umktieh bad hiar sha ka 38.0 dB(A) ha Mawkajem. Watla ka jingkhluit ha ka por miet ha ka jaka tih mawthup ka la kiew namar ka jingkhieh jong ki kali, hynrei ka la sah hapoh ka jingkhluit kaba lah ban pdiang kaba long 70 dB(A).

3.5 KA IOH KA KOT HA KA IMLANG SAHLANG.

Ka jaka pule ka kynthup ia ka radius kaba 10.0 km na ka jaka jong ka projek, kynthup ia baroh 39 tylli ki shnong bad ki jaka sor. Hapoh kane ka jaka, lai tylli ki shnong ne ki jaka sor ki don hapoh ka jingjingai kaba 0.0 haduh 2.0 km, phra tylli ki don hapdeng 2.0 bad 5.0 km, bad 31 tylli ki hap hapoh ka jingjingai kaba 5.0 haduh 10.0 km. Ka jaka pule ka don baroh 4,037 tylli ki longiing, la sam katkum ka jingjingai kumne harum: 5.05% hapoh 0 haduh 2 km, 16.62% hapoh 2 haduh 5 km, bad 78.33% hapoh 5 haduh 10 km. Ka jingdon briew baroh ha katei ka jaka ka long 20,767 ngut, ha kaba 4.82% ki im hapoh 0 haduh 2 km, 17.63% ha ka jingjingai kaba 2 haduh 5 km, bad 77.55% ha ka jingjingai kaba

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5 haduh 10 km. Ka jingbun briew jong ki shynrang ka long 49.23% na ka jingdon baroh, katba ki kynthai ki long 50.77%, kaba pynlong ia ka jingkhein shynrang bad kynthai kaba long 1,031 ngut na man la ki 1,000 ngut ki shynrang. Ki longiing ki ju don 4 haduh 5 ngut ki dkhot, bad 21.12% na ki nongshong shnong ki don ha ka rta 0 haduh 6 snem, bad ka jingiapher jong ki kynthai ka long 973 ngut na ka 1,000 ngut ki shynrang ha kane ka rta.

Ha ka jaka pule, ka jingbun briew jong ka jaitbynriew (SC) ka long 0.01% na ka jingdon baroh, kaba don 2 ngut ki briew kiba dei ki shynrang, Ha ka jingiapher, ka jingbun briew jong ka jaitbynriew (ST) ka long 99.58%, baroh 20,679 ngut, bad ka jingkheini shynrang bad kynthai ka long 100 ngut. 1,034 ngut ki kynthai na ka shi hajar ngut ki shynrang. Ka jingnang jingstad ka long haduh 62.52%, ha kaba 60.45% ki shynrang bad 64.54% ki kynthai ki nang ban thoh bad pule. Ka jingshim bynta ha ka kam ka ieng haduh 46.82%, ha kaba ki shynrang ki don 51.49% bad ki kynthai ki long 42.29%. Ka jingiashim bynta ha ki kam ba kongsan ka long 42.89%, kaba la synshar da ki shynrang, katba ka jingiashim bynta kaba rit la iasam lang, ha kaba ki kynthai ki trei nyngkong eh ha ki kam iing kam sem bad ka rep kaba rit.

3.6 KI JINGMIH BAD JINGIM HA KA MARIANG.

Ha ka por ba bishar bniah ia ki jingthaw ba im bad ka jingsngewkhia bad ki nongshim bynta ha ka thain ka la pynpaw ba ka jaka pule jong ka projek kam hap ha ka lynti leit jingleit jong ki Sim kiba leit jingleit. Ha kawei pat ka liang, ym don uwei ruh na ki mrad kiba kongsan kiba don ha ka jaka jong ka projek bad ym don jaka shong jaka sah jong ki mrad khlaw kiba kongsan ha ka jaka jong ka projek. Baroh ki jait syntiew bad ki mrad ba la pyntip na ka jaka pdeng ki long kiba ju don bad kiba la saphriang bha ha ka jaka ba la buh kyrpang ruh. Kumta, lah ban ong ba ka projek ba la tyrwa bad ki kam kiba iadei bad ka kim lah ban ktah ia kino kino ki bynta jong ki syntiew bad ki mrad haduh katta katta tangba la pyntreikam ia ki jingai jingmut/jingai jingmut ha kane ka kaiphod. Ki jingpyntreikam kiba pyrkhing ia ki lad pynduna EMP/ ki long kiba donkam ban pynthikna ba ki jingthaw ba im jong ka jaka pule kim dei ban shah ktah ha ka rukom kaba sniew.

