

Project:- Amsyndui Limestone Mine	
Applicant:- Smt. Dukani Tariang Jarain	Executive Summary

KA JINGPYNSNGEW IA KABA DONKAM

1 KA JINGPYNITHUH

Ka “Tih Mawshun Amsyndui” kaba don ha Amsyndui, Nongtalang, District-West Jaintia Hills (Meghalaya). Ka jingheh jong ka jaka jong ka projek ka long 4.30 Ha. Ia ki kam tih mawshun la/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 tnad ka mariang, khlaw bad jingkylla ka suinbneng ha ka 12 tarik u Naiwieng, 2018 “Lada ka jingheh jong ka kynhun ne ka jingaiwai shimet ka palat ia ka 5 ha dei ban pyntreikam ia ka EIA/EMP ha ka rukom ai jingbit shwa ia ka mariang”. Ka jingheh jong ka cluster baroh ka long 32.14 Ha.

1.1 KYRTENG JONG KA JAKA:

Kane ka jaka par tih mawshun ka don ha Amsyndui, Nongtalang, District-West Jaintia Hills (Meghalaya). Ka jaka ba la ai wai ban tih mawshun ka long 4.30 ha.

1.2 DETAIL OF MINING LEASE

S. No.	Particulars	Amsyndui Limestone Mine
1.	Kyrteng jonkg ka Project	Amsyndui, Nongtalang, District-West Jaintia Hills (Meghalaya)
2.	Jaka	4.30 Ha.
3.	Jingheh ka Jaka	Amsyndui Limestone Mine
4.	Jait Jaka	Private Owned Land
5.	Ka jingpeit na ka liang ka jing Khynniuh u Jumai	zone V very high damage risk zone (MSK IX or more) category



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1 KA JINGBATAI IA KA PROJEK.

Ha kaba sdang la ai ia ka shithi jingthmu (LOI) na ka bynta u mawshun, ka jaka: 4.30 hectare ha ka liang jong ka Smt. Dukani Tariang Jarain vide ka shithi no. JH/MMMCR-2016/2016-17/869/B/494 kaba la buh ha ka 25.05.2017.

Hadien ini da yoh leh ya ka Environmental Clearance da ka DEIAA, West Jaintia Hills District, Jowai lyngba ka chithi no. GEN-233/Mining Plan/ DTariang / 2018/113-119 dated 07.02.2019. Hadien kata, la ai ka par mawshun ha ka liang jong ka Smt. Dukani Tariang lyngba ka shithi no. JH/ML/D.T/LS/2019-20/1026/B/1775 dated 24.06.2019 na ka bynta ka por ba 7 snem.

Ia ka Mining Scheme kaba mynta bad ka PMCP la mynjur da ka ophis jong u Divisional Mining Officer, West Jaintia Hills Jowai, Govt. jong ka Meghalaya ha ka kyrteng jong ka Smt. Dukani Tariang ka shithi no. DMO-J/94/MM/ M-Scheme/LS/2024-25/01 Ka jingpynbna kaba la buh ha ka 29.04.2024.

Ka jinglah ban pynmih na ka jaka ba la mang ka long kumba 12,91,280 MT ban pynmih ia u mawshun ha ka dor kaba 2,86,800 TPA jong ka ROM (U mawshun: 2,58,125 & Ka jaboh khyndew/ba la kyntait: 28,675). Ia ki kam tih mawshun la/yn pynlong da ka rukom tih mawshun kaba la pyndonkam da ki mashin ban plie ia ka jaka.

1.1 KI STAD PEITBNIAH IA KA KHYNDEW

1.1.1 Ki stad peitbniah na ki trai shnong ne trai ri.

Ka jingbud ryntih jong ki maw ha ka jaka ba la mang 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 29.04.2024

1.1.2 Ka Jinglong bad ka dur Jong ka Jaka.

Ka jingkiew hapoh ka jaka ba la mang ka long 810 mRL ka jingjriong tam haduh 729mRL ka jinglong ba hapoh tam. U marpoh khyndew u paw ha ka jaka ba la mang baroh kawei.

Ka jingtuid um ha ka jaka ba la mang ka long kaba jan shaphang shathie lam mihngi. Ka jingtuid um kaba kyllum shabar jong ka jaka ka long la jan shaphang shathie lam mihngi da ki nalah bym ju im slem. Ka jaka ka long kaba lum bad kaba don maw.



