



Environmental Due Diligence Report

Project Number: 37143-033
February 2021
(Addendum)

India: North Eastern States Roads Investment Program (Project 2)

Prepared by : Project Implementation Unit, Public Works Department, Mizoram

This environmental due diligence report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. This report is an addendum to the initial environment examination report posted in February 2013 available on <https://www.adb.org/projects/documents/mff-ne-states-roads-investment-program-t2-serchip-buarpui-mz02-iee>

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Asian Development Bank



GOVERNMENT OF MIZORAM

OFFICE OF THE PROJECT DIRECTOR, ADB, PIU, PWD, MIZORAM, AIZAWL

No.NESRIP-02/ADB/PIU-49/2020/14

Dated Aizawl the 17th February, 2021

To,

Mr. Takeo Konishi,
Country Director,
Indian Resident Mission (INRM), ADB
4 San Martin Marg, Chanakyapuri,
New Delhi – 110021, India
Tel: +91 11 2410 7200

REcd. 18.2.21
SFG Log: 4512

Pooja Awasthi

Subject: Field Based Environment Due Diligence Report (Addendum to IEE) for Improvement & Upgradation of Serchhip to Buarpui(MZ-02) Road, Mizoram

Dear Sir,

I have the honour to submit herewith Field Based Environment Due Diligence Report (Addendum to IEE) for ADB assisted Serchhip – Buarpui road, Mizoram for favour of your kind perusal and record.

Yours faithfully,

(H. ZORAMLIANA)

Project Director, ADB,
Project Implementation Unit, PWD
Aizawl, Mizoram

Memo No. NESRIP-02/ADB/PIU-49/2020/14 'A'

Dated Aizawl the 17th February, 2021

Copy to:

1. Mr. Jagir Kumar, Senior Project Officer (Transport), INRM for information
2. Mr. Anil K. Motwani, Team Leader (Transport), INRM for information.
3. Mr. Arun Mahajan, Staff Consultant (Project Management and Contract Specialist)- Transport, INRM for information.
4. The Director, MDoNER, GoI, Vigyan Bhawan Annexe, Maulana Azad Road, New Delhi – 110011 for information.

Project Director, ADB,
Project Implementation Unit, PWD
Aizawl, Mizoram

Field Based Environment Due Diligence Report

Addendum to IEE

Project number: 37143-033

Loan : 3073 - IND

February 2021

IND : North Eastern States Roads Investment Program (Project 2)

Subproject: Improvement and Upgradation of Serchhip – Buarpui Road (MZ02) Project Road in the state of Mizoram

Prepared by the Public Works Department, Government of Mizoram, for the Asian Development Bank.

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CURRENCY EQUIVALENTS

(as of 31st January 2021)

Currency unit – Indian rupee (₹)

₹ 1.00 = \$ 0.0137

\$1.00 = ₹ 72.9066

ABBREVIATIONS

ADB - Asian Development Bank
DoE - Department of Environment
EA - Executing Agency
EDDR- Environment Due Diligence Report
EDDS- Environment Due Diligence Study
EIA - Environmental Impact Assessment
EMP - Environmental Management Plan
EMoP - Environmental Monitoring Plan
ESO - Environmental and Safety Officer
GoI - Government of India
IEE - Initial Environmental Examination
IRC - Indian Road Congress
IS - Indian Standard
MDONER - Ministry of Development of North Eastern Region
MDRs - Major District Roads
MFF - Multi Tranche Financial Facility
MoEF&CC - Ministry of Environment, Forests & Climate Change
MoRT&H - Ministry of Road Transport and Highways
MPWD - Mizoram Public Works Department
MSL - Mean Sea Level
NEC - North Eastern Council
NER - North Eastern Region
NESRIP - North Eastern State Road Improvement Program
NGO - Non Government Organization
NH - National Highway
PIU - Project Implementation Unit
PRF - Proposed Reserve Forest
PWD - Public Works Department
ROW - Right of Way
SARDP-NE - Special Accelerated Road Development Program in the North Eastern Region
SC - Supervision Consultant
SH - State Highway
SPCB - State Pollution Control Board
SPCB - State Pollution Control Board
TA - Technical Assistance
VCs - Village Councils

NOTES

- (i) In this report, "\$" refers to US dollars.
- (ii) "INR" and "₹" refer to Indian rupees

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EXECUTIVE SUMMARY

1. The project road MZ 02: Serchhip-Buarpui is a part of North Eastern State Road Improvement Program (NESRIP) –Tranche 2, being implemented with funding support from Asian Development Bank (ADB). Ministry of Development of North Eastern Region (MDONER) is the executing agency at centre and implemented by State Public Works Department (PWD), in this case the Mizoram PWD. The improvements do not result into significant adverse environmental impacts. Most of the impacts are site-specific and were addressed through proven mitigation measures and as per EMP. The road section was classified as **Category B** and an initial environmental examination (IEE) has been conducted as per SPS, 2009.

2. The road improvement covers 55 kilometres of the existing major district road which is segregated in two parts separated by Aizawl - Lunglei State Highway. Part I (Serchhip - Sialsuk junction) starts at its junction with NH 54, about 4 km south of Serchhip town and terminates at its junction with Aizawl-Lunglei State Highway (SH) near Sitvan- Hanging Garden, Sialsuk covering a length of 15.2 km. Part II (Thenzawl – Buarpui) starts at its junction with Aizawl-Lunglei SH near Thenzawl and ends at Buarpui totalling 39.8 km. Project road improvement involves: (i) widening to intermediate lane with earthen shoulder in valley side and paved on hill side; (ii) curve improvement; (iii) rehabilitation and construction of cross drainage structures and side drains (iv) junctions/intersections improvement (vi) incorporating road safety measures, and (viii) providing protection works to stabilize slopes to control slides and erosion.

3. Project road is not located in any environmentally sensitive areas. However, it passes through riverine reserve forest areas requiring diversion of almost 1 hectare (ha) of forest land for which required clearances were obtained from Forest Department. A total of 1,706 trees were affected and compensatory afforestation amount was deposited to the Department for suitable plantation. Land acquisition was required almost throughout the entire alignment for widening and improvement works. In addition to this, land acquisition was also required at retaining/breast walls locations, and overburden disposal sites.

4. The significant environmental impacts attributable to the upgrading of the road pertains to tree cutting, temporary deterioration of ambient during construction phase from land clearing, silt run off, hill cutting, camp operations and blasting. Blasting was not required near habitations. These impacts are easily mitigated by adopting good construction practices and effective implementation of the environmental management plan (EMP). No long-term adverse impact so far anticipated. Since the project road is located in landslide prone areas, adequate engineering and bio-engineering measures are proposed to stabilize slopes and executed during the implementation. This due diligence was required on account of shifting of original envisaged alignment further towards hills side. The original envisaged earth cutting of 3,00,000 cu.m. during detailed design stage (and a part of contract document) has been changed to 14,00,000 cu.m. But after field verification and examination of documents it was found that as per DPR 3,24,249 cum earth cutting was envisaged and as per drawing or requirement it was 1505967.48 cum. This extra need to be assessed with respect to the associated environmental implications, impacts caused efficacy and adequacy of mitigation measures taken, disposal of surplus earth and the corrective actions taken as part of migratory and compensatory measures.

5. Several consultations were organized during the project preparation to engage major stakeholder representatives to incorporate their concerns in the overall design. These involved officials of executing agencies, Forest Department, State Pollution Control Board, Fishery,

affected persons and village heads in the project area. Most of the people interviewed strongly support the project. During the project implementation also consultations were carried out particularly for the selection of the dumping yards.

6. The Mizoram PWD (MPWD), through its Project Implementation Unit (PIU), ensured the effective implementation of the environmental management plan. The PIU organized its environmental unit with support from CSC team to ensure that contractors maintain environmental safeguard compliance. Regular monitoring information and technical advice to the PIU were provided by the supervision consultant and the contractor's environment and social officer.

7. This field based Environmental Due Diligence Report is an addendum to IEE report which ascertains presence of any residual environmental impacts due to change of the central line towards hill side and management of extra earth generated from the hill cutting which did not cause any significant environmental impacts. Few impacts were identified which was attributable to the proposed work, all of which were localized and temporary in nature and easily mitigated with minor to negligible residual impacts. There is no additional impact on the trees, water bodies, Forests, eco-sensitive areas and agricultural lands for the sifting of central line. No grievance received related to environmental safeguards due to execution of the works on the designated dumping sites. No additional studies or need of undertaking detailed EIA is envisaged.

I. INTRODUCTION

A. Project Background

1. Road is the dominant mode of transport in the North-Eastern part of the country. Road conditions in the region are very poor both in terms of coverage and riding quality. Approximately 70% roads in the region are in poor condition and hardly 20% in serviceable condition causing high transport cost and excessive travel time. This is also a main factor constraining the socio-economic development of the region and impeding country's goal of regionally balanced growth.

2. Recognizing the importance of road in providing momentum for accelerating economic development in the region, Government of India (GOI), through the Ministry of Development for North Eastern Region (MDONER) started a national investment program - Special Accelerated Road Development Program in the North Eastern Region (SARDP-NE). This aims to improve national highways and state roads in the region, providing connectivity to the state capitals and district headquarters. In this series, GOI approached Asian Development Bank (ADB) for its assistance to develop secondary road network by improving intrastate connectivity, of administrative and economic importance under North Eastern State Roads Investment Program (NESRIP).

B. Purpose and Objectives of the Field based Due Diligence Study

3. The field based environmental due diligence study (EDDS) was required on account of shifting of original envisaged alignment further towards hills side. The original envisaged earth cutting of 3,00,000 cu.m. during detailed design stage (and a part of contract document) has been changed to 14,00,000 cu.m. But after field verification and examination of documents it was found that as per DPR 3,24,249 cum earth cutting was envisaged and as per drawing or requirement it was 1505967.48 cum. This EDDS was conducted from October 2019 to September 2020 for the sub project **Serchhip – Buarpui MZ 02** in the state of Mizoram under ADB. The environmental category continues to **Category 'B'** as per SPS 2009.

4. The ADB cleared IEE report February, 2013 covered the general environmental profile of the study area and includes an overview of the potential environmental impacts and their magnitude on physical, ecological, economic, and social and cultural resources within the project's influence area during design, construction, and operation stages. An EMP was prepared that contains mitigation measures for significant environmental impacts during implementation of the project, environmental monitoring program, and the responsible entities for mitigation and monitoring. IEE was conducted with four basic objectives; (i) identify the environmental issues that should be taken into account due to project interventions (ii) determine the magnitude of potential environmental concerns and to ensure that environmental considerations are given adequate weight at planning/design stage (iii) identify need for further environmental studies or Environmental Impact Assessment (EIA) and, (iv) suggest enhancement measures, if any.

5. This field based EDDS was required on account of shifting of original envisaged alignment further towards hills side. The original envisaged earth cutting of 3,24,249 cu.m. during detailed design stage (and a part of contract document) has been changed to 1505967.48 cu.m. This needs to be assessed with respect to the associated environmental implications, impacts caused, efficacy and adequacy of mitigation measures undertaken, disposal of surplus earth and the corrective actions taken for migratory and compensatory measures.

C. Extent of the Field based Environmental Due Diligence Study

6. This EDDS report has been prepared on the basis of detailed engineering design, field investigations and stakeholder consultations to meet the requirements for environmental assessment process and documentation as per ADB's Safeguard Policy Statement (SPS, 2009). The extent of the study was decided considering all likely impacts and risks analyzed in the context of the project's area of influence encompassing: (i) the primary project site(s) and related facilities like site clearance, (ii) associated facilities project viz. disposal of excess earth debris (iii) areas and communities potentially affected by cumulative impacts, and (iv) potential impact from unplanned but predictable developments caused by the project that occurred or will occur at later stage or at a different location.

7. The corridor of impact was taken as 15 m on the either side of the alignment and allied activities (i.e. dumping locations, retaining wall, culverts, etc).

D. Field Based Environment Due Diligence Methodology

8. A reconnaissance site visit and discussion with the project staff to reconfirm the technical details of the project road improvement work related to the shifting of central line alignment towards hill side. This helped identify environmental attributes which may get altered due to the project and incorporate additional information to the baseline environmental scenario/environmental setting of the project to meet the ADB Safeguard requirements. The steps followed for EDDS has been described in following paragraphs.

1. Primary Data Collection

9. Inventory of all environmental features viz. terrain, geologically unstable areas, waterways/ water bodies, road side vegetation, sensitive receptors, common property resources, utilities, flooding/water logging, and industries was conducted along the project road within the area of interest/core zone. Since some portion of the project road is passing through the reserved forest areas there was no change in the alignment in those sections. The data collection from the field was completed with the help of trained enumerators / investigators.

2. Secondary Data Collection

10. ADB cleared IEE, February 2013 report has been referred.

3. Public Consultation

11. Besides consultations with the government agencies, consultations with local people/ beneficiary population were held at all major habitations to collect baseline information to better understand of potential impacts and appreciate the perspectives/concerns of the stakeholders. Information gathered was integrated in project design.

4. Assessment of Potential Impacts

12. Potential significant impacts were identified on the basis of: analytical review of baseline data in ADB cleared IEE; review of environmental conditions at site; analytical review of the underlying socio-economic conditions with the project influence area.

5. Environment Management Plan

13. ADB- cleared EMP was reviewed in the context of the additional disposal of earth to ensure that the necessary measures taken to avoid or minimize the impacts. The monitoring plan proposed in the EMP of IEE with details of the resources budgeted and the implementation arrangements were kept similar / same.

E. Structure of the EDDS report

14. The Structure of the EDDS report

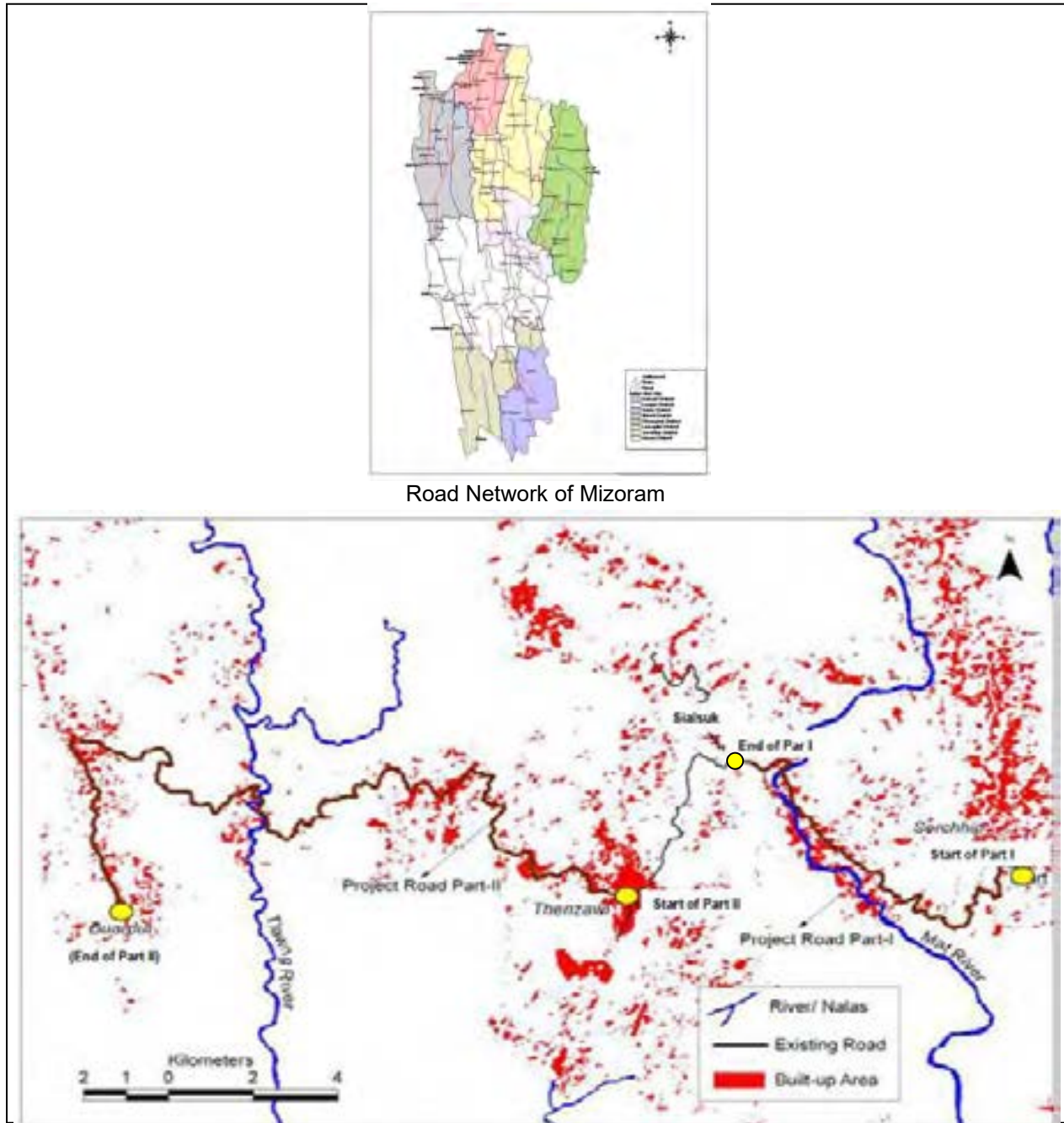
- I. Introduction
- II. Field Based Environment Due Diligence
- III. Mitigation of Environmental Concerns
- IV. Findings and Conclusions

II. Field Based Environment DUE DILIGENCE

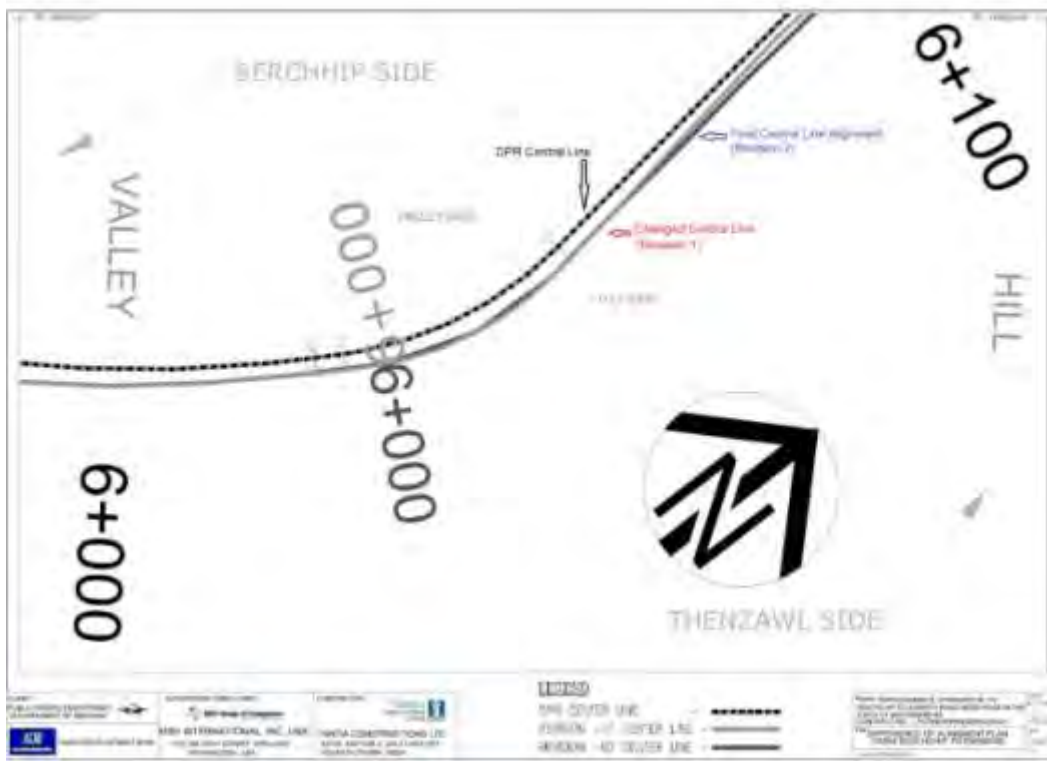
A. Original and Changed alignment

15. Alignment as per DPR are shown in the Map 1. Revised alignment for Part I shown in Map 2 as a sample and for entire alignment (Ch: 0+000 to 15+080) in Annexure A. Similarly revised alignment for Part II shown in Map 3 as a sample and for entire alignment (Ch : 0+000 to 39+427) in Annexure B.

