

KA EXECUTIVE SUMMARY

0.1 Ka Jinglamphang

Ka National Highway Authority of India (NHAI) kala thrang ban pyntreikam bad pynbha ia ki ba bun ki surok bah (national highway) daka ba pynneh iaki naka bynta ka jingiada bad jing iaid beit ki kali namar ka jingroi palat ka dheng kali mynta da ki phew snem. Ban pynioh ia ki surok ba bha ka long ka jingthrang ba kongsan tam jong ki nongpynmih bad ki nongshna ha ka bynta baroh jong ka ri. Ka project jong ka 2 laneka ba iaid lyngba na ka shnong Jowai sha Assam bad lyngba ka bynta jong ka Meghalaya ka ba long kumba (km 69.2 haduh km 173.200) jong ka NH-44 haka jylla Meghalaya kaba dei shibynta jong ka National Highways Development Phase III Programme. Ka NH-44 kaba sdang naduh NH-40 ha Shillong bad iaid lyngba ka Jowai bad Silchar, ka rung lyngba ka Tripura shaduh Agartala. Kumta kane ka Natinal Highway ka long ka jingim iaka state Tripura bad ka pyniasnoh bad kiwei pat ki ri.

0.2 Ka Jing Batai Sha Phang Kane Ka Project

Kane ka surok ka sdang naka shnong Jowai, naka Chainage km 69.200 bad kud ha km 173.200 hajan khapud Assam/Meghalaya (Ka jing jrong kumba 104 km). Kane Ka surok ka iaid lyngba ki shnong Khliehrait, Ladrymbai, Wapung bad Mynkere, Sonapur ki ba hap haka district Jaintia Hills jong ka jylla Meghalaya, kane ka surok ka iaid lyngba ki lum ba don jing jrong kumba 100m haduh 1600m napoh MSL. Katto katne ki bynta jong kane ka surok ki dei ba don bun ki nongshong shnong kumta yn i don jaka ban pyniar iaki surok.

Ka jing thmu jong kane ka project ka long ban pynbha bad pynstet ia ka leit ka wan bad ban pynduna ruh ia ka jing dhengkali ha ki surok bah. Lah pyrkhath ruh ban pyndonkam ia ka jingdon right of way (ROW) sha kadiang bad kamon khnang ban pynduna ia ka jingshim jaka na ki briew, wat la katta ruh ka jingshim jaka ka donkam hi habaroh kawei ka surok.

Table Es 1: Project Interventions

SI no.	Features	Existing	Proposed
1	Right of way	10 to 12m in hilly terrain; 15 to 17m in rolling	20m
2	Carriageway	2-lane carriageway with width of 6.45 to 8.3m	2-lane carriageway of 7m with 1m paved shoulder on hill side and 1.5m paved plus 0.5m granular shoulder on valley side
	Junctions	Minor-29	Up-gration
3	Bridges: Major	4	1 reconstruction 3 repaired
	Minor	35	1reconstruction 34 o be repaired

4	Culverts Pipe	50	10 to be reconstructed 40 to be repaired
5	Slab/RCC	391	85 to be reconstructed 306 to be repaired
6	Drainage	Mansory drain-68.716km	Unlined drain-74.8km Stone mansory drain-3.36km
7	Slope Protection	Mansory retaining Wall-11.59km, Breast wall- 501km Gaboin wall-57.5m length	Retaining walls and breast walls- 20.49km(2 to 7 mt ht) ® Extension of 5m wall-4.63 ® Gaboin wall of 2m ht-2.98 ® Gaboin wall at slope protection work 385m ® 3.06km by installing synthetic erosion control mat etc. and rock bolts. (slope protection measures will be taken as per IRC:56-1974)
8	Bus stop	Nil	17 to 10 location
9	Toll plaza	Nil	2
10	Truck Parking	Nil	1
11	Way side Amenities	Nil	2

0.3 Ki lad ki rukom bala shim na ka bynta ka EIA

Kane ka projek ka buh jingmut na ka bynta ka jingpynneh pynsah ia ka mariang da ka jingthmu ban wanrah ruh ia ka roi ka par bad ban sumar ruh ia ka mariang lyngba ka EIA. Ka EIA kan peit bad bishar ban pynduna iaka jingpynjot pathar iaka mariang daka ba kynthup lang iaki nongshnong shnong ban ia shim bynta ban iada iaka jinpynjot iaka mariang ki ba kynthup naduh ka rukom long ka jaka, ki jingthung jingtep, ka imlang sahleng bad kiwei de.

