

Mizoram PWD.

EXECUTIVE SUMMARY FOR WIDENING TO 2-LANE, RE-ALIGNMENT AND GEOMETRIC IMPROVEMENT OF CHAMPHAI-ZOKHAWTHAR ROAD (00.000KM TO 27.247KM) WITHIN MIZORAM STATE ROADS PROJECT II

E1. Background:

India sorkar chuan Mizoram leh ramthenawm (neighbouring countries): Bangladesh leh Myanmar-te nena inkalpawhna State highway leh Major District Road awmsate changtlung zawk a siam nan World Bank chu sum leh paia tanpui turin a sawm a. Heng kawngpuite: chhim leh hmar (North-South) hawi Km 336 zet a sei, Aizawl leh Tripura kawngpui, NH-44A atanga penguin Thenhlum, Phairuankai, Chawngtete paltlangin chhimlamah Multi-Modal Kaladan kawngpui pawhtur a ruahman a ni. Hemi bakah khawthlanglam hawi Km 112 athui Rangamati kaltlanga Chittagong Lawngchawlhna pawh theitur kawng awmsa '*Lunglei-Lungsen-Tlabung-Kawrpuiichhuah kawngpui*' tih changtlun te, Khawchhaklam hawi Km 28 a thui '*Champhai-Zokhawthar kawng*' leh 42 km a thui '*Chhumkhum-Chawngte kawng*' tih changtlun te pawh a huam tel a ni.

Kawngpui siamthat hna han tih hian tuna kawng awmsa hi Asian standard Highway, Two Lane nithei tura laihzauhte, kawngchuat phahthat leh chakzawk a siamte, lei dawhte, culvert siamte, sidedrain siamte leh lei mintur dalna lungremte ani. Tin kawngpuiin khua a paltlangna ah chuan a tul angin side drain khuhna siamte kawngsira mihring kalna siamte leh motor parkna hmun siamte a huam bawk. Hmun thenkhata kawng chhuk/chhoh/kualdan diktawklo laite siamthata nia nga, khua hel a awm pawhin khaw panna kawng awmsa chu siam that a ni ang

Mizoram PWD hnuai Project Implementation Unit (PIU), Aizawl hi sulsutu atan ruat a ni.

Proposed Project Roads under MSRP-II-Regional Connectivity Project			
Group/Project 1		District (s)	Length
	Lunglei-Tlabung-Kawrpuchhuah	Lunglei	87.9 km, (E-W road to Bangladesh border)
	Champhai-Zokhawthar	Champhai	27.5 km, (E-W road to Myanmar border)
	Chhumkhum-Chawngte	Lunglei	41.7 km, (part of original N-S road alignment)
Group/Project 2		District (s)	Length
	Junction NH44A (Origination)-Chungtlang-Darlung-Buarpui	Mamit & Lunglei	83 km
	Buarpui-Thenhlum-Zawlpui	Lunglei	95 km
	Chawngte including bridge to Bungtlang South upto Multi Modal Road junction	Lawngtlai	76 km
	Zawlpui-Phairuankai	Lunglei	30 km

E.2.The Project Road:

Tuna kawng awm sa *Lunglei-Tlabung* kawng hi ODR Standard in 1970 bawr chho vela BRO in anlo sialtawh a ni. He kawngpuiin a tum ber chu District khawpui leh ramdang (International boarder) in

kalpawhna leh insumdawn tawna leh khawthlang lam tih changtlun nan a tih a ni.

Tuna kawng awmsa hian 4.5km NH-54A(3-Gates, Lunglei) atanga peng in thingtlang khaw hrang hrang Hauruang, Pachang, Phairuang, Rotlang, Lungsen, Sihphir, Tuichawng, Tlabung te tan tlang in India leh Bangladesh in rina 98km ahla Sazukluiah atawp ani. Lunglei-Tlabung kawngpui kawng awmsa hian inhmun loram awmsa a paltlang nasat avang hian , kawngpui awmsa cheithat leh hi a harsa in a tantlang ramte hi hmun tamtakah a awih in leimin hlauhawmna hmun te atam in hun lokal lehzel turah harsatna tamtak athlen rin a ni.