1.2 KA JINGPEITBNIAH BAD KA JINGLAH BAN PYNMIIH.

Ki jingbatai ba bniah ki long kumne harum .: -

Table 2 UNFC Classifications of mineral reserves

A) Total Mineral Reserves	Limestone (Tonnes)
Proved Mineral Reserves	12,07,580
Probable Mineral Reserves	83,700
Total Mineable Reserves	12,91,280
B) Total Remaining Resources	Limestone (Tonnes)
Feasibility Mineral Resources	29,53,340
Pre-Feasible Mineral Resources	21,78,960
Inferred Mineral Resources	9,05,060

Life of Mine	= Minal Reserves (Tonnes)/Average Production (Tonnes)
	= 12,91,280/2,58,125= ~ 5.002 Yrs. = 05 Years

1.3 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.
- Yn pynbiang ia ka jingker nar sawdong ki jaka treikam ba la tyrwa bad kiba la don lypa ban peit ia ka jingrung khlem da thmu jong ki briew bad ki mrad ha ka jaka tih mawshun.
- Ia ka khyndew kaba lah ban wan ha ka por tih mawshun ha ki jaka ne ha ki thliw yn sa khleh bad buh kyrpang ha ka jaka kaba 0.02 ha hajan u maw '1' ban pyndonkam ban thung ha ka por tlang.
- Yn thung jingthung da kaba biang ha ka jaka ba la trei bad ha ka jaka ba hajan ha man la ka monsoon bad yn sa pyntip sha ka tnad ba dei peit ryngkat bad ki dur.
- 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.



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- Ia ka um dih yn wanrah na shnong ba marjan bad yn buh ha ki khiew um na ka bynta ban dih bad ha ki top ne tanky ba la shna da ka cement na ka bynta kiwei pat ki jingdonkam.
- Ia ki jingtrei yn leh da kaba pynbha ia ki bench kiba biang.
- Ia ka khyndew la tyrwa ban bret ha ka liang ba shathie lam mihngi jong ka jaka ba trei hajan u pillar '1' ha ka jaka kaba heh 0.10 ha na ka bynta ka jingjrong kaba 6 meter ha ki ar tylli ki phyllaw kiba jrong 3 meter kawei kawei.
- Ki jingshakri ha ka jaka kum ka ophis jong ka jaka, ka tank um, ka jaka trei, ka kamra shet & bam, ka paikhana bad kiwei kiwei la dep pynbiang bad yn pynneh pynsah hajan ka jaka tih mawshun ha ka jaka ba la mang.
- Ha ka por jong kane ka mining scheme u trai parmau un pynroi ia ki shiphew tylli ki bench i.e. Na ki kyrdan bench 804mRL(ba halor), 798mRL, 792mRL, 786mRL, 780mRL, 774mRL, 768mRL, 762mRL, 750mRL, 476mRL, 738 mRL, 732 mRL, 726 mRL, 720 mRL, 714 mRL, 708 mRL, 702 mRL bad 696 mRL (Ka bench ba shapoh).
- Ia ki surok ban leit sha ki faces yn pynbiang na ka por sha ka por na ka bynta ka jingleit jingwan jong ki kali.
- Ka jingjrong bad jingheh jong ka ben la tyrwa 6 meter hynrei u nongshim wai u lah ban shim jingbit na u DGMS na ka bynta ka jingjrong jong ka ben kaba palat ia ka 6 meter.
- 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.
- U trai par un trei katkum ka ain ia ki bench kiba biang bad pynbun ia ki bench katkum ka jingdonkam.

1.4 KA JINGTIP SHAPHANG KA JINGPYNMIH IA U MAR

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

Table 3 Production Details

Year	ROM (TPA)	Mineral Limestone (TPA)	Waste / sub-grade (TPA)
1 st Year	2,86,800	2,58,125	28,675
2 nd Year	2,86,800	2,58,125	28,675

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3 rd Year	2,86,800	2,58,125	28,675
4 th Year	2,86,800	2,58,125	28,675
5 th Year	2,86,800	2,58,100	28,700
Total	14,34,000	12,90,600	1,43,400
<i>*Source: - Approved Mining Scheme with PMCP dated 29.04.2024</i>			

1.5 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: -

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	0.02	0.00
2.	Overburden Dump	0.10	0.10	0.10 (Reclaimed by plantation)
3.	Excavation (Voids Only)	2.40	3.26	*3.26 (Water Reservoir -1.05 Ha, Plantation on Upper Benches-1.54 Ha, Backfilled area - 0.67 Ha)
4.	Road	0.10	0.10	0.10
5.	Built Up Area	0.00	0.00	0.00
6.	Township Area	0.00	0.00	0.00
7.	Afforestation	0.10	0.20	0.30
8.	Reclamation (Backfilled)	0.00	0.00	*Backfilled area - 0.67 Ha
9.	Mineral Storage	0.00	0.00	0.00
10.	Sub – grade stack yard	0.00	0.00	0.00
11.	Undisturbed Area	1.69	0.62	0.54
Total		3.40	4.30	4.30

Source-Approved Mining Plan with PMCP 29.04.2024

2 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

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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:-

Table 5 Sampling Location

Sampling Location	Distance (Km)	Direction	Components
Mine Site (Smt. Dukani Tariang Jarain)	--	--	Air, Ground Water, Noise, Soil
Amjajer Roko	1.6	ENE	Air, Ground Water, Noise, Soil
Amsotai	4.5	SE	Air, Ground Water, Noise, Soil
Nongtalang	2.8	SW	Air, Ground Water, Noise, Soil
Lamin	5.9	WSW	Air, Ground Water, Noise, Soil
Amtapoh	3.0	NNW	Air, Ground Water, Noise, Soil
Umngot River (Upstream)	7.0	WSW	Surface Water
Umngot River (Downstream)	7.3	WSW	Surface Water