Table 6 Flora and Fauna Present in Buffer Zone

Buffer Zone

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**Ka
mrad ha
bad ki
jingthung
Table 7
in the**

Flora
Climbers – 19 Species
Herbs – 40 Species
Shrubs - 70 Species
Tree – 74 Species
Fauna
Reptiles - 9 Species
Butterflies – 28 Species
Study Area
Avifauna- 79 species
Cyanophyceae- Blue green algae - 06 Species
Cholorophyceae- Green Algae - 12 Species
Euglenophyceae /Flagillates – 02 Species
Bacillariophyceae-Diatoms – 11 Species

**Ecology jong ki
um (Ki jingthung
mrad) Ki**

**Phytoplankton
Study Area**

Table 8 Zooplankton at different sites of Umngot river

Taxa at different sites of Umngot river
Protozoa - 05 species
Rotifera - 09 species
Copepoda - 03 species
Cladocerans - 06 Species
Ostracods - 02 Species

4 KI JINGKTAH BA LA KHMIIH IÄ KA MARIANG BAD KI LAIN PYNDUNA

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

Ka Jinglong ka Khyndew		
Aspects	Impact	Mitigation Measures
Ka jinglong jong ka	Ka jingtih ia u mar ka pynkylla ia ka dur jong	Pyntreikam ia ka jingpynbha ia ka khyndew, pynduna ia ka jingpynthut, tehlakam ia ka



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khyndew	ka khyndew, ka pynlong ia ki jaka ba thylli, bad ka pynthut ia ka jaka.	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 jingkhluit.	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.
Ka jingpom pathar ia ki khlaw bad ka jingpynjot ia ki jaka shong jaka sah	Ka jingtih mawthup ka pynlong ia ka jingpom ia ki khlaw bad ka pynthut ia ki mariang.	Pyniaid ia ka jingthung jingtep ha ki jingkhong ba pyrkhat, sawdong ki jingtei, bad ki jaka bym pat trei; pynthikna ba palat 33% na ka jaka ba la ai wai yn thung biang haduh ban da kut ka jingtih par maw. 0.20 hectare na ka jaka ba la ai wai baroh kawei la dep ban thung. Nalor kata, yn thung 0.60 hectare da ki dieng 600 tylli hapoh ka Safety Zone bad ka jaka bym shym la trei hapoh ka jingaiwai tih mawthup ha ka por plan 5 snem ban wan . Ha ka por ba dang pyrkhat, yn thung kumba 120 tylli ki dieng ban pynskhem ia ka jaka kaba heh 0.12 hektar jong ka jaka bret jaboh, bad yn thung 810 tylli ki dieng halor ka jaka kaba heh 0.81 hektar jong ki ben ba shalor .
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 thliew 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 ai wai, pynleit jingmut ha ka jingthmu kaba bniah, ka jingpynbha, ka jingthung katkum ki bynta, bad pynroi ia ki jaka buh um. Yn pynwandur ia ka jaka buh um kaba heh 2.50
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		hectare (ki ben ba shapoh) ban pynitynnad ia ka jingitynnad jong ka jaka, ban pynbha ia ka um hapoh khyndew jong ka thain, bad ban pynbiang ia ka tyllong um na ka bynta ki nongshong shnong.
Ka jaka khih jumai V .	Ka jingtih mawthup ha ki jaka ba don jingma ka wanrah ia ka jingma kaba khraw ia ka mariang.	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 mawthup bad pynlong ia ki jingpule ia ka jinglong sngur jong ki jaka lum.
Ka jingpynkhuid ia ka jingtap khyndew bad ka jingpynmih jaboh:	Ka jingtih mawthup ka pynmih shibun ki jaboh bad ka khyndew. Katkum ka Mining Scheme ka jingmih jaboh baroh kan long 4,67,280 ton ha ka por ba thmu, bad 3,80,950 ton ha ka por ba thmu san snem ban wan.	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 jingkynmaw ba neh. Yn pyndonkam ia ki jaboh kiba bun tam ha kaba shna bad maramot ia ki surok ban leit sha ki jaka, ban shna ia ki jingshakri ha ka jaka bad ka jaka sah yn bret shabar jong ka jaka bad ia ka bynta jong ka jaka ba la ai wai. Ha ka jaka shaphang shathie lam mihngi ha ka jaka ha ka jaka kaba heh 0.12 ha na ka bynta 8 meter ka jingjrong ha ki ar tylli ki terrace kiba jrong 4 meter kawei kawei. Katto katne ki jaboh yn bret shabar jong ka jaka ha la ka jong ka jaka jong u nongshim wai. la ka jaka bret jaboh yn pynskhem da kaba pynskhem ia ki kynroh da ki maw ba la rben. Yn shna ruh ia ka jingker parapet bad ka nala um sha ka liang kaba kham rit ban peit ia ka jingsait um ha ka por tlang.
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Applicant:- Shri Khrikshon Lyngkhoi