A chungah harsatna tamtak kan han sawite avang hian hmun tamtakah kawngtharhi siallotheihloh a niin 0/00-7/00 inkar hi re-align in km 4/500 a take-off point hi NH-54 A atangin km 3/700 ah take-off point ah sawn a lo ni dawn a ni (i.e. Lunglei khawpawn ah). Tin, kawng siam that rawtna ang chuan heng kawng inkar 52/45 kmp-55.15 kmp leh 70.95 kmp-72.88 kmp ah te hian mihringlo awm tawhnate tichhe lo a, khawsir a hel deuhthe a awm a, chung khua te chu, Lungsen leh Tuichawng te a ni. Tin, heng kawngpuite hi khawbul mai anih avangin khuaa chengtetan hian nghawng leh harsatna thlenlo a an tan hlawkna zawk a nih rin a ni. Tin kawng sialthat hian mihring chenna atihbuailoh avang hian L.A. ah leh mihring chenna tur han buaipui a ngaihloh avangin kawngpui hlui paih a kawngpui thar han sial zeuh zeuh hian sum leh pai tamtak senral a ngaihloh phah dawn a ni. Tin kawngpui sialthar hi alei awmdan leh a ram awmdan enin a rem zawk bawka ni.

E3.Salient Features Based on Design are as below:

Length of Project Road Sector Km 87.352
The road has a ROW of 24 m

The formation width is 12m
The highway is designed for 2-lane carriageway of 7.0 m width
The Highway is designed with flexible pavement
Pave Shoulders of 2.50m is provided both sides
All structures are matching to two lane NH roadway standard
Route Alignment: take off from Km4.5 of NH54 A passes through the villages and terminate at Km 98.0 on river Sazuk Lui Indo Bangladesh Border
Drains: Lined Drain
Landslide: Minor
Junction- 5 Nos. Major Junction-4 Nos & Minor Junction-1 Nos

E4. Expected Benefit from the Project:

1. Kawngthar loawm tur hian inkalpawhna tha mai bakah District Headquarter leh Indo-Bangladesh border trading te leh Mizoram khawthlang lam tan atha dawn a ni.
2. Mipui mimir leh khawthlang nun tan hmasawanna a nih rin a ni.

E.5. Engineering Design & Investigation:

Drainage:

Tuihawk luankawr hi lungmun tihlohah chuan Lungrem (Lined drain) a siam tur.

Side-Drain:

Kawngpui siam turhi atlangpuithu a laihtur anih avangin tuihawk luankawr hi lungrem (lined) a siam vektor a ruahman ani.

Culvert:

Kawngpui laihturhi tlangram anih avangin kawrte leh kurung tamtak a awm avangin hengah te hian Culvert siam tura ruahman a ni.

Slope Protection Works:

Kawngpui sialthar turhi athen laiha, athen dawhzawlte anih dawn avangin kopang leh kawngthlang min mai tur venna a awih dantawk venna tur a hnuai ami ang hian ruahman a ni (Annexure)

- a) R/W-6260m
- b) B/W-1385m
- c) Gabin wall-3010m
- d) Toe wall-1650m

Tin a chung a mi bakah khian lirnghing nasatna hmun Zone-V a awm a nih avangin ruahman na reng reng hi IS 13920 anga kalpui a ni.

Source of Rock and Materials:

Lung hmantur erawh hi chu kawngdung tluan bakah luikawr hmun hrang hrang atanga lakkhawmtur a ni. Tin hmanraw dang, Bitumen, Cement, Balu, POL etc. te hi chu Assam state atangin NH-54 kawngpui hmang a phurhluh tur a ni.

Excavated Spoil:

Kawnglaih avanga leivung awm theitur a chhutchhuah chu a vain 8.4 million cum niin, leitak chu 4.5 million cum, lung no 3.4 million cum leh lungchang 0.3 million cum.

Disposal of Spoil:

A hmaa lo sawitawh ang khan 8.4 million cum vel chu leivung awmtur anga chhut ani a. Chumi awmzia chu 0.1 million cum hi Km 1 zel a awm ang alo ni ang. Hetiang ang zat leivung hi paih a buaithlak tham dawn em avangin contractor hnenah pawh a hranpa a paihdantur siamsak a nih bak ah bio-engineering atan leh thil dang tangkai a hman dan ngaihtuah a ni bawh ang.

Blasting of Rock:

Leilung zirchianna atanga a landan chuan kawng zawhna tur a ruahman hian lungchang hmun tamtakah atan tlang dawn tih hmuh ani a, heng hmun a kawng laihzauh anih dawn chuan lung chu hal darh ngei angai dawn a, heng te pawh hi contract ah ziah lan niin, a haldan pawh awmze feltak nei a, hriselna leh a chhehvel ramtan pawh a hlauhawmlo tur a kaihhruai dan fel tak EMP zawm a hal tur a ni.

