

Environmental Monitoring Report

First Annual Report
(February 2014 – January 2015)

India: North Eastern State Roads Investment Program

Tranche 2 Subproject MN-06: Tupul-Kasom Khullen Road

Prepared by the Ministry of Development of North Eastern Region, Government of India for the Asian Development Bank.

CURRENCY EQUIVALENTS

(as of 31 December 2014)

Currency unit	-	Indian Rupee (INR)
INR 1.00	=	\$ 0.0158
\$1.00	=	INR 63.1889

ABBREVIATIONS

ADB	-	Asian Development Bank
ADF	-	Asian Development Fund
CSC	-	Construction Supervision Consultant
ES	-	Environmental Specialist
EMP	-	Environmental Management Plan
EA	-	Execution Agency
EIA	-	Environmental impact Assessment
EARF	-	Environmental assessment and review framework
FFA	-	Framework Financing Agreement
EMR	-	Environmental Monitoring Report
GSB	-	Granular sub-base
IEE	-	Initial environmental examination
MDONER	-	Ministry of Development of North Eastern Region
MFF	-	Multitranchise Financing Facility
NER	-	North Eastern Region
NESRIP	-	North Eastern State Roads Investment Program
NOC	-	No Objection Certificate
PAM	-	Project Administration Manual
PIU	-	Project Implementation Unit
PWD	-	Public Works Department
SEIAA	-	State Environmental Impact Assessment Authority
SPS	-	Safeguard Policy Statement

WEIGHTS AND MEASURES

km	-	Kilometer
m	-	Meter

NOTES

In this report, "\$" refers to US dollars

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EXECUTIVE SUMMARY

1. This report is the 1st annual report on environmental safeguards compliance of the Tupul-Kasom Khullen Road subproject (MN-06) in the state of Manipur. This subproject has been included in tranche 2 of ADB's multitranche financing facility (MFF) for North Eastern State Roads Investment Program (NESRIP). It covers the period from February 2014 to January 2015. The subproject includes improvement of 97.8 km of existing state roads to intermediate lane (5.5 m carriageway) standard. The subproject has been divided into two contract packages as CW1: Tupul-Bishnupur (50.7km) and CW2: Thoubal-Kasom Khullen (47.1km). The subproject is being financed by ADB (under project 2) and expected to be completed by January 2017 at a cost of Rs. 3,606 million (about \$ 60 million).

2. The Ministry of Development of North Eastern Region (MDONER) is the Executing Agency for the investment program and Public Works Department of Manipur, through Project Implementation Unit (PIU), is the implementing agency for the subproject. The sole civil works contract package under the subproject was awarded to DRAIPL-ABCL (JV) in December 2013. The Construction Supervision Consultant (CSC) overseeing the supervision of physical works is the JV of AECOM Asia Limited and Rodic Consultant Pvt. Ltd., India. Progress in construction works as of February 2015 are mainly consist of mobilization of resources and manpower, establishment of contractor's camps and site facilities, preparation of sites, and preliminary earthwork (excavation for roadways and structures). The physical work includes reinstallation of TBMs, construction of contractor's base camps, excavation work roadways and structures, repair and maintenance of existing road sections, and subbase and base work GSB (non-bituminous). As of January 2015, the total physical accomplishment are i) in package CW1 it is 11.7% for earthwork, and ii) in package CW2 it is 100 % for earthwork and 11 % for GSB.

3. The environmental safeguards of the subproject are being implemented in compliance with the EARF, loan covenants, project agreement and contractor is complying with the proposed mitigation measures described in the Environmental Management Plan (EMP); and the contract specifications. The implementation of environmental safeguards are being monitored at CSC and PIU level. With exception of few issues the subproject is being implemented in compliance with subproject requirements. PIU environmental and forest officer is actively involved in the coordinating and liaising with statutory agencies and CSC to implement the environmental safeguards of the subproject. The CSC Environmental Specialist has been working closely with the PIU Environmental and Forest Officer, and conducting site inspections every month.

4. During the survey by contractors it has been noted that some small sections of the road falls at an elevation of more than 1000 m above msl. PIU has been working with State Environmental Impact Assessment Authority (SEIAA) of Manipur on clarifying the need for an environmental clearance for the subproject. In December 2014 the SEIAA has issued the "no objection" certificate to allow construction works of road sections falling below 1000m for both CW1 and CW2 roads. For the sections falling above 1,000m a decision is expected from SEIAA and PIU will take necessary actions to implement the recommendations of the SEIAA.

5. Forest clearance (FC) for CW1 has been obtained and for CW2 it is under processing. PIU environmental and forest officer is coordinating with forest department to expedite the process to get FC for package CW2. Contractor has obtained most of the required permits and NOCs required from various government agencies to establish its facilities.

6. The construction works are proceeding in accordance with the provisions of the EMP such as review of monitoring report format, regulatory compliance action plan and camp layout review and approval by the CSC. The environmental monitoring plan is successfully being implemented by the contractor in both the packages.

7. Excavation for road work has caused damage to existing water pipeline at xx village and local people complaint about it. Contractor has replaced the water pipeline with new pipes in consultation with local communities from the village and water supply has been restored.

8. No environmental quality data collection (monitoring) has been carried out during the reported period. This is mainly due to unavailability of NABET affiliated monitoring laboratories in the State and remoteness of the construction sites. Contractor in coordination with CSC and PIU has been trying to hire monitoring agencies from other nearby states. State Pollution Control Board of Manipur has also been approached by contractor for this purpose.

9. PIU and CSC officials have regularly (weekly/bimonthly) been meeting with the local people and village heads in the subproject area to inform them about the construction works. Measures have been taken to address concerns of the local communities such as sprinkling of water on roads, traffic diversion plans, road safety measures, awareness on health and safety etc.

10. Various proactive measures are being taken to implement subproject in compliance with requirements, prevent damages to heritage structures, coordinate with relevant agencies, communicate with the public and address grievances of the local public. Areas such as coordination with government officials, public communications, documentation and reporting need further enhancement.

11. There were no significant environmental impacts observed during the reporting period and a few shortcomings on dust control, road safety, health and safety of works, documentation and reporting were observed for which necessary corrective measures have to be taken.

1. INTRODUCTION

A. Purpose of the Report

12. The objective of environmental monitoring is to allow ADB, MDONER and the project implementing agencies, Public Works Department (PWD) of Manipur in case of MN-06, gather information to: i) evaluate the environmental management plan (EMP) progress by establishing compliance status, ii) detect and correct non-conformances, iii) identify unanticipated impacts and implement necessary mitigation measures, and iv) provide evidence to support enforcement of penalty provisions of the civil works contract to deter non-compliance.

13. Environmental monitoring and disclosure of annual or semi-annual monitoring reports is an ADB requirement for environmental category-B projects like North Eastern State Roads Investment Program (NESRIP). Environmental monitoring is part of project implementation process to be complied by both ADB and Manipur PWD. The preparation and submission of the annual or semi-annual monitoring reports is the responsibility of PIU (Manipur PWD) while supervision to provide guidance is the role of ADB.

14. The Tupul-Kasom Khullen subproject is categorised as environmental category B project. Accordingly an Initial Environmental Examination (IEE) including Environmental Management Plan (EMP) has been prepared and disclosed on ADB website prior to project approval. Supervision consultant is preparing semi-annual monitoring reports to PIU. However as there are no sensitive issues associated with this subproject, it was agreed during project preparation that annual monitoring reports will be submitted to ADB and disclosed for this subproject. This is the first annual monitoring report prepared based review of monthly progress reports, two semi-annual environmental monitoring reports, field observations and discussions with IA, CSC and contractors personnels. This report cover period from February 2014 to January 2015.

B. Project Description

15. The 'North Eastern State Roads Investment Program' is a multitranche financing facility (MFF) designed to: improve about 430 kilometers (kms) of priority roads in six states, namely: Assam, Manipur, Meghalaya, Mizoram, Sikkim, and Tripura in the northeastern region (NER) of India; and provide capacity building support to the executing agency, the Ministry of Development of North Eastern Region (MDONER) and implementing agencies, the state public works departments (PWDs) or its equivalent in the six project states. The investment program targets the secondary road network and aimed to enhance the performance of state roads sector in NER through investment project implementation and dedicated capacity building measures. The improved secondary road network will provide important linkage between the primary and tertiary road networks in the region, for which there are ongoing national programs for improvement¹.

16. The NESRIP has two components: investment, and project management and capacity development. The investment component requires the improvement of about 433.7 km state

¹ "Proposed Multitranchise Financing Facility and Administration of Technical Assistance Grant India: North Eastern State Roads Investment Program" Report and Recommendation of the President to the Board of Directors. June 2011.

roads in the States of Assam, Meghalaya, Sikkim, Manipur, Mizoram and Tripura; and associated consulting services for construction supervision. The proposed projects under the Program are show in Table 1.