Kane ka projek kan pyrshang ban bud lud iaki kyndon kiba hap haka EIA kiba kynthup iaki jingkhmih bad bishar bniah da ki reiw shemphang. Ka jingpyntrei kam ia kane ka projek kan long haduh balah ioh jingmynjur naka EA.

Haka ba shna iaka report jong ka EIA/EMP, lah bud iaki kyndon jong ka EIA Guidance Manual-Highway jong ka MoEF.

0.4 Ka Rukom Pyntreikam

Hadien bala bishar bniah iaki kyndon, ki ain bad ki rukom pyntreikam jong ki sorkar pdeng bad jylla ki ba iadei bad ki jingktah jong ka mariang, kane ka projek kan sa pyntreikam hadien bala ioh ka jing mynjur ha baroh ki bynta.

Ka jingtyrwa bad pynheh ia ka NH 44 kaba long hapdeng Km 69.200 haduh Km 173.28 kaba jrong kumba 104 Km. Kat kum ka kyndon jong ka tnat treikam ka Minitry of Environment and Forest 2006, kane ka projek ka hap haka bynta ka 'A' projek bad ka lah don kam iaka jingioh jingbit ban pyntreikam namar kane ka projek ka lah donkam sa kumba 20m ka jingheh bad 30m ka jingjrong ka bahap hapoh 10 Km hapdeng u pud ha Assam bad Meghalaya namar kata kat kum ki kyndon ba ia haplang yn

pyntrei kam. Kat ba na Jowai 69.200 Km haduh Sonapur (Km 139.050)lah dep ioh jingbit na ka bynta ka 4 lane by pass (kat kum ka file no: 5-15/2008-1A-111 Dated: 10th December 2008).

Kiwei pat ki jingdonkam ki ba iadei bad ki jingioh jingbit na ka sorkar jylla la pyni haka table harum

Table E 2:

Table Es 2: Ka jingai jingbit ba don kam ia kane ka projek

Sl no	Ki jingpyntrei kam	Ki bor ban ai jingbit	Ki ain ba iadei
1	Ban buh iaki hot mix plant, crushers and batching plant	Meghalaya State Pollution Control Board	Air(Prevention and Control of Pollution) Act, 1981 and the Noise Pollution (Regulation and Control Rules, 2000
2	Ki jaka Shong ki nongtrei bad ki jaka buh iaki tiar ki tar	Meghalaya State Pollution Control Board	Environment Protection Act, 1986 and Manufacturing, Storage and Imports of Hazardous Chemicals Rules, 1989
3	Ka jaka buh bad ka jingrah jing rong ia kino kino ba don jingma	Meghalaya State Pollution Control Board	Hazardous Waste(Management and Handling) Rules, 1989 and Manufacturing, Storage and import of Hazardous chemical Rules, 1989
4	Ka jingpynmih noh iaki um ba jakhlia ba sah ki nongtrei	Meghalaya State Pollution Control Board	Water (Prevention and Control of Pollution) Act, 1974
5	Ka jingpynmih iaki Kwari(quary) thymmai	Department of Mining, Govt. of Meghalaya	Environment (Protection) Act, 1986
6	Tree cutting permission	Forest division, Jowai	Tree preservation Act, 1976
7	Ka jingpynkynriah iaki jaka forest	Forest division, Jowai	Assam forest regulation Act 1891. The Meghalaya Forest Regulation (Application and Amendment) Act 1973.