MPWD:

- Kawnglah hna thawh nan hian nitin tui 850kl/day ang a chhut a ni. Heta tan hian contractor in luitui hmangin a siam rem tur a ni.
- He hna thawh nan a civil works bikah chuan Rs.640.84 crores a ni a, hei hian leilaih, leidawh, tuihawk luankawr siam etc. a huam vek a ang.

E6: Baseline Environment Scenario:

Hnathawhna tur District a siklehsa chu hnawng lumchurh niin. Nipuiah chuan adai nuamin thlasik erawh vawt lampang a ni. Thlasik ah chuan vurtla awmlon 11°C - 13°C vel ani a, tin ruahtui hi May-September thla thlenga sur nasa in athen ah chuan 2200mm vel tlang a ni.

Thallaiin humidity hi 60-70% vel niin furah chuan 90% vel ang a ni. Thal khawrolai Feb-April bawrchhohi chuan a boruak hnawna hi 60-70% vel a ni.

Thli hi atlangpui thuin 18.2 km/h niin August thla bawr vel hi chuan ni hi darker 15 aia tlem mah a lang thin.

E.6.1:Natural and Biophysical Environment Land Use:

Land Use:

Kawng hian 65% vela thui mimal leh sorkar ram a paltlang a, hengte hi pass hrang hrang te niin periodic patta, VC Pass etc. te nimahsela, man chawi lova neih theih niin thlai anlo chin ve te erawh zangnadawmna pek ve tur an ni. Khaw tereuh te te pakua (9) paltlang in chungte chu Lunglei, Hauruang, Pachang, Phairuang, Rotlang,

Lungsen, Sihphir, Tuichawng leh Tlabung te niin kawng hian ramruak 35% vel a paltlang bawk a ni.

A hnuai table siam ang hian kawng in chenna ram a tantlang dan a ni:

Sl No	From Km	To Km	Village Name
1.00	0.00	2.90	Lunglei
2.00	12.90	25.43	Hauruang
3.00	25.43	35.45	Pachang
4.00	35.45	43.53	Phairuang
5.00	43.53	44.34	Rotlang
6.00	44.34	60.43	Lungsen
7.00	60.43	60.62	Sihphir
8.00	60.62	80.25	Tuichawng
9.00	80.25	94.40	Tlabung

Physiotherapy & Geomorphology:

A ram awmdan hi atlangpui in tlangte hi chhim leh hmar hawi zawng deuh vek an niin ruam thuk tak tak te awmin heng te hi siklehsa in a siam te an ni.

Terrain:

Mizoram hi India chhaklamah pawh a ram hi tlang tam na bawr vel tak a niin luite pawh hi chhim zawng leh hmar zawng a luang a ni deuh vek mai a, kawng pawh hian tlang awih tak tak leh ruam thuk tak tak te a paltlang a ni.

Soil Types:

A tlangpuithu in Lunglei district ah hian a leilung awm dan hi a in chawhpawlh nuaih a, chung te chu a hnuai a mi ang hian thendarh han tum ila.

- a) **Hill Soil:** Heng lei te hi chu lungte thil leh lei tak inpawlh a tih theih mai awm e.
- b) **Valley Soil :** Hetiang ang lei te hi chu lei chunglang, leitha kawr ruam leh luikam a awmte hi a huam ang.
- c) **Terrace Soil:** Heng ang lei te hi chu lungte nawi leh lei inpawlh a tih theih mai awm e.

Geology:

Project in a tantlang ram te hi Barali Group of Rocks an tih ang chi niin a lung te hi lungme, a kara siltstone an tih ang chi niin, a char khawm te a ni a, a rawng te vutbuak atanga a hring lek lek te pawh an ni hlawm a ni.

Groundwater/Hydrology:

Lunglei District leilung hi lungme an tih ang chi hi a ni tlangpui a, tin lei hnuai tui te hi tlangpanga awm an nih avangin tuitai ang deuh in a rawn put tlangpui a ni. Tin heng tui te hi ei leh in tur a thianghlim tawk a ngaih a ni.

Leichhung a tui awm (i.e. Groundwater) hi 5.53mcm vela chhut niin, hun lo kal lehzet tur a thlai chin nan a hman theih hi 4.97mcm vel a ni. Hmalam a lo la awm tur hi 1.32% vel niin industry leh ei in atan hian 0.1 mcm a ni. Tuna kan sawi tak leichhung tui te hi ei leh in atan a ni ber a, tin industry te a awm lem loh avangin thlai chin nan pawh a then azar chu hman theih tur a ngaih a ni.