Table 1: Proposed Roads under MFF North Eastern State Roads Investment Project

Road Section Package Code	Tranche/Road Name	State	Length
Tranche 1			
SK-01	Melli-Nayabazaar	Sikkim	14.5
SK-02	Nayabazaar-Namchi	Sikkim	19.7
AS-11	Bilaspara (NH31)- Fakiragam	Assam	16.2
AS-37C	Kalitakuchi-Barpeta	Assam	58.5
MLN1	Garobadha-Dalu (NH51)	Megalaya	93.4
Sub-Total			202.3
Tranche 2			
AS02	Tamalpur-Paneri	Assam	43
AS03	Paneri-Udalguri	Assam	18.6
AS02-03	Major Bridges	Assam	1.3
MN06	Tupul (NH53)-Kasom- Khullen	Manipur	93.2
MZ02	Serchhip-Buarpui	Mizoram	55
TR02	Udaipur (NH44)- Melaghar	Tripura	20.3
Sub-Total			231.4
Total			433.7

Source: FFA

17. North Eastern State Roads Investment Program (NESRIP) was approved in July 2011 by ADB Board for \$200 million and the first tranche loan of \$74.8 million (Loan 2770, Project 1) was signed on 9 July 2012 to improve around 200 km state roads in Assam, Meghalaya, and Sikkim states. The loan became effective on 22 October 2012 with closing date on 31 December 2016.

18. The second tranche loan of \$125.2 million (Loan 3073, Project 2) was signed on 17 February 2014 for \$125.2 million to improve around 235 km state roads in the states of Assam, Manipur, Mizoram and Tripura and the related supervision consulting services. The loan became effective on 20 May 2014.

19. NESRIP 2 (Tranche 2) is categorized by ADB as environment category B. The sub-projects MN-06: Tupul-Kasom Khullen is the subject of this environmental monitoring report. MN-06 subproject is being implemented on 2 civil works package as CW1: Tupul-Bishnupur (50.7km) and CW2: Thoubal-Kasom Khullen (47.1km). The civil works contract was awarded to M/s. DRAIPL-ABCL (JV) and Construction Supervision is being undertaken by AECOM joint venture with Rodic consultant Pvt. Ltd.

B.1 Description of Subproject Road

20. **Package CW1** takes off from NH-53 at Tupul and ends at NH-150 in Bishnupur covering a total length of 50.7 km whereas **Package CW2** takes off from NH-39 in built up area at Thoubal and end at Kasom Khullen covering a total length of 47.1 km. Total length of the subproject road MN-06 is therefore 97.8 km. The existing roads are sections of MDRs mostly gravel / earthen tracks (except 9 km stretch between Thoubal to Yairipok, which is a state highway with intermediate lane) with single lane carriageway. Average carriageway width is about 3.5m to 5.0 m. The road passes mostly through hilly terrain with curvilinear alignment comprising in sharp radii and bends including hair pin bends and steep gradients. Some of the sections are difficult track, with muddy and slushy roadway during rains and hardly jeepable. Figure 1 show the location map of the subproject road.

21. Both road sections under CW1 and CW2 are proposed for improvement and upgradation to intermediate lane configuration (5.5m carriageway) with side drains on hill side. Total formation width will be restricted to 9.0 m in plain areas and 7.8m in hilly terrain. Table 2 presents the information about the subproject road.

Table 2: Information of the Project Road MN-06

Name of the Road Section	Contract Package No.	Length (km)	District	State
Tupul to Bishnupur	MN-CW1	50.7	Tamenglong, Senapati, Chura chandpur and Bishnupur	Manipur
Thoubal to Kasom Khullen	MN-CW2	47.1	Thoubal and Ukhul	Manipur
	Total	97.8 km		

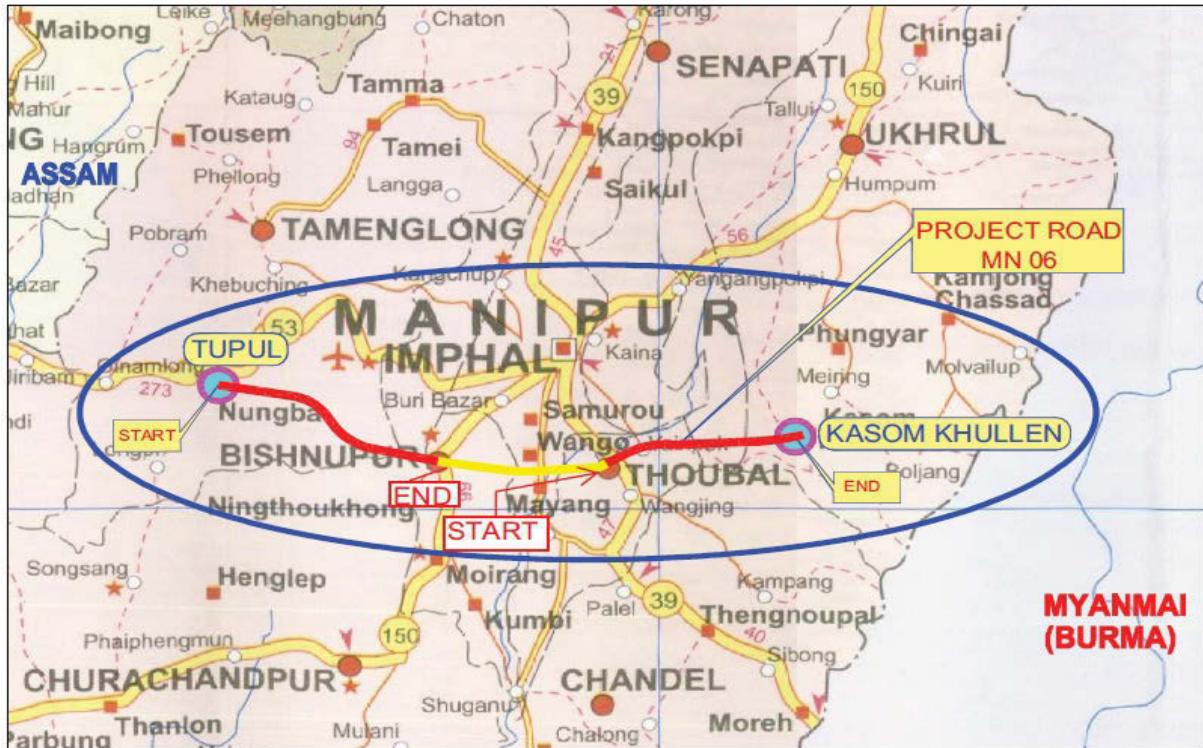


Figure 1. Location Map of Subproject Road MN-06

C. Project Implementation Arrangement

22. The Ministry of Development of North Eastern Region (MDONER) is the Executing Agency for the Investment Program and is responsible for overall coordination with ADB and Manipur PWD and monitoring the progress of the subproject. A Central level Steering Committee and Project Management Unit (PMU) within MDONER, and a State level Steering Committee and Project Implementation Unit (PIU) have been established in Manipur. The PMU will supervise the work of Project Monitoring Consultant (PMC) while PIU will supervise work of Construction Supervision Consultants (CSC). Manipur PWD has established an environment and social safeguard cell to look after implementation and monitoring of the safeguards measures associated with the Project. It constitute five key officials and support staff of PWD. Organization structure of Safeguards Cell is show in Figure 2.