2.1 KA JINGLONG KA JAKA

2.1.1 Ka jingbha ka khyndew.

La lum ia ki nuksa khyndew ha ki phra tylli ki jaka shim nuksa kiba long ki nongmihkhmat. Ia ka jingmih na ka jingpeit bniah ia ka khyndew la ai harum:-

pH	:	7.29 to 7.64
Soil Conductivity	:	326 to 508 μ mhos/cm
Available Nitrogen	:	0.02 to 0.03 Kg/ Hectare
Phosphorus as P	:	10.84 to 14.3 mg/kg

2.2 KA JINGLONG JONGKA UM.

2.2.1 Ka um napoh khyndew.

La pyrkhat ia hynriew tylli ki nuksa um hapoh khyndew bad ar tylli ki nuksa um ba ha sla khyndew 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 hapteng 7.18-7.89. La lap ba ka TDS ka long hapteng 302-390 mg/l. Kiwei pat ki jingthew kum ka Calcium, Magnesium, Chlorides, Sulphates bad Nitrates la lap ba ki palat ia ki kyndon hapoh ki kyndon ba la buh. Ka jingpeit bniah ia ka met – ka dawai 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 ym lah ban dih ha ka mariang.



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2.2.2 Ka um 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 7.48 haduh 7.51. Ka COD bad ka DO ki don hapdeng 12 haduh 14 mg/l bad 7.1 haduh 7.5 mg/l.

2.3 KA JINGLONG JONG 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 lyer kaba ryntih na ka bynta ki jingpynjakhlia kiba la buh kyndon (PM10, PM2.5, NOX, SO2 bad CO) ha ki phra tylli ki jaka peit bniah ia ka jinglong ka lyer kiba mihkhmat.

2.3.1 Ka jingpeit bniah ia ka jinglong ha lyer sawdong:

La pynlong ia ka jingpeit bniah ia ka jinglong ka lyer sawdong da kaba pynlong ar sngi ha ka shi taiew ha ki hynniew tylli ki jaka kiba kynthup ia kawei ka aiom kaba pura kata u bnai risaw 2023 haduh u bnai nohprah 2023.

Ki jingkhein jingdiah bapher bapher kum ka 98 percentage, ka jingkhein pdeng, ka jingkhein kaba heh tam bad kaba rit eh la khein na ki jingkhein ba la peit bniah. ki data na ka bynta baroh ki jaka peit bniah ia 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.

Ia ka jingpeit bniah kaba la pynshong nongrim ha ka jingpule bniah ia ki jingmih la lum lang harum:-

PM10:- Ka jingheh jong ka PM10 kaba la iohi ha ka jaka tih mawshun ka long 78.5 µg/m³ bad kaba rit eh jong ka PM10 kaba la iohi ha Nongtalang ka long 42.12 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.

PM2.5:- Ka jingheh jong ka PM2.5 kaba la iohi ha ka jaka tih maw ka long 33.53 µg/m³ bad ka jingkheñ kaba rit tam na ka bynta ka PM2.5 kaba la iohi ha Nongtalang ka long 18.07 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 ba la iohi ha Lamin ka long 15.89 µg/m³ bad ka jingkhein kaba rit tam na ka bynta ka SO2 ba la iohi ha ka jaka tih maw ka long 3.8 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.



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NO_x: - Ka jingkhein kaba heh tam na ka bynta ka NO₂ kaba la iohi ha Amsohtai - 20.55 µg/m³ bad ka jingkhein kaba rit eh na ka bynta ka NO₂ kaba la iohi ha ka jaka tih maw ka long 5.39 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 kaba la iohi ha ka jaka tih mawshun- 1.54 mg/m³ bad ka jingkhein kaba duna eh na ka bynta ka CO kaba la iohi ha Nongtalang ka long 0.36 mg/m³. Ka jingbuh por 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 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.

2.4 KA JINGLONG JINGMAN JONGKA JINGSAWA.

Ia ka jingpeit bniah ia ka jingsawa la pynlong na ka bynta ban tip ia ka jingsawa ha ki 8 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. Ki jingtip ba la lum ki long: -

Table 6 Ambient Noise Level Status

Location	Date of Sampling	Day Time (6.0 AM to 10.0 PM)	Night Time (10.0 PM to 6.0AM)
Mine Site	08.10.2023	58.8	42.6
Amjajer Roko	24.10.2023	53.1	41.5
Amsohtai	05.10.2023	52.4	38.2
Nongtalang	04.11.2023	50.7	40.1
Lamin	18.11.2023	52.2	43.4
Amtapoh	23.11.2023	53.0	42.8
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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2.5 KA IOH KA KOT HA KA IMLANG SAHLANG.

Ka jaka pule ka kynthup ia ki 34 tylli ki shnong kiba don hapoh 10 km ka jaka na ka jaka ba la tih mawshun. Ha ka jaka pule, ki don 3,124 tylli ki longiing kiba la sam kumne harum: 5.22% ki don hapoh 0 haduh 2 km, 43.31% ki don hapoh 2 haduh 5 km, bad 51.47% ki don hapoh 5 haduh 10 km. Ka jingbun briew baroh jong ka jaka projek ka long 17,000 ngut, ha kaba 5.50% ki shong hapoh 0 haduh 2 km, 43.24% ha ka jingjingai kaba 2 haduh 5 km, bad 51.26% ha ka jingjingai kaba 5 haduh 10 km.