0.5 Ka jingpynbeit kat kum ka jinglong ka mariang

Ka rukom long jong ka jaka

Ka jinglong ka mariang

Kane ka projek ka don haka sub tropical zone. Ka jing sngem jong ka jaka ka don hapdeng 30% haduh 80% hapdeng u bnai August bad September. Ka jing hap slap ka long hapdeng 2,000 haduh 4,000 mm. Ka jingshit haka por lyuir ka kiew kum ba 26° C bad haka por tlang pat ka hiar haduh 9°C. Ka don ka por ba ka jingkhriat ka long hapoh 0° C. Kane ka thew ba ka jingshit jong ka khyndew ha ka shisnem ha ki jaka ba long lum ka duna ban iaka 22° C bad kham heh iaka 15° C, ha ki jaka ba long them, ka palat iaka 22° C.

Ka jing Long Jong Ka Jaka

Ia kane ka jaka lah pynlong daki ranab lumki ba tip kum ki Precambrian Indian peninsular shield. Ka jing jrong jong ka jaka ka long kumba 100 haduh 3000 m nalor ka sla khyndew. Kumba 35 Kms na kaba sdang ka don ki ranab kiba kham rit kiba long kumba 16° hauh 15° bad ka ba shah ka long long kumba 20° haduh 45°.

Ki Mar Poh Khyndew

Ki jait maw ki ba don ha NH 44 hapdeng Jowai (km 63) haduh Khappud Assam(km173.00) kiba lah tip kum ki Archeans haduh Tertiary. Ka jing long jong kine ki jait maw lah batai shai ha ka table **Es 3**.

Table Es 3:Kaba pyni iaki rukom pynlong jongki maw

Section	Chainage (KM)		Total (Km)	Rock Types	% wise Distribution
	From	To			
I	64	73	9.0	Gneissic Rock with Schist	8.4
II	73	88	15	Sand Stone Wuth quartzite and shale(without coal seam)	14
III	88	123	35	Sand Stone and Shale(with coal seam)	32.7
IV	123	139	16	Lime Stone With shale	15
V	139	171	32	Thinly bedded shale with sand stone and clay stone	30

Ka jinglong jong ka jaka ha Dawki (km140) bad Boraghat (km131). Iaka Dawki lah pyniakhlad da ki maw shyiap bad maw dewbyrtha jong ki maw brail bad ki maw Jantia hajan Sonapur. Ka Boraghat ka pyniakhlad iaki maw brail bad ki maw shyiap jongka Shyllat.

Ka jaka ba don ka jingkhoh bad jingtuid Khyndew

Ka jing kdew iaki jaka balah ban don ka jingtwa khyndew (Landslide) kat kumba ba la pynshong nongrim naka Landslide Hazard Evaluation Factors (LHEF) ban bishar iaka jingma jongka jingtwa khyndew. Lah bishar kat kum ka jingshong synjor jongka jaka, ka jing pynlong jong ki maw (Litho logy), ka jaka ba sop da ka khyndew ki ba don Umpohliw bad kiwei kiwei de. Ha ka surok ban shna iakane ka projek don 28 tylli ki jaka ki ba kum ki tei.

Ka Jinglong Jong Ki Wah

Kane ka ka projek kahap ban iaid lyngba ia ki ar tylli ki wah ba kongsan kata ka wah Luhbhaa bad ka wah Baleshwar nalor kine ki don sa ki wah diud ki ba mih tang haki aiom slap kum ka Muksa, Motaiya, Narpu, Tamung, Umjrong, Tongsheng, Umprushung, Apha. Lahdep ban bishar bniah ha ki saw tylli ki jaka, kata ka long ka Muksa ha Ladrymbai, ka wah diud ha Mumdihati, ka wah Lubha bad ka wah Baleshwar. Ka Boi-Chemical oxygen kiba dei ban don palat iaka >3mg/l (water quality criteria below C as per CPCB standards). Katkum ka Colifom ka duna ia ka 500 bad ka hap hapoh ka B criteria jong ka jing long ka um. Ka E-COLI kam don hapoh ki sample. Ka jing long jong ka um ki long kiba biang namar ki dei ki um ki ba tuid.