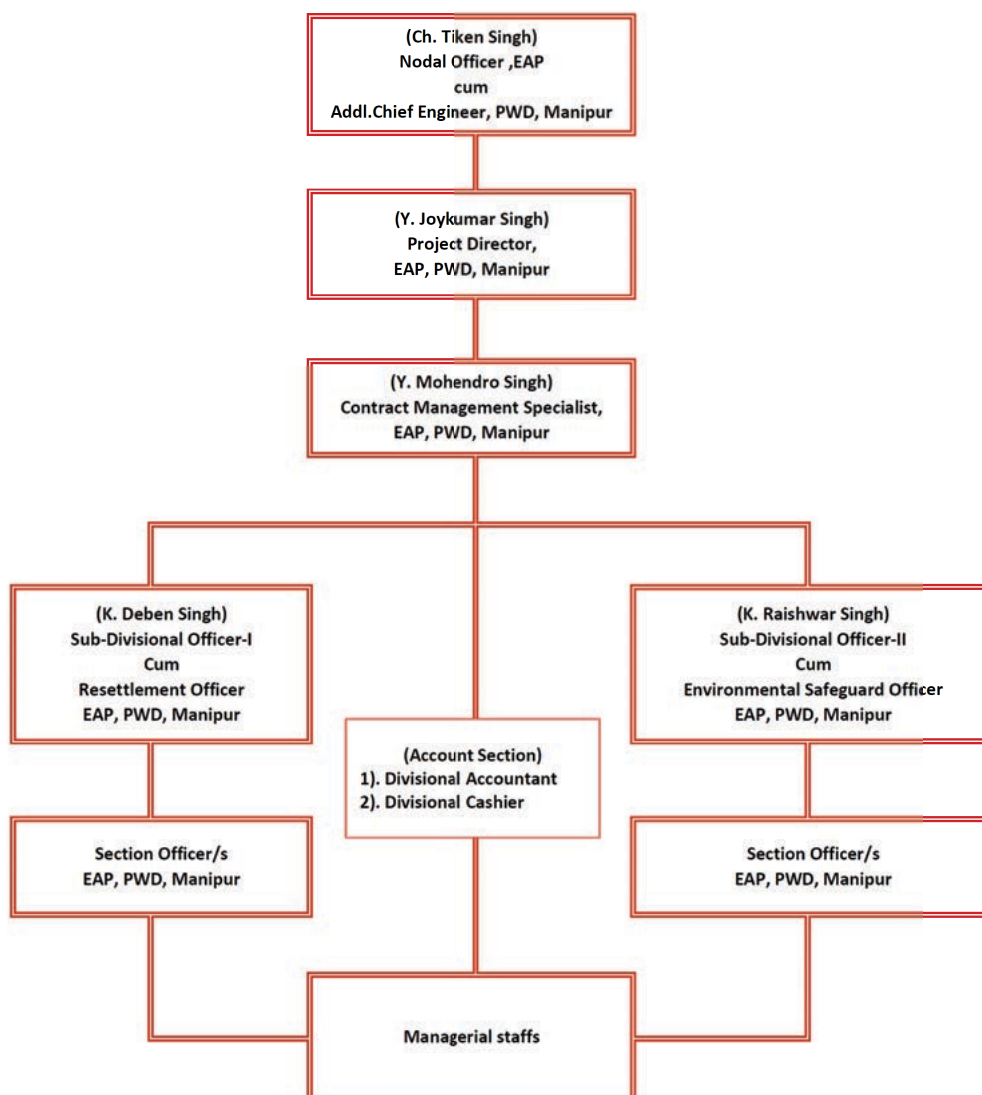


Figure 2: Organization Structure of PIU and Safeguards Cell of Manipur

D. Project Implementation Progress

23. The civil works contracts for both the packages has been signed on 28 December 2013 and work has been commenced on 24 January 2014. Contractor has mobilized its machineries and manpower to the site. The work during the reporting period is mainly consist of mobilization of resources and manpower, establishment of contractor's camps and site facilities, preparation of sites, and preliminary earthwork (excavation for roadways and structures). As of February 2015, total physical and financial accomplishment in each package is described below. Photolog demonstrating the progress of works is provided in Appnedix 2.

24. **Civil Works Contract Package CW1 (Tupul-Bishnupur):** The progress of work in this package mainly include reinstallation of TBMs, construction of contractor's base camps, excavation work roadways and structures, and repair and maintenance of existing road sections. TBMs installed during details design were missing and contractor is in the process of reinstallation of TBMs. Relocation from 0+000 to 6+000 and 31+000 to 50+875 (total of 25.875 km) have been completed. Construction of contractor's base camp at Lamdangmei (chainage km 14+00) and at Ngariyan village (Chainage km 44+500 are in Progress. The physical progress is till January 2015 is about 7.1% mainly on earthwork (excavation work for roadways, structures, and repair of existing roads). The target financial progress till January 2015 is INR 27.03 crores but actual financial progress is nil. There is slippage of INR 27.03. The status of various construction activities in package CW1 is provided in the Table 3.

Table 3: Status of Construction Works in CW1 as of February 2015²

A. Highway (Length –wise) Major Items					
S. No.	Item Description	Unit	Total Quantity	Physical Progress in Cum	Physical Progress in %
1	Earthwork in excavation (roadway+structure)	Cum	446990	32139	7.1
2	Embankment & Subgrade	Cum	26204	Not yet started	
3	Shoulder	Cum	19730	-do-	
4	GSB	Cum	111670	-do-	
5	WMM	Cum	94320	-do-	
6	DBM	Cum	22300	-do-	
7	BC	Cum	14900	-do-	

B. Structure wise				
S. No.	Item Description	Scope (nos.)	Physical Progress in Nos.	Physical Progress in %
1	Pipe Culverts	167	NIL – Preparatory work just started	
2	Box Culverts	4	-do-	
3	Minor Bridges	1	-do-	
4	Major Bridges	NA	-do-	

25. **Civil Works Contract Package CW2 (Thoubal-Kasom Khullen):** The progress of work in this package mainly include reinstallation of TBMs, construction of contractor's base camps, excavation work roadways and structures, repair and maintenance of existing road sections, and subbase and base work GSB (non-bituminous). TBMs installed during details design were missing and contractor is in the process of reinstallation of TBMs. Relocation from km 94+000 to km 128+575 (total of 35.575 km length) have been completed.

² Source: Monthly Progress Reports prepared by CSC for the month of January 2015.

Construction of contractor's base camp at Somreivillage (chainage km 96+970) are in Progress. The physical progress is till January 2015 is 100 % for earthwork (excavation work for roadways, structures) and 11 % for GSB. Repair and maintenance of existing roads is also being taking place. The target financial progress till January 2015 is INR 25.16 crores but actual financial progress is nil. There is slippage of INR 25.16. The status of various construction activities in package CW2 is provided in the Table 4.

Table 4: Status of Construction Works in CW2 as of February 2015³

A. Highway (Length –wise) Major Items					
S. No.	Item Description	Unit	Total Quantity	Physical Progress in Cum	Physical Progress in %
1	Earthwork in excavation (roadway+structure)	Cum	287310	295471.175	102.84
2	Embankment & Subgrade	Cum	38500	Not yet started	
3	Shoulder	Cum	45670	-do-	
4	GSB	Cum	113600	12552.33	11.04
5	WMM	Cum	85100	Not yet started	
6	DBM	Cum	21340	-do-	
7	BC	Cum	16110	-do-	

B. Structure wise				
S. No.	Item Description	Scope (nos.)	Physical Progress in Nos.	Physical Progress in %
1	Pipe Culverts	131	NIL – Preparatory work just started	
2	Box Culverts	9	-do-	
3	Minor Bridges	7	-do-	
4	Major Bridges	NA	-do-	

2. COMPLIANCE TO SAFEGUARDS PROVISIONS IN AGREEMENTS UNDER THE PROJECT

A. Compliance to EARF

26. The subproject has been prepared and is being implemented in compliance to the requirements and provisions of the Environmental Assessment and Review Framework (EARF) for the MFF (July 2010). The EARE provisions and compliance status are provided in Table 5.

³ Source: Monthly Progress Reports prepared by CSC for the month of January 2015.

Table 5: Status of Compliance to EARF

S.N.	Environmental Aspects	Compliance Status
1.	<p>Section D: Environmental Assessment subprojects</p> <p>10. Based on the Government and ADB's Safeguard Policy Statement, 2009 (SPS), the follow up subprojects will be subject to the following requirements:</p> <p>(i) Requirement for environmental assessment of each subproject depending on its potential impacts. Based on these potential impacts, a subproject will be classified in accordance with the Government's and ADB's SPS 2009 and Rapid Environmental Assessment (REA) checklist for roads and highways.</p>	<p>Complied.</p> <p>The environmental assessment of the subproject has been carried out in compliance with GOI and ADB SPS requirements. Subproject has been categorized as Category B Project as per SPS 2009 requirements.</p>
2.	<p>Section F: Compliance with the ADB's Environment Policy</p> <p>14. PWD as well as MDONER have the responsibility for undertaking environmental due diligence and monitoring the implementation of environmental mitigation measures for all subprojects. However, ADB must also be given access to undertake environmental due diligence for all subprojects, if needed. The due diligence report as well as the environmental monitoring reports as part of the annual report needs to be documented systematically. MDONER has to ensure that this environmental assessment framework is well implemented.</p>	<p>Being complied.</p> <p>Environmental assessment for the subproject has been carried out and an IEE including EMP has been prepared.</p> <p>Implementation of environmental mitigation measures being carried out by CSC. Annual environmental monitoring report is being prepared and submitted to ADB.</p> <p>EARF is being implemented while implementing the subproject.</p>
3.	<p>Section G: Information Disclosure</p> <p>15. PWD of each state is responsible for ensuring that all environmental assessment documentation including the environmental due diligence and monitoring reports are properly and systematically kept as part of PWD project record.</p> <p>16. All environmental documents are subject to public disclosure; therefore, these documents should be made available to public, if requested.</p> <p>17. If in any case, an "A" subproject will be included, the EIA report needs to be disclosed to the public through ADB and MDONER website, 120 days before the approval of the</p>	<p>Being complied.</p> <p>PWD Manipur maintaining records and keeping documents related to environmental safeguards (IEE, Monitoring Reports etc.)</p> <p>IEE including EMP has been disclosed to public and being made available to public.</p> <p>Subproject is not a category A project.</p>

	<p>respective PFR, which include the subprojects classified as “A”.</p> <p>18. The IEE report for category B projects needs to be disclosed to the public through the ADB website before the approval of the respective PFR.</p> <p>19. For category A projects semi-annual monitoring reports and B projects, annual monitoring reports need to be disclosed to the public through the ADB website.</p>	<p>Subproject IEE was disclosed on ADB website prior to approval of PFR.</p> <p>Annual Environmental Monitoring Report will be disclosed on ADB website.</p>
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B. Compliance to Statutory Requirements of State and Central Governments

27. The subproject is being carried out in compliance with statutory requirements of State (Manipur) and Central (GOI) requirements on environmental safeguards. To date the following clearances and consents have been secured and or under processing. Table 6 summarises the status of various clearances/permits.