Ki shynrang ki long 49.52% na baroh, katba ki kynthei pat ki long 50.48%. Ka jingkhein kynthei bad shynrang ha ka jaka pule kaba 10 km ka long 1,019 ngut ki kynthei na ka 1,000 ngut ki shynrang. Ka jingbun jong ka longiing ka long kumba 4 haduh 5 ngut. Ka jingbun jong ki khynnah kiba don ha ka rta 0-6 snem ka long 19.11% na ka jingbun briew baroh kawei, ha kaba ka jingkhein kynthei bad shynrang ka long 982 ngut na ka 1,000 ngut ki shynrang ha kane ka rta.

2.5.1 KA JINGPYNBEIT IA KA IMLANG SAHLANG.

Ha ka jaka pule, ka jingbun briew jong ki Scheduled Caste (SC) ka long 1.30% na ka jingbun briew baroh kawei, kaba long 221 ngut ki briew shimet. Ka jingkhein kynthei bad shynrang na ka bynta ka jingbun briew jong ka SC ka long 922 ngut ki kynthei na ka 1,000 ngut ki shynrang.

Ka jingdon jong ki Scheduled Tribe (ST) ka long 95.21% na ka jingbun briew baroh kawei, kaba long 16,186 ngut ki briew shimet. Ka jingkhein kynthei bad shynrang na ka bynta ki ST ka long 1,033 ngut ki kynthei na ka 1,000 ngut ki shynrang.

2.5.2 KA JINGNANG JINGSTAD HA KA JAKA BA LAH PEIT BNIAH.

Ha ka jaka pule, ia ki briew kiba la don hynniew snem shaneng kiba lah ban pule bad thoh da kaba sngewthuh ha kano kano ka ktien la khein kum kiba nang ban thoh ban tar. Ki don 9,790 ngut ki briew kiba nang ban thoh bad pule ha katei ka thain, kaba long 57.59% na ka jingbun briew baroh kawei. Napdeng kine, 55.73% ki dei ki shynrang kiba la nang ban thoh bad 59.42% ki dei ki kynthei kiba la nang ban pule, haba ïanujor bad ka jingbun briew baroh jong ki shynrang bad kynthei.

Pynban, ki don 7,210 ngut ki briew ki bym nang thoh nang tar ha ka jaka pule, kaba long 45.99% na ka jingbun briew baroh kawei. Na kine, 37.16% ki dei ki shynrang ki bym nang thoh nang tar bad 55.86% ki dei ki kynthei ki bym nang thoh nang tar, haba ïanujor bad ka jingbun briew baroh jong ki shynrang bad kynthei.



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

Ha ka jaka ba la pule, ki don 7,675 ngut ki briew kiba trei kam, kaba long 45.15% na ka jingbun briew baroh kawei. Na kine ki nongtrei, 52.99% ki dei ki shynrang bad 37.45% ki dei ki kynthei, katkum ka jingdon jong ki shynrang bad kynthei baroh.

Napdeng ki briew kiba trei, 29.66% ki trei ha ki kam ba kongsan, katba 15.48% ki trei ha ki kam ba marjan. Ka jingiashim bynta ha ka kam ba kongsan ka long kaba bun ki shynrang, ha kaba ki shynrang ki don 39.65% na kane ka kynthun. Ka jingshim bynta ha ki kam ba marjan ka pyni ia ka jingbun ki kynthei, ha kaba 17.58% na ka jingdon baroh kiba trei ha ki kam ba marjan haba ianujor bad 13.34% ki shynrang.

Ki shynrang ki kham trei ha ki karkhana rit, ka rep ka riang, bad ka kam trei kam. Pynban, ki kynthei ki shim nyngkong eh ia ki kam ba rit namar ki kam iing kam sem jong ki, ha kaba bun ki trei kum ki nongrep ba rit ha ki lyngkha jong ki.

2.6 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 7 Flora and Fauna Present in Buffer Zone

Buffer Zone
Flora
Climbers –19 Species
Herbs – 40 Species
Shrubs - 70 Species
Tree – 74 Species
Fauna
Reptiles - 9 Species



Project:- Amsyndui Limestone Mine	
Applicant:- Smt. Dukani Tariang Jarain	Executive Summary

