

**KA DRAFT ENVIRONMENTAL IMPACT ASSESSMENT REPORT
NA KA BYNTA KA
PYNDENGSHANGLANG COAL BLOCK PROJECT
BAN PYNMIH 0.15 MTPA (RATED/REAK RATED)
CAPACITY
HA SDAD DKHAR VILLAGE, NONGSTOIN C&RD BLOCK,
DISTRICT: WEST KHASI HILLS, MEGHALAYA**

KA EXECUTIVE SUMMARY

U Project Proponent: Bah Shainingstar Khardewsaw

Ba la pynbit pynbiang da ka:



**Novomine India Private
Limited**

novomineinfo@gmail.com, www.novomineindia.com

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

Naitung 2024

Ka Draft Environmental Impact Assessment/Environmental Management Plan Na ka bynta ka jingpynmih 0.15 MTPA Dewiong da ka Open Cast (OC) Mining Method ha ka jingheh ka Mine Lease Area kaba long 100.00 Ha ha ka shnong Sdaddkhar, Nongstoin C&RD Block, West Khasi Hills District, Meghalaya.

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Executive Summary

1. KA JINGLAMPHRANG

Ka Mining and Geology Department, Government of Meghalaya ha ka ophis order jong ka lyngba no. **MG.41/2021/52** ha u **25th May 2021** ka la ai ka Prospecting License (PL) jong u dewiong na ka bynta I applicant Bah Shainingstar Khardewsaw kaba don kumba 100 Ha. tam ha ka shnong Sdaddkhar, Nongstoin C&RD Block, West Khasi Hills District, Meghalaya. I projek proponent I la ioh ruh ka jingbit na ka Sorkar Kmie lyngba ka shithi Nombar **PS1-13016/2/2022-PS1 (FTS: 354288)** ha ka **25th April 2023** hapoh ka Rule 42 (2) jong ka Mineral Concession Rules, 1960 ban tih dewiong ha kane ka jaka kaba 100 ha tam. Ka shithi ba la ai da ka Department jong ka Forests and Environment lyngba ka shithi Nombar **T/WSW/2020-21/107/FC(coal)/1/730** ha ka **29 tarik, U Risaw, 2020** ka la pynshai ba 91.3 ha na ka 100 ha ka don ha ka "non-forest" land category. Ka Mining Plan bad ka Mine Closure Plan ruh la ioh ka jingbit na Ministry of Coal, Sorkar Kmie, lyngba ka In-principle Approval shithi kaba ki pynmih ha u **24 tarik jong ka Kyllalyngkot 2024.**

Ka ophis jong ka State Expert Appraisal Committee (SEAC), Meghalaya ha ka jingialang jong ka, ha u **12 tarik Lber 2024** ka la ibit ban ai ia ka Terms of Reference (ToR) ban ioh pynbit pynbiang ia ka EIA/EMP report bad hadien ki la ai ia ka ToR lyngba ka shithi Nombar. **ML/SEAC/SEIAA/PP/WKH/20/2024** ha ka **19th Jylliew 2024** sha I Bah Shainingstar Khardewsaw.

2. JINGBATAI BNIAH JONG KA PROJEK

Kane ka Pydengshahlang Dewiong Block ka la shna ha kata ka rukom ban lah ban tih 1.3911 MT jong ka dewiong jaka kyllum na ka bynta jong ka jingim jong ka par dewiong (life of mine) kaba dei 17 snem + 5 snem (ka por ban khang bad ban pynim biang ia ka

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par dewiong) da kaba sei noh 23.66 Mm^3 jong ka Overburden (OB) (0.15 Mm^3 ka dei ia ka dew-thung bad 23.51 Mm^3 ka dei ka dew eh (hard OB), ha average ratio kaba dei $17.0081 \text{ m}^3/\text{T}$ bad ka value kaba heh duh jong ka 90m. Ka jinglahkit (capacity) anta dba ka dei 0.15 MTPA bad ka dei ruh ka jinglahkit kaba heh duh (peak rated capacity) bad ka jingim jong ka par dewiong (Life of Mine). Ka grade jong u deiwiong dei ha ka range jong G7-G11.

2.1. Jingbatai Bniah Jong Ka Jaka

Kane ka projek jong ka Pydengshahlang Coal Block ka hap ha Khasi Hills (Minor CF) Coal Field. Kane ka jaka la pyni thikna ha ka **Figure 1.1**.

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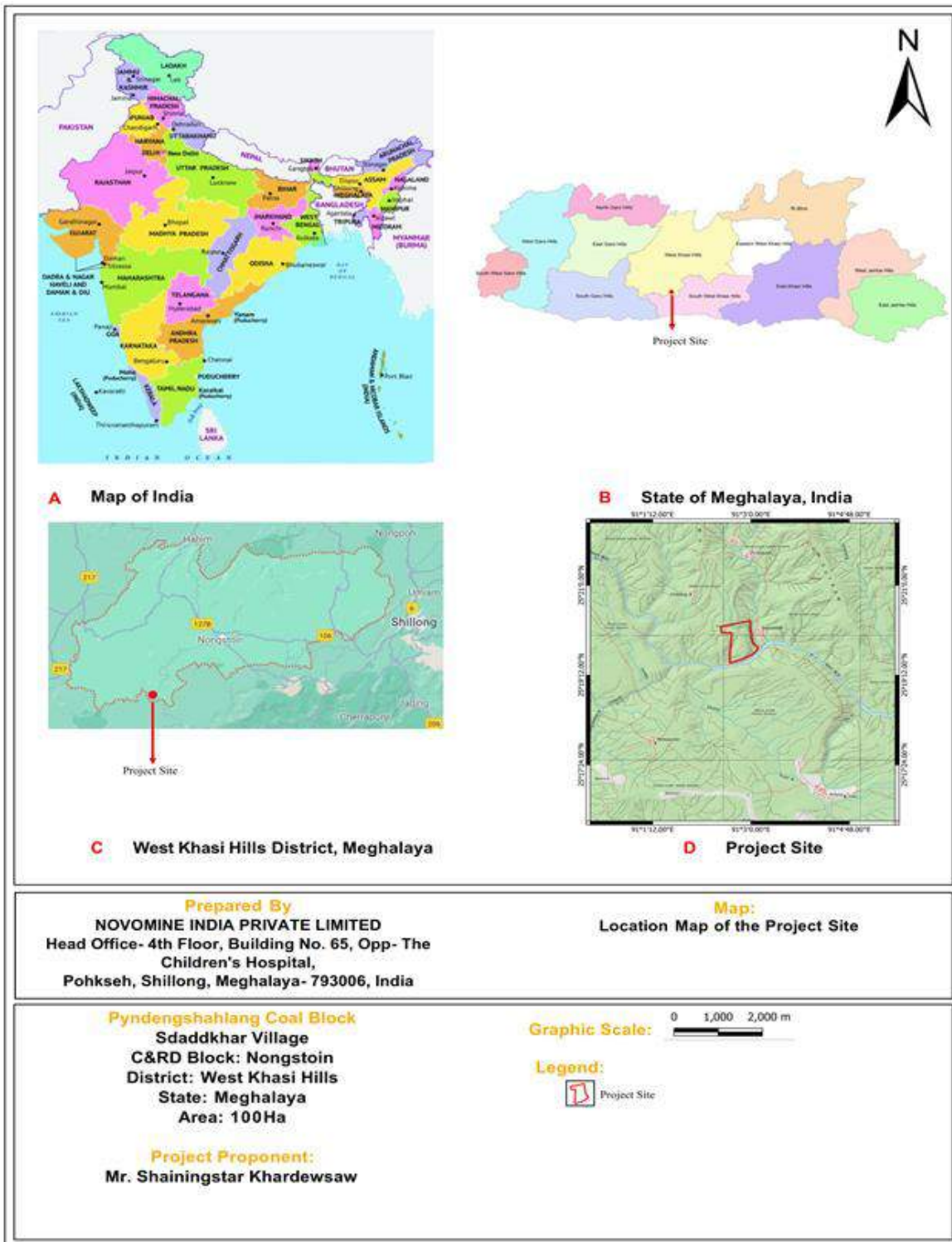