Ka Jinglong Ki Um Hapoh Khyndew

Ka jingdon jongka um hapoh khyndew shwa ban slap kalong 2.49 haduh 3.99 mbgl bad 1.5 haduh 1.7 mbgl hadien ba lah kut ka por slap. Ka kyrdan jong ka jingkiw ki um kalong tang 0.16% kaba wanrah iaka lad iaka um ban wan kiew kumta ymdon ban wanrah kino kino ki kyndon pyndao iaki um. Don 8 tylli ki pump kti 16 tylli ki um kor bad kawei ka top hapoh ka surok jong kane ka projek naduh 5 haduh 9 m jongka center line. Ki sample um ki duna iaki iron(<0.3 mg/l desirable limit), fluoride(<1mg/l desirable limits), chloride balong kumba 13 – 22 mg/l (<250mg/l desirable limits). Ka jing long jongka um kalong kaba biang bad ka oxygen ka don kumba 6.8mg/l

Ka Jinglong Jongka Lyer

Iaka ka jinglong jong ka lyer lah bishar bniah haki 5 tylli ki jaka jong kane ka projek. Ki jaka bala bishar bniah ki kynthup iaki nongkyndong, nongsor, khapsor. Habaroh kine ki jaka ka lyer ka long kat kum ki kyndon bala shah (Permissible Limits). 90% haka por PM 10 kalong < 75.44 ug/m³ bad ha ka por PM 2.5 kalong < 39 ug/m³ bad don ki jaka ba kham kiew da ka jing don u diw iong.

Ka Jinglong Jongka Jing Sawa

Iaka jing sawa lah bishar bniah ha ki 6 tylli ki jaka ba don kane ka projek. Haki 2 tylli ki jaka lah bishar bniah ha baroh arliang ki surok. Iaka ka jingsawa hajan ka Ratacherra Primary School (sensitive location) ka ka kham kiew da 2dB (A). Hajan ka iengmane ka shnong Thangskai ka kahm bun da 2.9 dB (A) haka por mynsngi palat ban iaka ba ki shah bad ha ka por mynmeit ka biang. Ka Sonapur bad ka Umkiang ka tam da kumba 5dB (A) haka por mynsngi.

Ka Jingdon Haka Mariang (Environmental Resources)

Protected Site/ Notified forest/Wildlife area

Ka surok jong kane ka projek ka iaid lyngba iaka Narpuh Reserve Forest naka jingkieng Lubha kaba don kumba 141.500 haduh 145.00 km (Block I) bad 160.00 haduh 167.100 km (block II). Kane ka projek ka pyrkhath ban iaid lait noh iaka jaka forest kaba long kumba 2.805(ha). Ka surok jong kane ka projek kan ym iaid lyngba ia ka wildlife sanctuaries. Kam don ruh kano kano ka jaka lane ka jing tei ki mymbarim hapoh ka 10 km jong kane ka surok ba la ithuh daka Archeological Survey of India.

Ki Jingthung Jingtep

Ki jingdon jong ki jingthung jingtep ha shi lynter kane ka surok ki iapher na ka wei ka jaka sha ka wei pat. Ki jingthung ki ba don kam ki long kum ki Kseh, Ngan, Lakhar, Salynda, Sochram, Dieng Kseh, Kwai, Talong, Jympa, Kathol, Cham bad kiwei kiwei. Kine ki jingthung kiai ymtang ia ki soh, ki syntiew, ki dieng thang, dieng saw dong iaki nongshong shnong harud kane ka surok hynrei ki long ruh ka jaka sah iaki sim ki ba don haka kane ka jaka. Ym don ki jingthung bala jan duh jait ha surok jong kane ka projek. Kumba 3450 tylli ki dieng lah ban hap ot ki ba kynthup haki jaka ka Forest bad ki bym dei jingka forest.