- NOC from State Level Environmental Impact Assessment Authority (SEIAA) has been obtained to commence work on road sections lying at a elevation of below 1000 m above MSL. Refer to Annex 2.
- Forest Clearance for Tupul-Bishnupur section (Contract Package CW1) of the subproject road (Refer to Annex 4). Forest clearance for Thoubal-Kasom Khullen section (Contract Package CW2) is under processing.
- Consent to Establish from Manipur State Pollution Control Board for setting up a hot mix plant for the subproject at Saram/Salam Patong Village, PO Saikum, Senapati district, Manipur. Refer to Annex 5.
- Consent to Establish from Manipur State Pollution Control Board for setting up a stone crusher for the subproject at Saram/Salam Patong Village, PO Saikum, Senapati district, Manipur. Refer to Annex 5.
- Consent to Establish and Operate from Manipur State Pollution Control Board for a WMM Plant for the subproject at Saram/Salam Patong Village, PO Saikum, Senapati district, Manipur. Refer to Annex 5.
- Consent to Establish and Operate from Manipur State Pollution Control Board for the construction camp for the subproject at Somrei Village, PO Yairipok, Ukhrul district, Manipur. Refer to Annex 5.
- Consent to Establish and Operate from Manipur State Pollution Control Board for the setting up a concrete batching plant for the subproject at Somrei Village, PO Yairipok, Ukhrul district, Manipur. Refer to Annex 5.
- Consent from land owners on the establishment of camp and plant sites for the subproject. Refer to Annex 6.

- Labor license and workmen compensation clearances for subproject. Refer to Annex 6.
- Pollution Under Control for all vehicles for subproject. Refer to Annex 6.

Table 6: Status of Compliance to Statutory Requirements

Sl. No.	Statutory Requirements	Contract Package CW1 (Tupul-Bishnupur)	Contract Package CW2 (Thoubal-Kasom Khullen)
1.	Environmental Clearance from SEIAA	NOC to commence work on road sections below 1000m elevation has been obtained (Annex 2). For sections above 1000m elevation, environmental clearance is under processing.	NOC to commence work on road sections below 1000m elevation has been obtained (Annex 2). For sections above 1000m elevation, environmental clearance is under processing.
2.	Forest Clearance and Permission for the Cutting of Trees	NOC obtained from forest department to commence work on non-forest areas (Annex 3). In Principal forest clearance obtained (Annex 4). Tree cutting will be done by forest department as part of forest clearance.	NOC obtained from forest department to commence work on non-forest areas (Annex 3). Forest clearance is in process. PIU is coordinating with forest department and it is expected to get forest clearance by March 2015. Tree cutting will be done by forest department as part of forest clearance.
3.	Consent to Establish (Stone crusher, Hot mix Plant, Wet mix plant)	In Process.	Contractor has obtained the consent to establish a crusher plant and HMP plant. The consent to establish for WMM plant and batching plant is in progress. Annex 5
4.	Consent to Operate (Stone crusher, Hot mix Plant, Wet mix plant)	In Process.	Obtained. Annex 5
5.	Quarry Operation.	In Process.	In Process.
6.	Consent from Land Owners.	In Process.	Obtained. Annex 6
7.	Labour License	Obtained. Annex 6	Obtained. Annex 6
8.	Work men compensation insurance	Covered. Annex 6	Covered. Annex 6
9.	Pollution under Control Certificates	Submitted.	Submitted. Annex 6

28. Follow-up is required at PIU end to secure environmental clearance from SEIAA and Final Forest Clearance for Thoubal-Kasom Khullen road section.

C. Compliance to Loan Agreement

29. The environmental safeguard requirements are explicitly provided in the Loan Agreement (Loan Number 3073-IND for NESRIP – Project 2) between ADB and Government of India dated 17 February 2014. These loan agreement provisions and compliance status are provided in Table 7.

Table 7: Status of Compliance to Environmental Provisions of the Loan Agreement

S.N.	Environmental Provision	Compliance Status
1	<p>Schedule 4. Item 5(a) and Item 5(d):</p> <p><u>Conditions for award of contract;</u> <u>Commencement of Works</u></p> <p>5. The borrower shall cause the Project Executing Agencies to ensure that:</p> <p>a. no Works contract is awarded for a Subproject that involves environmental impacts until the relevant Project Executing Agency has incorporated the relevant provisions from the EMP into the Works contract;</p> <p>d. no commencement of Works is allowed under any Subproject that involves environmental impacts and requires environmental clearances, until the relevant Project Executing Agency has obtained the final approval of (i) the IEE from ADB; and (ii) environmental clearance, including approval of the environmental assessment report, from the State Environmental Impact Assessment Authority.</p>	<p>Complied.</p> <p>Environmental Management Plan (EMP) is a part of bidding document. Section 6 of Contract Agreement includes condition of contract on EMP, requiring the Contractor to implement the EMP.</p> <p>IEE has been approved by ADB.</p> <p>NOC has been obtained from State Environmental Impact Assessment Authority (SEIAA) to commence the work.</p> <p>Environmental Clearance from SEIAA is under processing.</p>
2	<p>Schedule 5. Item 3:</p> <p><u>Subproject Approval and Implementation</u></p> <p>3. The Project Executing Agencies shall ensure that all Subprojects are selected, processed for approval, and implemented in accordance with the criteria and procedures set out in Schedule 4 to the FFA.</p>	<p>Being complied.</p> <p>The subproject has been selected, processed and approved, and is being implemented in accordance with the criteria and procedures set out in Schedule 4 to the FFA</p>
3	Schedule 5. Item 4:	

	<p><u>Safeguards: Environment</u></p> <p>4. The Borrower shall cause the relevant Project Executing Agency to ensure that the preparation, design, construction, implementation and operation of each Subproject comply with (i) all applicable laws and regulations of the Borrower and the relevant State relating to environment, health, and safety; (ii) the Environmental Safeguards; (iii) the EARF; and (iv) all measures and requirements set forth in the relevant IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</p>	<p>Being complied.</p> <ul style="list-style-type: none"> ➤ Requirements on permits and clearance are being followed. ➤ Subproject has been prepared following EARF. ➤ Health and Safety aspects being followed. ➤ Requirements of IEE and EMP are being implemented.
4	<p>Schedule 5. Item 8(a) & 8(b)</p> <p><u>Human and Financial Resources to Implement Safeguards Requirements</u></p> <p>8. (a) The Borrower shall cause the relevant Executing Agency to ensure that all necessary budgetary and human resources to fully implement the EMP, and the RP and the IPP as required, are made available.</p> <p>8. (b) Each Project Executing Agency shall designate at least one expert each to supervise implementation of the EMPs, and RPs for subprojects in its State”</p>	<p>Being complied.</p> <ul style="list-style-type: none"> ➤ Adequate budget allocation has been made for implementation of safeguards activities. ➤ Safeguards cell comprising of 05 officers has been established in Manipur State PIU. ➤ Safeguards Cell of PIU comprised of one environmental and forest officer (Mr. K. Raishwar Singh) and one resettlement officer Mr. K. Deben Singh). ➤ Environmental Expert is part of the PMC team, Construction Supervision Consultant (Mr. Rajeev Chandra). ➤ Environmental and Safety Officers of civil works contractors' team (CW1-Mr. Rojit Singh, and CW2- Mr. Dhaneshwar Singh).
5	<p>Schedule 5. Item 9(a)</p> <p><u>Safeguards – Related Provisions in Bidding Documents and Works Contracts.</u></p>	