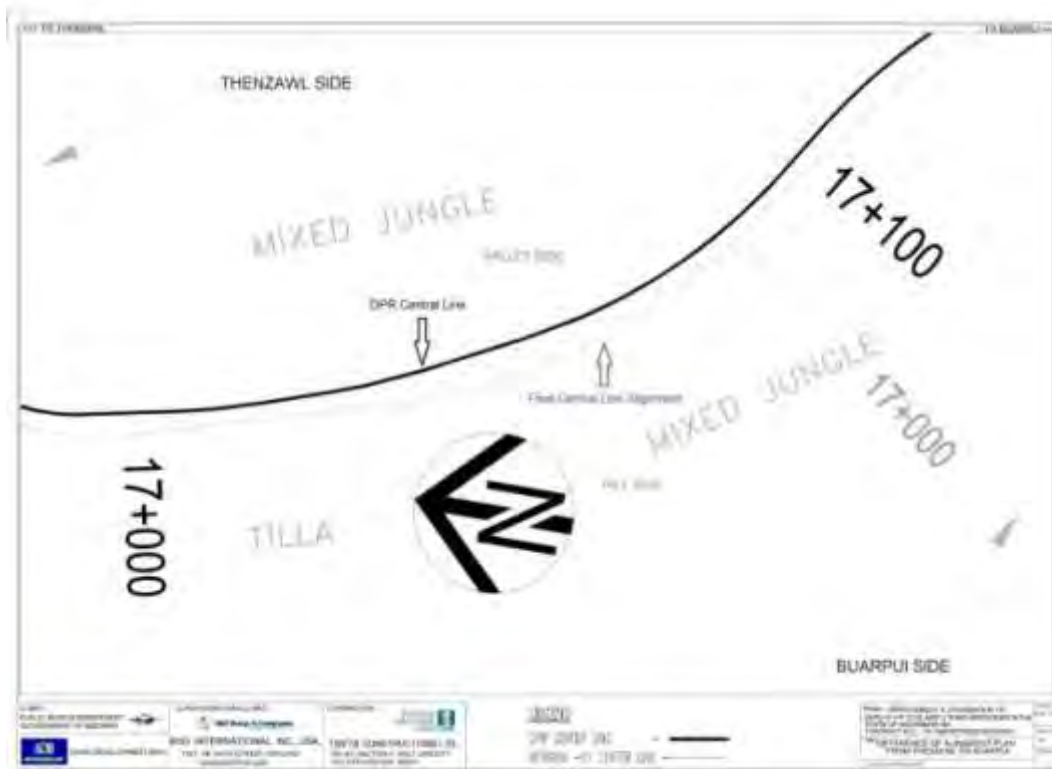
Map 1: Alignment as per DPR



Map 2 : As per revised alignment – Part I (Sample section Ch: 6+000 to 6+100)



Map 3 : As per revised alignment – Part II (Sample section Ch: 17+000 to 17+100)



B. Change in the Quantity of Hill cutting and dumping

16. Increase in the quantity of Hill cutting and management of dumping site due to change of central line alignment towards hill side are shown in the Table 1.

Table 1: Change in the quantity of Hill cutting and dumping due to changed design

BOQ item	Chainage	Quantity of Hill cutting (cum)		Exceed quantity (cum)	Percentage of change	Reason
		As per DPR	As per requirement			
Roadway excavation necessary for construction of roadway complete with all lead and lift as per Technical Specification Clause 301 including additional average lead for disposal 10km. In all types of excavations such as soil, Ordinary rock, hard rock (Requiring blasting), hard rock (Requiring controlled blasting), hard rock (Blasting prohibited)	Part I Ch: 0+000 to 15+080 & Part II Ch 0+000 to 39+427	324249	1505967.48	1181718.48	Increase in 364.45 %	Design and center line change

C. Justification of the change

17. Justification for change in the alignment and monitoring on the compliance of safeguards requirements :

a. While setting out the central line taking reference from GPS pillars fixed at 5km but it seems that in same locations the proposed central line was found to coincide with existing central line of the road but in some locations particularly in the curvatures the central line was found to shift either on hill side or on valley side up to the extent of 1m.

(Ref : Letter No. TCL/AZL/ADB/MEC/2015-16/4785 dated 23.10.2015 -Contractor to CSC.)

b. Central line was not matching therefore the line was redesigned.

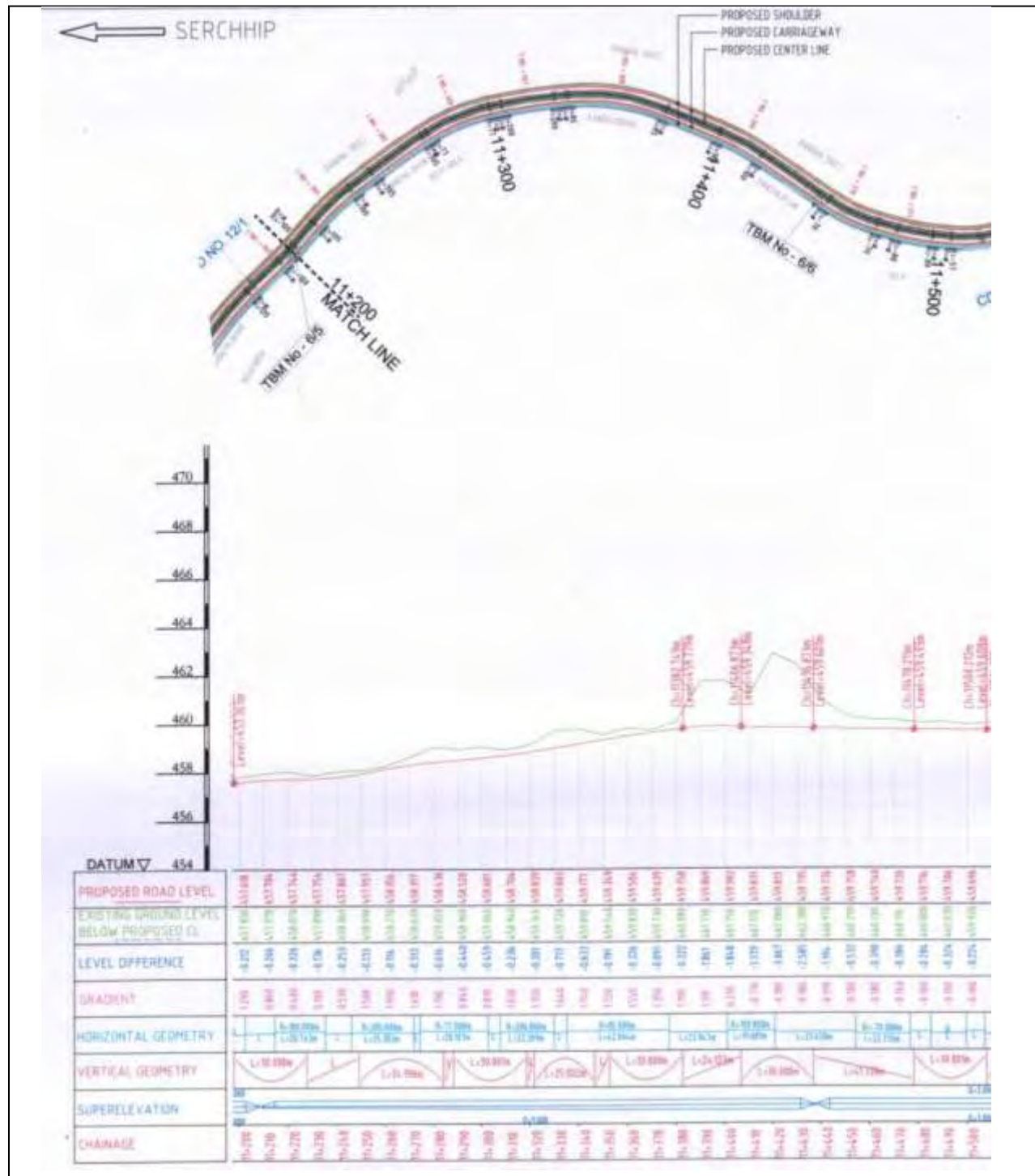
(Ref : Letter No. ADB-PWD/ 2014-15/4507 dated 11.04.2015 - Contractor to CSC.)

c. Instructions were given from Project Director's Office regarding checking and approval of dumping sites considering minimal adverse effect on the environment and construction of Gabion wall to be proposed if necessary for all the dumping sites.

(Ref : Letter No. NESRIP-02/ADB/PIU-45/2014/88 dated 9th September, 2015 -Project Director to CSC.)

18. Sample calculation of earth cutting shown in map 4.





Map 4: Sample calculation of earth cutting in Part I (11+200 to 11+500)








D. Dumping sites

19. A total of 145 dumping sites were taken to accommodate formation cutting of the road improvement work. ADB cleared IEE procedures were followed for selection and execution of the dumping sites. Necessary NOC were taken from PWD and Village Council or land owner (Table 2). In Part I, there are 19 dumping sites and rest are in Part II.





Table 2: List of Dumping Sites






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
PART-I (Section-I)							
1	0+935	0+945	10	VCP	Annexure -1	R. REMMAWIA	
2	7+680	7+700	20	VCP	Annexure -2	VANLALRUA TA	
3	9+210	9+250	40	VCP	Annexure -3	NGHAKMAW IA	
4	9+280	9+440	160	VCP	Annexure -4	NGHAKMAW IA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
5	10+080	10+100	20	VCP	Annexure -5	C. LALMUANKI MA	
6	11+330	11+530	200	VCP	Annexure -6	R.SANGLIAN A	
7	11+080	11+200	120	VCP	Annexure -7	R. LALTANPUI A	
8	12+700	12+900	200	VCP	Annexure -8	VANLALHRI ATA	
9	4+400	4+435	35	PWD	Annexure -9	LIANSIMA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
10	1+600	1+700	100	PWD	Annexure -9	K.H ROHLUA	
11	1+720	1+750	30	PWD	Annexure -9	R.L CHHUNKUN GA	
12	3+489	3+559	70	PWD	Annexure -9	THENZWAL A	
13	12+360	12+480	120	PWD	Annexure -9	C.LALHMAN GAIZUALA	
14	2+170	2+200	30	PWD	Annexure -9	K.H ROHLUA	
15	7+700	7+800	100	PWD	Annexure -9	R.LALCHUAI LOVA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
16	7+860	7+920	60	PWD	Annexure -9	VANLALHRI ATA	
17	12+850	12+900	50	PWD	Annexure -9	K.H ROHLUA	
18	5+300	5+418	118	PWD	Annexure -9	HMINGTHAN ZAUVA	
19	8+200	8+286	86	PWD	Annexure -9	H.L.MUANT HANGA	
<u>PART-II (Section-II)</u>							
20	2+300	2+426	126	PWD	Annexure -9	RONGHINGI	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
21	3+000	3+145	145	PWD	Annexure -9	Z.D. LALTHARA	
22	5+360	5+420	60	VCP	Annexure -10	VANLALZAW NA	
23	5+600	5+700	100	VCP	Annexure -10	VANLALZAW NA	
24	6+040	6+060	20	VCP	Annexure -10	VANLALZAW NA	
25	6+330	6+350	20	VCP	Annexure -10	VANLALZAW NA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
26	6+730	6+750	20	VCP	Annexure -10	VANLALZAW NA	
27	6+840	6+860	20	VCP	Annexure -10	VANLALZAW NA	
28	6+170	6+230	60	VCP	Annexure -10	VANLALZAW NA	
29	7+630	7+700	70	VCP	Annexure -11	VANLALRUA TA	
30	7+420	7+440	20	VCP	Annexure -10	VANLALZAW NA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
31	7+720	7+760	40	VCP	Annexure -10	VANLALZAW NA	
32	7+930	7+950	20	VCP	Annexure -10	VANLALZAW NA	
33	8+420	8+570	150	VCP	Annexure -12	VANLALZAW NA	
34	8+120	8+140	20	VCP	Annexure -10	VANLALZAW NA	
35	8+680	8+690	10	VCP	Annexure -10	VANLALZAW NA	
36	9+280	9+440	160	VCP	Annexure -13	PU NGHAKMAW IA	




No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
37	9+210	9+250	40	VCP	Annexure -14	PU NGHAKMAW IA	
38	9+070	9+080	10	VCP	Annexure -13	PU NGHAKMAW IA	
39	10+080	10+100	20	VCP	Annexure -15	C.LALMIAMK IMA	
40	10+000	10+080	80	VCP	Annexure -12	VANLALZAW NA	
41	10+280	10+350	70	VCP	Annexure -12	VANLALZAW NA	



No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
42	10+760	10+840	80	VCP	Annexure -12	VANLALZAW NA	
43	11+330	11+530	200	VCP	Annexure -16	R.SANGLIAN A	
44	11+170	11+200	30	VCP	Annexure -12	VANLALZAW NA	
45	11+530	11+540	10	VCP	Annexure -12	VANLALZAW NA	
46	11+720	11+770	50	VCP	Annexure -12	VANLALZAW NA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
47	11+920	11+970	50	VCP	Annexure -12	VANLALZAW NA	
48	12+160	12+180	20	VCP	Annexure -12	VANLALZAW NA	
49	12+210	12+240	30	VCP	Annexure -12	VANLALZAW NA	
50	12+310	12+400	90	VCP	Annexure -12	VANLALZAW NA	
51	12+500	12+612	112	PWD	Annexure -9	LALHGHAKI	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
52	12+670	12+700	30	VCP	Annexure -12	VANLALZAW NA	
53	12+990	13+060	70	VCP	Annexure -17	VANLALZAW NA	
54	13+320	13+340	20	VCP	Annexure -17	VANLALZAW NA	
55	13+450	13+490	40	VCP	Annexure -17	VANLALZAW NA	
56	13+540	13+570	30	VCP	Annexure -17	VANLALZAW NA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
57	13+600	13+650	50	VCP	Annexure -17	VANLALZAW NA	
58	13+760	13+780	20	VCP	Annexure -17	VANLALZAW NA	
59	13+820	13+850	30	VCP	Annexure -17	VANLALZAW NA	
60	13+000	13+070	70	VCP	Annexure -16	R.SANGLIAN A	
61	14+310	14+360	50	VCP	Annexure -17	VANLALZAW NA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
62	14+390	14+460	70	VCP	Annexure -17	VANLALZAW NA	
63	14+570	14+620	50	VCP	Annexure -17	VANLALZAW NA	
64	14+630	14+700	70	VCP	Annexure -17	VANLALZAW NA	
65	14+900	14+950	50	VCP	Annexure -17	VANLALZAW NA	
66	14+630	14+810	180	VCP	Annexure - 18	VANLALZAW NA	
67	15+010	15+060	50	VCP	Annexure -17	VANLALZAW NA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
68	15+760	15+810	50	VCP	Annexure -17	VANLALZAW NA	
69	15+460	15+520	60	VCP	Annexure - 18	VANLALZAW NA	
70	15+660	15+710	50	VCP	Annexure - 18	VANLALZAW NA	
71	15+960	16+010	50	VCP	Annexure - 18	VANLALZAW NA	
72	16+260	16+300	40	VCP	Annexure -17	VANLALZAW NA	
73	16+430	16+470	40	VCP	Annexure -17	VANLALZAW NA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
74	16+560	16+610	50	VCP	Annexure -17	VANLALZAW NA	
75	16+110	16+160	50	VCP	Annexure - 18	VANLALZAW NA	
76	16+710	16+760	50	VCP	Annexure - 18	VANLALZAW NA	
77	17+680	17+710	30	VCP	Annexure -17	VANLALZAW NA	
78	17+350	17+380	30	VCP	Annexure -19	VANLALZAW NA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
79	17+040	17+100	60	VCP	Annexure - 18	VANLALZAW NA	
80	17+300	17+330	30	VCP	Annexure - 18	VANLALZAW NA	
81	17+520	17+550	30	VCP	Annexure - 18	VANLALZAW NA	
82	17+580	17+620	40	VCP	Annexure - 18	VANLALZAW NA	
83	18+750	18+800	50	VCP	Annexure -17	VANLALZAW NA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
84	18+110	18+190	80	VCP	Annexure - 18	VANLALZAW NA	
85	18+270	18+300	30	VCP	Annexure - 18	VANLALZAW NA	
86	18+480	18+510	30	VCP	Annexure - 18	VANLALZAW NA	
87	18+330	18+480	150	VCP	Annexure -19	VANLALZAW NA	
88	18+640	18+710	70	VCP	Annexure -19	VANLALZAW NA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
89	18+720	18+860	140	VCP	Annexure -19	VANLALZAW NA	
90	19+100	19+140	40	VCP	Annexure - 18	VANLALZAW NA	
91	19+400	19+480	80	VCP	Annexure -19	VANLALZAW NA	
92	19+660	19+690	30	VCP	Annexure -19	VANLALZAW NA	
93	19+730	19+770	40	VCP	Annexure -19	VANLALZAW NA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
94	19+820	19+850	30	VCP	Annexure -19	VANLALZAW NA	
95	19+930	19+960	30	VCP	Annexure -19	VANLALZAW NA	
96	20+050	20+110	60	VCP	Annexure -19	VANLALZAW NA	
97	20+280	20+330	50	VCP	Annexure -19	VANLALZAW NA	
98	20+650	20+700	50	VCP	Annexure -19	VANLALZAW NA	



No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
99	20+980	21+100	120	VCP	Annexure -19	VANLALZAW NA	
100	21+500	21+600	100	VCP	Annexure -11	VANLALRUA TA	
<u>PART-II (Section-III)</u>							
101	21+650	21+800	150	VCP	Annexure -20	DINA	
102	21+660	21+760	100	VCP	Annexure -21	LALTHAMUA NA	
103	22+370	22+410	40	VCP	Annexure -22	RETHANGA	





No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
104	24+700	24+780	80	VCP	Annexure -23	RC THANGA	
105	25+480	25+540	60	VCP	Annexure -24	BIAKHMING THANGA	
106	25+650	25+910	260	VCP	Annexure -25	RC THANGA	
107	25+440	26+180	740	VCP	Annexure -26	RC THANGA	
108	26+400	27+240	840	VCP	Annexure -27	RC THANGA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
109	27+240	27+320	80	VCP	Annexure -28	NGWCHHAN A	
110	27+525	27+670	145	VCP	Annexure -29	NGURCHHO NA	
111	27+670	27+810	140	VCP	Annexure -30	C. RUATINKHU MA	
112	27+840	28+010	170	VCP	Annexure -31	C. RUATINKHU MA	
113	27+966	28+826	860	VCP	Annexure -32	RC THANGA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
114	28+120	28+340	220	VCP	Annexure -33	VANLALZAW NA	
115	28+340	28+850	510	VCP	Annexure -34	CHHIMTLAN GTHANGA	
116	29+070	29+390	320	VCP	Annexure -35	NGURCHHO NA	
117	29+390	30+500	1110	VCP	Annexure -36	RC THANGA	
118	30+530	30+580	50	VCP	Annexure -37	PU DENG BUNGA	
119	30+860	30+920	60	VCP	Annexure -38	PU THAWIA	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
120	30+940	31+110	170	VCP	Annexure -39	PUTHAWIA	
121	31+170	31+420	250	VCP	Annexure -40	PUTHAWIA	
122	31+450	31+460	10	VCP	Annexure -41	RC THANGA	
123	31+560	31+700	140	VCP	Annexure -42	PU THANGLIAN A	
124	31+790	31+910	120	VCP	Annexure -43	C. CHONGZIKA	
125	33+160	33+220	60	VCP	Annexure -44	V.C. LAND	

No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
126	33+330	33+410	80	VCP	Annexure -45	LALRAMHLU ANA	
127	33+410	33+475	65	VCP	Annexure -46	H. RANG NGHILHLOV A	
128	33+475	33+500	25	VCP	Annexure -47	REMLALNG HAKA	
129	33+500	33+580	80	VCP	Annexure -48	J. LALDONGLI ANA	
130	33+680	33+729	49	VCP	Annexure -49	RC THANGA	