Air Quality:

Mizoram hi industry lamah te a la hniam em avang hian a boruak hi a la thiang tha in mihring leh nungcha te tan pawh la thianghlim tawk a ngaih a ni.

Noise Environment:

Thil ri kan tih ang chi eg. Motor ri, khawl ri etc. te hi zing leh tlaiah ‘Noise Level Meter’ an tih khawl a teh niin , a rin leh rin loh lai ber i.e. Maximum and Minimum hi teh a ni a, chhun lamah a tlangpui in 58.0 db (A) leq a ni a, zan lam ah 42.0db (A) leq a ni.

Groundwater Quality:

A hma a lo sawi tawh ang khan leihnuai tui te hi la in test chi hrang hrang te tih a ni a, chung atanga hmuhchhuah ah chuan tui te chu ei leh in ah mai bakah industry atana hman ah pawh a thinglim tawk ani.

Surface Water:

Project kawnglah tur hian tlangawih tak tak leh ruam thuk tak tak a tlang a, chungah chuan ruahtui leh kumtluan a luang luitui te pawh a tam mai a, chung tui te chu fur tui leh hnawl tam tak te pawh in a pawlh chang a tam thin a ni.

Project kawng ina a pawh lui leh tuihawk luanna te chu a hnuai a mi ang Table in siam a ni.

Sl No	Location in Km	Name of River
1	27.00	Nullah
2	33.510	Phairuang river
3	33.130	Nullah
4	67.015	Tuichang River
5	70.212	Nullah

Forest Resources and Ecological Sensitive Locations:

Tuna Project Kawng hian heng te hi a tan tlang loh ram te an ni a, chungte chu- wild life sanctuary, biosphere reserve, national park etc. mahse lohtheihlohna avangin rivirine forest area erawh a paltlang a ni.

Kawng awmsa tihchangtlunna atan erawh heng a hnuai mi te hi a paltlang a ni.

Mineral Resources:

Ram tana han chhenfakawm tur leilung hausakna erawh hmuh a ni lo. Amaherawhchu a leilung han zir chian chuan heng chinai lung, lungalhthei, tui al etc te erawh hi chu tam tham lo tak hmuh a ni.

Seismic Characteristics:

Mizoram hi Parbachel Himalayan Range chhim lamah awm in leithuahthip synclitorium a ni. Lirngching hi a tlangpuiin a pawntlang a, amaherawhchu lirngching awmduhna ram Map 2000 kum a Bureau of Indian Standard (BIS) in a siam ah tel in Mizoram pumpui hi Zone-V i.e. lirngching risk sanna hmunah a awm.

Biodiversity:

Project area hnuai hian rannung/ramsa han chhinchhiah bik tlak awm hriat a ni lo a, a rama awmte chu laiking, utawk, choak etc te an ni.

E.6.2:Socio Economic Characteristics Of The Project Influence Area:

Lunglei District hi Mizoram a District lian ber niin , hmar lamah Mamit District leh Serchhip District a ri a, chhim lamah Lawngtlai leh Saiha District ri in khawchhak lamah Myanmar ri in khawthlang lamah Bangladesh a ri a ni. A ram zau zawng hi 4538 sq kms niin, mihring 154,094 (2011 census) an cheng a, thingtlang khua 186 a awm. Tin Civil Sub-Division pathum (3) a awm a, chungte chu:

- 1) Lunglei Sadar Sub-Division.
- 2) Tlabung Sub-Division

- 3) Hnahthial Sub-Division.
- 4) Lunglei District hi RD Block pali (4) a then a ni bawk viz. Lunglei, Hnahthial, Lungsen leh Bungmun.

Cultural and Heritage:

District chhungah hian kut ilo ni hian nunphung duhawm tak tak hmuh tur a awm in, nunze mawitak hmuh tur a awm.

Project area ah hian engmah thil hlui emaw chhinchhiah tlak a awm lo.