Butterflies – 28 Species
Mammals – 15 Species
Avifauna- 79 species

1 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: -

Impact	Mitigation Measures
Jinglong ka Khyndew	
Ka jingpynkylla ia ki dur khyndew, Ka jingpynkylla ia ka tduh lum, ka jingthaw ia ka jaka thylli.	Ki lad ban pynduna ia ki jingktah na ka jingtih maw ki kynthup ia ka jingpynkylla ia ka jaka, ka jingpynduna ia ka jingpynthut, ka jingpyniaid ia ka jingtwa khyndew, ka jingpyniaid ia ka um kaba biang, ka jingiada ia ki jingthaw ba im, ka jingiatreilang bad ki paidbah, bad ka jingpeit bniah man ka por ia ki lad ban pynbha pat ha ka por bad hadien ka jingtreikam.
Ka jingtrei tih mawshun ka wanrah ia ka jingpynthut ia ka jinglong jong ka khyndew kaba ialam sha ka jingtwa khyndew, ka jingduh ia ka jingsboh, bad ka jingkhluit.	Yn shna ia ki nala um & pung um sawdong jong ka jaka theh mawshun & waste dump khnang ban iada na ka jingtwa khyndew da ka um kaba tuid. Yn pyntreikam ia ki buit kum bad ka jingthung jingthung ban iada na ka jingtwa khyndew da ka lyer & um bad ban pynphai biang ia ka mariang. Ka jingpynduna ia ka jingpyndonkam ia ki mashin kiba heh ha ka por ba slap la ai jingmut, kan iarap ban iada na ka jingkhluit jong ka khyndew. Yn shim ia ki rukom pynkylla ia ka khyndew bad ki rukom pynbha ia ka khyndew ban pynphai biang ia ka jinglong ka khyndew.
Ki projek tih parmaw bunsien ki wanrah ia ka jingpom pathar ia ki khlaw bad ka	0.10 ha jong katto ka jaka ba lah trei lah dep thung jingthung. 0.10 ha na ka jaka baroh kaba la mang ba la



jingpynjot ia ki jaka shong jaka sah da kaba pynkhuid ia ki jaka khlaw kiba heh ban tih ia ki khlaw. Kane ka pynthut ia ki mariang, ka pynkylla jaka ia ki mrad khlaw, bad ka pynduna ia ki jingthaw ba im. Nalor kata, ka jingtei ia ki jingtei bad ka jaka bret jaboh ka pynjur shuh shuh ia ka jingpynjot ia ka mariang.

don lypa hapoh ka jingthung.

Nalor kata, yn thung haduh 100 tylli ki dieng ha ka jaka kaba 0.10 ha ha ki san snem ban wan jong ka jingtih mawshun ha ka jaka ba lait 7.5 m bad ka jaka bym pat trei.

Nalor kata, yn thung 2.41 ha ka jaka bad kumba 2410 tylli ki dieng halor ka jaka bret jaboh, ki ben ba shalor jong ka thliew tih, ka jaka ba la pyndap biang bad ka jaka bym pat trei haduh ban da kut ka jingim jong ka par mawshun kaba kynthup ia ka jingheh baroh kaba 2.61 ha (60.7 %) hapoh ka jingthung jong ka jingaiwai tih parmaw.

Ki projek tih parmaw ki wanrah ia ka jingkylla ha ki jaka mariang bad ki jingpeit ba itynnad.

Yn buh ia ki jaka pynitynnad ia ka jaka bad ki jingthung jingtep, bad yn shna ia ki kam tih mawshun khnang ban pynduna ia ka jingpynthut ia ka sla khyndew kaba lah ban iohi ha ki jaka ba sngewkhia.

Yn buh ia ki jaka pynitynnad ia ka jaka bad ki jingthung jingtep, bad yn shna ia ki kam tih mawshun khnang ban pynduna ia ka jingpynthut ia ka sla khyndew kaba lah ban iohi ha ki jaka ba sngewkhia.

Ki kam tih parmaw kin wanrah ia ki jingkylla kum ka jingkylla khyndew, ka jingthaw ia ki jingtih ne ki thliew kiba heh, bad ka jingpynkylla ia ki rukom tuid um ba kynja mariang & kaba lah ban ktah ia ki jaka shong jaka sah bad ki shnong ki thaw kiba don sawdong.

Ka jinglong jong ka jaka ba la ai wai ka kynthup ia ki jaka lum. Kan don ka jingkylla ha ka jinglong ka jaka jong ka jaka ba la ai wai hynrei ka jingktah ia ka mariang kan long tang hapoh ka jaka ba la mang ia ka par maw.

Yn pynleit jingmut ha ka jingthmu kaba bniah, ka jingpynbha, bad ki lad ban pynbha pat khnang ban pynduna ia ki jingma kiba lah ban mih na ka mariang ha ka por ba jrong.

Palat 33% na ka jaka ba la ai wai yn kynthup hapoh ka jingthung jingtep haduh ka por ba la buh jingmut



kaba pynbha ia ki jingpeit ba itynnad & ka mariang. Ka jaka ba la tih baroh kaba long 1.05 ha yn pyndonkam kum ka jaka buh um ha kaba kut jong ka jingim jong u par maw.

Ka jaka kaba don ka jingma kaba khraw, ka pyni ba ki kam tih mawshun ha kane ka jaka ki lah ban pynsniew kham khraw ia ka mariang jong ka khyndew.