No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
131	33+780	33+870	90	VCP	Annexure -50	C. LALZUILIAN A	
132	33+995	34+005	10	VCP	Annexure -51	RC THANGA	
133	33+950	34+020	70	VCP	Annexure -52	C. ROZAMA	
134	34+020	34+050	30	VCP	Annexure -53	K.T. CHAWNGRO MAWIA	
135	34+100	34+170	70	VCP	Annexure -54	K.T. CHAWNGRO MAWIA	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
136	34+210	34+285	75	VCP	Annexure -55	H. ZAKHUMA	
137	34+325	34+425	100	VCP	Annexure -56	LALENGZA WA	
138	34+600	34+720	120	VCP	Annexure -57	LALENGZA WA	
139	34+760	34+870	110	VCP	Annexure -58	LALENGZA WA	
140	34+920	34+995	75	VCP	Annexure -59	V.C. LAND	






No	Chainage		Length (m)	Land (PWD / VCP)	NOC from VCP / PWD	Land owner Name	Photograph
	From (Km)	To (Km)					
141	34+990	35+130	140	VCP	Annexure -60	R. THANGMAW IA	
142	35+100	35+170	70	VCP	Annexure -61	C. RAWMAWIA	
143	35+230	35+340	110	VCP	Annexure -62	LALNGHINGI	
144	35+340	35+490	150	VCP	Annexure -63	C. RALTAWNA	
145	36+210	36+265	55	VCP	Annexure -64	THANSIAMI	






20. Compaction of the dumping ground was done (in most cases) and grass turfing was also done in many cases (table 3).






Table -3: Dumping ground protection measures by grass turfing






SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
1	0+935	0+945	10	Turfing one year back	
2	7+680	7+700	20	Turfing one year back	
3	9+210	9+250	40	Turfing one year back	
4	9+280	9+440	160	Fish pond	
5	10+080	10+100	20	Turfing one year back	




SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
6	11+330	11+530	200	Turfing one year back	
7	11+080	11+200	120	Turfing one year back	
8	12+700	12+900	200	Turfing one year back	
9	4+400	4+435	35	Turfing one year back	
10	1+600	1+700	100	Turfing one year back	






SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
11	1+720	1+750	30	Turfing one year back	
12	3+489	3+559	70	Turfing one year back	
13	12+360	12+480	120	Turfing one year back	
14	2+170	2+200	30	Turfing one year back	
15	7+700	7+800	100	Turfing one year back	






SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
16	7+860	7+920	60	Turfing one year back	
17	12+850	12+900	50	Turfing one year back	
18	5+300	5+418	118	Turfing one year back	
19	8+200	8+286	86	Turfing one year back	
20	2+300	2+426	126	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
21	3+000	3+145	145	Turfing one year back	
22	5+360	5+420	60	Turfing one year back	
23	5+600	5+700	100	Turfing one year back	
24	6+040	6+060	20	Turfing one year back	
25	6+330	6+350	20	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
26	6+730	6+750	20	Turfing one year back	
27	6+840	6+860	20	Turfing one year back	
28	6+170	6+230	60	Turfing one year back	
29	7+630	7+700	70	Turfing	
30	7+420	7+440	20	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
31	7+720	7+760	40	Turfing one year back	
32	7+930	7+950	20	Turfing one year back	
33	8+420	8+570	150	Turfing one year back	
34	8+120	8+140	20	Turfing one year back	
35	8+680	8+690	10	Turfing one year back	





SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
36	9+280	9+440	160	Turfing one year back	
37	9+210	9+250	40	Turfing one year back	
38	9+070	9+080	10	Turfing one year back	
39	10+080	10+100	20	Turfing one year back	
40	10+000	10+080	80	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
41	10+280	10+350	70	Turfing one year back	
42	10+760	10+840	80	Turfing one year back	
43	11+330	11+530	200	Turfing one year back	
44	11+170	11+200	30	Turfing one year back	
45	11+530	11+540	10	Turfing one year back	






SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
46	11+720	11+770	50	Turfing one year back	
47	11+920	11+970	50	Turfing one year back	
48	12+160	12+180	20	Turfing one year back	
49	12+210	12+240	30	Turfing one year back	
50	12+310	12+400	90	Plantation of trees one year back	





SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
51	12+500	12+612	112	Turfing one year back	
52	12+670	12+700	30	Turfing one year back	
53	12+990	13+060	70	Local people house	
54	13+320	13+340	20	Turfing one year back	
55	13+450	13+490	40	Turfing one year back	


SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
56	13+540	13+570	30	Turfing one year back	
57	13+600	13+650	50	Turfing one year back	
58	13+760	13+780	20	Turfing one year back	
59	13+820	13+850	30	Turfing one year back	
60	13+000	13+070	70	Local people house	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
61	14+310	14+360	50	Turfing one year back	
62	14+390	14+460	70	Turfing one year back	
63	14+570	14+620	50	Turfing one year back	
64	14+630	14+700	70	Turfing one year back	
65	14+900	14+950	50	Turfing one year back	


SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
66	14+630	14+810	180	Turfing one year back	
67	15+010	15+060	50	Turfing one year back	
68	15+760	15+810	50	Turfing one year back	
69	15+460	15+520	60	Turfing one year back	
70	15+660	15+710	50	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
71	15+960	16+010	50	Turfing one year back	
72	16+260	16+300	40	Turfing one year back	
73	16+430	16+470	40	Turfing one year back	
74	16+560	16+610	50	Turfing one year back	
75	16+110	16+160	50	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
76	16+710	16+760	50	Turfing one year back	
77	17+680	17+710	30	Turfing	
78	17+350	17+380	30	Turfing one year back	
79	17+040	17+100	60	Turfing one year back	
80	17+300	17+330	30	Turfing one year back	


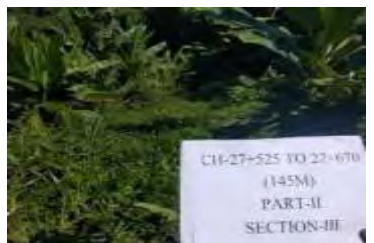
SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
81	17+520	17+550	30	Turfing one year back	
82	17+580	17+620	40	Turfing	
83	18+750	18+800	50	Plantation trees one year back	
84	18+110	18+190	80	Turfing	
85	18+270	18+300	30	Turfing	


SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
86	18+480	18+510	30	Turfing one year back	
87	18+330	18+480	150	Turfing one year back	
88	18+640	18+710	70	Turfing one year back	
89	18+720	18+860	140	Plantation trees one year back	
90	19+100	19+140	40	Plantation trees one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
91	19+400	19+480	80	Turfing one year back	
92	19+660	19+690	30	Turfing one year back	
93	19+730	19+770	40	Turfing one year back	
94	19+820	19+850	30	Turfing one year back	
95	19+930	19+960	30	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
96	20+050	20+110	60	Turfing one year back	
97	20+280	20+330	50	Turfing one year back	
98	20+650	20+700	50	Local people house	
99	20+980	21+100	120	Local people house	
100	21+500	21+600	100	Hot mix plant	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
101	21+650	21+800	150	Camp	
102	21+660	21+760	100	Turfing one year back	
103	22+370	22+410	40	Turfing one year back	
104	24+700	24+780	80	Turfing one year back	
105	25+480	25+540	60	Turfing	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
106	25+650	25+910	260	Turfing one year back	
107	25+440	26+180	740	Turfing	
108	26+400	27+240	840	Turfing one year back	
109	27+240	27+320	80	Turfing one year back	
110	27+525	27+670	145	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
111	27+670	27+810	140	Turfing one year back	
112	27+840	28+010	170	Turfing one year back	
113	27+966	28+826	860	Turfing one year back	
114	28+120	28+340	220	Turfing one year back	
115	28+340	28+850	510	Turfing	






SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
116	29+070	29+390	320	Turfing	
117	29+390	30+500	1110	Turfing one year back	
118	30+530	30+580	50	Turfing one year back	
119	30+860	30+920	60	Turfing one year back	
120	30+940	31+110	170	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
121	31+170	31+420	250	Turfing one year back	
122	31+450	31+460	10	Turfing one year back	
123	31+560	31+700	140	Turfing one year back	
124	31+790	31+910	120	Turfing one year back	
125	33+160	33+220	60	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
126	33+330	33+410	80	Turfing one year back	
127	33+410	33+475	65	Turfing one year back	
128	33+475	33+500	25	Turfing one year back	
129	33+500	33+580	80	Turfing one year back	
130	33+680	33+729	49	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
131	33+780	33+870	90	Turfing	
132	33+995	34+005	10	Turfing	
133	33+950	34+020	70	Turfing one year back	
134	34+020	34+050	30	Turfing one year back	
135	34+100	34+170	70	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
136	34+210	34+285	75	Turfing one year back	
137	34+325	34+425	100	Turfing one year back	
138	34+600	34+720	120	Turfing one year back	
139	34+760	34+870	110	Turfing one year back	
140	34+920	34+995	75	Turfing one year back	

SI No	Chainage		Length (m)	Protection measures	
	From (Km)	To (Km)		Plantation	
				Trees / plants	Photograph
141	34+990	35+130	140	Turfing one year back	
142	35+100	35+170	70	Turfing one year back	
143	35+230	35+340	110	Turfing one year back	
144	35+340	35+490	150	Turfing	
145	36+210	36+265	55	Turfing one year back	



Photograph -1 : Dumping ground before plantation



Photograph -2 : Grass Turfing



Photograph -3 : Compacted Dumping Ground



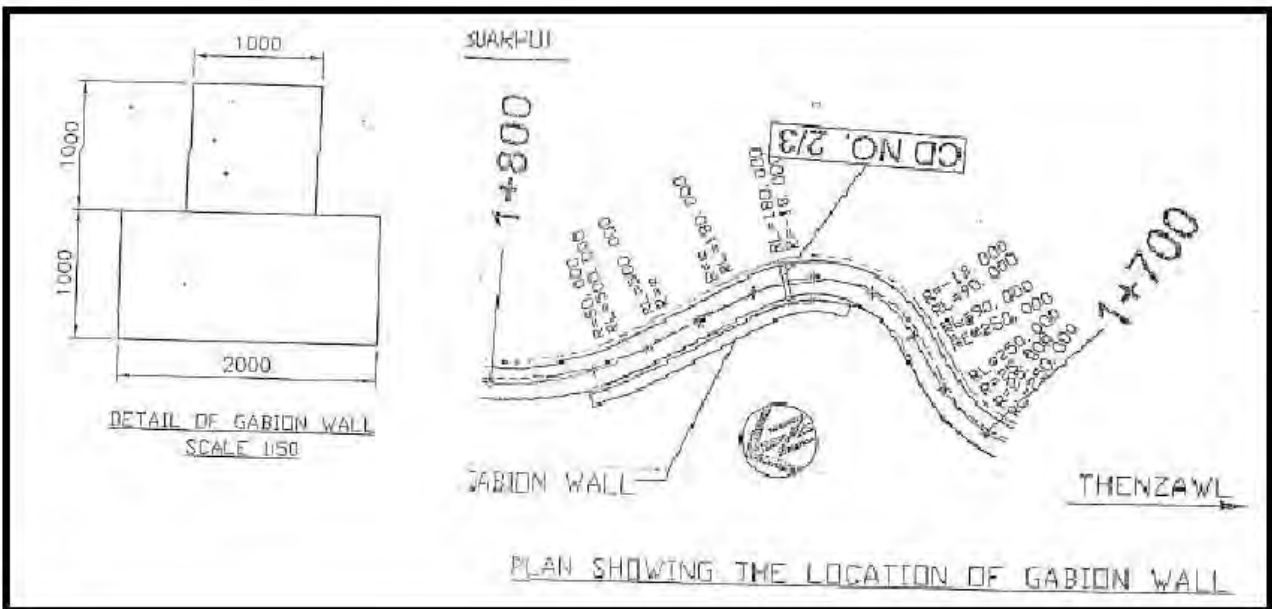
Photograph -4 : Compacted Dumping Ground

21. Protection measures for dumping yard were also carried out by construction of gabion wall (Map- 5 and 6). Gabion wall protection measures are shown in Table 4, Photograph 5. Approvals of the gabion wall design are shown in Annexure-65 (as sample).



Photograph -5 : Gabion Wall

Map-5 :Dumping yard protection measures with gabion wall -1



Map-6 :Dumping yard protection measures with gabion wall -2

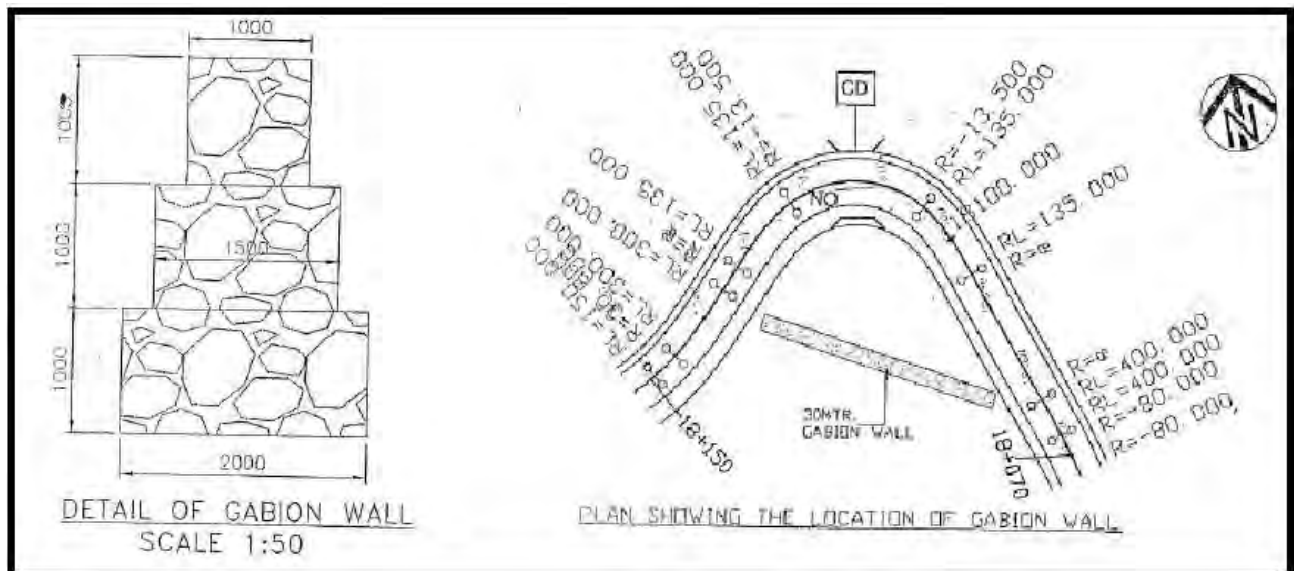


Table 4 : Details of the Gabion wall protection measures

Sl. No.	Chainage		Measurement			Nos.	Remarks
	From	To	Length in M	Breath in M	Height/ Depth in M		
	PART I						
1	1+700	1+720	20.00	1.00	1.00	1.00	Bottom layer
			19.00	1.00	1.00	1.00	2nd layer

Sl. No.	Chainage		Measurement			Nos.	Remarks
	From	To	Length in M	Breath in M	Height/ Depth in M		
2	1+780	1+720	60.00	1.50	0.93	1.00	Bottom layer
			60.00	1.00	0.89	1.00	2nd layer
3	5+400	5+450	50.00	1.00	1.00	1.00	Bottom layer
			50.00	1.00	1.00	1.00	2nd layer
			50.00	1.00	1.00	1.00	3rd layer
4	1+690	1+720	56.00	1.00	0.93	1.00	BOTTOM LAYER
			80.00	1.00	0.93	1.00	TOP LAYER
	PART II						
5	5+369	5+391	22.00	2.00	1.00	1.00	Bottom layer
			22.00	1.00	1.00	1.00	Top layer
6	5+600	5+610	10.00	2.00	1.00	1.00	Bottom layer
			10.00	1.00	1.00	1.00	Top layer
7	6+043	6+063	20.00	2.00	1.00	1.00	Bottom layer
			20.00	1.00	1.00	1.00	Top layer
8	6+191	6+213	22.00	2.00	1.00	1.00	Bottom layer
			22.00	1.00	1.00	1.00	Top layer
9	6+325	6+345	20.00	2.00	1.00	1.00	Bottom layer
			20.00	1.00	1.00	1.00	Top layer
10	6+718	6+738	20.00	2.00	1.00	1.00	Bottom layer
			20.00	1.00	1.00	1.00	Top layer
11	7+721	7+741	15.00	2.00	1.00	1.00	Bottom layer
			15.00	1.00	1.00	1.00	Top layer
12	9+239	9+261	22.00	2.00	1.00	1.00	Bottom layer
			22.00	1.00	1.00	1.00	Top layer
13	10+030	10+050	20.00	2.00	1.00	1.00	Bottom layer
			20.00	1.00	1.00	1.00	Top layer
14	10+290	10+340	50.00	2.00	1.00	1.00	Bottom layer
			50.00	1.00	1.00	1.00	2nd layer
15	11+180	11+230	2.00	1.00	1.00	4.00	(Hitension Tower Protection)
			1.50	1.00	1.00	2.00	
			2.00	1.00	1.00	60.00	Bottom Layer (Dumping Area)
			1.50	1.00	1.00	70.00	Top Layer (Dumping Area)
16	12+910	12+960	50.00	2.00	1.00	1.00	Bottom layer
			50.00	1.00	1.00	1.00	2nd layer

Sl. No.	Chainage		Measurement			Nos.	Remarks
	From	To	Length in M	Breath in M	Height/Depth in M		
17	14+310	14+340	40.00	1.00	1.00	1.00	BOTTOM LAYER (PART-II)
18	14+310	14+340	30.00	2.00	1.00	1.00	Top layer
19	15+520	15+535	14.00	1.00	1.00	1.00	Top layer
20	15+810	15+825	15.00	2.00	1.00	1.00	Top layer
21	15+910	15+940	30.00	2.00	1.00	1.00	Top layer
22	15+810	15+825	18.00	1.00	1.00	1.00	BOTTOM LAYER
	15+810	15+825	3.00	1.00	1.00	1.00	BOTTOM LAYER
23	15+910	15+940	8.00	1.00	1.00	1.00	BOTTOM LAYER
			18.00	1.00	1.00	1.00	BOTTOM LAYER
24	16+190	16+200	12.00	1.00	1.00	1.00	BOTTOM LAYER (PART-II)
			13.50	1.00	1.00	1.00	TOP LAYER (PART-II)
25	16+400	16+430	16.00	1.00	1.00	1.00	BOTTOM LAYER
	16+400	16+430	10.50	1.00	1.00	1.00	BOTTOM LAYER
26	16+400	16+430	30.00	2.00	1.00	1.00	Top layer
27	17+090	17+120	36.00	1.00	1.00	1.00	BOTTOM LAYER (PART-II)
28	17+090	17+120	30.00	2.00	1.00	1.00	Top layer
29	17+300	17+330	24.00	1.00	1.00	1.00	BOTTOM LAYER (PART-II)
30	17+300	17+330	30.00	2.00	1.00	1.00	Top layer
31	17+350	17+380	51.00	1.00	1.00	1.00	BOTTOM LAYER (PART-II)
32	17+350	17+380	30.00	2.00	1.00	1.00	Top layer
33	18+100	18+130	30.00	2.00	1.00	1.00	Gabion Wall 1st Lift
34	18+100	18+130	30.00	1.00	1.00	1.00	Gabion Wall 2nd Lift
35	18+200	18+275	75.00	2.00	1.00	1.00	Bottom layer
			75.000	2.000	1.000	1	2nd layer
36	18+340	18+370	30.00	2.00	1.00	1.00	Top layer
37	18+340	18+370	2.00	1.00	1.00	2.00	Bottom layer
			2.00	1.00	1.00	29.00	2nd layer
38	11+180	11+230	1.00	1.00	1.00	11.00	Bottom layer
			1.00	1.00	1.00	5.50	2nd layer
39	35+400	35+400	8.00	2.00	1.00	1.00	Bottom layer
			8.00	2.00	1.00	1.00	2nd layer
			8.00	2.00	1.00	1.00	3rd layer

E. Forest Clearances :

21. Forest clearance was accorded for diversion of 0.9963 ha forest land in Tlawng Riverine Reserve Forest under section 2 of FCA 1980 (Annexure-66).