Ka Jingpynbna bad Ka Jingpynkut

Ka Jinglong ka Um

Umpoh Khyndew

Ka jingiakynduh bad jingduna jong ka um hapoh khyndew; ki jingkylla ha ki jinglong jong ka um.

Ka jingtih par maw ka lah ban iakynduh bad pynjaboh ia ka um hapoh khyndew bad ka ktah ia ki jinglong jong ki um hapoh khyndew.

La thmu ban buh pud ia ki thliew ban kiar na ka jingiakynduh jong ki um hapoh khyndew. Ia ka jingdonkam um (8.4 KLD) yn pyndap lyngba ki tanker ban pynpoi um na ki wah um ba marjan, ym na ki um ba don hapoh khyndew. Haden ba la dep tih ia u maw, yn sa pyndap biang ia ka um 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 jakhlia ((2.0 KLD) yn pyniaid da ki septic tank bad ki thliew um. Yn pyndonkam ia ka sboh (stabilised sludge) na ka bynta ban thung jingthung.

Ka jingmih ki dawai 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 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 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 ba 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 jingtwa khyndew ban iada ia ka jinglong ka um.

Ka Jinglong ka Lyer



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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		
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 jingkhuih, 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 kor pynkhyllem.	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 Jingeh ha ka imlang	Ka jingbun bried bad ka	Yn pynlong ia ki jingiatreilang bad ki sorkar pdeng bad
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sahlang	jingtreikam ha ka ioh ka kot ka lah ban pynjynjar ia ki jingshakri ha ka imlang sahang bad ki jingtei ha ka thain.	ki seng treimon sngewbha ban kyntiew ia ki jingshakri ha ka imlang sahang. Yn pyntreikam ia ki prokram pynroi ia ka imlang sahang ban weng ia ki jingeh ha ka imlang sahang.
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.
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 mawthup 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	Ka jaka sah kaba jan tam ka jngai 1.3 km ha ENE. (Shnong – Laitkynsew). 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.
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	jong ki.	
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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 mawthup kiba kum kita da kaba beit bad khlem da beit.
- Ka jingkiew 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 sahlang bad ia ka jaitbynriew.

Ki Lad Kamai

- Kumba 55 No. ki briew kin ioh kam beit na ka projek tih mawthup.
- 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 jingtep na ka	- 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	Pynlong ia ki jingpeit bniah: la pynkhreh 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 mawthup ka don ha ka jaka jong ki riw 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 lane ki jingthung jingtep kiba sngewkhia hapoh ka jaka pule.
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bynta ban tih.	ki mrad ba im ha um. • 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.	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 Iyer 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: latreilang 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.
5 PROGRAMME KA PROKRAM BAN PEIT IA KA MARIANG: 5.1 Iyer. Yn pynlong ia ka jingpeit bniah ia ka jinglong ka Iyer katkum ki kyndon jong ka SPCB bad CPCB ..		
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5.2 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.