Ki Jait Mrad

Ki jait mrad bas hem haka ne ka jaka ki long ki Hoolock, Golden Cat, Leopard Cat, Jungle Cat, Large Indian Civet, Binturong lane Bear Cat, Himalayan Black Bear, Barking Deer, Pangolin.

0.6 Ka Jingiamir Jingmut Bad Ki Paidbah

Ka jingiamir jingmut naka bynta kane ka projek kala long lyngba bun ki lad ki lynti ki ba kynthup kum ka jinglum jingtip, ka jingiamir jingmut ki jing ialang bad kynduh iaki biew jong kito ki jaka bad kiwei kiwei de. Ka jingia shim bynta bad ka jingiamir jingmut bad ki trai jaka ka lah long haka ba bun ki rukom ha baroh shilynter kat ba dang pynkhreh ia kane ka projek. Ka jingiamir jingmut haka District level ka kynthup iaka NHAI, PWD, State Forest Department, State Pollution Control Board, Department Of Fisheries bad kiwei de. Ka jingiamir jingmut haki shnong lah pynlong haki nongkyndong, khapsor bad ki jaka sor ha baroh shilynter baka ne ka project ka lah ban ktah bad ban pyntip iaki biew shaphang ka jingthmu bad ka jing pynkhreh ia kane ka projek.

Kine ki jingiamir jingmut ki long kum ki lad ban tip shaphang ka jingsngew jong ki breiw shaphang ka projek. Katkum ka jingiamir jingmut bad ki paidbah lah sngew thuh ba ki kwah iaki jing pynheh surok hyrei ki don ka jing sngew ba lehse kane kan wanrah iaka jingpynkynriah iaki biew bad ka jingdon jingem. Ki jingeh kum ki compensation, nala, ka jing kthah iaki jingthung jingtep, ka um bad kiwei kiwei de lah pyngsngew thuh da u paidbah bad ia kine lah buh jingmut kumno ban pyntrei kam.

0.7 Ka jingphiah Bad Bynta Iaki Lad Ki Lynti

Lah don bynta ban bud lain iaka surok barim haka por ba shna bad pynheh surok khnang ban pynduna iaka jingjulong jong ki jingthung harud surok bad ban kynriah iaki biew bad ki jingdon jing em jongki. Lah bishar bniah iaki lad ki lynti ban pyntrei kam iaki surok bala don lypa ne banpynkynriah sha wei pat lada I donkam kat kum ka jaka.

0.8 Ka jingbishar iaka jingktah haka mariang

Table Es 4 Ki bynta ba lah ban ktah bad ki lad jingiada

Kaba iadei bad ka Mariang		Ki lad iada	Ka jaka
Ki um ba tuid halor	® Ki wah bad ki wah diud ki lah ban shah ktah daka jingtuid jong ki jaboh bad ki	® Yn kiar kat ba lah ban pyntreikam bad ban buh iaki tiar ki tiar hajan ki um. ® Ka jaka ban buh bad ban pyndap iaki	Ha baroh ki um ba don haki