	<p>9. (a) comply with the measures and requirements relevant to the contractor set forth in the IEE, EMP, RP and IPP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report.</p>	<p>Being complied.</p> <p>Safeguards experts are part of the PMC, CSC and civil works contractor teams are implementing safeguard measures. Adequate budget allocation is being made for implementation of safeguards activities.</p>
6	<p>Schedule 5. Item 9(b)</p> <p><u>Safeguards – Related Provisions in Bidding Documents and Works Contracts.</u></p> <p>9 (b) make available a budget for all such environmental and social measures</p>	<p>Being complied.</p>
7	<p>Schedule 5. Item 9(c)</p> <p><u>Safeguards-Related Provisions in Bidding Documents and Works Contract.</u></p> <p>9 (c) provide the Project Executing Agency with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the relevant IEE, EMP, RP or IPP;</p>	<p>Being complied.</p> <p>Appropriate measures are being and will be taken to address these issues, as they arise.</p>
8	<p>Schedule 5. Item 10(a)</p> <p><u>Safeguards Monitoring and Reporting</u></p> <p>10. (a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission"</p>	<p>Being complied.</p> <p>Since the subproject is Category B project, it is agreed to submit and disclose Annual Monitoring Report. First Annual Monitoring Report for the period February 2014 to January 2015 is being submitted to ADB and it will be disclosed on ADB website.</p>
9	<p>Schedule 5. Item 10(b)</p> <p><u>Safeguards Monitoring and Reporting</u></p> <p>10. (b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation</p>	<p>Being complied.</p>

	of the Project that were not considered in any IEE, EMP, RP or IPP (as applicable), promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan;	
10	<p>Schedule 5. Item 10(c)</p> <p><u>Safeguards Monitoring and Reporting</u></p> <p>10. (c) no later than three months from the commencement of RP implementation of the first Subproject, engage qualified and experienced external experts or qualified non-governmental organizations under a selection process and terms of reference acceptable to ADB, to verify information produced through the project monitoring process for resettlement, environment and indigenous peoples (if any), and facilitate the carrying out of any verification activities by such external experts;</p>	<p>Being complied.</p> <p>An NGO has been engaged.</p>
11	<p>Schedule 5. Item 10(d)</p> <p><u>Safeguards Monitoring and Reporting</u></p> <p>10. (d) report any breach of compliance with the measures and requirements set forth in any EMP, RP or IPP promptly after becoming aware of the breach.</p>	<p>Being complied.</p>
12	<p>Schedule 5. Item 11</p> <p><u>Prohibited List of Investments</u></p> <p>11. The Borrower shall cause the Project Executing Agencies to ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the Safeguard Policy Statement.</p>	<p>Complied.</p>
13	<p>Schedule 5. Item 12</p> <p><u>Labor Standards</u></p> <p>12. The Borrower shall cause the Project Executing Agencies to ensure that the Works contracts under the Project follow all applicable labor laws of the Borrower and</p>	<p>Complied.</p> <p>➤ Various awareness programmes have been conducted during the reporting period.</p>

	<p>State and that these further include provisions to the effect that contractors; (i) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and (ii) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts shall also include clauses for termination in case of any breach of the stated provisions by the contractors.</p>	<p>➤ HIV/AIDS awareness programme have been conducted.</p> <p>➤ Monthly environmental training, physical training and general housekeeping training are being conducted.</p> <p>Details of Awareness Programs and Meetings are provided in Section V.</p>
14	<p>Schedule 5. Item 17</p> <p><u>Counterpart Support</u></p> <p>17. The Borrower and each State shall provide, as necessary, respective counterpart staff, land facilities, and counterpart funding for the Project and Subprojects in accordance with the financing plan, cost of making land available for the Subprojects and assistance, and implementation and monitoring of EMPs, RPs and IPPs (including unforeseen expenses beyond the estimates), utility relocation, road maintenance, and general Project management expenses in a timely manner through approved annual budget allocations.</p>	<p>Being complied.</p> <p>Counterpart support has been provided by Manipur PWD (as part of PIU) for implementation of EMPs.</p>

D. Compliance to Project Agreement

30. The environmental safeguard requirements are explicit provided in the Project Agreement (Loan Number 3073-IND for NESRIP – Project 2) between ADB, and Ministry of Development of North Eastern Region and State of Manipur dated 17 February 2014. These project agreement provisions and compliance status are provided in Table 8.

Table 8: Status of Compliance to Environmental Provisions of the Project Agreement

S.N.	Environmental Provision	Compliance Status
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1	<p>Article II: Particular Covenants</p> <p><u>Section 2.01</u></p> <p>(a). MDONER and Manipur shall carry out the Project with due diligence and efficiency, and in conformity with sound applicable administrative, financial, engineering, environmental and roads development practices.</p> <p>(b). In the carrying out of the Project and operation of the Project facilities, MDONER and Manipur shall perform all obligations set forth in the Loan Agreement to the extent that they are applicable to MDONER and Manipur respectively.</p>	<p>Being complied.</p> <p>Subproject is being implemented with sound environmental practices. Supervision is being carried out by CSC and PIU.</p> <p>Subproject is being implemented in compliance with conditions of loan agreement. Loan Agreement compliance status is shown in Table 7)</p>
2	<p>Article II: Particular Covenants</p> <p><u>Section 2.11</u></p> <p>(b). MDONER and Manipur shall at all times carry out the Project and Subprojects in accordance with sound administrative, financial, engineering, environmental and roads development practices, and under the supervision of competent and experienced management and personnel.</p> <p>(c). In relation to the Project, Manipur shall at all times operate and maintain its assets, equipment and other property, and from time to time, promptly as needed, make all necessary repairs and renewals thereof, all in accordance with sound administrative, financial, engineering, environmental, roads development, maintenance and operational practices.</p>	<p>Being complied.</p> <p>Subproject is being implemented with sound environmental practices.</p> <p>Subproject facilities and assets are being operated in compliance with sound environmental practices.</p>

E. Compliance to Framework Financing Agreement

31. The Framework Financing Agreement (FFA) provides an underlying structure for financing arrangement. The subproject is being implemented in compliance with FFA dated 17 June 2011 between India and ADB. The status of implementing the safeguards requirements set out in FFA are provided in Table 9.

Table 9: Compliance to FFA

SN	Details	Compliance Status
1.	<p>Schedule 3 : Implementation Framework, Item 2 and 3</p> <p><u>Implementation</u></p> <p>2. At the state level, the Investment Subprojects under the Facility will be implemented by each respective State acting through its relevant agency viz. the State Public Works Department (PWDs) through a Project Implementation Unit (PIU) to be established within the PWD (in case of Sikkim, the Roads and Bridges Department), of equivalent in each State. Each PIU will be headed by a senior State government official, who will be the PIU Director, and will be staffed with qualified officials in the field of road engineering, procurement and contract management, environmental management, resettlement, road maintenance, tribal affairs, and accounting. Each PIU will be assisted by a Construction Supervision Consultant (CSC), which will be a team of experts to be engaged under the Investment Component.</p> <p>3. In each of the project states, a state level Steering Committee (SSC) will be established, to be chaired by Chief Secretary, and consisting of senior PWD officials and officials from departments/agencies dealing with planning, finance, land/revenue, forest and environment, utilities, and social welfare/tribal affairs, to deal with state level project implementation issues including land acquisition, resettlement and rehabilitation, environmental clearance, and removal of utilities.</p>	<p>Complied.</p> <p>A PIU has been established within PWD Manipur headed by a Project Director. Organization Structure of PIU is shown in Figure 2.</p> <p>CSC has also been appointed following ADB's Procurement Procedures.</p> <p>An Environmental Expert has been included each in PIU as well as CSC.</p> <p>Complied.</p>
2.	<p>Schedule 3 : Implementation Framework, Item 7</p> <p><u>Counterpart Funds</u></p> <p>7. India and the States will provide, as necessary, respective counterpart staff, land facilities, and counterpart funding for the Facility and Investment Subproject(s) therein in accordance with the financing plan; cost of making land available for the Investment Subproject(s) and assistance, and implementation and monitoring of Resettlement Plans (RP) and Environmental Management Plans (EMP) (including unforeseen expenses beyond the estimates); utility relocation road maintenance; and general project management expenses in a timely manner through approved annual budget allocation.</p>	<p>Complied.</p> <p>Adequate counterpart staff and budget have been provided for the implementation of the subproject.</p>