5.3 Ka Jingsawa.

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

5.4 KA KOIT KA KHIAH BAD KA JINGKHUID JINGSUBA:

Yn leh ia ka jingpeit bniah ia ki nongtrei man ka por bad yn pynbiang ia ki jaka sumar. Ia ka Initial Medical Examination (IME) ia leh ha ka por ba sdang, katba ia ka Periodic Medical Examination (PME) ia donkam man ia ka 3 snem ia kito kiba ia palat ia ka 45 snem bad man ia ka 5 snem ia kito kiba ia 45 snem shaneng.

Yn pynbiang ia ki painkhana bad ki jaka dih um hajan ka jaka tih par maw. Yn pynbiang ia ka um dih na ka bynta ki nongtrei.

6 KI JINGPYNBNA BA KHLEM JINGPYNBNA:

6.1 KA JINGSNGEW PAIDBAH.

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

6.2 KA JINGPYNBNA BAD JINGPYNIAID 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 kiba don ha ki kam tih mawthup, 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.



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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 mawthup (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 jingüit ia ki jingma ba ktah na ka jingpynjot

Step 2: Ki jingüit 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

7.1 Ka jingpynkut ia ki jingmyntoi jong ka projek:

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 jingïada 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.



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Ka Kam:

Ka Jingtnei Beit: Kumba 55 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 bym thikna: 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 mawthup ha ka thain.

Ki jingpynbha ha ki jingtei:

Ki Jingtnei dalade hi:

- Ka jingpynbha ia ka jingiakren ha surok bad ki jingdonkam ha ka imlang sahang.
- 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 sahang:

- Ki jingktah kiba bha ha ka roi ka par ha ka imlang sahang, 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:

- Regular medical checkups as per Mines Act/Rules. 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 sahang kiba thmu ban pynbha ia ka koit ka khiah ha ki shnong kiba marjan.

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8 KA PLAN BAN PYNIAID IA KA MARIANG

Ka Plan Pyniaid ia ka Mariang (EMP) ka thmu ban buh kyrpang ia ka mariang da kaba pyrkhat ia ki jaka pynduna ia ka jingjaboh ba la shna ha ka jaka tih par maw. Yn shim katto katne ki kyndon ba kongsan kat kum ki kyndon ka tnat jingiada ia ka mariang.

8.1 KA JINGPYNIAID IA KA JINGPYNDONKAM IA KA JAKA

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

- 0.20 hectare na ka jaka baroh kaba la ai wai la dep ban thung. Nalor kata, 0.60 hectare yn thung 600 tylli ki dieng hapoh ka Safety Zone bad ka jaka bym shym la trei hapoh ka jingaiwai tih mawthup ha ka por plan 5 snem ban wan.
- Ha ka por ba dang pyrkhat, yn thung kumba 120 tylli ki dieng ban pynskhem ia ka jaka kaba heh 0.12 hektar jong ka jaka bret jaboh, bad yn thung 810 tylli ki dieng halor ka jaka kaba heh 0.81 hektar jong ki ben ba shalor.

8.2 KA JINGPYNBNA BAD JINGPEIT BNIAH IA 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.

8.3 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.



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- Ka jingtista ban pynkhuid ka iarap ia ka lyer ban lait na ki pum pum.
- 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.

8.4 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 kylliang ia kiba dei ban kylliang.
- 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
khnanng 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.

8.5 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

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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 pynsgewthuh ia ki nongtrei ka donkam.

8.6 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 55 ngut ki trai shnong kin ioh trei beit directly bad kum 20-30 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.

8.7 KA PLAN BAN TEHLAKAM IA KA JINGMA IA JINGIM :

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

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ka EMP bad ka projek kan sa wanrah ka jingktah babha ha ka jaka pule.