Fig 1.1: Ka map jong ka Pyndengshahlang Coal Block

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Ki jingbatai kham bniah jong ka projek ki long kumne harum:

Kyrteng jong ka Projek	: Pyndengshahlang Coal Block
Shnong bajan tam	: Sdad Dkhar
Block	: Nongstoin
District	: West Khasi Hills District
Jylla	: Meghalaya
Latitudes	: 25°19'26.568"N to 25°20'09.922"N
Longitudes	: 91°02'26.714"E to 91°03'07.768"E
U Toposheet No Survey of India.	: 780/3
Airport bajan	: Umroi Airport (176 km, NE Direction)
Railway Station bajan	: Guwahati Railway Station (202 km, NE Direction)
Highway bajan	: NH-127B (27 Km, N Direction)

Kane ka projek ka hap ha ka “**Category – B1**” katkum ka EIA Notification ba la bthah da ka MoEFCC, New Delhi, lyngba S.O. 1533, ha u 14 tarik, Nai Lur, 2006 & bad ki amendments kiba bud hadien, namarkata, ka Environmental clearance na ka bynta kane projek hap ban ioh na ka ophis jong ka State Environment Impact Assessment Authority (SEIAA), Meghalaya.

2.2. Ka Jingpyndonkam Ia Ka Khyndew/Jaka

Ka jaka baroh kawei jong ka projek ka dei 100.0 ha bad na kato 8.7 ha ka dei ka khlaw Ki jingdonkam, jingtreikam ha ki kyndon kiba pher bap her jong ka jingtih dewiong ki long kumne harum:

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Table 1.1: Ha ka por jong ka projek

Sl. No	Jait Jaka	Ka jingheh (Ha.)
1.	Jaka 'dew tep	36.20
2.	Jaka ba la tih thliw	13.68
3.	Jaka ba theh nuit	8.39
4.	Ka jaka Safety Zone	3.51
5.	Ka pung ban pynkhuid jingjngut jong ka um (settling pond)	0.60
6.	Surok bad ki jaka treikam	4.60
7.	Nala	0.20
8.	Jaka jingthung	5.70
9.	Jaka ba nym shah pynthut	27.12
Total		100.00

Table 1.2: Hadien jong ka Projek (Hadien 15 snem)

Sl. No	Jaka ba la dep pynbit	Jait Jaka	Area (Ha.)
1.	pynbha biang (reclaim)	Ki dieng ba thung	68.08
3.		Ka khlaw ba nym pynthut	8.70
4.	Jaka ba nym shah pynthut		23.22
Total			100.00

2.3. Ka Rukom Tih

Ka jingtih dewiong kan long da kaba pyndonkam da ka shovel-dumper combination ha ka opencast mechanized method (da ka rukom jong ki open cast machine) . Ki tiar kiba donkam eh ki dei ki ki jingpynbthei (explosives), ki machinery, ka diesel, ki tiar pynbtuit (lubricants), ka bor ding (electricity), ka um bad ki tiar ba pyndonkam ki biew kiba leh ia kana ka kam.

Ka Opencast mining ka bud ia kine ki kyndon jong ka jingtreikam harum:

1. Ia ka dew thung yn sa weng noh bad yn buh ha ka jaka ba la buh kyrpang (top soil dump). Kane ka dei ba kin ioh ban pyndonkam biang hadien da la kut ka projek.
2. Ka jingtih bad ka jingbthei kan sa pynphiah ia ka Overburden bad kine ki maw ki ba rit

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yn sa weng lyngba ki borsha na machine (katkum jingdonkam) bad rah sha ki jaka (dumpers) ki ba la buh kyrpang. Yn sat hied bad buh ia baroh ki tiar ki ban sa pyndonkam ha kane.

3. Kine ki overburden lane ki maw bad dew ki bym donkam shuh yn sa rah bad thep ha ka kali ban buh noh sha ki external/internal dumps.
4. U dewiong hi u ju don ha ki jingjylliew bapher bapher jong ka khyndew (Seam III, Seam IV, Seam V, Seam VI, Seam VII & Seam VIII) bad ka jingrben jong kine ruh ka pher na iwei sha iwei (0.05 to 3.30 m jong ka jingrben). Namarkata ka rukom tih ba plie naduh na jrong shapoh (open cast method) kan lah ban pynmih ba bun tam u dewiong bad wat ki dew ki ba stang (0.50m) ruh yn lah ban sei da pyndonkam da kane ka rukom tih. Kine ki dewiong ba la dep sei pat de yn sat hep ha ki trok na ka jaka ba tih.
5. Ka dew thung ka ba la dep sei nyngkong bad ba la buh kyrpang yn sab uh biang ha kine ki jak aba la dep tih bad sei ia u dewiong. Ia kane yn leh hadien ka 15 snem (ha ka por ban khang ia ka projek), bad kane ka dew thung yn sa buh ha kine ki par dewiong ban ioh ban thung jingthung biang kum ki dieng ki siej.
6. Ha ki jaka ki ba la long thliw na ka daw jong ka jingtih (mine voids), yn sa weng noh ia ki shyiap bad ka um ba don um kin sa filter noh bai oh ban pyndonkam biang ia ka um ha kiwei kiwei ki kam.