SN	Details	Compliance Status
3.	<p>Schedule 4 : Selection Criteria and Approval Process for Investment Subprojects, Item 2</p> <p><u>Investment Subproject Selection Criteria</u></p> <p>2. A Subproject will be eligible for financing under the Facility if:</p> <p>(viii). It has been screened for its environmental impacts in compliance with the requirements of India, State, and ADB's <i>Safeguard Policy Statement, 2009</i>, an environmental assessment has been prepared following the Environmental Assessment and Review Framework referenced in Schedule 5 to this Agreement, all necessary approvals and clearances have been obtained for the Investment Subproject from all relevant government agencies, the Investment Subproject will not cause any major adverse impact on the environment, and ADB has approved the environmental assessment and proposed mitigation measures;</p>	<p>Being complied.</p> <p>Subproject has been screened for environmental impacts and an IEE including EMP has been prepared and approved by ADB.</p> <p>Necessary clearances have been obtained to commence the work and PIU and is coordinating with government agencies to ensure compliance with their requirements.</p>
4.	<p>Schedule 5 : Safeguard Frameworks, Item 1</p> <p>1. India will ensure that all the requirements prescribed in this Schedule, and in the following safeguard frameworks and plans, which have been prepared with respect to the Facility and the first tranche and of which ADB has been provided full copies, and which are deemed incorporated herein by reference, are complied with during the processing and implementation of the Investment Subproject under the Facility.</p> <p>(i). the environmental assessment and review framework dated May 2007 as updated in April 2010;</p>	<p>Complied.</p> <p>The subproject has been prepared and being implemented in compliance with EARF (2010 version). Compliance status to EARF is presented in Section A above.</p>
5.	<p>Schedule 5 : Safeguard Frameworks, Item 3</p> <p>3. Prior to the preparation of each PFR, the applicability and relevance of each safeguard framework for environmental assessment, involuntary resettlement, and indigenous people will be reviewed and updated to ensure relevance and consistency with applicable country legal</p>	<p>Complied.</p> <p>EARF has been updated in 2010.</p>

SN	Details	Compliance Status
	frameworks and ADB's safeguard policy, as amended from time to time.	
6.	Schedule 5 : Safeguard Frameworks, Item 4 4. In all cases, for each new PFR preparation, India will review on-going Investment Subprojects to check on the status of compliance with the safeguards plans and frameworks, and submit and review reports to ADB, together with other required safeguard documents relevant to the Investment Subprojects included in the new tranche. In any case if major non-compliance is discovered in the course of the review of on-going subprojects, a corrective action plan will be prepared and submitted to ADB.	Complied. Necessary due diligence has been undertaken prior to processing PFR for tranche 2. IEE and EMP has been prepared and approved by ADB for the MN-06 subproject in Manipur.
6.	Schedule 6 : Undertakings, Item 4 4. Counterpart Funding. India and States will provide, as necessary, respective counterpart staff, land facilities, and counterpart funding for the Investment program in accordance with the financing plan; cost of making land available for the Investment Subprojects and assistance, and implementation and monitoring of resettlement plans and environmental management plans (including unforeseen expenses beyond estimates); utility relocation; and general project management expnese in a timely manner through approved annual budget allocations.	Being complied. Counterpart funding and support staffs have been provided by Manipur (as part of PIU) for the implementation of EMP.

F. Compliance to the Civil Works Contract Agreement

32. The contractor is liable to comply with the safeguards clauses included in the contract agreement. Table 10 below provides an update on the status of safeguards compliance by the civil works contractor.

Table 10: Compliance to the safeguards Clauses of the Civil Work Contract

S.N.	Description	Compliance Status
1	Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment Sub Clause 111.1 - General	Being complied.

S.N.	Description	Compliance Status
	<p>The Contractor shall:</p> <ul style="list-style-type: none"> a) Preserve existing trees, plants, and other vegetation that are to remain within or adjacent to the works and shall use every precaution necessary to prevent damage or injury thereto. b) comply with all applicable safety regulations, c) The Contractor shall ensure that no spills, material, road embankment/pavement material bestockpiled around the base of existing trees. d) On completion of the works, all areas disturbed by the Contractor's construction activities (such as areas for compounds, material storage, access and haul roads) shall be restored to their original condition, or as may be acceptable to the Engineer. Restoration shall include ripping, top-soiling of the area and seeding and planting. e) Prior to the commencement of any site works, the Contractor shall develop a Waste Management Plan (WMP) to the satisfaction of the Engineer. The Plan shall provide details of how the Contractor will manage all waste materials generated during the construction phase of the project. Proposed disposal methods shall comply with any relevant laws, rule and regulations in force. The WMP shall include a requirement for the Contractor to obtain written approval from landholders for any disposal sites outside the right of way. f) The Contractor shall engage for the full duration of the Contract, the services of a suitably qualified Environmental Specialist to provide advice about environmental planning, management and mitigation of impacts in accordance with these specifications. g) If so requested by the Engineer, the Contractor shall on two week's notice, make available site staff of foreman level and above for training in the environmental aspects of road construction. The staff to be included in the training shall be chosen by the Engineer. The training shall be of a maximum of two working days duration and shall be held on the site. Training will be arranged by the Engineer. h) The environmental protection requirements detailed in Annexure A to Clause 501 shall be applicable not just to the activities associated with Section 500 but to all activities as described in all other Sections as well. i) Contractor shall carry out all tasks and actions detailed in the Environment Management Action Plan (EMAP) appended to as Annexure - A to these specifications, relevant to this project applicable at construction phase. 	<p>Contractor is taking adequate measures to comply with regulations on safety of workers.</p> <p>Contractor is taking necessary measures.</p> <p>Contractor has developed Waste Management Plan and CSC approved it.</p> <p>Contractor has employed full time staff to look after environmental and safety. Environmental and Safety Officers of civil works contractors' team (CW1-Mr. Rojit Singh, and CW2- Mr. Dhaneshwar Singh).</p> <p>Measures are being taken to protect environment.</p> <p>EMP being implemented by contractor.</p>

S.N.	Description	Compliance Status
2	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.2 - Borrow pits for Embankment Construction</p> <p>a) Where borrow material (including subgrade and sub-base) is required to complete the works, details of the location and extraction methods of borrow sites shall be submitted for the approval of the Engineer. Borrow areas in forest or sanctuary areas or other locations deemed environmentally sensitive by the Engineer shall not be approved. The edges of borrow sites shall be no closer than 3 metres from any fence line or boundary. Adequate clearance shall be provided for the construction of catch drains. Borrow sites shall have adequate drainage outlets unless the relevant landowner has agreed that the borrow area is to create a permanent tank or dam. Cut batter slopes shall not be steeper than 3 to 1 and shall be left by the Contractor in a tidy and safe condition to the satisfaction of the Engineer. Written clearance from the land owner/village head shall be obtained before leaving a site from which borrow material has been extracted. Copies of such clearances shall be provided to the Engineer.</p> <p>b) Site preparation for borrow areas shall be in accordance with Section 201 of this specification.</p> <p>c) Topsoil is to be stripped and stockpiled in accordance with Sub-Clause 301.3.2 and replaced and seeded in accordance with Sub-Clause 308.3.</p> <p>d) Borrow areas shall be top soiled and seeded immediately after the area is no longer required for borrow as directed by the Engineer.</p> <p>e) Approach roads/tracks to borrow areas shall be maintained during use and left in good condition after closing down the borrow areas."</p>	<p>Being complied.</p> <p>Contractor is taking adequate measures to manage the borrow areas.</p>
3	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.3 – Quarry Operations</p> <p>a) New stone quarries shall be at least 1.5 km away from settlements, forests and other ecologically sensitive areas. These shall be 1.5 km</p>	<p>Being complied.</p> <p>Contractor is taking adequate measures to manage quarry operations.</p>

S.N.	Description	Compliance Status
	<p>away from rivers, streams, lakes and 500 metres from ponds. The blasting shall be carried out during fixed hours of the day. The Contractor shall obtain the agreement from the nearby residents as to hours of blasting.”</p> <p>b) The Contractor shall not develop any new quarries or borrow pits without prior written consent of the Engineer. Such consent shall only be provided where the Contractor has demonstrated, to the satisfaction of the Engineer, that the proposed quarry or borrow pit is strictly necessary for the material supply. It shall be the responsibility of the contractor to obtain necessary Lease Deed/Licence/Permits from the concerned department of Mines and Geology or the authorities concerned as per requirements under the Mines and Minerals Act prevailing in the State and clearance from the Forest Department, if required.</p> <p>c) When quarries or borrow pits are located in mountains or hilly areas or areas with unstable slopes, the Contractor shall construct terraces on the quarry faces in accordance with best engineering practice. The maximum gradient after refurbishment of each quarry slope shall not exceed an average value 1:3.</p> <p>d) Prior to commencement of any quarry or borrow pit operations, the Contractor shall develop a Quarry Management Plan (QMP) to the satisfaction of the Engineer. The plan shall include provisions for maintenance of revegetation for two years after establishment.</p> <p>e) Rehabilitation of quarries and borrow pits shall include compliance with the following:</p> <ul style="list-style-type: none"> i) Rehabilitation activity shall commence as soon as the works start and shall proceed in parallel with the extraction of material; ii) Quarries and borrow pits shall be filled by using material resulting from clearing activities and excess cut material from road construction activities; iii) Rehabilitation activity is carried out by reutilizing the removed first layer of soil (approximately 50 cm). This is stored in not excessively big and slightly sloped stockpiles, located in the shade and far from areas of extraction. Stockpiles shall be covered by organic matter such as clods of grass or leaves. 	<p>Quarried and borrow areas are being managed properly.</p>