Ki jingpyniaid ba pyrkhing ia ka mariang, ki jingstad ba thymmai ban pynduna ia ka jingktah ia ka mariang, bad ka jingpeit bniah kaba bniah bad ka jingpyrshang ban pynbha pat hadien ba la dep tih mawshun yn pyntreikam bha. Ia ka jingkieng jong ka ben yn pynneh 85° kumba la ai jingmut ha ka plan tih mawshun ba la mynjur. Ka jingheh jong ka ben kaba rit tam kan long mar katjuh bad ka jingjrung jong ka ben. Ia ka jingpeit bniah ia ka slope yn pynlong ha ki por ba la buh.

Kan don ka jingmih jong ki jaboh khyndew/ki jaboh marpoh khyndew kiba bun bha ha ka por ba tih mawshun, kumta kan don ka jingeh ha kaba iadei bad ka jingpyniaid bad jingpynduh ia ka.

Baroh 1,43,400 ton ki jaboh kin mih ha ka por ba thmu ban tih ha ki san snem ban wan. Ia ki jaboh la tyrwa ban bret ne buh ha ka liang ba shathie lam mihngi jong ka jaka ba la tih hajan u pillar '1' ha ka jaka kaba heh 0.10 ha na ka bynta ka jingjrung kaba 6 meter ha ki ar tylli ki phyllaw kiba jrung 3 meter kawei kawei. Ia ka khyndew kaba lah ban wan ha ka por tih ha ki jaka ne ha ki thliew yn sa khleh bad buh kyrpang ha ka jaka kaba 0.02 ha hajan u pillar '1' ban pyndonkam ban thung ha ka por lyiur. 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 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

Ki jingtrei jong ki par mawshun ki lah ban iakynduh ia ka um hapoh khyndew

Ka um hapoh khyndew kan ym iakynduh ha ka por trei baroh jong ka jingtih mawshun. Ka jingdonkam



kaba lah ban pynlong ia ka jingjaboh ka um hapoh khyndew.

Ka jingshim ia ka um hapoh khyndew na ka bynta ki kam tih mawshun ka lah ban wanrah ia ka jingduna jong ka um. Kumjuh ruh ki kam tih mawshun Ki lah ban ktah ia ka jinglong rong bad ka jingkhluut jong ka um.

um na ka bynta kane ka projek ka long 5.0 KLD, kaba dang/yn pyndap lyngba ka jingpynpoi tanker na ki wah um kiba don hajan. Kumta, ym shym la pyndonkam/yn pyndonkam ia ka um hapoh khyndew na ka bynta ki kam tih mawshun.

Hadien ba la dep ia ki kam tih mawshun, dei ban pyrshang ban pynphai biang ia ki jinglah ban pyndap biang ia ka mariang.

Yn pynlong ia ka jingpeit bniah man ka por ia ka jinglong jong ka um hapoh khyndew ban lap ia kino kino ki jingkylla ha ka jinglong na ki jaboh kum ki mobil etc.

Ka um jakhlia na ka thliew soak ka lah ban tuid sha ka um hapoh khyndew bad pynjaboh ia ka.

Ka jingpynmih um jakhlia man ka sngi kan long 0.75 KLD, kaba dang/yn bret ha ki thliew um jakhlia bad ki thliew. Ia ka sbob ba la pynskhem la pyndonkam/yn pyndonkam kum ka sbob na ka bynta ban thung jingthung.

Ka Um ha Sla Khyndew

Ka jingpynjaboh ia ki wah, ki wahduid, bad ki pung kiba don hajan namar ka jingtuid um na ka jaka tih mawshun kaba kit ia ki sbob, ki nar kiba heh, bad ki dawai ka lah ban pynsniew ia ka jinglong ka um, ban pynsniew ia ki jingthaw ba im ha um, bad ban ktah ia ki nongpyndonkam um kiba don shapoh wah.

Ha kane ka jingtih mawshun, yn ym pyndonkam ne pynmih ia ki dawai ne ki nar kiba heh. Kumta, kam don jingma ba kine ki mar kin shah rah sha ki um kiba don hajan lyngba ka jingtuid um na sla khyndew.

Yn thaw ia ki plan pyniaid um kiba bniah ban teh lakam ia ka jingtuid um bad ban pyniaid ia ka jinglong ka um. Yn pyndonkam ia ki pung ba la buh, ki liner, bad ki jaka pynkhuid, kum ki pung ba la pyntuid ia ka um, ban shim bad pynkhuid ia ka um shwa ban pyntuid.

Ka jingtei ia ki jaka tih mawshun bad ki jingkylla ha ka jingpyndonkam ia ka khyndew ka lah ban pynkylla ia ki rukom tuid um bad ki rukom tuid um

Ka jingtuid um na ka mariang shabar jong ka jaka ba la ai wai kan sah khlem shah ktah ha ki kam tih mawshun hapoh. Ia ka jaka ba la ai wai yn pynphai biang sha ka jinglong tynrai jong ka katba lah hadien



kiba lah ban pynthut ia ki jaka shong jaka sah jong ki mrad ha um, pynduna ia ka jingdon um ha ki jaka ba shapoh, bad ktah ia ki jinglong jingman kiba shaniah ha ka jingtuid um kaba skhem.

ba la dep ban tih mawshun.