Kine baroh ki kyndon kam (operations) yn sa leh katkum ka statutory provisions of Mines Act fand Coal Mine Regulations, kaba dei na ka bynta ka jingsumar bad jingpeit jong ki nongtreikam jong kane ka par dewiong. Yn bat bad ia id lyngba baroh ki kyndon ba la bthah da ka MoEFCC, ka Meghalaya State Pollution Control Board (MSPCB) bad ka Environmental Clearance.

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3. KA JINGBATAI BNIAH JONG KA JAKA

Ki jinglong jong ki line ba shatrai duh jong ka jaka na ka bynta shibun ki bynta ha ka mariang, kum. Ka lyer, jingsawa, ka um, khyndew bad ka ioh ka kot la dep ban pynrung ha u bnai Risaw 2023 shaduh u bnai Nohprah 2023 ha ka jingpule bniah ia ka jaka kaba kynthup 10 km sawdong jong ka parmaw. Kiwei kiwei ki jinglum jingtip jong ka mariang ha ki jingthung bad ki mrad, ki khyndew ba pyndonkam, khlaw bad kiwei kiwei ruh la dep ban pynrung lyngba ka jing survey ia ki jaka bad kumjuh la lum na ki state Govt. department bapher bapher. Ki jingioh jingtip hadien ki survey ki pyni shai ba ki ia id katkum ka jingdonkam bad jingbthah jong ka EIA Notification, 2006 lyngba S.O. 1533, ha ka 14 tarik, Nailur 2006, ki amendment ki ba bud hadien bad ka Terms of Reference (ToR) ba la ai da ka ophis jong ka SEIAA, Meghalaya.

Physiography (Jinglong ka jaka)

Kane Pyndengshahlang Coal block ka long ka ja ka ba bun ki jingthem jingat, bad ka elevation ka don ha ka range jong 195 m bad 465 m MSL. Ka khyndew, kyllum, ka long dew saw ne dew sawbthuh ha ka rong. Ka slope (jingriat) jong ka jaka ka dei na ka daw jong ki wahduid ki ba heh ha ka por lyuir, bad na kata ka daw ka long ka dew ka bajem ha hamar pdeng jong kane ka block. Ka nala ha kane ka jaka ka ia id lyngba kum ka jinglong, jingat jingthem jong ka jaka bad da peit ha ka map ka wan ha ka dur jong ki thied.

Drainage (Ka rukom ia id ki wah)

Ka Wah Blei ka tuid shaliang sharum (southern) jong ka boundary (ka jingjrong kaba 75 meters) na sepngi sha mihngi bad sa kawei ka nala (Wah Dkhar) ka tuid na eastern boundary (ka jingjrong kaba 60 meters) nojrong sharum. Ka nala ha kane ka jaka ka ia id lyngba kum ka jinglong, jingat jingthem jong ka jaka bad da peit ha ka map ka wan ha ka dur jong ki thied.

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Meteorology (Ka jingshisha jong ka mariang)

Ka projek don ha ka West Khasi Hills kaba rim, Meghalaya, ha kaba ka suinbneng jong ka district ka long tropical ha ka bynta shatei bad shathie, katba ha ka bynta pdeng kaba heh, ka suinbneng ka long temparate bad ki jaka kiba don ha ka bynta shatei, mihngi bad shathie jong ka district, ki mad ka suinbneng sub-tropical.

Ka district ka ioh jingslap na ka South-West monsoon bad ka jinghap slap ka long kaba shisha ha ki por lyuir, hynrei ka pher shibun ha ka jingkhia na kawei ka jaka sha kawei ka jaka hapoh ka district. Ka jinghap slap kaba long na ka jingnang jingkhia ka dei na 1200 mm sha 3000 mm shi snem.

Ka jaka kaba jan tam eh ka Automatic Weather Station (AWS) ka don ha Nongstoin, West Khasi Hills district, Meghalaya, kaba jngai kumba 30 km na u pud u sam jong u projek bad ka jaka kaba jan tam eh ka Automatic Rain Gauge Station (ARG) ka don ha Mawkyrwat, West Khasi Hills district, Meghalaya, kaba jngai kumba 43 km na u pud u sam jong u projek.

Ha ka por ba pynmih ia ki baseline data, ka jingkhlain tam ka jingkhein jem ka dei 31.8°C, katba ka jingjem tam ka dei 11.70°C bad ka jingkhein jem ka dei 21.05°C. Ka jingkhein jem ka jingbneng ka dei 74.13% bad ka jinghap slap kaba ioh jingtip ka long 484.7mm. Ka 1st predominant wind direction ka dei na ka shatei (North) da kaba 33.7% ka jingiaid lyer ha katei ka jaka. Ka jingkhlain tam ka jingiaid lyer kaba ioh jingtip ka long 6.39 m/s.

3.1. Ka jinglong jong ka Lyer

Ki parameters ki ba iadei bad ka jingkhuid jong ka lyer kum ki ki bym palat ia ka 2.5 µm (PM2.5), Sulphur Dioxide (SO₂) bad Nitrogen Oxides (NO_x) ki dei kita ki parameters kiba donkam ban pynneh pynsah ia ka jingkuid ka lyer kat kum ka Terms of Reference (ToR) ba la pynmih da ka SEIAA. Ban pule ia ka jinglong ka meñ iingshai ba thymmai, hynriew tylli ki jaka pule ia ka meñ iingshai ki la ithuh ha ki bynta ba donkam bad ki bynta shabar (10 km radius) jong ka projek.

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Air Quality Status in Core Zone:

Ka jingkhein ka pyni ba ka PM10 ka pher na 56.90 $\mu\text{g}/\text{m}^3$ sha 41.20 $\mu\text{g}/\text{m}^3$ ha ka jaka ba la buh na bynta ka projek bad ka average ka long 52.44 $\mu\text{g}/\text{m}^3$. Ka PM2.5 ka pher na 23.80 $\mu\text{g}/\text{m}^3$ sha 21.10 $\mu\text{g}/\text{m}^3$ ha ka jaka ba la buh na bynta ka projek bad ka average ka long 22.93 $\mu\text{g}/\text{m}^3$. Ka SO₂ bad NO_x ki varied na 6.9 $\mu\text{g}/\text{m}^3$ sha 5.4 $\mu\text{g}/\text{m}^3$ bad 12.8 $\mu\text{g}/\text{m}^3$ sha 10.3 $\mu\text{g}/\text{m}^3$ ha kajuha ka por. Baroh ki met ki don hapoh ki jingkhein ba la buh kat kum ka National Ambient Air Quality Standards bad ki Coal Mines Standards ba la buh da ka MoEF&CC.