S.N.	Description	Compliance Status
	<p>The seeding of an herbaceous cover shall be preferred. The soil removed and stored is gradually placed again in the pits and then covered by vegetation. Sods, grass, shrubs or plants shall be used for coverage.</p> <p>f) If the material is obtained from an external or third party supply source, the Contractor shall provide documented evidence to the Engineer that the quarry or borrow pit has been established and is operated in accordance with all required laws, rule and regulations and environmental standards.</p>	
4	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.5 – Pollution from Hot Mix Plants and Batching Plants</p> <p>a) Hot mix plants should be located at least 1.5 km from the nearest habitation, school, hospital, 1.5 km from any archaeological site, 1.5 km from ecologically sensitive areas including forest, national park, sanctuary etc., 1.5 km from rivers, streams and lakes, 500 m from ponds, 500 m from national highway, 250 m from state highway, unless otherwise required by statutory requirements. Locations for hot mix and batching plants shall be subject to the approval of the Engineer.”</p> <p>b) Before setting up the hot mix plant and the batching plant, the contractor shall obtain “consent to establish” and “consent to operate” from the concerned State Pollution Control Board.</p>	<p>Being complied.</p> <p>Consents from Pollution Control Board have been obtained by Contractor. Annex 5.</p>
5	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.6 – Substances Hazardous to Health</p> <p>a) The use of any herbicide or other toxic chemical shall be strictly in accordance with the manufacturer's instructions. The Engineer shall be given at least 6 working days notice of the proposed use of any herbicide or toxic chemical.</p> <p>b) A register of all herbicides and other toxic chemicals delivered to the site, shall be kept and maintained up to date by the Contractor. The</p>	<p>Being Complied. (no Substances Hazardous to Health /related is used in the construction work)</p>

S.N.	Description	Compliance Status
	register shall include the trade name, physical properties and characteristics, chemical ingredients, health and safety hazard information, safe handling and storage procedures, and emergency and first aid procedures for the product.”	
6	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.8</p> <p>a) At the direction of the Engineer, the Contractor shall provide for the laying of dust palliative on, or the watering, of the works and of roads, and other areas immediately adjacent to the works or affected by the works. This shall also include borrow areas, access tracks to borrow areas, bypass and diversion roads, construction camp areas and access roads, quarry sites and access roads and hot mix plants and access roads. The materials and methods used for dust control shall be subject to the approval of the Engineer.</p>	<p>Complied</p> <p>Water sprinkling has been carried out regularly.</p>
7	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.13 – Vehicle and Machinery Pollution</p> <p>a) Vehicles and machinery used for road construction shall be regularly maintained to conform to State Pollution Control Board rules and regulations.</p>	<p>Being complied.</p> <p>Construction vehicles and machineries are being maintained as per SPCB norms.</p>
8	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.14 – Blasting</p> <p>a) Blasting shall be carried out in accordance with the rules and regulations of the Indian Explosive Act.</p> <p>b) People living near such blasting sites should have prior information of operation hours. Workers at blasting sites will be provided with earplugs. Vehicles transporting earth materials will be covered.</p> <p>c) Red danger flags shall be displayed prominently in all directions during the blasting operations. The flags shall be planted 200 m and 500 m from the blasting site in all directions for blasting at work site and quarry, respectively. People, except those who actually light the fuse, shall be prohibited from entering this area and all</p>	<p>Being complied.</p> <p>Adequate measures are being taken for blasting operations.</p>

S.N.	Description	Compliance Status
	<p>persons including workmen shall be excluded from the flagged area at least 10 minutes before the firing, a warning siren being sounded for the purpose.</p> <p>d) The Contractor shall notify each public utility body having services in proximity to the site of the work of his intention to use explosives. Such notice shall be given sufficiently in advance to enable the concerned authorities to take such steps as they may deem necessary to protect their services/property from injury. In advance of any blasting work within 50 m of any railway track or structures, the Contractor shall notify the concerned Railway Authority of the location, date, time and approximate duration of such blasting operations.</p> <p>e) The Contractor shall adequately compensate in a timely manner for any damage to property/services and life caused by their blasting”</p>	
9	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.15 – Oil and Bitumen Spills</p> <p>a) Spilling of oil and bituminous products during the construction phase shall be avoided. The Contractor shall remove all oil and bituminous product spills to the satisfaction of the Engineer and dispose of this material in accordance with the laws, rules and regulations in force. Bitumen and new exhausted oils shall be stored in elevated tanks located on concrete bases surrounded by walls sufficiently high to contain liquids in case of break or accidental spill.”</p>	Being complied.
10	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.16 – Construction Camps</p> <p>a) Construction camps shall be located a minimum of 1.5 km from boundaries of designated Reserve Forest, Sanctuary or National Park, 1.5 km from rivers, streams and lakes and 500 metres from ponds, 250 m from the boundary of state and national highways and 1.5 km from the nearest human habitation. Construction camps shall be properly located to avoid contamination of water through wastewater drainage into river and canals. To prevent such contamination, wastewater generated at the campsite will be discharged in soak pits. For human excreta, proper disposal shall be through septic tanks or deep trenches.</p> <p>b) During construction the Contractor shall:</p> <p>i. undertake daily and regular cleaning in accordance</p>	<p>Being complied.</p> <p>Construction camps are established as per SPCB norms stipulated under Consent to Establish.</p> <p>Adequate measures are taken to manage waste from construction camps.</p>

S.N.	Description	Compliance Status
	<p>with the Waste Management Plan to ensure that site of works, structures, temporary offices and accommodation quarters, are maintained free from accumulations of waste materials, rubbish, and other debris resulting from the site work operations and maintain the site in a neat and orderly condition at all times;</p> <p>ii. maintain the site in a neat and orderly condition at all times;</p> <p>iii. dispose of all waste materials in accordance with the Waste Management Plan;</p> <p>iv. ensure that the drainage system is maintained free of debris and loose materials and is in an operational condition at all times;</p> <p>v. provide on-site drum containers with lids for the collection of waste materials, debris and rubbish awaiting removal from the site;</p> <p>vi. dispose of waste materials, contaminated material at designated dumping areas, and shall not bury rubbish and waste materials on the Project site without the written approval of the Engineer;</p> <p>viii. not dispose of volatile wastes such as mineral spirits, oils or paint thinners in streams or sanitary drains; and</p> <p>ix. not dispose of wastes into streams or waterways.</p>	
11	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.17 – Storage and Stockpile Areas</p> <p>a) Storage and stockpile sites shall be free of vegetation and debris, free draining and if necessary shall be elevated. Material placed directly on the ground shall not be used in the Works unless the site has been prepared and surfaced with a 10 (ten) centimeter layer of sand or gravel to the satisfaction of the Engineer.</p> <p>b) Surface run-off from storage and stockpile sites shall not be discharged into any water course without prior treatment.</p> <p>c) The Contractor shall develop a Storage and Stockpile Site Management Plan to the satisfaction of the Engineer to ensure that storage and stockpile sites are returned to a condition in which they do not contribute pollution to surrounding air, surface water, ground water and land.</p>	Being complied.
12	<p>Section 6 (a) Technical Specifications, Clause 111. Precautions for Safeguarding the Environment</p> <p>Sub Clause 111.18 – Measurement for Payment and Rate</p>	Being complied.