22. Following FC conditions were strictly adhered or to be adhered till the project completion :

- a. User Agency has not expanded its occupation or use surrounding forest / forest land in any manner otherwise expressed in the clearance.
- b. Overburden was not dumped in the forest section outside the width of the road.
- c. The muck generated in the earth cutting was disposed off or will be disposed off at that designated dumping sites and in no case the muck/ debris allowed to rolldown the hill slopes.
- d. Tree felling was done only when absolutely unavoidable and such removals, if any, were done under the supervision of Forest Department.
- e. No labour camps were established in the Forest land.
- f. The muck dumping area stabilized or being stabilized and plantation of suitable species was carried out over stabilized dumps under the supervision of Forest department near forest diversion areas.
- g. All the site specific engineering structures were constructed to avoid any soil erosion and slope stability of the concerned hills.

F. Compensatory Afforestation :

23. Amount for compensatory afforestation was deposited to Forest Department account (Annexure-67). In addition to the above, tree plantation was also carried out along the corridor by the contractor.

H. Public consultation :

24. Public consultations has been carried out since commencement along the project site during the execution of the project in response of debris management due to cutting of hill related to shifting of central line alignment towards hill side. Some of the samples of Public consultation details carried out during execution of the project are given in photograph 6 to 11; table number 5 and attendance sheets in Annexure 68.

Table -5 : Findings of Public Consultation

	Discussion points	Discussion out come	Status as on date
1	Areas selected for dumping were discussed with the villagers.	Consent to be taken from the landowners or Village Council President.	NOC were obtained for all the dumping areas
2	Spills from the selected dumping sites may affect and damage the agricultural land below.	Proper protection measures to be taken to contain the spills in the selected / approved areas	Gabion walls were provided where there was chance of spills beyond the designated

	Discussion points	Discussion out come	Status as on date
			area. Compaction and grass turving done.
3	Spills from the selected dumping sites may affect to natural flow of water or may block the opening of the culverts.	Proper protection measures to be taken and to avoid dumping near the opening of the culverts.	Gabion walls were provided where there was chance of blockage of natural flow of stream by dumped earth. Opening of the culverts were avoided for selection of dumping sites.
4	Part of earth generated from cutting of hills to be used for the benefit of the local people.	Earth generated from cutting of hills (partly), to be used for leveling of private lands for personal use when desired by the owner.	Whereever landowner requested, Contractor used their machinery and earth generated from cutting of hills to fulfill the requirements of the fringe villagers.



Photograph -6 : Public Consultation
Location name: Buarpui, Date: 02.06.2017.



Photograph -7 : Public Consultation
Location name: Sailam, Date:28.05.2018



Photograph -8 : Public Consultation
Location name: Thenzawl, Date: 02.03.2018



Photograph -9 : Public Consultation
Location name: South Khawlek, Date: 07.07.2018



Photograph -10 : Public Consultation
Location name: Buarpui, Date: 11.12.2019



Photograph -11 : Public Consultation
Location name: New Khawlek, Date: 20.03.2020

III. MITIGATION OF ENVIRONMENTAL CONCERNS

25. All the mitigation measures suggested in the ADB cleared IEE report including EMP was followed. The EMP was part of Contractor's contract agreement and it has been implemented properly. The site selection and disposal of the earth due to shifting of the central line towards hill side has been followed as per EMP guideline.

26. Following consideration was made during selection of dumping sites.

- (i) 1.5 km from habitation and forest areas and 500 m from ponds.
- (ii) Dumping sites do not contaminate any water sources, rivers etc, and
- (iii) Public consent from the village council to be obtained before finalizing the location.

27. Mitigation measures for Environmental concerns :

27.1. Air Quality Mitigation measures :

- 1. Contractor followed dust suppression and control programme during construction.

27.2. Noise and Vibration Mitigation measures :

- 2. Blasting, was restricted to daytime only, when required. Blasting was carried out as per "The Explosive Act, 1884 and the rules, 1983" pertaining to procurement, transport, storage, handling and use of explosives.
- 3. Blasting schedules carried out as per pre announced scheduled which was also displayed in advance in areas where residents supposed to be affected by the blasting operations.
- 4. Red danger flags were displayed prominently in all directions during the blasting operations. The flags were planted 200 m and 500 m from the blasting site in all directions for blasting
- 5. Those who actually light the fuse, were prohibited from entering this area, and all persons including workmen were excluded from the flagged area at least 10 minutes before the firing, a warning siren sounded for the purpose.
- 6. The Contractor notified each public utility body having services in proximity to the site of the work of his intention to use explosives.
- 7. The Contractor adequately compensated in a timely manner for any damage to property/services and life caused by their blasting.
- 8. All equipment were timely serviced and properly maintained to minimize its operational noise. Noise level was one of the considerations in equipment selection which will favour lower sound power levels. Construction equipment and machinery were fitted with silencers and maintained properly.
- 9. Stationary noise making equipment was placed along un-inhabited stretches.
- 10. Timing of noisy construction activities were regulated near sensitive receptors. Maximum construction activities were undertaken during night time and weekends when there are minimal activities by the sensitive receptor, concurrent noisy operations were separated (if any) to reduce the total noise generated, and re-route traffic during construction to avoid the accumulation of noise beyond standards.
- 11. Protection devices (ear plugs or ear muffs) were provided to the workers operating in the vicinity of high noise generating machines.

12. Noise measurements were carried out to ensure the effectiveness of mitigation measures.
13. Grievance Redressed mechanism was there to record and respond to complaints on noise

27.3. Land and Soil *Mitigation Measures*

14. Cut materials were used to widen the road or disposed in an environmentally acceptable manner whenever possible.
15. Cut slopes were re-vegetated immediately after widening activities
16. Cut off material were disposed of at proper disposal sites.

27.4. Landslides *Mitigation Measures*

17. Retaining walls for stabilization of uphill were constructed wherever necessary.
18. Breast walls down slopes and
19. Parapet walls/guide posts/railings/edge stones were done to mitigate landslide.

Bio-engineering measures were implemented for slope stabilization.

20. Bamboo terracing, bamboo crib walls, and bamboo knitting a slope,
21. Contour trenching and
22. Series of check dams on hill slopes etc were done.

27.5. Loss of Productive Soil and Change in Land use *Mitigation Measures*

23. The top soil from the productive land were preserved and reused for plantation purposes. It was used as top cover of embankment slope for growing vegetation to protect soil erosion.

27.6. Soil Erosion/Silt Runoff *Mitigation Measures taken*

24. Bank protection measures was taken at erosion prone areas.
25. Provision of side drain to guide the water to natural outfalls.
26. Retaining walls with parapets and breast walls was included in the design to check erosion.
27. When soil is spread on slopes for permanent disposal, it was buttressed at the toe by retaining walls.
28. Side slopes of the embankment were not steeper than 2H: 1V. Turfing of embankment slopes was done along the stretch and wherever necessary.
29. IRC: 56 -1974 recommended practice for treatment of embankment slopes for erosion control shall be taken into consideration.

27.7. Aquatic Ecology *Mitigation Measures*

30. Siltation was avoided by measures suggested above in impact on surface water resource section.

27.8. Other *Mitigation Measures*

31. There was no additional impact on the trees, water bodies, Forests, eco-sensitive areas and agricultural lands and Archeological sites due to the sifting of central line alignment. No grievance received related to environmental safeguards due to execution of the works on the designated dumping sites.

27.9. *Good Engineering Practices*

MANAGEMENT OF EARTH GENERATED FROM HILL CUTTING

27.9.A. Purpose

- To maximize re-use of earth generated during hill cutting and
- To avoid environmental hazards due to improper disposal of earth.

27.9.B. Procedure

(Ref : IRC:52-2019, Guidelines for the Alignment Survey and Geometric Design of Hill Roads; IRC-2007, Section 14- Special Requirement for Hill Roads; IRC:SP:48-1998, Hill Road Manual, Chapter-7: Formation works; Chapter 11: Slope Stability, Erosion Control and Landslide Correction)

1. The following procedures have been followed for upkeep of storage and disposal sites :
 - Contractor has maintained register for keeping records on kilometer-wise quantities of earth generated during grubbing, stripping, excavation and scarifying;
 - Contractor re-used construction material to the extent possible based on engineering properties. Possible re-use areas are filling sections, embankment slope, village approach roads etc. Debris without bitumen has used for backfilling of quarry / borrow areas as recommended by the Engineer. At locations identified for dumping of residual bituminous wastes, the dumping was carried out over a 60mm thick layer of rammed clay so as to eliminate the possibility of the leaching of the wastes into the ground water. The contractor ensured that the filled areas were covered with a layer of preserved topsoil after compaction.
 - Contractor estimated the chainage-wise quantities of various waste material to be disposed of;
 - Contractor followed the principle of waste disposal at approved site/s only;
 - Contractor prepared a plan including detailed lay out plan and cross-section for disposal of debris (earth) waste and got approval of the same by the Engineer;
 - Contractor and Engineer ensured that disposal areas are properly treated as per agreed plan;
 - Contractor and Engineer"s representatives undertook joint weekly inspection to ensure compliance of various environmental requirements.
 - All arrangement for transportation during construction including provision, maintenance and clearing debris, where necessary and was considered incidental to the work and was planned and implemented by the contractor as approved and directed by the Consultant.
2. Selection of Dumping site
The sites were identified based on the following criteria :
 - The sites were 1.5 km from habitation and forest areas and 500 m from

- pond.
- Dumping sites did not contaminate any water sources, rivers etc, and
- Public consent from the village council was obtained before finalizing the location.

27.10.C. Site Inspection

3. Weekly joint site inspection had been undertaken for all the storage areas. The details of attributes, which were inspected, are given in Table 6. The Contractor ensured the compliance of the requirements.

Table 6 : Details inspected for Construction Material Reuse & Disposal

Attributes	Requirements
Construction material generation and re-use	<ul style="list-style-type: none"> • debris segregated (earth, stone, etc) during generation; • re-usable portion of debris segregated and stored preferably near areas of re-use; and • Temporary storage of waste material at sites as directed by the Engineer.
Waste disposal (Debris / Earth)	<ul style="list-style-type: none"> • Disposal of waste material at approved disposal site within a week of generation; • Disposal site were properly demarcated; • Proper leveling / grading at disposal site/s; • Recommended / agreed safeguard measures to avoid sliding of materials were implemented; • Recommended / agreed safeguard measures to avoid soil erosion were implemented; • Recommended / agreed plan for surface treatment of waste disposal site/s were implemented.

IV. FINDING AND CONCLUSIONS

33. Following are the finding of the EDDR :

- a. Hill cutting and dumping activities are site-specific, and none of the activities are irreversible, hence the impact are localized and proper mitigation measures has been adopted.
- b. The mitigation measures suggested in IEE were found adequate and followed while execution of the work.
- c. Areas falling under Forest Clearance area were not changed as per FC conditions.
- d. Amount for compensatory afforestation was deposited to Forest Department.
- e. Public consultation has been adopted during execution of the works.
- f. Necessary NOC were taken from PWD, Village Council or individual land owner.
- g. Best engineering practices were adopted while executing hill cutting and disposal of the debris.
- h. There is no additional impact on the trees, water bodies, Forests, eco-sensitive areas and agricultural lands for the sifting of central line.
- i. No grievance received related to environmental safeguards due to execution of the works on the designated dumping sites.

34. Field based Environment Due Diligence, addendum to IEE, was carried out on account of shifting of original envisaged alignment further towards hills side due to technical reasons. The original envisaged earth cutting of 3,24,2493 cu.m. during detailed design stage has been changed to 15,05,967.48 cu.m. After assessment with respect to the associated environmental implications, impacts caused, efficacy and adequacy of mitigation measures undertaken, disposal of surplus earth and the corrective actions as further migratory and compensatory measures, the environmental category continues to be Category „B“. Public consultations were carried out while selecting the dumping sites and its utilization. FC condition were adhered.

34. This field based Environmental Due Diligence Report is an addendum to IEE report which ascertains presence of any residual environmental impacts due to change of the central line towards hill side and management of extra earth generated from the hill cutting which did not cause any significant environmental impacts. There are no residual impacts due to execution of additional hill cutting in account of shifting of central line alignment towards hill side. Few impacts were identified which was attributable to the proposed work, all of which were localized and temporary in nature and easily mitigated with minor to negligible residual impacts. There is no additional impact on the trees, water bodies, Forests, eco-sensitive areas and agricultural lands for the sifting of central line. No grievance received related to environmental safeguards due to execution of the works on the designated dumping sites. No additional studies or need of undertaking detailed EIA is envisaged.

Annexure

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Annexure -1

Part-I

NO OBJECTION CERTIFICATE

This agreement is made on 1st day of May 2015 between R. Remmawia & Tanta Constructions Limited.

R. Remmawia allows Tanta Constructions Limited for disposal of soil in @ His land from CH NO. 0.985 to 0.945. in this CH NO he is having no problem in disposal for this Tanta Constructions Ltd has paid him Rs 5000 (five thousand only) as been decided.

R. Remmawia,
Serchhip Sarawh Veng.
DT 1.5.2015

1/5/2015

Original Copy send To A2L Office
MR Mureth Shw. Through. P.R Sharma.
29.07.2016.

Annexure 2

Part-I

8/10/17
Date :-
Buarpoi Project

NO OBJECTION FOR DUMPING AREA

Vanlalawata s/o. Hanlbuaia Age 35
Village Vanjot Dist. Serchhip Mizoram.

1 Declare that M/s Tanta Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (MZ02).

In my Land Ram Patta No. dated.....

And I will no further claim for my above dumping land chainage from 71650 M to 71700 M.

(Signature)
MCP Signature

(Signature)
Acceptance Signature

TCL Signature

Annexure – 3

Part-I

SL No. 9

Date :-
Buarpoi Project

NO OBJECTION FOR DUMPING AREA

I, Mr. N. H. K. MANIA S/o. P. H. K. KUMA Age

Village Dist. Mizoram

Declare that M/s Tania Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (MZ02).

In my Land Ram Patia No. 60680/1 dated 03/03/2011.

And I will no further claim for my above dumping land, chainage from 912.10 M to 912.50 M.

(Signature)
VCP Signature

(Signature)
Acceptance Signature

(Signature)
TCL Signature

SL No. 3
Date :-
Buarpoi Project

NO OBJECTION FOR DUMPING AREA

I, Ngah Samsonia S/o Pantia Ram Age.....
Village Thangmual Dist Serdang Mizoram.

Declare that M/s Tania Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (MZ02).

In my Land Ram Patta No. 606801 dated 02/10/2011
159

And I will no further claim for my above dumping land, chainage from 54.280 M to 54.440 M.

Ngah Samsonia
VCP Signature

Ngah Samsonia
Acceptance Signature

TCL Signature

Annexure – 5

Part-I

Sl. No. 4
Date :-
Buarpoi Project

NO OBJECTION FOR DUMPING AREA

I, S. Lalramkima S/o Lalramkima Age 37
Village Thangal Dist Serchhip Mizoram.

Declare that M/s Tantia Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (M202).

In my Land Ram Patta No. dated

And I will no further claim for my above dumping land, chainage
from 10+000 M to 10+100 M.
(K.M. 10 - 10.8 chain at 100m Buffer Land)

(Signature)
VCP Signature

(Signature)
Acceptance Signature
16/10/2016

TCL Signature

Part-I

87

Date :- 05.01.2017
Buarpui Project

NO OBJECTION FOR DUMPING AREA (Part - 1)

I, R. LALTANPUIA S/O Maizathang Age 63

Village..... Dist..... Mizoram.

Declare that M/s Tantia Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (MZ02).

In my Land Ram Patta No.dated.....

And I will no further claim for my above dumping land, chainage from 11+200M to 11+080M.

(LALENGLIANA)

VCP Signature

(R. LALTANPUIA)
Acceptance Signature

TCL Signature

Date :- 24/4/16
Buarpui Project

NO OBJECTION FOR DUMPING AREA

I, VANLALHRIATA S/o HMINGLIANA(L) Age 50

Village Serchhip Dist Serchhip Mizoram.

Declare that M/s Tantia Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (MZ02).

In my Land Ram Patta No. dated.....

And I will no further claim for my above dumping land, chainage

from 12+900 M to 12+700 = 200 M MAT RIVER CRUSHER

owner of crusher - near mat River - crusher down
12+700 to 12+900

VCP Signature

Acceptance Signature

TCL Signature

(Vanlalshika)
Deba
Witness

Annexure – 9

Part-I & II

PART-I & II

Sl No.	Name	Address	Location	Contact No	Acquired
1	R. Lalchuanova (33 av)	Vengchung, Serchhip	Saillam Kawn	9612303083	Yes
2	Lianhanta O/o Robert Lalchhawng	Kanan Veng, Serchhip	Mualvawm	986250279	Yes
3	K.H Rohlun	Bazar Veng, Serchhip	Mualvawm	9436146127	Yes
4	R.L Chhuanhng	Dintar Veng, Serchhip	Serchhip		Yes
5	Hsinthhahmaw A-52 av	New Serchhip	Mzuphr Bam	9414092440	Yes
6	K.H Rohlun	Bazar Veng, Serchhip	Mzuphr Bam	9436146127	Yes
7	Vantlhnala A-52 av	Bazar Veng, Serchhip	Zehlet		Yes
8	H. Mianhman			986272239	Yes
9	A. Pohlun			9436146127	Yes
10	C. Lalhmanh			9612303083	Yes
11	Thantaw A-50 av R. Wall (133 av)	Vengchung, Serchhip	Serchhip	990232078	Yes
12	Honhning	Thanzaw, Bazar Veng	Paite Nam	9413061528	Yes
13	Z.D. Lalhara S.S-450	Thanzaw, Vengchung	Kanan Veng	9862328480	Yes

Lalhmanhngs (No longer in use)

Dumping

R.L Chhuanhngs (longer in use)

Annexure – 10

Part-II

NO OBJECTION FOR DAMPING AREA
TANTIA CONSTRUCTIONS LTD
PROJECT NAME-SCRCHHIP TO BOURPUI ROAD PART-2
WORKING SIDE THENZAWL TO BOURPUI

SL NO	DATE	CHAINAGE	LENGTH	REMARKS
1	14/04/15	5+360-5+420	60MTR	
2		5+600-5+700	100MTR	
3	27/04/15	6+040-6+060	20MTR	
4		6+330-6+350	20MTR	
5		6+730-6+750	20MTR	
6		6+840-6+860	20MTR	
7		7+420-7+440	20MTR	
	7/5/2015			
8		7+720-7+760	40MTR	
9		7+930-7+950	20MTR	
10		8+120-8+140	20MTR	
11		8+680-8+690	10MTR	
12	15/05/15	6+170-6+230	60MTR	RL ZOLIANA
				9612854046


 (VAN LAL ZOLIANA)
 President
 Village Council/Kolait
 Thenzawl West & Serchhip District

SL No. 11
Date :-
Buarpoi Project

NO OBJECTION FOR DUMPING AREA

I, Vanlalruata s/o. Hualhual Age 85.
Village Bongol Dist. Serchhip Mizoram.

Declare that M/s Tania Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (MZ02).

In my Land Ram Patta No. dated.

And I will no further claim for my above dumping land chainage from 7+680 M to 7+720 M.
21+500 21+600

(Signature)
VCP Signature

(Signature)
Acceptance Signature

TCL Signature

Annexure – 12

Part-II

NO OBJECTION DUMPING AREA

CONTRACTOR : TANTIA CONSTRUCTION LIMITED

PROJECT NAME :- M202 SERCHHIP TO BUARPUI (PROJECT - 2 ROAD IN THE STATE OF
MIZORAM)

WORKING SITE THE LAWL TO BUARPUI

Sl. No.	Date	Chainage		Length	Remarks
		From	To		
1	20-06-15	8420	8570	150	PART II
2	20-06-15	10000	10080	80	PART II
3	20-06-15	10280	10350	70	PART II
4	20-06-15	10760	10840	80	PART II
5	20-06-15	11170	11200	30	PART II
6	20-06-15	11530	11640	110	PART II
7	20-06-15	11720	11770	50	PART II
8	20-06-15	11920	11970	50	PART II
9	20-06-15	12100	12180	80	PART II
10	20-06-15	12210	12240	30	PART II
11	20-06-15	12310	12400	90	PART II
12	20-06-15	12670	12700	30	PART II

(Signature) 06/07/2015
President
Village Council/Committee
Thantlang Thant 2 Serchhip District

TANTIA CONSTRUCTION LIMITED

Sl. No. 3
Date :-
Buarpoi Project


NO OBJECTION FOR DUMPING AREA

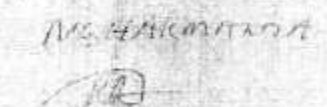
I, Mr. Tania Construction Limited S/o. Mr. Tania Construction Limited Age
 Village Dist. Saidai Khing Mizoram.