Ka Iyer ha ka Buffer Zone: Ka jingkhein (98 percentile) jong ka PM10 ka pher na 61.30 $\mu\text{g}/\text{m}^3$ (BA – 2: Mawmarin) sha 50.20 $\mu\text{g}/\text{m}^3$ (BA – 1: Kulang). Ka PM2.5 ka varied na 32.51 $\mu\text{g}/\text{m}^3$ (BA – 5: Nongshilliang) sha 27.80 $\mu\text{g}/\text{m}^3$ (BA – 1: Kulang). Ka SO₂ bad NO_x ki pher na 9.55 $\mu\text{g}/\text{m}^3$ sha 8.30 $\mu\text{g}/\text{m}^3$ bad 17.62 $\mu\text{g}/\text{m}^3$ sha 12.90 $\mu\text{g}/\text{m}^3$. Baroh kine ki jingkhein ki don hapoh ki jingkhein ba la buh kat kum ka National Ambient Air Quality Standards bad ki Coal Mines Standards ba la buh da ka MoEF&CC.

3.2. Ka um

Ka jingpynmih jingkhein ka meih um na ka projek ka la pule ia ka jingshisha um ba tuid bad um napoh khyndew. Lah pule ia 7 tylli ki sample um i.e., 2 tylli na ka um ba tuid, bad 5 tylli na ka um napoh khyndew na bynta ki jingthoh bapher bapher. Ka jingkhein ki result ka ithuh ban ia ki jingkhein ba la buh.

Um ba tuid (Surface water): Ka pH ka don ha ka jingkhein hapdeng 6.16 sha 6.22. Ki Nitrates, TDS, Chlorides ki don hapoh ki jingkhein ba la buh.

Ki total coliforms ki don ha baroh ki sample um ba la lum hapoh ka range jong 45 sha 49 MPN. Ka jingdon jong ki coliforms ka pyni ba ka jingkhuid ka lah dei namar ka runoff um bad ki bacteria ha khyndew.

Kat kum ka CPCB water quality criteria, ki parameters ba la pule ki long pH, DO, BOD, bad total coliforms. Lah lap ba baroh ki sample um tuid ki hap ha ka CPCB water quality

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criteria Class – C. Na ka jingkhein jong ki analytical result, lah lap ba ka um tuid ba la lum na baroh ki jaka ka donkam ban pynbha pynkhuid ban pynlong ka um ban dih ban bam.

Um napoh Khyndew (Underground water): Ka pH ka don ha ka jingkhein hapdeng 6.59 sha 6.88. Ka jingkhein jong ka um ka pyni ba baroh ki parameters ki pynbiang ia ki jingdonkam CPCB ground water quality criteria.

3.3. Ka Jingsawa

Lah leh ka survey jong ka noise level hapoh bad ha ki bynta jong ka jaka khaii ban pule ia ki noise levels. Lah khein ia ki jingkhein noise levels ha ka por 24 kynta da ka High Precision Sound Level Meter ha hynriew tylli ki jaka hapoh ka jaka pule jong ka projek. Lah lap ba ki noise levels ha ka por sngi bad miet ha ki buzzer zone bad shabar ki hap hapoh ki jingkhein ba la buh.

3.4. Ka Khyndew

Ka jingthoh ia ka pattern ka jingpyndonkam ia ka khyndew ha ka jaka pule (10 km) jong ka block ka la leh da ki satellite imagery bad ka jingpyndonkam khyndew hapoh ka jaka projek ka long: Jaka ba don dieng/jingthung- 31312.35 Ha (87.079%), Jaka madan/maw/Fallow land - 3652.2 Ha (10.157%), Wah/Wahduid/Nala- 541.58 Ha (1.506%), Jaka ba at khyndew (Built up area) - 451.24 Ha (1.255%), bad Pung/Reservoir- 1.19 Ha (0.003%).

3.5. Ka Quality Jong Ka Khyndew

Ki jingkhein physico-chemical jong ka khyndew, kiba don jingmut na bynta ka jingmih ki jingthung bad ka jinglong product ka rep, pH, EC, Organic Carbon, Nutrients bad kiwei ki met trace lah pule na hynriew tylli ki sample khyndew ha ka jaka pule.

Ka texture (jinglong) jong ka khyndew na baroh hynriew tylli ki jaka ka long sandy loam. Ki sample khyndew jong baroh ki shnong ha ka jaka pule ki long neutral sha slightly acidic ha ka jingkhein pH hapdeng 5.40 sha 5.67. Ki macro nutrients Nitrogen (N), Phosphorus (P), Potassium (K) lah pule ha ka jaka pule. Ka Nitrogen ka ranged na 52.00 sha 90.70 kgha-1 kaba pyni ba ka don ha ka less category. Ka Phosphorus ka range na 1.2 sha 2.7 kgha-1 bad

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hap ha 'very less category'. Ka Potassium ka range na 126.8 sha 185.0 kg/ha-1 kaba pyni ba ka don ha ka jingkhein ba duna ban ia kaba dei ban long.

3.6. Ki Jingim-Jingthung

Ka jingpule ia ka ecological ka long ban ithuh ia ki jingdon jingthung thang kumjuh ia ki mrad ba pynban bad ban pynioh ia ka jingpynwandur ha ka pyndengshahlang Coal Block bad kiwei ki jaka mine ha ka buzzer zone. Ki don 8.7 Ha jong ka khlaw hapoh ka block kaba ym dei ban ioh bad ym don jingpyndonkam ia kane ka khyndew . Ym don National parks, Sanctuaries, Biosphere Reserve, Tiger Reserve bad Elephant Reserves, Reserve Forest ne Protected Forest ha ka jaka jong ka projek. Ka projek kam hap hapoh ka Eco-Sensitive zone. Ka projek ka long ha ka jaka ba duna jingthung.

Na ka jingpule ecology, ka buffer zone jong ka Pyndengshahlang Coal Block ka don kum ki mrad ba ym long endemic bad ba don jingma jong ki jingthung ne jingri.

3.7. Ka Imlang Sahlang

Ka jaka projek ka don ki shnong 30 hapoh ka 10 km radius jong ka. Ki aspect ba pyniadei bad a ioh ka kot , ka demographic structure, economic bad livelihood pattern jong ki shnong 30 ki dei katkum ka 2011 Census. Kine ki shnong ki don 920 tylli ki iing kiba ioh jingpyntien jingim ia 5812 ngut ki briew. Na baroh ki nongtrei (2985), ka jingkhein ba donkam ka long 2349 (78.7%) bad ki long kynthup ki nongrep bad nongbylla rep. Ki jingdonkam hapoh ka jaka , ka jingim, kiwei ki social factors ki la lap ba ki long na poor sha moderate.