E.7: Findings of The FGD's Conducted:

Sorkar Department hrang hrang te leh mipui vantlang te nen pawh meeting te neih ho a niin, he kawng laih tur hian mipui mimir in an lo dawnsawn dan leh an lo beisei ang te pawh zirho a ni a, amaherawhchu a bul hnaia chengte hian he Project hi an lo uksak vak lo hle mai a, mahse thil han hrilhfhiah hnuah erawh chuan an structure lo awm sa te pawh zangnadawmna pek chuan sawn te pawh an hreh lem lo. Mipui mimir khawsak chu an rethei in hnathawh lamah pawh nitin inhlawhfa anni deuh ber.

FGD hi Project ina a kaltlang khua ah te neih vek a niin, chung a thil hmuh te chu:

- a) Kawng awmsa ah hian an lungawi lo.
- b) Kawng chhiat avangin bungrua lakkhawm a harsa.
- c) Project kalhmang an hriat in mipui te pawh an lawm in thawhho pawh an remti.
- d) Engemaw laksawn ah zangnadawmna an beisei.
- e) Hmeichhia te dinhmun a tha.
- f) Project lo awm tur avang hian hun lo kal zel turah hmasawmna lo awm tur an hmu thiam.
- g) Ramsa/nungcha humhalh bik ngai an awm lo.

E.8: Key Impacts and Their Mitigation:

MSRP buatsaih lai hian hmanlai Mizoram siklehsa te hre reng a buatsaih a ni.

Stability of Slopes:

Kawng siamthat hnathawh dawn hian hmun tamtak ah lei laih te a ngaih dawn avangin a awihdan turhi ngaihtuah nghal angai a, hei hi kawng atan mai nilo in kawngthlang lama mihring chengte leh thing leh mau , lirthei kalvel tan pawh a pawimawh em em a ni.

A ram hmunhma han zirchian nan hian kawng han tih changtlun nan hian lei laih hi tha zawk a ngaih a ni a, mahse hmun thenkhat leimin duhna bikah te hi chuan lei laih leh kawng hal hi pumpelh hram hram tum a ni. Hmun tam takah chuan hmanlai a an lo hman thin hi leimin ven nan a hman a ni.

Disposal of Construction Debris:

Tuna kawng tihchangtlunnaah hian a tlangpui thuin leilaihhi a tam ber a ni a, heing leivung te hi hmun ruatbikah chauh paih tura ruahman a ni.

Loss of Biodiversity:

Mizoram han tih a sawihmaih theih miah loh tur chu thing leh mau a a hausakna hi ani. Heng zingah hian damdawi a hman chi tam tak te a tel in hen gang te hi kawng siamtur sir maiah te a awm avangin humhalh te hi an ngai em em a, chuvangin heng angte pawh hi Project chhungah hian khung luh vek a ni.

Water for Construction-Storage and Harvesting:

Mizoram hi tlangram anih avangin tui hi fur lai tih loh ah pheih chuan a harsa em em mai a, heivang hian ami chengte pawh hian tui dahkhawlina te ansiam thin a, heng hmun hnaiah te hi chuan hna hi thawh tur ani lo a ni.

Tui mamawh tur hi contractor te ngaihtuah tur nimahsela, hmun sawm (10) laiah tuizem hmun tur hi ruat a ni. Heng hmunah te hian hna tan hma in Tuizem te hi siam vek tur a ni a, heng te hian a bul vela chengte a tih buai loh mai bak ah, hmun hla deuh deuh atanga tui

chawi te a pumpelh anga, tin fur laia tui dahkhawlnan te leh kawng siam hna a lo zawh hunah pawh a bul hnai a chengte tan chhenfakawm tak a lo ni dawn a ni.

Induced Development:

A hma a lo sawi tawh ang khan Project hian hmasawna tam tak a kentel bakah Mizoram tan phei chuan nasa leh zual a chhawrtheih a ni dawn a, hengte hi Village Councils ho te nen pawh a sawi ho a ni tawh a ni.

Resettlement Issues:

Land Requirements for the Project

Project hian ram tam tak, kawng tihzauh nan te, tih changtlun nante, labour camp etc. a tan a mamawh dawn a, heng ang titur chuan a hnuaia mi angte hi neih an ngai dawn a ni:

- Mimal in leh lo ram VC Pass huam tel in.
- Thlai china hmun, sorkarin a hriatpui leh hriatpui loh telin.
- Khawtlang hmunte.
- Ram sorkar ta/talo pawh.
- Ram ruak.

Impact on Cultural Properties:

Project hna hian hmanlai thihlui emaw hmun han humhalh bike maw tihchhiat tur anei lova amaherawhchu thlanmual te, biakin te pawh kawng hian suttlang ngai alo awm thei a, hengte ah hian hmunhma hi neih vek a ngai a ni.