<p>khynde w bad kiba don shapoh khynde w</p>	<p>umphniang haka por ba dang shna ® Ka surok kalah ban don daki kreas (grease),umphniang, hydro-carbons, metallic iron kiba lah ban tuid shapoh ki wah haka por ba dang shna ® Ha baroh ar kine ki bynta ka lah ban pynjaboh wat iaka um hapoh khyndew ruh.</p>	<p>umphniang bad ka kreas. ® Lah don ka jingpyrkhat ban shna iaki jingiada iaki umpohliaw bad ki kshiad. ® Ia baroh khoit ki jaboh bamih haka por ba pyntreikam ia kane ka projek yn leit bret haki jaka ba lah kdew da ki bah eh jongka State pollution Control Boards katkum ki kyndon. ® Iaki jaboh ba mih naki jaka ba sah ki nongtrei lah buh haki Package sewage treatment system ® Yn tei iaki jingker ban iada iaki jing tiud ki jingjaboh. ® Kan don ka jingpeit bniah iaka jingling jongka um. ® Ka jingtei iaki jingkieng haka por rang. ® Yn ai ki paia ba skhem bad ba jylliew iaki jing den um. ® Yn shna iaki nala ba biang. ® Iaki nala bala don lypa yn pynneh. ® Haka 74.8 km ka unlined nala bad 3.36 km ka mansory nala lah pyrkhat ban shna iaka jingtuid jongka um; kat haba biang ki jaka kin don ki thliaw ban ailad iaka um ban tuid ban pynduna iaka jingrong kiumphniang bad kreas .</p>	<p>jaka ba trei.</p>
<p>Ka lyer jaboh</p>	<p>® Ka lah ban don ka jingkiaw haki lyer jaboh haka por ba shna hynrei ki long tang shipor. ® Ka jingmih jong ki lyer jaboh ki kali haki por pyntreikam</p>	<p>® Ka jaka ba shna ban shah kan jngai kumba 1000 m naka liang jong ki jaka shong. ® Ki tiar ba shna kin don bynta ki ban pynkhuid iaki jaboh. ® Baroh khoit ki kali ba pyndonkam haka ba rah tiar yn tap iaki khnang ban iada iaka jing mih jong ka jingjaboh. ® Baroh ki kali bad ki tiar ki tar ba pyndonkam haka por ba shna yn sumar bha iaki khnang ban iada iaki jingmih jong ki jingjaboh bad ban bud iaki kyndon jong ka SPCB ® Haka por trei kam yn don ka jingpynduna iaki jingdheng kali daka ba wad iaki lad ban pyniaid beit iaki kali.</p>	<p>Ha baroh ki jaka ba don ki jingshna iaki surok bad iaki buh iaki tiar ki tar.</p>
<p>Ka jingsawa ba ktah</p>	<p>® Kan don ka jingkiaw haka jingsawa haka por ba dang treikam hynrei kan long tng shipor. ® Haka por ba don ka</p>	<p>® Ka jingpyntreikam bad ki tiar ki tar ba pyndonkam ynbud thik katkum ka kyndon jong ka Gol noise standards. ® Baroh ki kali bad ki tiar ki tar ba pyndonkam yn pyndait daki exhaust silinsar.</p>	<p>® Ka jaka trei bad jaka shong ; ka jaka</p>