4. KI JINGPYNKHREH BAN PYNIADA NA KI JINGMA IA KA MARIANG

Kane ka section ka pynioh ia ki jingdon jingma jong ka projek, ki jingma ba lah lah ha ka jaka projek, ha ka por pre-operational bad operational bad ka environment management plan ba la pynkhreh ban tehlakam ia ki jingma bad jingjakhlia.

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Ka jingiakren halor ka jingma jong ki bynta bapher ba iadei bad ka environment ban kyntait ia ki jingma. Haba kheiñ ia ka jingma ba thymmai na ka projek bad ki prokram ban pdiang ia ki jingleh ki ban khanglad ia ki jingma ia ka lyer, um, jingsawa, khyndew, ecology bad ki aspect kiwei ki jingdon jingma ki la kheiñ. Ki mitigation measures kiba don na bynta ka lyer, um, noise, khyndew, bad jingim ki la ai hapoh.

4.1. Ki Jingma Na Ka Lyer Bad Ki Jingpyniada

Ka jingpynmih ka lyer bymkhuid ka lah ban jia ha ki bynta bapher jong ka jingtrei mining kum ka excavation, drilling, blasting, loading bad ka jingrah jong ki tiar donkam. Ki Suspended Particulate Matter (PM₁₀ bad PM_{2.5}) ki dei ki pollutant (ba pynjaboh) ba kongsan kiba lah mih ha ka por jong ka mining operations. Ka projek Pydengshahlang Coal Block kan shim ia kine ki lad ban pynduna ia ki dust emissions na ki jingtrei bapher:

- Ban lait na ka jingpumpum na ka drilling operations, yn pyndonkam da ka wet-drilling.
- Ka coal seam kaba lah lap ban tih yn pynsngem shuwa ban tih na bynta ban lait na ka jingpumpum.
- Ha ka por excavation, yn pyndonkam da ki explosives (jingpynbthei) na ki nongdie ba la ioh jingmynjur na ka DGMS na bynta ka blasting bad yn pynduna ia ka overcharging jong ki blast holes ha ka OB. Baroh ki kyndon DGMS kiba iadei bad ka jingpyrkhat bad jingshngain ha ka por blasting yn bud ryntih.
- Ka jingpynsangeh ia ka volume jong ka dust kaba lah mih na ki coal stacks bad OB dumps da ka jingpyrshang jong u shong ba shit kaba don jingshitom ha ki bynta jong ka OB dumps ha kaba ki ruh ki lah ban long kum ki jingpynbna ba don jingshitom da ka jingpyrshang jong ki jait jingthung khlaw ba don jinglong rup ba jubor.
- Yn shna ia ki wind screens da ka jingpyndonkam ia ki green nets bad wire fences ban pynduna ia ka jingkhiih jong ka dust.
- Yn pyntreikam ia ka jingthung jingthung ha ki bynta ba don ka quarry bad OB dumps ha ki lai tylli ki shynrang, ban long kum ka jingtei ia ka jingpyrshang ba don jingshitom ban

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khanglad ia ka dust.

- Yn pynbiang ia ki jingtei PPE ba pura kynthup ia ki dust filters/masks na bynta baroh ki nongtrei ha ki jaka ba mih dust.
- Ki Ki lynti surok ba ia id trok kin ki daw kiba kongsan ba pynmih ki pumpum ha ki opencast mines. Ban pynduna ia ka jingheh jong ka kine ki pumpum na ki lynti surok, yn shim ia kine ki sienjam:
 - Yn pyntrei ia ka black topping ia ki permanent roads ha ki jaka ba hapoh bad bad habar jong ka par dewiong ha kaba ki dewiong bad jingrah trucks/dumpers bad tippers kin ia id.
 - Yn kynshait um man la ka por katkum ka jingdonkam ba man la ka sngi ha ki kine ki surok ha ka por ba donkam.
 - Ha ka por jingrah jong ka dewiong bad overburden, yn don ka minimum time interval kaba 5-6 minit hapdeng kawei ka dumper bad kawei na bynta ban pynneh ia ka dust particles ba khia.
 - Baroh ki jingrah trucks kin don ka tarpaulin sheets (ki plastic kiba tap nalor) haba pyniaid ia ki tiar donkam (coal bad/or overburden) bad yn pynpaw ba ym don truck ba palat briew, kumta ba kan ym don ka spillage jong ka tiar donkam ha ka por jong ka jingiaid.
 - Yn pynlong ia ka avenue plantation jong ki jait jingthung ba thymmai kiba don ka high APTI (Air Pollution Tolerance Index) ha ki bynta jong ki surok.

4.2. Ki Jingshaktah na ka jingjaboh um bad ka jingpyniaid ia ka

Ka daw ba kongsan jong ka jingjaboh um ka dei ka jingpynmih na ki par dewiong bad ka jingtuid ka dewbah kaba kit ia ki rben ba lait. Ka um kaba mih na ki par dewiong yn pynkhuid ha ki pung ban pynneh ia ki rben sha trai jong ka pung.

Ka um kaba donkam man la ka sngi ha kane ka par dewiong ka long kumba 150 KLD, ha kaba 60 KLD na kane yn pyndonkam ban pynjah ia ka pumpum (dust suppression), 10 KLD

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ban sait ia ki HEMM ha workshop, 70 KLD ban thung dieng, bad 10 KLD na kane ban pyndonkam ha iing bad jingdonkam shimet.

Ki jingpyniaid jingpynkhuid um ki long kumne harum:

- Yn tei ia ki synsar jaboh (garland drains) kiba don ka jingheh bad ka jingjriong kaba biang ha ka bynta ba long poh bad ha ki jaka ba pynlang iaika um, haduh ba kut ka jingdon ki (LoM), khnang ba kane ka um kaba tuid na ka jingkieng ka um, kan ym poi sha ki shnong jong ka Porkhadoh, Nongkulang, Mawmarin bad ki jaka ka mariang bad ki jaka rep.
- Yn tei ia ka jinglum um slap (rainwater harvesting) ha ka jingheh kaba biang ban pynlang ia ka um slap ha ki ainguh sngi, khnang ba kan pynneh ia ka um ha kane ka jaka khyndew jong ka par dewiong.
- Ban tehlakam ia ka jingtyrkhong bad jingpynjaboh iaika um mariang, ki lad jingpyniaid kum ki tangki jngai, ki iing badki jingpynlong um, bad ki jingtei ki garland drains ki long kiba biang.
- Ka jingtei ia ki bniat badki jingteh hapoh ka long ban tehlakam iaika jingtuid ka um halor ki hajar. Kane yn leh da kaba tei ia ki terrace bad ki jingpynlong um ha ki jaka ba shait tuid.
- Yn shna ia ki jingkyndong bad ka khyndew ba heh na bynta ban pynduna ia ka jingtuid um bad ka jingtyrkhong iaika khyndew.
- Ka um kaba lum ha ka kynroh jong ka quarry yn pyndonkam da kaba mih bad pynlang sha ka Effluent Treatment Plant (ETP).
- Ka um kaba mih na ka jingsait ia ki HEMMs yn lum bad pyndait ha ka ETP. Ka um kaba la pynkhuid yn pyndonkam ban sait bad pynkhuid ia ki HEMMs, tehlakam iaika lyer bad ban thung dieng - pynneh iaika jinglum ka um (Zero Liquid Discharge - ZLD).
- Ka um jong ka septic tank yn pynkhuid da ka septic tank bad pynlang sha ki soak pits.
- Ka um kaba don ha ka dewbah bad ka um kaba rit yn pynneh bad peit man la ka por.