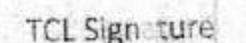
Declare that M/s Tania Construction Limited may be used My Land as a
 disposal of Earth cutting for Serchhi to Buarpui Road project (MZ02).

In my Land Ram Patta No. 60680 / 1st dated 02/02/2011
259

And I will no further claim for my above dumping land, chainage
 from 5+280 M to 9+440 M.
9+070 9+080


 VCP Signature


 Acceptance Signature


 TCL Signature

Sl. No. 2

Date :-
Buarpoi Project

NO OBJECTION FOR DUMPING AREA

I, ALGEMAKMANIA S/O. P. B. RUMIA Age

Village Dist. Saidpur Mizoram

Declare that M/s Tania Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (MZ02).

In my Land Ram Patia No. 40680/4 dated 3.03/03/2011.

And I will no further claim for my above dumping land, chainage from 9+210 M to 9+250 M.

(Signature)
VCP Signature

(Signature)
Acceptance Signature

TCL Signature

Sl. No. 4
Date: _____
Buarpoi Project


NO OBJECTION FOR DUMPING AREA


I, Lalchuanthina S/o. Lalchuanthina Age 37
Village Thangal Dist Saidai Mizoram.

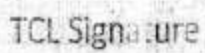
Declare that M/s Tania Construction Limited may be used My Land as a disposal of Earth cutting for Serchhip to Buarpui Road project (MZ02).

In my Land Bam Patta No. _____ dated _____.

And I will no further claim for my above dumping land, chainage from 10+080 M to 10+100 M.
(Kms. Long from a long way from Buarpui Road)


 VCP Signature


 Acceptance Signature
 No. 8-329/8/6


 TCL Signature

97

NO OBJECTION FOR DUMPING AREA					
CONTRACTOR'S NAME :- TANTIA CONSTRUCTION LIMITED					
PROJECT NAME:- MZ02 SERCHHIP TO BUARPUI				(PROJECT-2	
ROAD IN THE STATE OF MIZORAM)					
WORKING SITE THENZAWL TO BUARPUI					
SL.NO.	DATE	CHAINAGE		LENGTH (m)	REMARK'S
		FROM	TO		
1	16-11-2015	12990	13060	70	PART-II
2	16-11-2015	13320	13340	20	PART-II
3	16-11-2015	13450	13490	40	PART-II
4	16-11-2015	13540	13570	30	PART-II
5	16-11-2015	13600	13650	50	PART-II
6	16-11-2015	13760	13780	20	PART-II
7	16-11-2015	13820	13850	30	PART-II
8	16-11-2015	14310	14360	50	PART-II
9	16-11-2015	14390	14460	70	PART-II
10	16-11-2015	14570	14620	50	PART-II
11	16-11-2015	14630	14700	70	PART-II
12	16-11-2015	14900	14950	50	PART-II
13	16-11-2015	15010	15060	50	PART-II
14	16-11-2015	15760	15810	50	PART-II
15	16-11-2015	16260	16300	40	PART-II
16	16-11-2015	16430	16470	40	PART-II
17	16-11-2015	16560	16610	50	PART-II
18	16-11-2015	17580	17710	30	PART-II
19	16-11-2015	18750	18800	50	PART-II



(VADIALZAWNA)

President
Village Council/Court
Thanzawl West & Serchhip District

Annexure -18

Part-II

NO OBJECTION FOR DUMPING AREA					
CONTRACTOR'S NAME :- TANTIA CONSTRUCTIONS LIMITED					
PROJECT NAME:- MZ-02 SERCHHIP TO BUARPUI (PROJECT - 2 ROAD IN THE STATE OF MIZORAM)					
WORKING SITE THENZAWL TO BUARPUI					
S.No.	Date	Chainage		Length	Remarks
		From	To		
1	12/1/2016	14530	14810	180	Part-II
2	12/1/2016	15460	15520	60	Part-II
3	12/1/2016	15660	15710	50	Part-II
4	12/1/2016	15960	16010	50	Part-II
5	12/1/2016	16110	16160	50	Part-II
6	12/1/2016	16710	16760	50	Part-II
7	12/1/2016	17040	17100	60	Part-II
8	12/1/2016	17300	17330	30	Part-II
9	12/1/2016	17520	17550	30	Part-II
10	12/1/2016	17580	17620	40	Part-II
11	12/1/2016	18110	18190	80	Part-II
12	12/1/2016	18270	18300	30	Part-II
13	12/1/2016	19480	19510	30	Part-II
14	12/1/2016	19100	19140	40	Part-II



President
Village Council / Local
Thenzawl West S Serchhip District

Annexure – 19

Part-II

NO OBJECTION DUMPING AREA					
CONTRACTOR :- TANTIA CONSTRUCTION LIMITED					
PROJECT NAME :- MZ02 SERCHHIP TO BUARPUI (PROJECT- 2 ROAD IN THE STATE OF MIZORAM)					
WORKING SITE THENZAWL TO BUARPUI					
No.	Date	Chainage		Length	Remarks
		From	To		
1	16.02.2016	17350	17380	30	PART II
2	16.02.2016	18330	18480	150	PART II
3	16.02.2016	18640	18710	70	PART II
4	16.02.2016	18720	18860	140	PART II
5	16.02.2016	19400	19480	80	PART II
6	16.02.2016	19660	19690	30	PART II
7	16.02.2016	19730	19770	40	PART II
8	16.02.2016	19820	19850	30	PART II
9	16.02.2016	19930	19960	30	PART II
10	16.02.2016	20050	20110	60	PART II
11	16.02.2016	20280	20330	183020 50	PART II
12	16.02.2016	20650	20700	50	PART II
13	16.02.2016	20980	21100	120	PART II


 (VANLALZANTHA)
 President
 Village Council / Court
 Thenzawl West 8 Serchhip Dist.

Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

I DINA s/o Mhung Mawia have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 21+650 to 21+800 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
Village Council / Court
Dated



Acceptance Signature

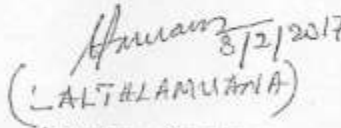
Copy to MSV Consultant TZL
Tantia Constructions, TZL

Date:
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

I Lalthlamuana s/o Sawithanga have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 21+660 to 21+760 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi



(LALTHLAMUANA)
Acceptance Signature

Date:
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

I Re Thang s/o Zalsang have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 22+370 to 22+410 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
President
Village Council / Court
Buarpoi


Acceptance Signature
Vice President
Village Council Court
Buarpoi

Copy to 1) MSV Consultant T2L
2) Tanti's Consultant T2L

Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

I R L Thanga s/o Lakshams have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 24+700 to 24+780 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
President
Village Council / Court
Buarpui


Acceptance Signature
Vice President
Village Council Court
Buarpui

Copy to. 1. Jansia. MSV Consultant T2L
2. Taulia Const. T2L

Date: 09.4.17
Serchhip to Buarpui Road Project

NO OBJECTION FOR DUMPING AREA

I Beak Hmingthanga Tharawa (saler)

Village Buarpui, District Lunglei, Mizoram

have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpui road between Ch. 25+480 to
Ch. 25+540 km of Part-II. Land maybe used as dumping area
purpose.

R. Beak
8/4/17
VCP Signature
(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui

Beak
Acceptance Signature
(J. BEAKHMINGTANGA)

copy to 1) MSN Consultant TRL Utho
2) Tania Consultant Co Ltd TRL Utho

Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

I, RC Thanga s/o Zasodan have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 25+650 to 25+910 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
President
Village Council / Court
Buarpui


Acceptance Signature
Vice President
Village Council Court
Buarpui

Copy to y MSV Consultant T22
of District Council T22

Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

I R.C. Thapa s/o L. S. Thapa have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 25+44 to 26+180 km of Part II. Land maybe used as dumping area
purpose.

[Signature]
VCP Signature
President
Village Council / Court
Buarpui

[Signature] 25/11/17
Acceptance Signature
(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui

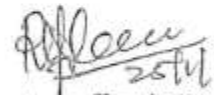
Copy to MSV Consultant TZL
Tantia Constructions, TZL

Date:
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

I R. Thapa s/o L. S. S. S. have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 26+400 to 27+240 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
✓ President
Village Council / Court
Buarpoi


Acceptance Signature
(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi

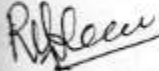
Copy to MSV Consultant TZL
Tantia Constructions, TZL

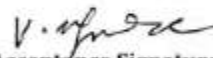
Part-II

Date: _____
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

I, Ngazhama s/o V. Rohiang have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
27+240 to 27+320 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
CHITLANGTHANGA RALTE)
President
Village Council / Court
Buarpui


Acceptance Signature

Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

V. Inguachhanga s/o V. Roliang have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 27+525 to 27+670 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui


Acceptance Signature

Date: 09.4.17
Serchhip to Buarpoi Road Project

NO OBJECTION FOR DUMPING AREA

IC. Ruaitinkhuma s/o pu. Suakchhawma (V)

Village Buarpoi, District Lunglei, Mizoram

have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpoi road between Ch. 27 + 670 to
Ch. 27 + 810 km of Part-II. Land maybe used as dumping area
purpose.

VCP Signature

(JHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi

Acceptance Signature

(RUAITINKHUMA)

Copy to MSV. Consultant T2L 0810
Tantia Consen. Co. T2L 0810

Date: 09.4.17
Serchhip to Buarpui Road Project

NO OBJECTION FOR DUMPING AREA

I C. Rualtinkhuma s/o pa Saak chhawna (+)

Village Buarpui, District Lunglei, Mizoram

have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpui road between Ch. 27 + 840 to
Ch. 29 + 010 km of Part-II. Land maybe used as dumping area
purpose.


VCP Signature 8/4/17
(CHHANTLANGTHANGA RALTE)
President Court
Village Council / Court
Buarpui



Acceptance Signature
(C. RUALTINKHUMA)


Copy to
1 MSV Consultant T22 opia
2 Tania's Consol. Co T22 opia

Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

R. L. Thanga s/o Fasume have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 27+966 to 28+826 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature


Acceptance Signature

(CHHIMTLAN) President
Village Council / Com.
Buarpui

Copy to MSV Consultant TZL
Tantia Constuctions, TZL

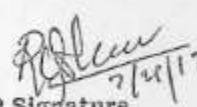
Date: 07.4.17
Serchhip to Buarpoi Road Project

NO OBJECTION FOR DUMPING AREA


I Vanlal Zawna S/o C. Mankima

Village Buarpoi, District Lunglei, Mizoram

have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpoi road between Ch. 28+120 to
Ch. 28+340 km of Part-II. Land maybe used as dumping area
purpose.


VCP Signature

(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi


(VANLALZAWNA)
Acceptance Signature


Copy to 1) msv Consultant T2L
2) Tumbia CONSTR. Co Ltd T2L


Date: 15.3.17
Serchhip to Buarpui Road Project

NO OBJECTION FOR DUMPING AREA

I _____ S/o _____
Village Buarpui, District Lunglei, Mizoram
have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpui road between Ch. 28+340 to
Ch. 28+850 km of Part-II. Land maybe used as dumping area
purpose.

27955 TO 28820


VCP Signature 8/4/17
(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui



Acceptance Signature 8/4/17
(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui

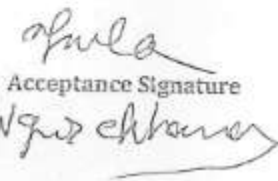
Copy to
1) ansu Consultant Tel office
2) Pantner Constr. Co Tel office

Date: 29.4.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

I Ngaz chhona/o Koliang have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 29+070 to 29+390 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi


Acceptance Signature
Ngaz chhona

Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

I Chhimglanghanga s/o Tasianna have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 29+390 to 31+500 km of Part II. Land maybe used as dumping area
purpose.

[Signature]
VCP Signature
President
Village Council / Court
Buarpui

[Signature] 25/11/17
Acceptance Signature
(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui

Copy to MSV Consultant TZL
Tantia Constructions, TZL

Date:
Serchhip to Buarpui Road Project

NO OBJECTION FOR DUMPING AREA

I pu Sengbuanga S/o Zeka
Village Buarpui, District Lunglei, Mizoram

have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpui road between Ch. 30+530 to
Ch. 30+380 km of Part-II. Land maybe used as dumping area
purpose.



VCP Signature

Village Council / Coord




Acceptance Signature




Date: 07.5.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

Deithawin s/o Rotlung have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
30+860 to 30+920 km of Part II. Land maybe used as dumping area
purpose.


President
Village Council/Court,
Buarpoi



Acceptance Signature

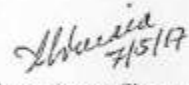
C.C to
1. MSV Consultants Pvt
2. Panties Co. Ltd Pvt

Date: 07.05.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

ipethawien/o Kollung have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 30+940 to 31+110 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature


Acceptance Signature


President
Village Council/VCourt,
Buarpoi

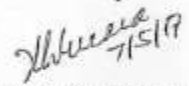
Cc to
1) MSV Consultants Pte
2) Buarpoi Council, Ad Pte

Date: 04.05.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

per Hamin s/o Rothlung have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch 31+170 to 31+420 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature
President
Village Council/Court,
Buarpoi


Acceptance Signature

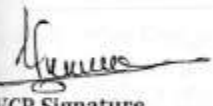
c.c to 1) MSU Consultant PZL
2) Pamela Co. Ltd

Other
PZL come


Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

I Re. Thanga s/o Zacume have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 31+450 to 31+460 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature

✓ President
Village Council / Court
Buarpui


Acceptance Signature

(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui

Copy to MSV Consultant TZL
Tantia Constructions, TZL

Date: 07.4.17
Serchhip to Buarpui Road Project

NO OBJECTION FOR DUMPING AREA

I PIU Thangliana S/o PIU Lal Kana

Village Buarpui, District Lunglei, Mizoram

have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpui road between Ch. 31 + 560 to
Ch. 31 + 700 km of Part-II. Land maybe used as dumping area
purpose.

VCP Signature

(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui

Acceptance Signature

(THANGLIANA)

Copy to

1 MSV Consultants The other
2 Pambis Consors Co Ltd The other

Part II

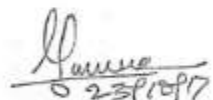
Date: 22.10.17
Serchhip to Buarpoi Road Project

NO OBJECTION FOR DUMPING AREA


I C. Chong Zika s/o Ngaz chhuama (Late)

Village Buarpoi, District Lunglei, Mizoram

have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpoi road between Ch. 31+790 to
Ch. 31+910 km of Part- . Land maybe used as dumping area
purpose.


(C. LALTHANTHUNAW)
VCP Signature

✓ President
Village Council / Court
Buarpoi


(C. CHAWNGZIKA)
Acceptance Signature

Copy to MSU TEL
TEL TEL

Date: 08.08.17
Serchhip to Buarpui Road Project


NO OBJECTION CERTIFICATE

I V.C. Lands/o_____ have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 33+160 to 33+220 km of Part II. Land maybe used as dumping area
purpose.


(H. LALOUHAMA)

VCP Signature

President
Village Council
Khawlek


(H. LALOUHAMA)

Acceptance Signature

Date: 09.03.17
Serchhip to Buarpui Road Project


NO OBJECTION CERTIFICATE

I C. Lal Ramhlwana s/o Chalthuama

Have no objection with Mizoram PWD (PIU). PWD Mizoram for the construction of the Serchhip to Buarpui Road between Ch 33+330 to 33+410 km of part -II. Land maybe used as a dumping area purpose.


(H. LALDUHAMMA)
President
V.C. Village Council / Court
~~Signature~~ Signature

4.3.17



(C. LALRAMHLWANA)
Acceptance Signature

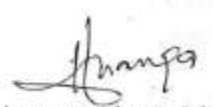

President
Village Council / Court
Khawlek 'S'

Date: 08.08.17
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

H Rang Nghihlhl^{SVA}/Opaptlai have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 33+410 to 33+475 km of Part II. Land maybe used as dumping area
purpose.



(H. LALDUHAMA)
VCP Signature
President
Village Council / Court
Khawlek 'S'

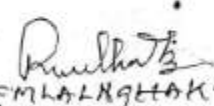

(H. RANG NGHILHL)
Acceptance Signature

Date: 08.08.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

Rem Lal Ngtahka s/o Chaltmang Thanga have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 33+475 to 33+500 km of Part II. Land maybe used as dumping area
purpose.


(H. LAL NGTAKA)
VCP Signature
President
Village Council / Court
Khawlek 'S'


(REMLALNGTAKA)
Acceptance Signature

Date: 07.08.17
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

J. Lal L. Songliana / o. Shanzua have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 33+500 to 33+580 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature


(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpui


Acceptance Signature

Part-II

Date:
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

I R.C. Thanga s/o Koriamu have no objection with Mizoram PWD (PIU).

PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 33+682 to 33+729 km of Part II. Land maybe used as dumping area
purpose.

[Signature]
VCP Signature

✓ President
Village Council / Court
Buarpoi

[Signature]
Acceptance Signature


(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi

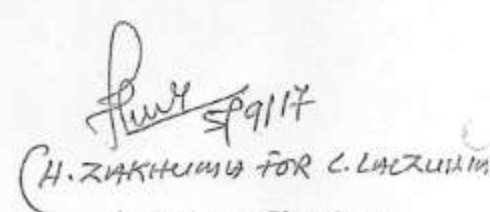
Copy to MSV Consultant TZL
Tantia Constructions, TZL

Date:
Serchhip to Buarpui Road Project

NO OBJECTION FOR DUMPING AREA

I C. Lalzuihian s/o Suakchhauing (L)
Village Buarpui, District Lunglei, Mizoram
have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpui road between Ch. 33+780 to
Ch. 33+870 km of Part-II. Land maybe used as dumping area
purpose.


(C. LALZUIHIAN)
VCP Signature
✓ President
Village Council / Court
Buarpui


(H. ZAKHUM FOR C. LALZUIHIAN)
Acceptance Signature

Date:
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

I P. L. Thanga s/o P. L. Thanga have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 33+99.5 to 34+00.5 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature

✓ President
Village Council / Court
Buarpui


Acceptance Signature

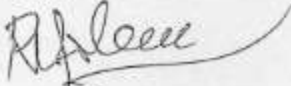
(CHHIMTLANGTHANGA RALTE)
President
Village Council / Court
Buarpui


Copy to MSV Consultant TZL
Tantia Constructions, TZL

Date: 07.08.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

I, Roizama s/o Raohliu have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 33+950 to 34+020 km of Part II. Land maybe used as dumping area
purpose.

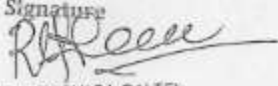
VCP Signature

(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi

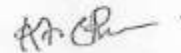

Acceptance Signature

Date: 07.08.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

K.T. Chawngkomaus / Chawngphunga have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 34+020 to 34+050 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature

(CHHIMLANGTRANGA RALTE)
President
Village Council / Court
Buarpoi


Acceptance Signature

Date: 07.08.14
Serchhip to Buarpoi Road Project


NO OBJECTION CERTIFICATE

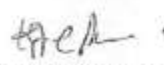
K.T. Chang Ramaisins / Othenshunga have no objection with Mizoram PWD (PIU).

PWD Mizoram for the construction of the Serchhip to Buarpoi Road between

Ch: 34+100 to 34+130 km of Part II. Land maybe used as dumping area purpose.