	jingdheng kali ruh.	<p>Ka jingsawa ba mih naki tiar ki tar kan long kat kumka ain jong ka jingsawa.</p> <p>® Ki nongtrei ba don haki jingsawa ba jam yn deng daki jing da skhor.</p> <p>® Baroh khoit ki jingtrei kam kiba iadei bad ka jingioh jingbit, ka jingbuh, ka rah ka rong bad ka jing pynbthei yn bud kat kum ka ain jong ka Indian Explosive Act 1984. Ka jingo t kan long beit tang haka por mynsngi. La don ka jing pynbthei yn ai jing tip shwa iaki brieve ba shong sha ki to ki jaka.</p> <p>® Yn ym pyntreikam haka por mynmeit. Ka jingshong jong ki nongtrei kan long kumba 1000m jngai naki jaka shong.</p> <p>® Ki sain iada yn ai haki jaka ba kyrpang kum ha ki skol bad hospital.</p> <p>® Ka jingpynbeit iaki ranab kan pynduna iaka jingsawa.</p>	<p>ba don ka jingot.</p> <p>® ki jaka ba kyrpang kum ki skol bad hospital kin don ka jingktah ba kham bun.</p>
Ka jingtwaw Khyndew	<p>® 1.8 lakh m3 kan don iaki jingot iaki maw ba eh bad ba jem naka bynta ka 150 haduh 200 mm jong ka jing jylliew jong u lum</p>	<p>® Lah don ka jingpyrkhat ban ker kynroh kumba 20.49km ka ba iar kumba 5m ka jingjrong naka bynta ka 4.63 km. Ki kynroh jar (gabion wall) kumba 2m ka jingjrong naka bynta ka 2.9 km ka jing jngai bad ka jingiada iaka ranab kaba 385m sha rud jong ka surok. Ka jingjrong jong kane ranab ka long kumba 3.06km.</p> <p>® Yn pyndap iaki jaka bal ah pan jingbit.</p>	<p>® Ki jaka ba lah ithuh ba don bun ki jingtwaw khyndew .</p> <p>® Ki jaka ba hap ban ot iaki bynta jong u lum.</p>
Ka Khyndew	<p>® Ka jingjaboh jong ka khyndew bad um hapoh khyndew naka umphniang (fuels).</p> <p>® Ka jing long jongka khyndew (ka khyndew ba jem ka iarap ban pynneh ia ka um bad ban pynsan ia ki jingthung. Ka jingbuh bad ka jingpynkynriah ia ki tiar ki tar ka pynlong ia ka khyndew ban ngam shapoh bad ktah ia ka jingdon jong ka um bad jing sboh ka khyndew.</p> <p>® jingtuid noh ka khyndew.</p>	<p>® Ki kali/ki kor bad ki tiar ki tar ba pyndonkam, jingsumar bad ka jingpyndap umphniang yn leh ha kata ka rukom ba yn nym pynjaboh ia ka khyndew.</p> <p>® Yn buh ia ki thliew ban kjit bad ban pynlang ia ki jaboh umphniang bad kreas hajan ka jaka pyndap umphniang.</p> <p>® Ha baroh ki jaka buh bad pyndap umphniang lada ki don ha ki jaka rep bad ki jaka ba don ki jingthung jingtep, ia ka khyndew ba nalar yn weng bad buh shwa shipor sharud bad yn sa tap biang hadien bal ah dep ki kam ki jam.</p> <p>® yn pynduna ia ka jingshna ia ki surok ba shipor.</p>	<p>® Ki jaka ba la buh hajan ki jaka trei.</p> <p>® ki jaka jong ki surok ba shipor.</p>

		<ul style="list-style-type: none"> ®ka jingpyndap ia ki ranab kan long kumba 52.59Ha. ®yn shim ia ki lad jingiada ia ki ranab kat kum IRC:56-1974' 	
Ki jingthung jingtep	<ul style="list-style-type: none"> ® Ka jing kylla haka mariang kata haka jingkiew jingkhriat. ® Ka jingsynjor jong ki ranab lum. ® Ka jing pynkylla ka jaka ba sha ka surok. ® Ym don kino kino ki jingthaw bal ah jan duh jait. 	<ul style="list-style-type: none"> ®Ka jingpynbeit bha ia u lain ban pynduna ka jing pom pathar iaki dieng. ® Ka jingsiew iaki jingthung dieng ka long @ 1:2 haki jaka forest bad1:1 haki jaka bym die forest. ® Ka jingpyndap iaki ranab kumba 52.59Ha. 	<ul style="list-style-type: none"> ® Khambu m haki khlaw bad ki jaka lum.
Ki mrad khlaw (wildlife)	<ul style="list-style-type: none"> ® Ym lap kino kino ki mrad khlaw ha ka jaka ba iaid kane ka surok. ® Ym don kino kino ki mrad ba hap pynsah bad ba lah jan duh jait. 	<ul style="list-style-type: none"> ® Ka jingduh bad ka jingmynsaw jong ki mrad naki jingstet jong ki kali kan ym lah ban long. 	
Ka riti dustur bad ka imlang sahang	<ul style="list-style-type: none"> ® 318 ki jingtei ki lah ban shah ktah (299 jong ki briew shimet). ® Naka 318 tylli 205 lah shna da ki dieng 50 tylli ki dei ki ba bha 5 tylli ki ba kham bha 12 tylli da ka siej bad ka 1 ba malum mala. ® Kan ktah iaka ioh ka kot jong ki briew. ® Ka jing duh noh iaki jaka shong. ® Ka jingktah ia ki jing ring um (hand pump/tap). 	<ul style="list-style-type: none"> ® Ka jingsiew bad ka jingiarap NHA1 1956. (Resetelment Action Plan has been drawn inline with relevant policy and view of affected people) lane kat kum ba lah rai da ki bor. ® Kino kino ki jingtei ba lah shah ktah kin ioh beit iaki jingsiew. ® Ka jing ai lain kan nym ktah ia kano kano ka ingmane badki jingtei ba kyntang. ® Kane ka jingpyntreikam kan pyrkhath iaki jingpynbha bad pynneh iaki ingmane bad ki jingtei ba kyntang. ® Ia ki kor um bad ki pump um yn shna noh sha wei ha ryngkat ka jingmynjur bad ka shnong. 	
Ki jing iada ha surok	<ul style="list-style-type: none"> ® Ka lah ban lam sha ka jingtyngkhuh kali haka por ba dang shna bad pyntreikam. 	<ul style="list-style-type: none"> ® Ki jingshna pynbha haki jaka ba khun (curves). ® Haki jaka ba khapngiah yn buh da ki nongiarap (Segregation of slow traffic). ® Ki sain board bad ki lait ba biang yn buh ban iada naki jingtyngkhuh kali. ® Ki nongpyniaid kali yn buh haki jaka khapngiah. ® IRC: SP: 55-2001 yn bud iaki lad jingiada haki jaka trei. ® IRC: 67-2010 naki bynta ki jingkdew surok 	<ul style="list-style-type: none"> Ha man la ki jaka shna, jaka ba khim bad ba khun.