Ha ka jingpynbeit halor kane, lah ban ong ba kam don jingma kaba khraw halor ka jingtyrkhong ka um hapoh khyndew ha kane ka jaka. Ha kaba kum kane ka jingjia jingma na

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ka jingkyndew ha ka par dewiong, ka Pyndengshahlang Coal Block projek kan shim ia ki lad ba biang ban tehlakam ia kane ka jingeh.

4.3. Ki Jingshahktah Na Ka Jingsawa bad ka Jingtahlakam ia Ka

Ka daw ba kongsan jong ka jingsawa ha ki par dewiong ka dei ka jingpyndonkam ia ki kor kiba khlaif, ka jingtrei jong ki kor diesel kum ki DG sets, ki pump ban pyniap um, ki kor ban wut lyngkha, ki dumper (trok rah ñuit), ki road grader, ki excavator, bad kiwei de, kumjuh ruh ka jingpynbthei, ka jingiaid ki truck. Kito ki nongtrei kiba pyndonkam ia ki HEMM ha ki jaka ba don jingsawa kaba tam ia ka 90 dB(A) kin shah ia ka jingshngain kum ki earplugs bad earmuffs. Kaba kham kham ia ki khet kum ki dozers (kali khwai khyndew), shovels (borsha), dumpers (trok rah ñuit), feeder breakers, bad kiwei de kin shna ia ki jingpynshngain bad ki jaka ba lait na ka jingjaboh.

Ki lad jingpyniaid ban pynduna ia ka jingsawa kin long kumne harum:

- Ki lad ban pynduna ia ka jingbthei kin pyndonkam da ki millisecond delay detonators bad relay systems ban pynduna ia ka jingsawa bad ka jingkhie shakri jong ka bthei.
- Ki jingktah bym salia kiba lah ban jia na ka jingbthei ba ar kan lah ban pynneh da ka jingthmu kaba dei, ka jingthew bad ka jingpynbiang ka jingkit.
- Ka jingthmu kaba dei jong ka jingbthei kaba la khein naduh ki lad jong ka lyer kaba bha bad ka por ba ka par dewiong ka trei.
- Ka jingthung dieng ha ki lai jaka ha ka par dewiong bad sawdong ka jaka thied.
- Ka jingthung dieng ha ka lynti iaid kali jong ka par dewiong.
- Ki injin jong ki HEMM bad kiwei pat ki kor bad kali jong ka par dewiong kin pynneh bha ban pynduna ia ka jingsawa. Ka jingpyntreikam ia ki silencers ha ki dumpers (trok rah ñuit) bad kiwei pat ki kali kin pyrshang ban tehlakam ia ka jingsawa kaba mih.

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- Ka por trei kin peit bniah bha da ka Site Manager/Engineer ban pynneh ia ka jingkhie shet jong ki nongtrei na ka jinggsawa kaba khraw. Yn buh shuh ia ka pla jong ka bai sah ban peit ia ka koit ka khiah jong ki nongtrei man la ka saw bnai kaba kynthup ruh ia ka audiometric tests.

Nangta, da kitei ki lad ban pynduna ia ka jinggsawa kumba la kdew haneng, ka jinggsawa kan ieng ha ka rukom kaba biang katkum ki kyndon ba la buh.

4.4. Ki Jingshah ktah na ka Jingkhih Khyndew bad ka Jingtehlakam ia ka

Ka jingpynbthei ha ki jaka tih dewiong ka lah ban pynlong ia ka jingkhih khyndew kaba lah ban pynjulor ia ki jingtei kiba marjan. Ka jingjubor na ki maw kiba la bthei ruh ka dei kawei pat ka jingeh kaba donkam ban da peit. Ki lad jingpynkhuid kin long ha kane ka projek ban tehlakam ia ka jingsawa bad ka jingkhih jong ka bthei ha ki jaka kiba marjan bad kane ka projek.

- Yn pyndonkam ia ka lad jingbthei kaba iada kaba long ka Controlled muffled blasting technique ban pynduna ia ka jingkhih jong ka bthei.
- Ka jingkhuid bniat bniah jong ki bniat kiba kham larkam.
- Ka jaka hapoh ka 500 meter radius jong ka jaka bthei yn pynbna kum ka jaka ba ma/jaka ba kham eh, da kaba pyniing ia ki lama iong ne ki jingshai ba biang. Ka jingpyniaid ne jinglong shapoh jong kane ka jaka kan long kaba khang pyrshah haba pynlong ia ka jingsawa bthei.
- Ban iada ia ki nongtrei par dewiong ba don bynta, yn shna ia ki jaka rieh ha ki jaka bthei ban ai ia ka jingiada ha ka por pynbthei.
- Yn ai jingmaham da ka sur ba kongsan khatsan minit shwa ban bthei, khnang ba ki briew kin lah ban mih noh na ka jaka ba ma.

4.5. Ki Jingshah Ktah Ha Ka Mariang bad ka Jingtehlakam ia Ka

Ka rukom pyndonkam ia ka khyndew ha ka jaka ba shah khang ki lah ban kylla na ka daw jong ki bynta bapher jong ki jingtrei khaih dewiong. Yn leh ia ka jingkyllain ia ka khyndew

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ryngkat bad ki jingtrei khaii dewiong ba dang ïaid khnang ban pynduna ïa ki jingmih ki ban pynjutor ia ka mariang. Haden ba kut ki jingtrei khaii dewiong, yn thung jingthung ha ka 68.08 Ha. jong ka khyndew, da I Projek Proponent, 8.7 Ha. jong ka jaka khlaw ba ym yn sa ieh khlem ktah. 23.22 Ha. ka khyndew yn sa ieh khlem pynjot.