VCP Signature


(CHHITLANDHAR) (S.L.C.)
President
Village Council / Court
Buarpoi


Acceptance Signature

Date: 07.08.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

H. Zakhuma / Orawahung have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 34+210 to 34+285 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature

(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi

(H. Zakhuma)
Acceptance Signature

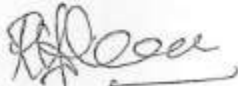
Date: 07.08.17
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

Lal Engzawa s/o Chongding Liama have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 34+325 to 34+425 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature

Acceptance Signature


(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpui

Date: 08.08.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

T.C. Lal Engzama s/o Peak Sanga have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 34+600 to 34+720 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature


(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi

(T.C. LALENGZAMA)
Acceptance Signature

Date: 08.08.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

T.C Lal Engzama s/o Biak Sanga have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 34+760 to 34+870 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature

(CHHIMLANGTHANGA RALTE)
President
Village Council / Court

(T.C. LALENG ZANA)
Acceptance Signature

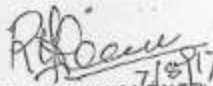
Date: 07.08.17
Serchhip to Buarpoi Road Project


NO OBJECTION CERTIFICATE

I V.C. Land s/o _____ have no objection with Mizoram PWD (PIU).
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 34+920 to 34+995 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature

Acceptance Signature



(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi



7/8/17

Date: 07.08.17
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

R. Hangmauis/okolvela have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 34+990 to 35+130 km of Part II. Land maybe used as dumping area
purpose.


VCP Signature

(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpoi


Acceptance Signature

Date: 07.08.17
Serchhip to Buarpui Road Project

NO OBJECTION CERTIFICATE

IC. Rawmaung/o Rawmgura have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpui Road between
Ch: 35+100 to 35+170 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature

(CHHIMLANGTHANGA RALTE)
President
Village Council / Court
Buarpui

Acceptance Signature


NO OBJECTION CERTIFICATE

[Signature]
6-9-17
(C. W. H. T. H. & T. H. H. H.)
VCP Signature
V-President
Village Council / Court
Boripal

2/9/17
C.R. Houshiazadeh
Acceptance Signature

Date:
Serchhip to Buarpoi Road Project

NO OBJECTION CERTIFICATE

IC. Raltawms/o Saihiam have no objection with Mizoram PWD (PIU),
PWD Mizoram for the construction of the Serchhip to Buarpoi Road between
Ch: 35+340 to 35+490 km of Part II. Land maybe used as dumping area
purpose.

VCP Signature

C. Raltawms
Acceptance Signature

7/8/17
(CHHINTUNGTHANGA RALTE)
President
Village Council / Court
Buarpoi

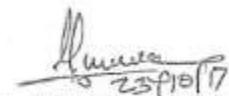
Date: 23.10.17
Serchhip to Buarpui Road Project

NO OBJECTION FOR DUMPING AREA

I Thansiam s/o Kawh Nela (late)

Village Buarpui, District Lunglei, Mizoram


have no objection with Mizoram PWD (PIU) for the construction of
Serchhip to Buarpui road between Ch. 36 + 210 to
Ch. 36 + 265 km of Part-II. Land maybe used as dumping area
purpose.


(C. L. ACTHON THERMUN)
VCP Signature
✓ President
Village Council / Court
Buarpui


Acceptance Signature
THANSIAM

Copy to :- MSV, T2L
TCL, T2L

Annexure 65: Approval of Gabion design for protection of dumping yard by CSC (sample)

 **MSV International, Inc.,**
D-7, South City, I
Gurgaon - 122001,
Haryana, India
E-mail: info@msvgroup.com
Tel: 0091 - 124 - 4002603, 04
Fax: 0091 - 124 - 4002605

Project Office- THENZAWL,
MSV International, Inc.,
Vengthlang, Thensawl
Mizoram
Tel: 0091 - 388 - 261212, 261281

ISO 9001: 2008

Ref: MSV/CSC-RE/MZ02/2016/69 Date: 29/11/2016

The Project Manager
Tantia Construction Limited
MZ02 Road Project,
Thenzawl, Mizoram

Subject : Regarding Approval of working drawing of Gabion wall for Disposal of excavated soil in section I.

Your letter no.TCL/TZL/ADB - PWD/2016 - 17/19 dated 26/11/2016.

Dear Sir


With reference to your letter above this is to inform you that Proposal of working drawing for Gabion wall submitted by you are hereby approved as mention above the Km. So that you can start the work of Gabion wall without any delay.

1. 1+734 KM to 1+784 (50.00 mtrs) (2 layer)
2. 4+222 KM to 4+242 (20.00 mtrs) (2 layer)
3. 6+940 KM to 6+990 (50.00 mtrs) (3 layer)

For Kind your information and immediate action please.

Enclosed copy of approved working drawing for Gabion wall = 03 nos.


Thanking you
With best regards


Resident Engineer
MSV International Inc.,
Thenzawl, Mizoram

Dewanshu Kumar
Resident Engineer
Road Project (MZ02)

Copy to:

1. Project Director PIU MZ02 Road project for information
2. The Team leader MSV International Inc.
3. Pushkar Malik, Director—cum- group vice president (Engineer) of MSV.


Received
Pushkar
29/11/16

11101, NE 60th Street, Kirkland, Washington-980337528, U.S.A. Telefax : 001-425-488-4477
Email: info@msvgroup.com, Website: www.msvgroup.com

NAME _____

PROPOSED ARRANGEMENT OF GARDEN WALL AT THE TOP
EXTENSION FROM CH - 1+734 TO 1+784 (SECTION AND TOP LAYER) (PART-1)



Good for Construction

NOTE:-
1. LENGTH OF EACH LAYER MAY VARY AS PER SIDE CONDITION.
2. ALL DIMENSION IN MM

PROJECT:-
IMPROVEMENT & UPGRADATION OF SERCHIP TO BUARFUI ROAD (MZ02)
(PROJECT-2 ROAD IN THE STATE OF MIZORAM)
CONTRACT AGREEMENT NO. PII/NESRIP/MZ02/CN/2014/3

CLIENT:-

PUBLIC WORKS DEPARTMENT
AIZAWL, MIZORAM

CONSULTANT:-

MSV INTERNATIONAL INC
D-7, SOUTH CITY-1
GURGAON-121001
HARYANA, INDIA

CONTRACTOR:-

TANTIA CONSTRUCTIONS LTD.
D-30, SECTOR-1,
SALT LAKE CITY,
KOLKATA-700041, INDIA

DRAWING TITLE:-

WORKING DRAWING FOR GARDEN WALL AT CHINMAGE 1+734 KM TO
1+784 KM (50m) (PART-1).

SHEET:- 1 OF 1

DATE:-

REVISION:-

DRAWING NO.

TEL/N/02/CN/1



PLAN SHOWING THE LOCATION OF GARDEN WALL



ISO 9001: 2008

MSV International, Inc.,
D-7, South City-1
Gurgaon - 122001,
Haryana, India
E-mail: info@msvgroup.com
Tel: 0091 - 124 - 4002603, 04
Fax: 0091 - 124 - 4002605

Project Office-Thenzawl,
MSV International, Inc.
Vengthlang, Thenzawl,
Mizoram
Tel: 0091 - 3838 - 261212, 261261

Ref: MSV/CSC-RE/MZ02/2017/ 206

Dates: 23/09 /2017

The Team Leader
MZ-02 Road Project
MSV International Inc.
Aizawl, Mizoram

Name of WORK: Improvement and up gradation of Road section "Serchhip - Buarpoi MZ02
(Project - 2 roads in the state of Mizoram) MZ—CW2 (R) Contract agreement NO
PIU/NESRIP/MZ02/CW/2014/03/12/2014

Subject : Request for Approval of working drawing of Gabion wall for the
protection of Dumping Area.

Dear Sir

With reference to above cited subject , this is to inform you that proposal of working drawing of Gabion
wall for protection of dumping area in Section - I from 4+960 km to 5+000 km (40 mtr. Length) and in
section - II from 18+100 km to 18+130 km (30 mtr. length) has been checked and verified these location.

Sl. No	Contractor's Letter No.	Chainage	Length	Section
1	TCL/TZL/ADB-PWD/2017-18/113	4+960 to 5+000	40 mtr	Sec. - I
2	TCL/TZL/ADB-PWD/2017-18/111	18+100 to 18+130	30 mtr.	Sect. - II

Here we are submitting our recommendation to you for your final reviewing and observation.

Enclosure : Drawing of Gabion wall of section - I and Section - II.

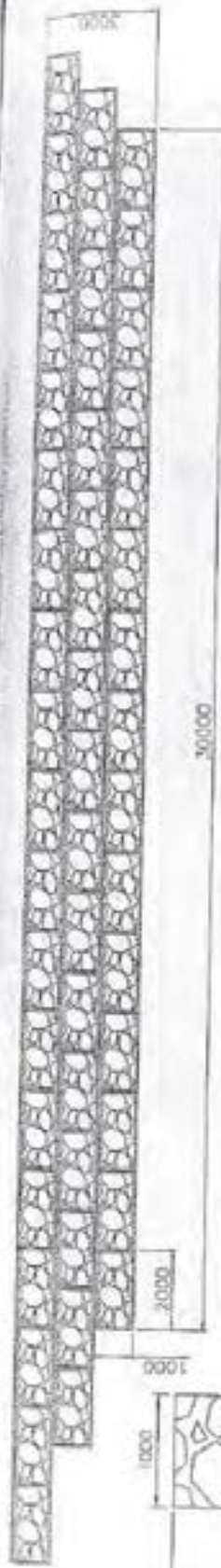
Thanking You
With best regards

Abhishek Chourasia
Acting Resident Engineer / Quantity Surveyor
MZ02 Project,
Thenzawl, Mizoram

Copy to :

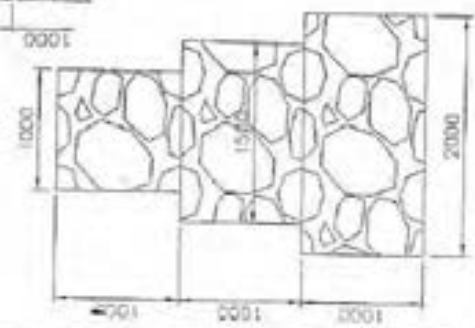
1. Project Manager , Tania Construction Ltd. (for information only)
2. office copy

AZI Office V	132 KV Line
KOL Office	TZL-ADB
KOL A/C Ted	S.C. BIDD
WS	NTI
SHW	
NGOPA	



SIDE VIEW
NOT TO SCALE

NOTE:-
1. LENGTH OF EACH LAYER MAY VARY AS PER SITE CONDITION.
2. ALL DIMENSION IN MM



DETAIL OF GABION WALL
SCALE 1:50



PLAN SHOWING THE LOCATION OF GABION WALL

PROJECT:- IMPROVEMENT & UPGRADATION OF SERCHIP TO BURJUPU ROAD (M203) (PROJECT-2 ROAD IN THE STATE OF MIZORAM) CONTRACT AGREEMENT NO. PIU/MESRP/M202/CN/2014/3		CLIENT:- PUBLIC WORKS DEPARTMENT AIZAWL MIZORAM	
CONSULTANT:- MSV INTERNATIONAL INC D-7, SOUTH CITY-1 GURGAON-122001 HARYANA, INDIA		CONTRACTOR:- TANTIA CONSTRUCTIONS LTD. DQ-30, SECTOR-1, SALT LAKE CITY, KOLKATA-700401, INDIA	
DRAWING TITLE:- WORKING DRAWING FOR GABION WALL AT CHANSE 18+100 KM TO 18+150 KM (OVERS)		DRAWING NO. TSL/M2-02/P-11/CN-13	
SHEET:- 1 OF 1		DATE:- REVISION:-	
SCALE:- 1:50		T.L.	

Annexure 66: Copy of Forest Clearance

GOVERNMENT OF MIZORAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS
MIZORAM::AIZAWL

No.B.22013/3/2011-FC/PCCF/278

Dated Aizawl the // th Dec., 2013.

To,

The Chief Engineer,
PWD, Roads,
Tuikhualtlang,
Aizawl, Mizoram.

Sub: Proposal for diversion of 0.9963 ha. of Forest Land for Upgradation and Improvement of Serchhip-Buarpui Road by Mizoram PWD.

Sir,

Please find enclosed a copy of the Ministry's letter No.3-MZ B 107/2013-SHI/3656-57 dt.20.11.2013 conveying "In-Principle Approval" for diversion of 0.9963 ha. of forest land for upgradation and improvement of Serchhip-Buarpui road by Mizoram PWD, received from the Ministry of Environment & Forests, Regional Office, Shillong. In this connection, you are requested to fulfill the following conditions:

- (i) To pay ~~Rs.73,920/-~~ (Rupees seventy three thousand nine hundred twenty) only to the Principal Chief Conservator of Forests, Environment & Forests Department, Mizoram, preferably by cheque towards the cost of Compensatory Afforestation over double the area diverted i.e. over 2.0 ha of degraded forest land..
- (ii) To pay Net Present Value (NPV) of forest land diverted i.e. ~~Rs.7,27,299/-~~ (Rupees seven lakh twenty seven thousand two hundred ninety nine) only to the Principal Chief Conservator of Forests, Environment & Forests Department, Mizoram, preferably by cheque, as per the Judgment of the Hon'ble Supreme Court of India dt.28.03.2008, 24.04.2008 & 09.05.2008 in Writ Petition (C) No.202/1995 and as per the guidelines issued by the Ministry vide its letter no. 5-3/2007-FCdt.05.02.2009 in this regard.
- (iii) To pay ~~Rs.2,500/-~~ (Rupees two thousand five hundred) only to the Division Forest Officer, Thenzawl Forest Division, towards the cost of extraction of project affected trees for 20.18 cft. @ Rs.50/cft. and 300 culms of bamboo @ Rs. 5/culm.
- (iv) To furnish an undertaking to pay the additional NPV of the diverted forest land, if any, becoming due after finalization/revision of the same by the Hon'ble Supreme Court of India.

- (v) To demarcate the land proposed for diversion on the ground by erecting at least 4" high cement-concrete pillars duly numbered, forward and backward bearing and distance from pillar to pillar written on the pillars at project cost.

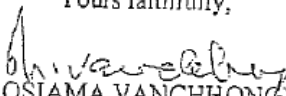
The grand total amount of (i)+(ii)+(iii) = Rs.(73,920 +7,27,299 +2,500)/-
= ~~Rs.80,699/-~~

(Rupees eight lakh three thousand seven hundred nineteen) only.

In order to obtain final approval from the Central Govt., the above mentioned conditions have to be fulfilled from your end and compliance report have to be submitted to the undersigned at an early date.

Encl: As above.

Yours faithfully,



(ROSIAMA VANCHHONG)

Addl. Principal Chief Conservator of Forests & NO (FCA).
Mizoram, Aizawl.

No.B.22013/3/2011-FC/PCCF/278
Copy to:

Dated Aizawl the 11 th Dec., 2013.

1. The Conservator of Forests (CC). for information.
2. The Divisional Forest Officer. Thenzawl Forest Division for information.


(ROSIAMA VANCHHONG)

Addl. Principal Chief Conservator of Forests & NO (FCA).
Mizoram, Aizawl.

Office of the P.C.F. Mizoram

Issued 585

Date 11/12/13

By [Signature]



GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
NORTH EASTERN REGIONAL OFFICE
LAW-U-SIB, LUMBATNGEN
NEAR M.T.C. WORKSHOP, SHILLONG-793021
PHONE NO: 0364-2537609
FAX NO: 0364-2536041
GRAM: PARYAVARAN, SHILLONG.
Email: moefshil_09@rediffmail.com

(290)

4/7/14
FCR

No. 3-MZ B 107/2013-SHI 702-03

21 June, 2014
26

To

The Principal Secretary
Environment and Forests Department,
Government of Mizoram,
Aizawl

APCCF

4/7

Sub: Proposal for diversion of 0.9963 ha of forest land for upgradation and improvement of Serchhip-Buarpui road by Mizoram PWD.

Sir,

This has reference to the State Govt letter No.G.20015/13/2013-FST dated 27.02.2013 of Govt of Mizoram on the subject mentioned above, seeking prior approval of the Central Government in accordance with Section 2 of the FCA, 1980.

After careful consideration of the proposal, In-principle approval was granted vide this office letter of even number dated 20.11.2013 subject to fulfillment of certain conditions. The State Government has furnished compliance report in respect of the conditions stipulated in the in-principle approval and has requested the Central Government to grant final approval.

In this connection and on the basis of the compliance report furnished by the State Government vide letter No.G.20013/3/201/PCCF/286 dated 25.03.2014 of Govt of Mizoram and confirmation of Ad-hoc CAMPA, New Delhi letter No 1-24/2013-CAMPA dated 31.03.2014, 'Final Approval' of the Central Government is hereby granted under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 0.9963 ha of forest land for upgradation and improvement of Serchhip-Buarpui road by Mizoram PWD subject to the following conditions :

- (1) The legal status of the forest land shall remain unchanged.
- (2) Compensatory afforestation shall be raised and maintained over 2.0 ha of degraded forest land identified in Tlawng RPF at Tuinhial chhuah with the State Forest department.
- (3) Permanent demarcation of forest land proposed for diversion shall be done on the ground at project cost before handing over the forest land to the User Agency.
- (4) The forest land shall not be used for any purpose other than that specified in the proposal.
- (5) The User Agency shall not expand its occupation or use surrounding forest/forest land in any manner otherwise expressed in this clearance.
- (6) Land so diverted shall revert back to the Forest Department in case it is not needed for the above use after due restoration to its original status (as far as possible and to the satisfaction of state Forest Deptt.).
- (7) The User Agency shall take all possible precautions & care all the time not to impact adversely the surrounding forests and forest land by their actions/activities.
- (8) The user agency will undertake comprehensive soil and water conservation measures at the project cost.
- (9) Overburden shall not be dumped outside the width of the road. The muck generated in the earth cutting will be disposed off at the designated dumping sites and in no case the muck/debris will be allowed to roll down the hill slopes.

4/7/14
DA

2661

4/7/14

- (10) Wherever possible and technically feasible, the user agency shall undertake afforestation measures along the road within the area diverted under this approval, in consultation with the State Forest Department at the project cost.
- (11) Tree felling shall be done only when absolutely unavoidable and such removal, if any, shall be done under the supervision of the Forest Department.
- (12) No damage to the flora fauna of the area shall be caused.
- (13) No labour camp shall be established inside the forest area.
- (14) The user agency shall provide fuel wood preferably alternate fuel to the labourers working at the site to avoid damage/felling of trees or buy the fuel wood from the extracted timber from the Forest Department to be used by labourers.
- (15) The muck dumping area shall be stabilized and plantation of suitable species shall be carried out over stabilized dumps on the cost of the user agency under the supervision of State Forest Department.
- (16) The designing of culverts/ bridges, if any, over the natural streams/rivers/canals should be done in such a manner that it does not hamper the natural course of the water, does not give rise to water logging and also does not hamper the movement of the wild animals.
- (17) All the site specific engineering structures like retaining walls, breast wall and drainage shall be constructed to avoid any soil erosion and slope stability of the concerned hills.
- (18) The user agency shall obtain the Environment Clearance under Environment (Protection) Act, 1986, if applicable.
- (19) The user agency will have to obtain the Forest Conservation) Act, 1980 clearance for removal, if any, of the stone, river sand, river boulders in forest land.
- (20) The proposal will be implemented under the overall supervision of the concerned Divisional Forest Officer.
- (21) In case of any violation of the stipulated conditions immediate action is to be taken by the Forest Department as per Ministry's letter No 5-5/86/FC dated 07.12.1999 and this office letter No 2-1-51/2004/RONE/Vol II/3181-02 dated 28.12.2006.
- (22) The layout plan shall not be changed without the prior approval of the Central Government.
- (23) All other clearances / NOCs under different rules / regulations / local laws and under Forest Dwellers (Recognition of Forest Rights) Act, 2006 as required vide MoEF, New Delhi guideline No. 11-9/1998-FC(Pt) dated 03.08.2009 shall be complied with.
- (24) Any other conditions as may be found appropriate in future for the betterment of environment & wildlife, may be imposed by North Eastern Regional Office, MoEF, Shillong.
- (25) This approval may be revoked if the above conditions of approval are not complied to the satisfaction of the North Eastern Regional Office, Shillong.