Hynrei ha ka por ba tih mawshun, ka jingtuid um na sla khyndew ha ka dur jong ka um slap kan jia tang ha ka por lyuir. Ym don um na ka jaka tih maw ban tuid sha kano kano ka wah um ba kynja mariang. Ia ka um slap ba la lum yn pyndonkam shi bynta na ka bynta ban pynduh ia ka pum pum bad ban pynsynried sha ki khlaw. Da kaba khein ia ka jinglong ba lah ban rung jong u mawshun, bun na ka um kan rung shapoh ka sla jong ka jaka tih maw.

Ka um slap kan bud ia ka jinglong ka mariang jong ka jaka ba la mang.

Yn pyntreikam ia ki lad ban iada na ka jingtwa khyndew, kynthup ia ka jingpynroi biang ia ki jingthung jingtep, ka jingshna ia ki nala um garland, bad ki pung um, ban pynduna ia ka jingtuid jong ki sboh bad ban iada ia ka jinglong ka um.

Ka Jinglong Ka Lyer

Ki mashin kiba heh bad ki kali kit mar ki pynmih ia ki jingjaboh kum ki nitrogen oxides (NOx), ki sulphur daioxide (SO2), bad ki kynja met kiba lah ban bthei (VOCs).

Ki mashin kiba heh bad ki kali kit mar ki dang shah pyndap/yn sa pyndap da ki kor ki bor kiba mynta ban tehlakam ia ka jingmih jakhlia sha ka lyer.

Ka jingsumar bad jingpynbha man ka por ia kine ka dang iaaid/ yn sa pynlong.

Ka pum pum & ki jingjaboh ki lah ban mih na ki jaka tih mawshun, kaba pynlong ia ka jingjaboh ka lyer.

Ia ki jaka ba la pynthut yn pynbha biang da ki jingthung jingtep ban pynskhem ia ka khyndew bad ban pynduna ia ka jingmih pum pum.

Yn pyntip bad pynrung ia ki nongshong shnong ha ki plan pyniaid ia ka jinglong ka lyer ban weng ia ki jingeh bad ban pynbha.

Ka Jingmih jong ka Jingsawa

Ki kam tih mawshun, kynthup ia ka jingtih mawshun, ka jingpynbthei, bad ka jingpyntreikam ia ki mashin kiba heh, ki

Ki jingkhank ne ki jingker sawdong ki tiar kiba don jingsawa ban pynduna ia ka jingpynmih jingsawa la shna/yn shna.



pynmih ia ka jingsawa kaba jur kaba lah ban pynthut ia ki nongtrei par mawshun, ki shnong kiba don hajan bad ki mrad khlaw.

Ki tiar tih mawshun ki dang shah/yn sa pynbha man ka por katkum ka kot jingpynbha. Yn pynbiang ia ki jingdeng kiba iada na ka jingkhiih na ka bynta ki kompresor.

Ia kawei pa kawei ka jingbthei yn thmu bha, yn peit bniah bad pyntreikam hapoh ka jingpeit jong ki briew kiba dei katkum ka ain.

Ki kam kiba don jingsawa ki dang/yn sa buh por ha ki por ba kham duna ka jingsngewthuh bad ki buit pynduna jingsawa ha ki tiar ki dang/yn sa pyntreikam.

La tyrwa ia ka surok haul kaba rit bad kaba ryntih na ka bynta ka jingiaid beit ia id ryntih jong ki kali kit mar.

Ki parameter kiba biang tam na ka bynta ban tih bad pynbthei yn shna khnang ban don ka jingpynbthei ba la tehlakam kaba pynduna ia ka jingsawa bad jingkhiih.

Ia ka jingbthei yn pynlong ha ka por mynsngi ym ha ki sngi ba don slap ne lyoh.

Ki jingtrei kiba dang ia id shakhmat, kum ki belt kit mar bad ki kor pynpait, ki iarap ban pynjaboh ia ka jingsawa kaba neh.

Ka jingpynbha bad pynbha man ka por ia ki mashin ban pynthikna ba kin treikam bha bad pynduna ia ka jingsawa bym donkam.

Yn buh kyndon ia ka jingstet jong ki trok khnang ban iada na ka jingsawa kaba palat na ki trok kiba thylli.

La pynbiang ia ki silencer kiba biang ha ka HEMM ban pynduna ia ka jingmih jong ka jingsawa. Baroh ki HEMM ki dang shah pyndap/yn sa pyndap da ki kamra ba la khang na ka bynta ki nongpyniaid.

Ka jingshah ktah slem ha ki jingsawa kiba jur ka lah ban pynlong ia ka jingduna ka jingsngap, ka jingklusai, bad ka jingthut ha ka jingthiah ha ki

La pynbiang/yn pynbiang ia ki tiar iada ia ka jingsngap na ka bynta ki nongtrei bad yn pyntreikam ia ki jingpyniaid bor synshar ban khanglad ia ka jingshah ktah ha ki jingsawa kiba jur.



briew, bad ka lah ruh ban pynthut ia ka jinglong bad ka jingiatip hpdeng jong ki mrad.

Ka jingpynkylla kam ia ki nongtrei ka dang iaide/kan long ban pynduna ia ka jingshah ktah ha ka jingsawa kaba jur.