Other Social Issues:

Project in a ken tel pakhat, Resettlement leh Indigeneous People Development Plan (R&IPDP)

angte leh nitin mipui nun han ti khaihlak thei ang chi te bakah vantlang hriselna atan a thawk ho a bikin HIV/AIDS ang te hi hrilhhriat an ni.

Traffic Safety and Management During Construction:

Kawng siam a nih lai a kawng hmang tute an lo him zawk theih nan hian hnathawh hun chhung leh hmun te hi fel tak a siam a, a helna turte fel tak a duan chhuah vek nghal a ni.

E.9.Environmental Management and Measures Proposal:

A hnuaia mi ang hian Management measures hi then hran thliah a ni:-

Pre-Construction Stage:

Hna tan tak tak hma hian ROW, thingphun, tui pump etc. te hi tihfel hmasak vek tur a ni. Hengte hi hnathawh chhung zawng a a bul hnai a chengten a an lo hman tura ruahman fel vek tur a ni.

Construction Stage:

He hun hi a khirh lai ber hun pawh a ni ang. Hemi hun chhung hian nundan phung ti khaihlak lo leh hmun leh hma te pawh a chhe lo thei ang ber a enkawl tur a ni. Hen gang thil kengkawh tur hian hnathawh dan tur drawing pawh fel tak a siam a ni.

Tin heng bak ah hian engemaw vanduaina lo thleng mai thei ang chi te hi inrinlawk a tul em em mai a, heng ang vanduaina lothleng te hian thing leh mau, thlaichin etc te lo tichhia in harsatna tamtak a thlen thin a ni.

Operation Stage:

Hemi hunah hi chuan thil hlui humhalh/protection works etc te hi ahim tawk leh tawk loh te thlengin a keng tel a ni.

Monitoring program kan tih hian a tumber chu mipui mimir in an chhawr tangkai em, EMP hi kalpui a ni em tih te thleng hian endik vek tur a ni.

Objections:

- EMP hi a tha tawk em.
- Sik leh sa a nghawng dan.
- Management Plan thurawn pek.
- Environment quality.
- Mipui leh dan in a pawm tawk.

Performance Indicator:

Hei hian a tum ber chu hmun thenkhat a Environment a nghawng dan endik a ni ber mai-

- Air Quality
- Water Quality.
- Noise Level
- Plantation
- Lei that leh that loh
- Hriselna dinhmun
- Accident thlen dan.

Selection of Indicators for Monitoring:

Heta tan hian khawl hrang hrang hman thin a ni a.

- Air Quality
- Noise quality
- Water quality
- Flora
- Soil contamination.

EE.II. Institutional Arrangements in PWD for Implementation of MSRP-2:

MSRP-II hi state PWD hnuaiah hmalak ni in a hlawhtlinna chu Engineer-in-Chief mawhphurhna a dah a ni. He project hi tuang taka kaltlangpui anih theih nan PWD chuan Project Co-ordinating Consultants (PCC) pahnih a ruat bawk a ni. Project hi tuangtak leh ahun taka kalpui anih theih nan Project Director pakhat (1) leh Executive Engineer pahnih (2) bak ah SLAO (MCS post) mipui vantlang dawrtu tur a ruat bawk. Heng Executive Engineer's leh SLAO te hi Assistant Engineer ten an hna ah an pui nghal bawk a ni.

Project Implementation Unit (PIU) a Environmental Engineer leh Procurement Engineer te hian Project pumpui a hmalakna /hnathawhna ah te hian a tawp thleng a mawhphurhna pek an ni.

MSRP-2 tih changtlunna torah hian PWD chu Supervision Consultant (SC) in International Competitive Bidding hmangin an pui ang. Supervision Consultant hian Engineer angin hna a thawk ang a, a hnathawh chu a chhehvel ram tenen a inbuktawh thlap tur ani. PWD te hian Mizoram Pollution Control Board (MPCB) hotute nen an thawk ho bawh ang. R&R thilah chuan local NGO te anpun bawh ang.

E.12. Environmental Budget:

Environmental management buaipui nan sum dah lai lawk chu Rs.45,500,000 (INR) a hnuai Table a mi ang hian:

Environmental Budget – MSRP-2 (in INR)

Budget Head	
Mitigation/Enhancement	40,000,000
Monitoring	3,500,000
Training of MPWD	2,000,000
Total	45,500,000

STUP Consultants Pvt. Ltd