Yours faithfully,

(R.L. Sanga)
Conservator of Forests(C)

Copy to:

1. The Principal Chief Conservator of Forests & HoFF, Govt. of Mizoram, Environment and Forests Department, Aizawl.

R.L. Sanga 26/6/14
(R.L. Sanga)
Conservator of Forests(C)

Annexure 67: Copy of deposition of Compensatory Afforestation amount to Forest Department.

FORM-II
CHEQUE ADVICE
(For works/supply, etc)

DDO CODE No. 145027

(20)

To

The Treasury Officer,
Aizawl South Treasury.

Please pay a sum of Rs. **8,03,719.00** (Rupees eight lakh three thousand seven hundred nineteen) only to **Principal Chief Conservator of Forest, Mizoram, Aizawl** whose signature is attested.

Gross Amount of Cheque	:	Rs. 8,03,719.00
DEDUCTION		
1. Security	:	Rs. NIL
2. Others/TDS	:	Rs. NIL.00
Total of deduction	:	Rs. NIL
Net amount payable	:	Rs. 8,03,719.00

Particulars and purpose of payment-

1. Name of works : Impvt. & Upgradation of Serchhip-Buarpui Road
(Sh.: Forest Clearance)
2. Sanctioned estimated Amount as per A/A : Rs. 167,90,00,000.00
3. Progressive expenditure against estimated amount as per A/A including this bill : Rs. 8,03,719.00
4. Expenditure sanction for this work during the current financial year : Rs. 8,29,000.00
5. Progressive expenditure against E/S at 4 above including this bill. : Rs. 8,03,719.00

Cheque No : **D 489622/004897**

Date: **25.12.2013**

Head of Account: **3054 R&B (NP) 04/800(01)(27)- Minor Works**

Budget Provision:

Sanctioning order of competent authority :No. G. 20011/2012/AC-CE(R)/ES/183 'A' dated **5.12.2013**.

(Copy of sanction order attached herewith)

Signature of Cheque Holder

Attested

Name of D.D.O.

Executive Engineer (Proc.), PWD
Project Implementation Unit
Chief Engineer (Roads) Office
Mizoram, Aizawl

Executive Engineer (Proc.), PWD
Project Implementation Unit
Chief Engineer (Roads) Office
Mizoram, Aizawl

STATE BANK OF INDIA _____ for payment

TREASURY OFFICER
AIZAWL'S

Annexure 68: Attendance sheet of public consultations

Attendance Sheet

Public Consultation Held on 02.06.2017

Location/ name of village: Buarpui

Sl No	Name	Signature
1	SUBHANKAR BARUI	<i>S Barui</i>
2	SARFARAJ	<i>Sarfaj</i>
3	J.MANGA	<i>J. Manga</i>
4	PC LALHRIATPUIA	<i>PC</i>
5	PC THANKHUMA	<i>PC Thanguma</i>
6	LALRAMMUANA	<i>Lal R. Muan</i>
7	C.LALBIAKA	<i>C. Lal</i>
8	SANGNEIHTHANGA	<i>Sam Thangye</i>

Attendance Sheet

Public Consultation Held on 28.05.2018

Location/ name of village: Sailam

Sl No	Name	Signature
1.	SUBHANKAR BARUI	<i>Subankar</i>
2.	SARFARAJ	<i>Sarfaj</i>
3.	NOREN BARMAN	<i>Noren Barman</i>
4.	V.L THARA	<i>V.L. Thara</i>
5.	HRANGKAPTHANGA	<i>H. Thanga</i>
6.	LALHMUAKLIANA	<i>L. Muakliana</i>
7.	ZORINSANGA	<i>Z. Sanga</i>

Attendance Sheet

Public Consultation Held on 02.03.2018

Location/ name of village: Thenzawl

Sl No	Name	Signature
1.	TAPAS GHOSH	
2.	SUBBIR SARKAR	
3.	KUNAL GHOSH	
4.	ROSIAMLIANA	
5.	LALTHAKIMA	
6.	B.LALFAZUALA	
7.	MICKY LALLAWMPUIA	
8.	PC LALHRIATPUA	
9.	VUNGA	
10.	R.K.LALHMACHHUANA	
11.	R.K.THANLIANA	
12.	VANLALPEKA	

Attendance Sheet

Public Consultation Held on 07.07.2018

Location/ name of village: Khawlek

Sl No	Name	Signature
1.	MUKESH KUMAR	
2.	BRNU ROY	
3.	JOSHUA LALRINNGHETA	
4.	G.ZAWMLIANA	
5.	SUCHIANG	
6.	RINTLUANGA	
7.	LALRINSIAMA	

Attendance Sheet

Public Consultation Held on 11.12.2019

Location/ name of village: Buarpu

Sl No	Name	Signature
1.	MUKESH KUMAR	
2.	KK GOPI	
3.	VL BUANGA CHUNGLAI	
4.	LALROSANGA SAILO	
5.	KOMENA	
6.	MIKJOS	

Attendance Sheet

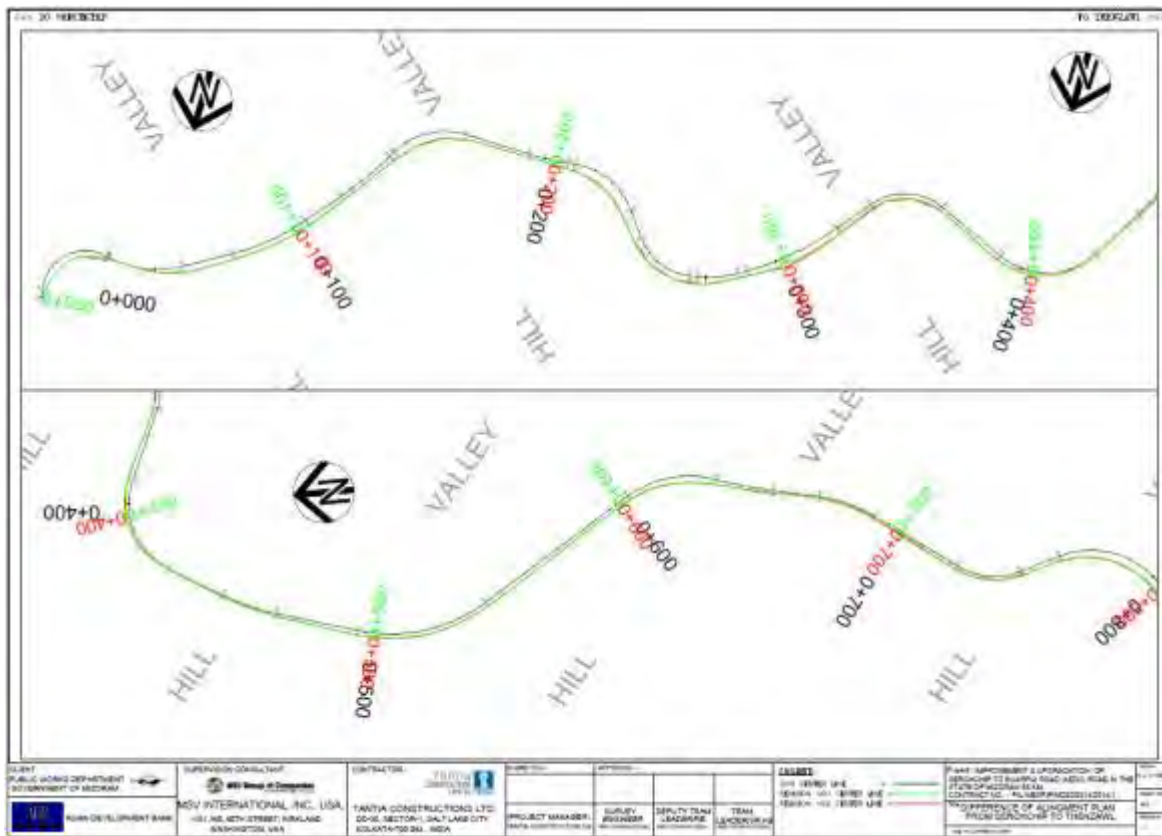
Public Consultation Held on 20.03.2020

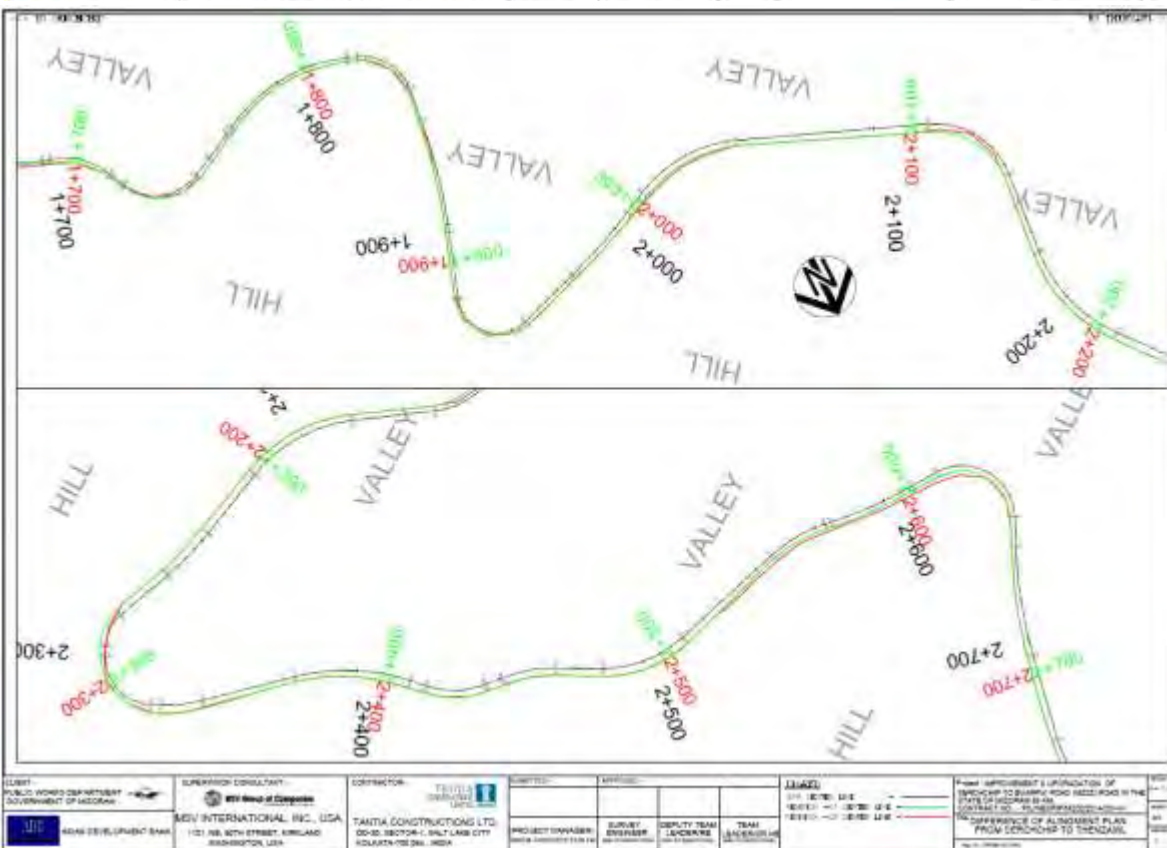
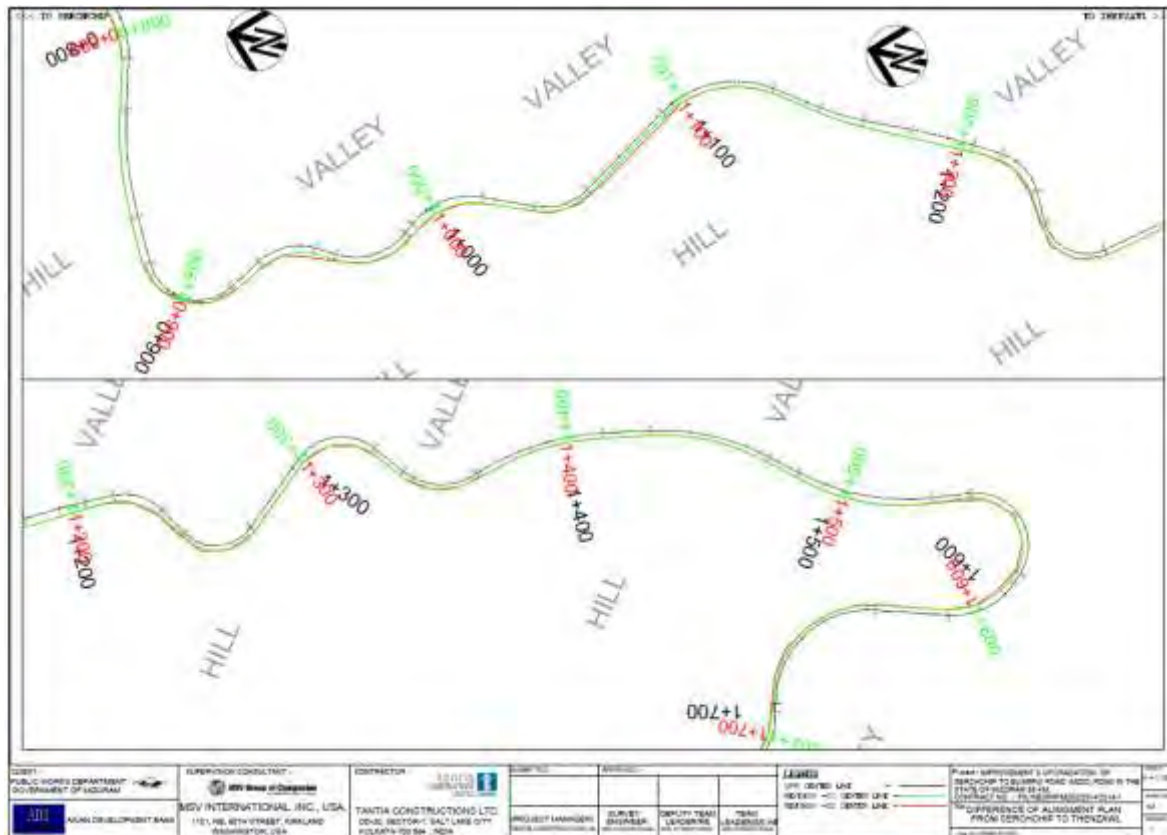
Location/ name of village: New Khawlek

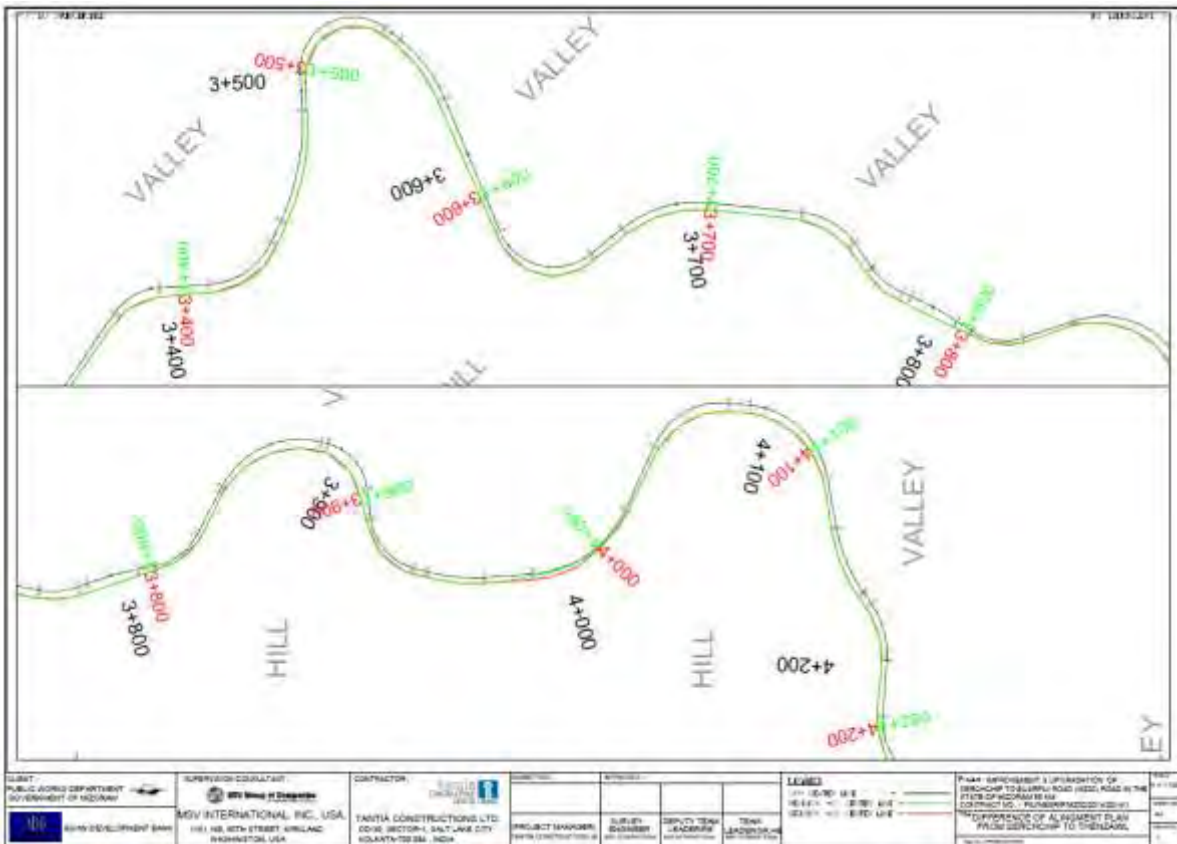
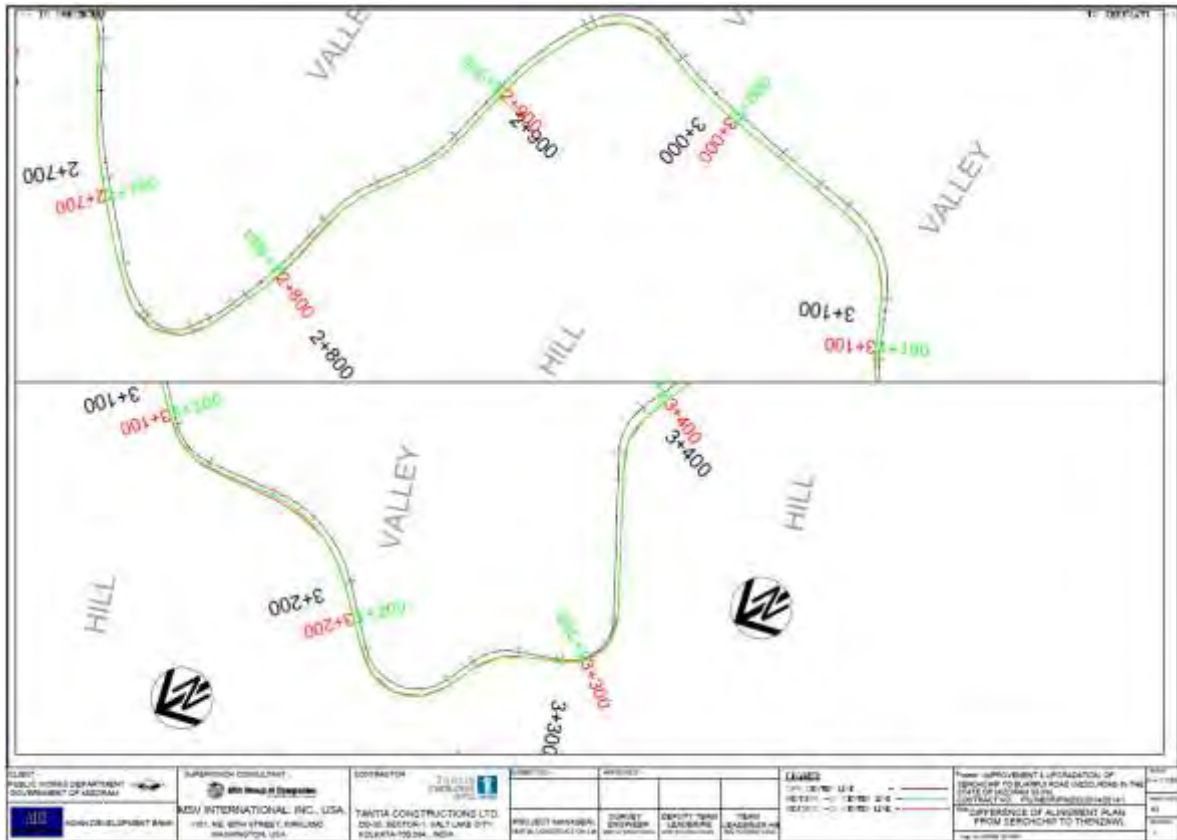
Sl No	Name	Signature
1.	SURFARAJ	
2.	THANGKHUMA	
3.	MIK JOSH	
4.	LALMUKA	
5.	LALZAWNA	
6.	C.ROTLUANGA	
7.	ROTLUANGLIAN	
8.	LALBIAKKIMA	