Ka jingthung ia ki jingthung ka dang iaide/yn pynlong ha ki sawdong jong ka jaka ba la tih. Ki jingthung ka pynduna ia ka jingpynphriang ia ka jingsawa bad ka kem ruh ia ka pum pum.

Ka jingpeit bniah ia ka koit ka khiah man ka por ka dang iaide/yn pynlong na ka bynta kino kino kiba shah ktah ia ka koit ka khiah.

Ka jingpeit bniah man ka por ia ka jingsawa ka dang/kan sa long.

Ka Imlang Sahlang bad ka ioh ka Kot

Ki jingktah kiba Sniew bad Jingpynbha

Ka jingbun briew bad ka jingtreikam ha ka ioh ka kot ka lah ban pynjynjar ia ki jingshakri ha ka imlang sahang bad ki jingtei ha ka thain.

Yn pynlong ia ki jingiatreilang bad ki sorkar pdeng bad 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 jingtih mawshun 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.

ki kam tih mawshun 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 .

Ka jingpeit bniah ia ka koit ka khiah jong ki nongtrei bad ki nongshong shnong kiba don hajan ka dang iaide/yn pynlong.

Ki jingthoh shaphang ka koit ka khiah bad ka jingshngain jong u nongtrei ki dang iaide/yn buh.

Ka jinghikai ka dang/kan ai sha ki nongtrei.

Ki tiar iada ialade's ki dang shah pynbiang/yn pynbiang sha ki nongtrei.

Ka jingshngain bad jingbha jingmiat jong ki nongtrei



ka dang/kan long katkum ki kyndon bad ki kyndon tih mawshun.

Ki projek tih mawshun ki lah ruh ban wanrah, ka jingshah pynkynriah jaka, ka jingkiew 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 long 1.5 KM ha ka liang ENE. (Shnong- Amjajer Roko).

Kan ym don kano kano ka jingshah pynkynriah ha ka met ne ka ioh ka kot namar ka jingthmu jong ka projek.

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.

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 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 sahleng bad ia ka jaitbynriew.

Ki Lad Kamai

- Kumba 22 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 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.

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.

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 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 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 Jingtahlakam 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 jingtah 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.

3 KA PROKRAM BAN PEIT IA KA MARIANG:

3.1 LYER

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

3.2 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.

3.3 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.

3.4 KA KOIT KA KHIAH BAD KA JINGKUID 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) la leh ha ka por ba sdang, katba ia ka Periodic Medical Examination (PME) la donkam man la ka 3 snem ia kito kiba la palat ia ka 45 snem bad man la ka 5 snem ia kito kiba la 45 snem ne ki ba bym pad dap.

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.

4 KIWEI DE KI JINGPEITBNIAH.

4.1 KA JINGPYNSNGEW 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.



4.2 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 kiba don ha ki kam tih mawshun, ban sngewthuh kumno bad mynno ki mih, bad ban antad ia ka jingtah (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 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 jingjolor

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

5 KA JINGMYNTOI NA KA PROJEK.

5.1 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.



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- Ka jingbei tyngka ha ki jingtei jong ka imlang sahlang.
- Ki prokram jong ka koit ka khiah bad ka jingkhuid jingsuba, kum ka jingĩada 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.

Ka Kam:

Ka Jingtnei Beit: Kumba 22 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 Jingshna jingtei:

Ki Jingtnei 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 jingtnei 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.



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- Ki kam pynroi ia ka imlang sahleng kiba thmu ban pynbha ia ka koit ka khiah ha ki shnong kiba marjan.

6 KA PLAN BAN PYNĪAID 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.

6.1 KA JINGPYNĪAD ĪA KA JINGPYNDONKAM ĪA KA JAKA

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

- 0.10 ha na ka jaka baroh kaba la mang ki la don lypa hapoh ka jingthung.
- Nalor kata, yn thung haduh 100 tylli ki dieng ha ka jaka kaba 0.10 ha ha ki san snem ban wan jong ka jingtih mawshun ha ka jaka ba lait 7.5 m bad ka jaka bym pat trei.
- Nalor kata, yn thung 2.41 ha ka jaka da kaba thung kumba 2410 tylli ki dieng halor ka jaka bret jaboh, ki ben ba shalor jong ka thliew tih, ka jaka ba la pyndap biang bad ka jaka bym pat trei haduh ban da kut ka jingim jong ka par mawshun kaba kynthup ia ka jingheh baroh kaba 2.61 ha (60.7 %) hapoh ka jaka tih mawshun.

6.2 KA JINGPYNBNA BAD JINGPEIT BNIAH ĪA KA UM

Katto katne ki lad jingiada ba la shim na ka bynta ban teh lakam 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.

6.3 KA PLAN BAN TEHLAKAM IA KA JINGLONG KA LYER

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

- Ka jingsted jong ki kali hap ban peit bniah bad kin leit beit da kajuh.
- 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.



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- 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.
- 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.

6.4 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
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.



6.5 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 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.

6.6 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 22 ngut ki trai shnong kin ioh trei beit directly bad kum 30-40 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.

6.7 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.

7 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 jingtah 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.