		bad kiwei de ki jingpyniaid jong ka IRC yn bud lang.	
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0.9 Ka jingpeit bniah iaka Mariang (Environmental Monitoring Plan)

Ka Environmental Monitoring Plan kan peit bniah iaki lad jingiada iaka mariang. Yn pyntreikam iaki ba bun ki lad jingiada bad yn bynshet iaki jingkitkhlieh ha ki bor ba dei peit. Ka jingbuh jingmut ban sumar iaka mariang haka por ba pyntreikam ka pyni iaka jingshim khia jong ki bor ba pyntrei ia kane ka projek ban iada iaka mariang. Iaki jingpeit bniah yn pyniaid da ki bor jong ki ba pyntrei kam iaki projek ryngkat pat ki jingiarap bad kiwei pat ki bor laitluid(independent Authority) ki ba dei peit iaki jinglong ki lyer, ki um, ki jingsawa bad kiwei kiwei. Ka jingpeit ban pymim iaki jingthung ruh lah ai jingmut ban buh. Ka jinglut jong kane ka monitoring plan kan long kumba Rs **1125000**.

0.10 Environmental Management Plan

Ka Environmental Management Paln (EMP) kadei ban peit iaka jinglong jong ka mariang ha kane ka jaka ba kam dei ban shah ktah palat ban iaka ba lah ban pdiang namar ka jingpyntreikam ia kane ka projek. Kane ka jingpyntreikam ka don lai tylli ki kyrdan ki bapher bapher-(a) Ka jingpynwandur {design} (b) Ka jingpyntreikam {Construction Phase} (k) Ka jingpyniaid {Operational Phase}. Kane ka plan ka ai jingmut ban wad lad ia boroh ki jingtah kiba lah ban mih naka jingpyntreikam ia kane ka projek. Lah thoh bniah iaki lad ki lynti ban iada naka jingtah haka um, lynti, ki jhur ki jhep, ki ranab, ki lyer, ki jingiada haki surok, ki nala bad ki septik tank jong ki jaka sah ki nongtrei.

Lah rai ban pynlut **Rs 228 lak** naka bynta ban pyntreikam iaka Environmental Monitoring and Management Plan. Kane kan kynthup iaki jingpynlut haka lad jingiada, kiba peit bniah bad kiba ai jinghikai. Ki lad jingiada kiba hap haka jingpynneh iaki ranab, ka jingiada jong ka jingtuid ki sboh (sediment), Ki nala bad kiwei kiwei ym shim lah kynthup ha kane ka jingpynlut (estimate).