Annexure -A

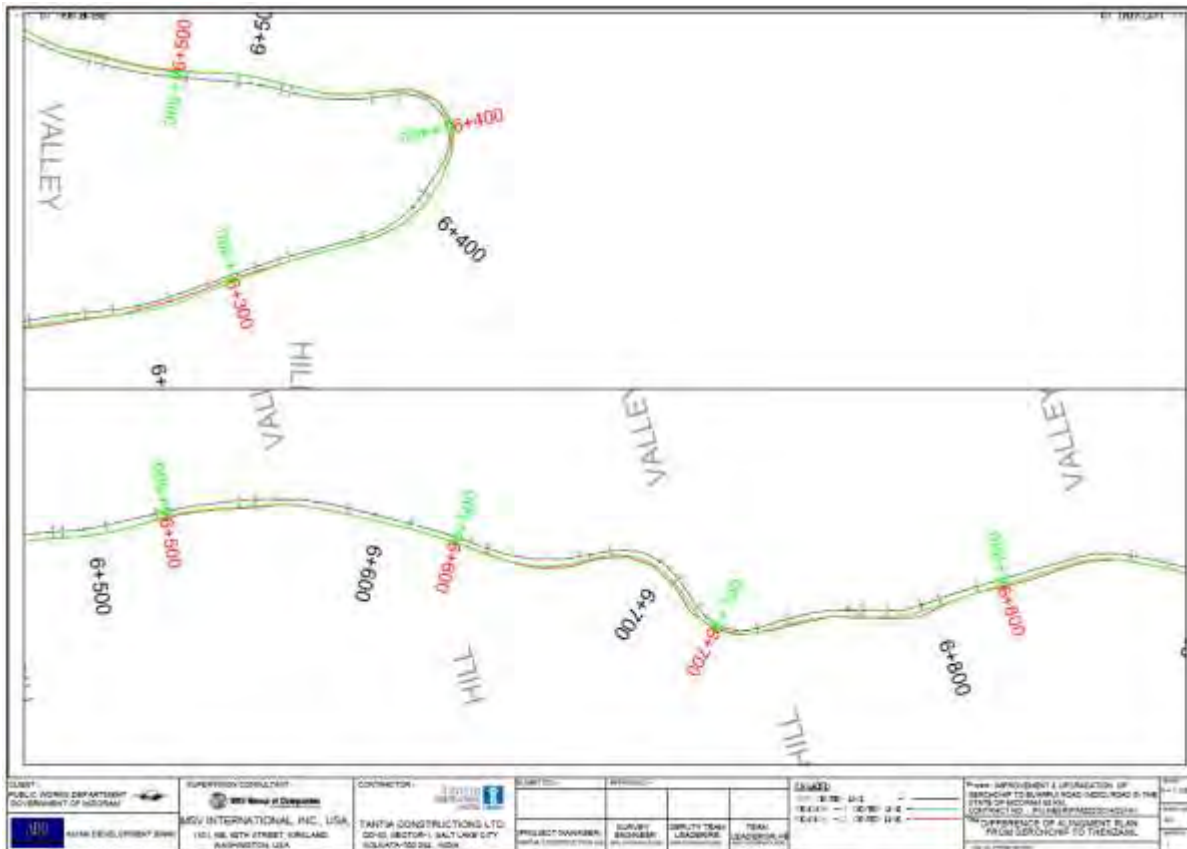
Map : As per revised alignment – Part I (Ch: 0+000 to 15+080)

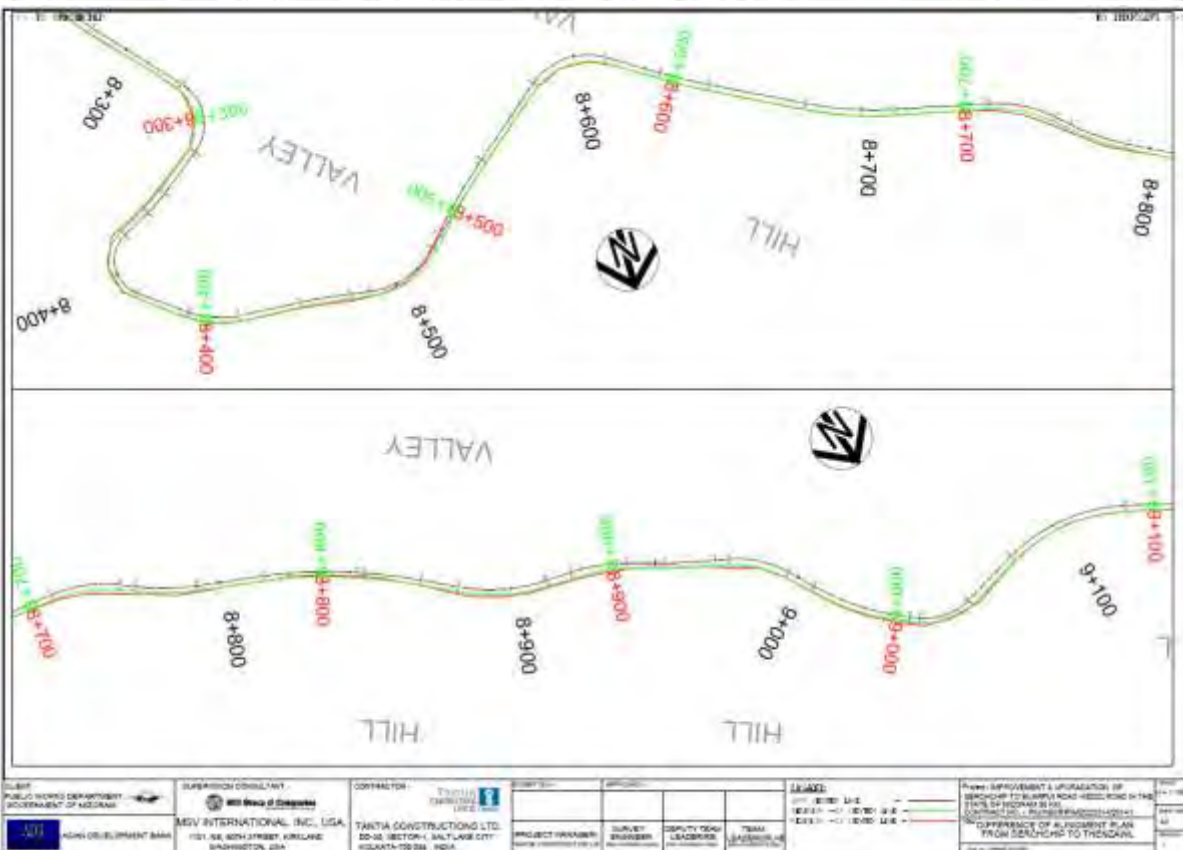


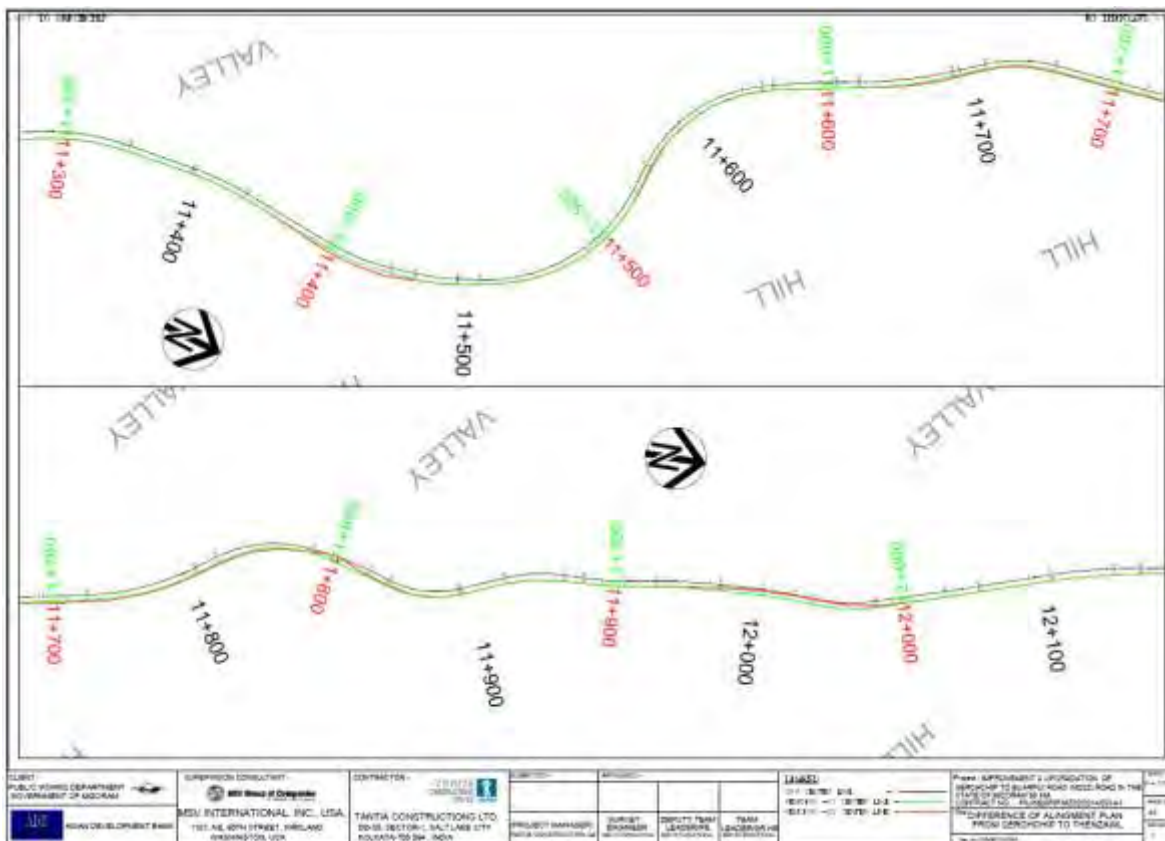
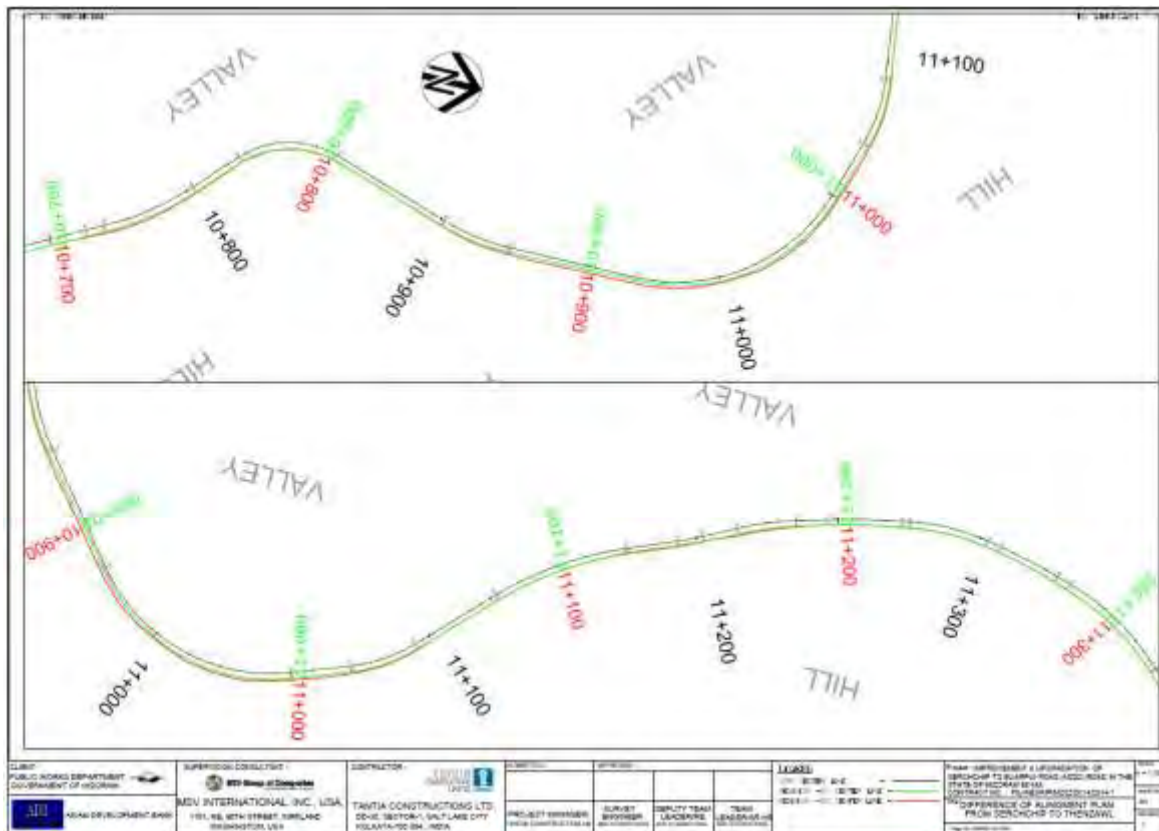


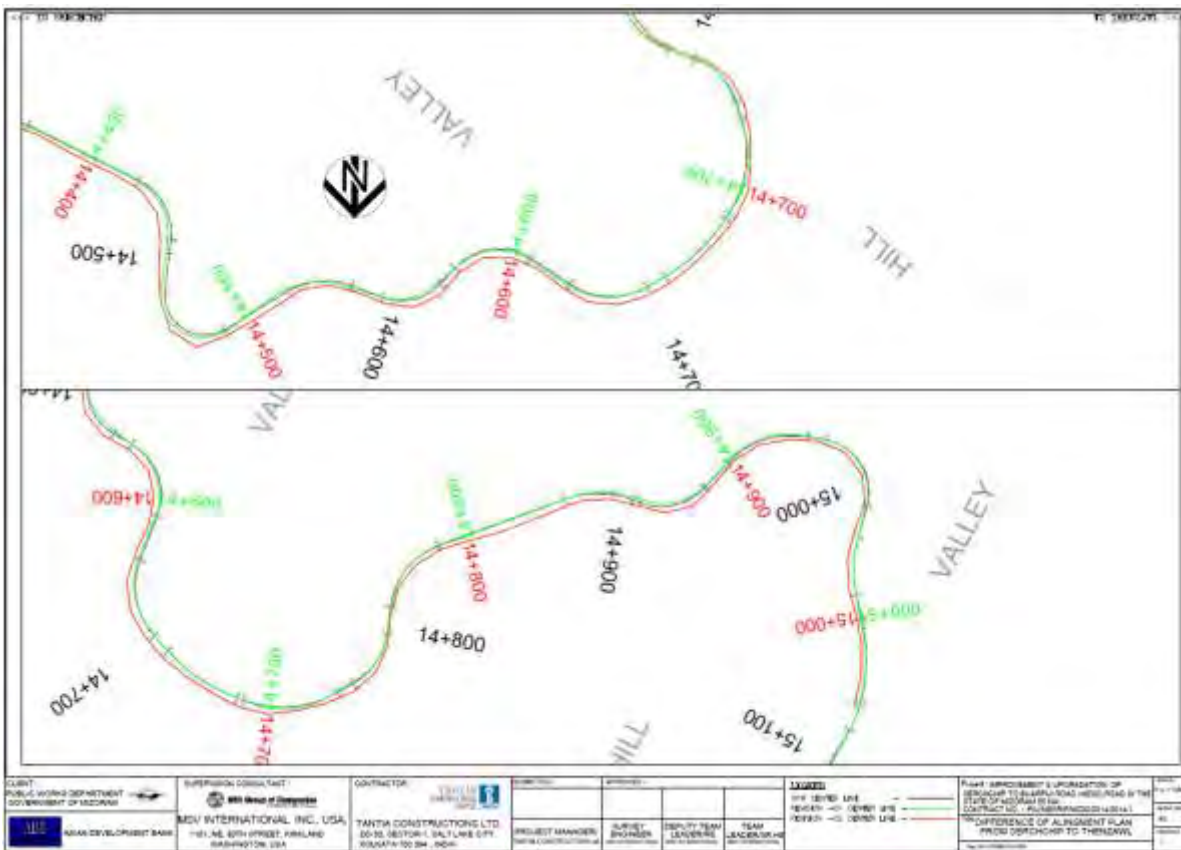
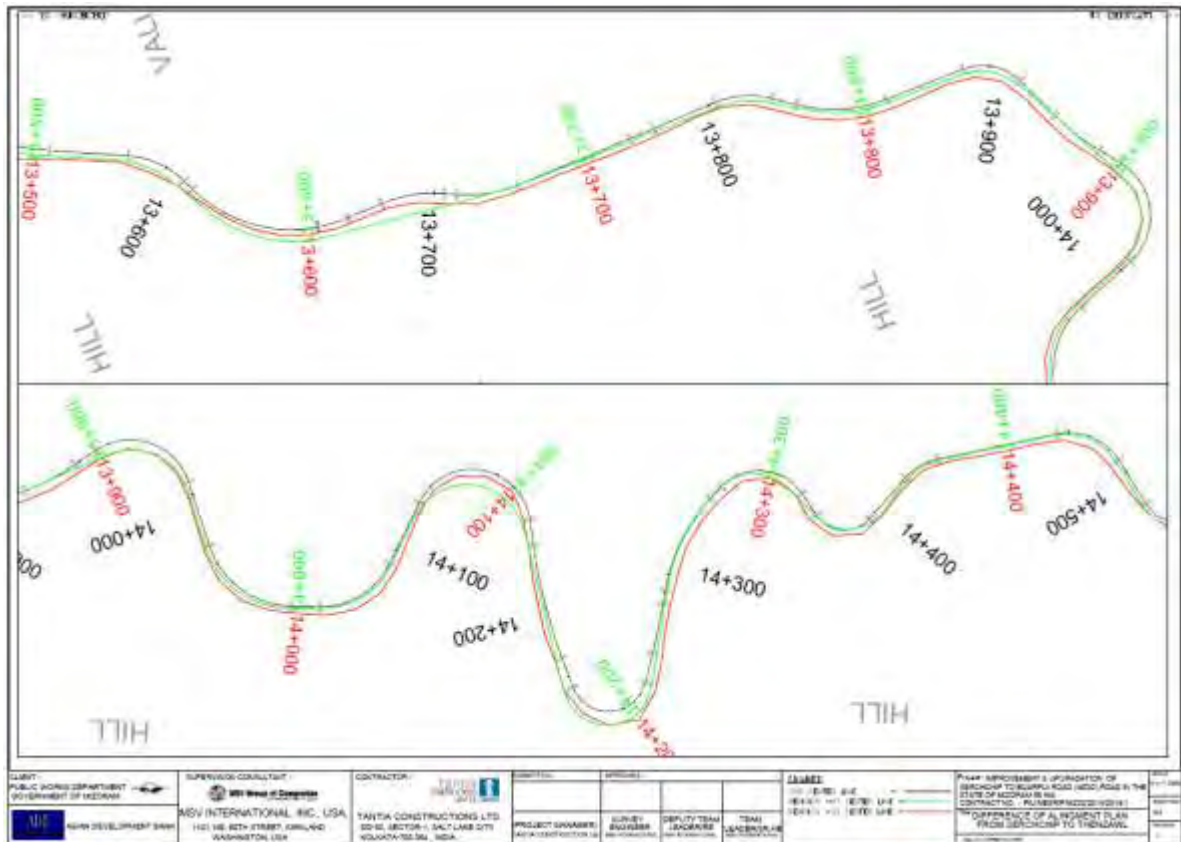












Annexure B

Map : As per revised alignment – Part II (Ch 0+000 to 39+427)