Ki lad jingpynkhuid harum yn sa leh ha kane ka projek:

- Yn thung jingthung ha ka 68.08 Ha. jong ka jaka projek da ki jingthung khlaw tynrai, ki jingthuh kiba heh APTI, kiba long kiba lah ban pyndonkam bad khie bit.
- Ka dew thung ka nym khleh bad ka overburden bad kin sa bret abd buh beit la ka jong ha ki jaka ba la buh kyrpang halor ka jingthung greenbelt/jingthung.
- Ka jingpyndap biang ïa ki jaka ba shah tih mine ha ka por ba dang ïaid ki jingtrei khaii dewiong.

4.6. Ki Jingshahktah ha ka Ecology (Mariang Jingim) bad ka Biodiversity (Mrad bad Jingthung)

Watla don ka bynta jong ka jaka par dewiong (8.70 Ha.) kaba kynthup ïa ka khlaw ba ym pat ktah, ki bynta jong ka jaka peit kin lah ban kdew ha ki bynta bapher kum ka khlaw tropical, subtropical-broad leaved bad ka khlaw pyn, temperate forest bad ki jaka niut (Soil & Water Conservation Department, 2011). Kumta, ki lad jingiada harum kin sa leh ban ïada ïa kino kino ki jingthung kum kitei:

- Ka bynta hi jong ka khlaw ba ym pat ithuh yn sa ieh khlem ktah bad ym don jingpyndonkam ïa ka khyndew khlaw. Yn sa leh ïa ka jingthung jingthung ha ka safety belt kaba ~10-meter ka jingiar ha u lynti khlaw naduh kaba sdang, shwa ba kin sdang ki jingtrei khaii dewiong.
- Ka jingthung jingthung ha ki lynti lynti ha ki jaka bym dei khlaw hapoh ka 5 km radius na ka jaka par dewiong da ki jingthung tynrai.
- Yn sa leh ïa ka jingthung angiosperms (ki jingthung dieng bad soh) ban khring ïa ki

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jait mrad bapher kum ki khniang, jakoid, bsein, sim, bad mrad ba heh.

- Yn sa leh ia ka jingthung kaba iaada bad kiwei ki lad ban tehlakam ia ka jingkhieh khyndew bad jinghawa ban pynsuh ia ka jingktah ba khyndiat eh ia ka ekoloji bad biodiversity ha sawdong.
- Yn pyndonkam ia ki lad jingbthei kaba iaada bad kiwei ki lad ban tehlakam ia ka jingkhieh khyndew bad jinghawa ban pynsuh ia ka jingktah ba khyndiat eh ia ka ecology bad biodiversity ha sawdong.
- Jingpynspray um man ka por ha ki jaka ba pynmih pumpum kum ki jaka kit bad buh, ki lynti iaaid kali bad ki lynti kit, ki jingthylli dew thung, ki jingpynlang dewiong, bad kiwei kiwei, ban lait na ka jingpynlang dust bad kiwei ki kynroh ha ki dieng ha ki jaka ba marjan.
- Ban pynneh ia ka jingiasoh jong ka level jong ka um ha kane ka jaka, ka um na ka karkhana dei ban pyndonkam hok na ka bynta shibun ki kam, kum ka dust suppression, ka jingthung, ka shna-um HEMMs, bad kiwei. Ka um ba lah tam shall dei ban pyndonkam biang na ka bynta ka jingiarap sngewbha na khyndew, hadien ba la pynsangeh lyngba ki jaka pynsangeh um.

La pynkhreh shwa ia ka Greenbelt Development Plan kaba kyrpang ia kane ka jaka bad ka projek.

4.7. Ki Jingktah ha ka Ioh ka Kot ha ka Imlang Sahlng

Kane ka projek ka la antad ban wanrah tang ki jingktah ba bha ha ka jingim jong ki brier ha ki shnong ba marjan. Kan wanrah ka jingkieh haka ioh ka kot haka jaka projek kaba kynthup ruh ia ka jingkylla ha ka jingtei (infrastructure) bad ki jingai jingmyntoi jong ka shnong. Ki nongpyniaid ka projek kin pynleit jingmut ban shna jingkylla na ka bynta ka jingim ba bha jong ki nongtrei ha ka karkhana, ki longiing jong ki bad ki brier ka shnong ba marjan. Kumjuh ruh, ki jingtrei khaii dewiong kin wanrah ki lad trei kam ba khlem pat ai kam bad kin wanrah ruh ki lad sumar bad lad pynmih jingtip kiba shai.

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5. KA PROGRAMME BAN PEIT IA KA MARIANG

La pynkhreh ia ka jingpeit ia ka mariang na ka bynta ka projek ban peit bniah ia ka jingtreikam hok jong ka Environment Management Plan bad ban shim ki lad jingsumar haba jia ka jingjakhlia haki jaka marjan. Ka Environment Management Committee kan long ha ka dorbar projek ban peit ia ka jingpyntrei kam jong ki lad ban sumar ia ka marban ha ka projek.

Ka jinglong ka lyer, ka jinglong ka um, ka jingjrong ka sur, ka jinglong ka khyndew ka um kin peit kham slem bad kin shim ki lad jingsumar haba donkam. Ka Environmental Monitoring Cell (EMC) kan long ka jaka pdeng na ka bynta baroh ki jingpeit mariang bad ka jingthoh jingtip. Kane ka jingtip kan kynthup bad phah man ka por sha ki bor synshar ka jylla Meghalaya. Ki reports kin long kiba shai bad phah man la ka hynriew bnai.

6. KIWEI PAT KI BYNTA JONG KA JINGKHMIIH KA PROJEK

6.1. Ka Jingpynweng/Jingpynkhih ia ki Nongshong Shnong

Ym don ki jaka shnong ha ka projek bad kumta ym donkam ka jingbishar pynkylla bad jingpyniaid noh jong ka Sorkar Meghalaya ne ka jingpyntrei kam jong ka.

6.2. Ka jingpynshisha ia ka jingma bad ka Plan Ban Sumar Jingma

Ki jingtrei khaii dewiong bad ki kam ba iadei kin don bun ki jingma ia ki nongtrei bad ia ka pyrthei baroh kawei. U nongtrei ha ka karkhana dewiong un donkam ban trei ha ki jinglong ba iaineh shngain bad koit khlieh.

La dei ban leh ia ka jingpeit jingma man la ka por. Ka jingpeit jingma kan kynthup ia ka jingpynshisha ia ki jingma ban ithuh, pynkhreh bad pynioh ia ki jingiarap kaba biang. Ka thong na ka bynta ka jingpeit jingma man la ka por ban ithuh ia ki jingma, pynshisha ia ka jingma bad ki jingteh bad peit ia ka jingpyntrei ia ki jingteh na ki jingpeit jingma ba ladei shwa.

Ka Pyndengshahlang Coal Block projek ka long ka jingsdang thymmai bad ka jingtrei khaii

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dewiong kan leh da ka shovel dumper combination ha ka opencast mechanized method (ka rukom tih najrong shapoh). La leh ka jingsumar kaba kyrpang haba pynmih nongtrei ha ka karkhana shuwa ban pynkham ia ki nongtrei sha ka karkhana, yn pynbit pynbiang ka jinghikai kam bad ki jingstad ia ki kyndon jong ka Regulation 106 jong ka CMR 2017. Ki mat ba khraw kiba dei ban sumar ka jingpyndait ki dei kine:

Ki bynta sumar ia ka jingbha bad jingpyniaid ia ka HEMM/equipment da ki kyndon ba kane.

- Jingneh ka stability jong ki Benches, Quarry High walls bad Spoil Dumps
- Ka jingpait ka slope ha Mine Pit bad ha OB Dump
- Jingpeit ba kham bha pyrshah na ka jinglang na ka um kaba sah
- Jingpeit ia ka jingsdang jong ki equipment kaba pyndep ha ki Horizons
- Jingsumar na ki Electric shocks
- Jingpynneh ka jingsumar na ka Jinging ding
- Ka jingpynduna ia u pum pum bad ka jingsumar ia ki Exhaust Fumes
- Jingpeit ka jingsumar haba tih bad pynbthei
- Jingpyniaid ia ki jingpynmih ki mar pynbthei
- Ki jingsunar na ki accident kali
- Jingsumar ia ka koit ka khiah

6.3. Jingpyllait Paidbah

Jingpyllait paidbah yn leh hadien ka jingphah ia ka Draft EIA Report sha ki bor ba dei.

7. KI JINGMYNTOI PROJEK

Ka jingpynlong ia ka Pydengshahlang Coal Block projek ka long kaba kongsan na ka bynta ka jingiarap ka jingpyntreikam ka dewiong na ka jaka bad ban pynbiang ia ki jingdonkam

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jong ki nongthied bad ha ki jingdonkam bapher bapher. Ka jingpynlong ia ka projek kan wanrah ki jingmyntoi ba kum kine:

- Ki lad trei kam ba khlem pat ai kam ia ki briew ka thain bad ka jingkiew ka jingpynmih jingtip, ka jingpyntrei kam, ka jingsumar jingmyntoi shnong bad ki lad sumar ka koit ka khiah.
- Ka projek kan iarap ka jingim ba bha, ka ioh ka kot, ka thain bad ruh ka jylla
- Ka projek kan iarap ka jingkylla ha ki lad infrastructure (jingtei) ha bad ha marjan ka projek.

8. KA ENVIRONMENT MANAGEMENT PLAN (EMP)

Ka EMP ka long ka plan kaba kongsan ban pyntreikam ia ka projek ban long kaba neh bad kababha ia ka mariang. Ka EMP kaba treikam ka dei ban pynlong ia ka projek kaba pyni ia ka jinglong hok ba kin sumar ka kiei kiei kiba ktah ne pynjulor. Kine ki thong ki dei ban pynkhreh ha ka design jong ka EMP ban pynbeit ia ki jingktah kiba sniew kiba kin long kiba la leh na ka khaii:

- Ka jingpynbit pynbiang ia ka khyndew bad ka par dewiong jaka khaii kiba la dep khaii bad active points jong ka mine lease area haduh kaba lah kut, haka jingiatrei lang bad ka ioh ka kot jong ka khaii, ka rukom tuid ki wah, ka jingskhem jong ka khyndew, ka jinglong dieng bad kumta ter ter;
- Jingbuh duna ia ka jingktah ia ka um bad ka jinglong ka thain bad jingpynneh ia ka na ka bynta ki nongshongshnong;
- Ki jingtrei ban pynbha ka jinglong ka lyer, ka jinglong ka um bad ka khyndew haka por khaii bad hadien ka khaii; bad

Ka Draft Environmental Impact Assessment/Environmental Management Plan Na ka bynta ka jingpynmih 0.15 MTPA Dewiong da ka Open Cast (OC) Mining Method ha ka jingheh ka Mine Lease Area kaba long 100.00 Ha ha ka shnong Sdaddkhar, Nongstoin C&RD Block, West Khasi Hills District, Meghalaya.

KYRTENG JONG KA PROJEK: PYDENGSHAHLANG COAL BLOCK
KYRTENG JONG U PROJEK PROPONENT: SHAININGSTAR KHARDEWSAW

- Ka jingpynneh ia ka jinglong kaba iarap ban pynbha ka jinglong ka jingim, ka ioh ka kot jong kane ka thain.

9. KA JINGLUT JINGSEP JONG KA PROJEK

Ka Pydengshahlang Coal Block ha ka jingheh 100.0 ha kan long kaba la shongthuh ia u nongaplikant Bah Shainingstar Khardewsaw. Ka jingbun ka pisa ka projek ka long hapdeng ₹2700 Lakhs. U nongpyniaid ka projek un buh ia ₹150 Lakhs ban pynbeit ia ki jingktah ki marban ba wan na kane ka projek khaii kum ka Corporate Environment Responsibility (CER) Programme.

10. JINGPYNKUT

Ka jingkiew bad jingmih kamai ka India ka shong hapdeng ha ka dewiong, kaba long ka jingpynmih ka bor ba kongsan. Ka khaii dewiong ha Meghalaya ka long kum ka jingmih kamai kaba rit bad ki nongshong shnong, kiba dei ruh ki trai jong ki minerals hapoh ka khyndew jong ki. Ka dewiong ba la pynmih kan iarap ia ki jingdonkam ka power sector, ki karkhana shna cement, ki fertilizers, ki karkhana tyrpeng, bad kumta ter ter kin myntoi na ka dewiong ba la pynmih na ka karkhana. Ka jingpyntreikam ia kane ka projek ka long na ka bynta ka jingpynmih ia ka dewiong reserves na Pydengshahlang Coal Block da ka jingshah shovel-dumper combination ha ka opencast mechanized method. Ka long na ka bynta ka jingpyntreikam ia 1.3911 MT jong ki reserves dewiong ha ka jingim baroh kawei jong ka karkhana. Ha 12 snem. Na ka jingpeit bniah ia ki jingktah ka marban bad ki lad jingsumar kiba la pynkhreh ha ka EMP, ka la antad ba ym don jingktah kaba khraw ha ka ecosystem kan jia na ka jingpyntrei ia kane ka opencast mine. Hynrei, ka projek kan wanrah shibun ki jingmyntoi kum ka jingpynbit ia ki lad trei kam khlem pat ai kam bad jingkiew ka jingim ka thain, da ka jingkylla ha ki lad infrastructure bad ka jingim ba bha jong ki briew ka thain.