S.N.	Description	Compliance Status
	a) The cost of all works associated with environmental protection as described in Clause 111 are deemed to be incidental to the works and are included in the rates for the items of work included in the Bill of Quantities and no separate payment will be made."	
13	<p>Section 6 (a) Technical Specifications, Clause 127. Safety</p> <p>a) The Contractor shall, at all times during the continuance of the Contract, comply fully with all existing Acts, Regulations and By laws of State and Central Government and other local authorities and any other enactments, notifications and acts that may be passed in future either by the State or the Central Government or local authority with respect to the safety of both the Contractor's employees and the public.</p> <p>b) At every large workplace (Contracts greater than Rs 100 Crore in value), there shall be provided and maintained an ambulance room containing the prescribed equipment and in the charge of such medical and nursing staff as may be prescribed.</p> <p>c) At every workplace, there shall be mentioned in a readily accessible place first aid appliance including an adequate supply of sterilized dressings and sterilized cotton wool as prescribed in the Factory Rules of the State in which the work is carried on. The appliances shall be kept in good working order and, in large work places, these shall be placed under the charge of a responsible person who shall be readily available during working hours.</p> <p>d) All necessary personal safety equipment as considered necessary by the Engineer shall be available for use of persons employed on the Site and maintained in a condition suitable for immediate use. The Contractor shall take adequate steps to ensure proper use of such equipment by those concerned. Workers employed on mixing and placing asphaltic materials, cement/lime mortars, concrete etc. shall be provided with protective footwear and protective goggles. Those engaged in handling any material, which is injurious to the eyes, shall be provided with protective goggles. Those engaged in construction of bridges shall be provided hard hats. Those engaged in welding works shall be provided with welder's protective eye-shield. Those involved in stone breaking shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals. Those involved in crushing plants shall be provided with protective goggles and ear plugs."</p> <p>e) The cost of provision of safety requirements as specified above and in the General Conditions of Contract shall be</p>	<p>Being complied.</p> <p>Contractor is taking adequate measures to comply with regulations on safety of workers.</p>

S.N.	Description	Compliance Status
	incidental to the work and no separate payment shall be made for these items.	
14	<p>GCC Sub Clause 4.8</p> <p>Safety Procedures</p> <p>The Contractor shall:</p> <ul style="list-style-type: none"> a) comply with all applicable safety regulations, b) take care for safety of all persons entitled to be on the Site, c) use reasonable efforts to keep the Site and Works clear of unnecessary obstruction so as to avoid danger to these persons, d) provide fencing, lighting, guarding and watching of the Works until completion and taking over under Clause 10 [Employer's Taking Over], and e) Provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and the owners and occupiers of adjacent land. 	<p>Being complied.</p> <p>Contractor is taking adequate measures to comply with regulations on safety of workers.</p>
15.	<p>GCC Sub-Clause 4.18</p> <p>Protection of the Environment</p> <p>The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise and other results of his operations.</p> <p>The Contractor shall ensure that emissions, surface discharges and effluent from the Contractor's activities shall not exceed the values indicated in the Employer's Requirements, and shall not exceed the values prescribed by applicable laws.</p>	<p>Being complied.</p> <p>Contractor is in the process of conducting monitoring of air, water and noise levels.</p>
16.	<p>GCC Sub-Clause 6.7</p> <p>Health & Safety</p> <p>The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site and at any accommodation for Contractor's and Employer's Personnel, and that suitable arrangements</p>	<p>Being complied.</p> <p>Contractor is taking adequate measures as per the provision of EMP, which is also a part of bidding document.</p>

S.N.	Description	Compliance Status
	<p>are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.</p> <p>The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility, and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the execution of the Works, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.</p> <p>The Contractor shall send, to the Engineer, details of any accident as soon as practicable after its occurrence. The Contractor shall maintain records and make reports concerning health, safety and welfare of persons, and damage to property, as the Engineer may reasonably require.</p> <p>HIV/AIDS Prevention. The Contractor shall conduct an HIV/AIDS awareness programme via an approved service provider, and shall undertake such other measures as are specified in this Contract to reduce the risk of the transfer of the HIV virus between and among the Contractor's Personnel and the local community, to promote early diagnosis and to assist affected individuals.</p> <p>The Contractor shall throughout the contract (including the Defects Notification Period): (i) conduct Information, Education and Communication (IEC) campaigns, at least every other month, addressed to all the Site staff and labour (including all the Contractor's employees, all Subcontractors and any other Contractor's or Employer's personnel employees, and all truck drivers and crew making deliveries to Site for construction activities) and to the immediate local communities, concerning the risks, dangers and impact, and appropriate avoidance behaviour with respect to, of Sexually Transmitted Diseases (STD) – or Sexually Transmitted Infections (STI) in general and HIV/AIDS in particular; (ii) provide male or female condoms for all Site staff and labour as appropriate; and (iii) provide for STI and HIV/AIDS screening, diagnosis, counseling and referral to a dedicated national STI and HIV/AIDS programme, (unless otherwise agreed) of all Site staff and labour.</p> <p>The Contractor shall include in the programme to be submitted for the execution of the Works under Sub-Clause 8.3 an alleviation programme for Site staff and</p>	<p>Contractors have appointed Safety and Accident Prevention officers in both the packages (CW1-Mr. Rojit Singh, and CW2- Mr. Dhaneshwar Singh).</p> <p>Being complied.</p> <p>HIV/AIDS awareness programs are being implemented by NGO engaged for the subproject.</p>

S.N.	Description	Compliance Status
	labour and their families in respect of Sexually Transmitted Infections (STI) and Sexually Transmitted Diseases (STD) including HIV/AIDS. The STI, STD and HIV/AIDS alleviation programme shall indicate when, how and at what the Contractor cost plans to satisfy the requirements of this Sub-Clause and the related specification. For each component, the programme shall detail the resources to be provided or utilised and any related sub-contracting proposed. The programme shall also include provision of a detailed cost estimate with supporting documentation. Payment to the Contractor for preparation and implementation of this programme shall not exceed the Provisional Sum dedicated for this purpose.	
17.	<p>PCC Sub-Clause 4.8</p> <p>Safety Procedures</p> <p>Within twenty-eight (28) days of the Commencement Date, and before commencing any construction on Site, the Contractor shall provide a Site Safety Manual, which shall be subject to the Engineer's consent, specifically for the Site which shall establish all of the requirements for effecting and maintaining a safe working environment for Contractor's and Employer's Personnel and any other authorized personnel entering the Site in accordance with the Contractor's obligations. The Site Safety Manual shall include all of safety obligations of the Contractor including safe traffic management for all Site activities and personal protective equipment required for each working area. The Manual shall be revised as deemed necessary by the Contractor's accident prevention officer or, without relieving the Contractor of any of his obligations or responsibilities under the Contract, at the request of the Engineer."</p>	Complied. (Site safety Manual submitted and approved by CSC)
18.	<p>PCC Sub-Clause 4.18</p> <p>Protection of the Environment</p> <p>The Contractor shall comply with the environmental Laws of the Country and the requirements of the Specification to ensure environmental disturbance or damage is minimised and any damage is rectified promptly. The Contractor shall also comply with all reasonable requests of the national and local authorities responsible for enforcing environmental controls.</p> <p>The Contractor shall confine his work within the limits</p>	<p>Being complied.</p> <p>Laws and regulations of GOI are being followed for the subproject implementation.</p>

S.N.	Description	Compliance Status
	<p>of the Site to the maximum practicable extent and avoid undue interference with existing land use adjacent to the Site.</p> <p>Within 28 days of the Commencement Date the Contractor shall submit a detailed Environmental Management Plan for the Engineer's approval showing how he intends to comply with environmental laws and regulations and other specific environmental requirements prescribed in the Contract. Work shall not commence on the Site until the plan has been accepted by the Engineer and is being implemented. Such acceptance by the Engineer shall not relieve the Contractor of any of his obligations or responsibilities under the Contract.</p> <p>The Contractor shall (a) establish an operational system for managing environmental impacts, (b) carry out all of the monitoring and mitigation measures set forth in the Environmental Assessment and Review Framework, Initial Management Plan and (c) allocate the budget required to ensure that such measures are carried out. The Contractor shall submit semi annual/annual reports on the carrying out of such measures to the EA."</p>	<p>EMP has been approved by CSC and Contractor is implementing approved EMP.</p> <p>EMP prepared as part of IEE is being implemented by contractor.</p> <p>Monthly progress reports are being submitted by CSC to PIU.</p>

3. COMPLIANCE TO THE ENVIRONMENTAL MANAGEMENT PLAN

33. The environmental management plan (EMP) for the subproject was provided in Annexure 6 of the IEE report and also attached to the contract documents. As per EMP, five (05) environmental management activities were required to be implemented during the pre-construction stage (PC 1 – PC5); ten (10) activities are required to be implemented during the construction stage (C1– C10); and seven (07) activities are required to be implemented during the operation stage (O1 – O7). The Table 11 lists out the status of activities during the pre-construction and construction stage as of February 2015.

Table 11: Status of Compliance to the EMP (as on February 2015)

S.N.	Environmental Issue	Mitigation Measures	Compliance attained (Yes, No, Partial)	Comment/Reasons for Partial or Non-Compliance	Issues for further action and target dates
		PRE-CONSTRUCTION PHASE			
PC-1	Obtainment of appropriate NOC/permits	<ul style="list-style-type: none"> Processing of NOC/permits on a timely basis. 	Partial. Necessary NOCs/permits have been obtained. Forest clearance for CW2 is under processing. Environmental Clearance is under processing. Details of NOCs/permits secured is provided in Section xx	Regional office of MoEF has asked for additional certificates. SEIAA is examining the application for sections of subproject road situated above 1000 m above MSL.	Furnish additional details to MoEF. Follow up with SEIAA.
PC-2	Involuntary resettlement or land acquisition	<ul style="list-style-type: none"> Compensation paid for temporary/ permanent loss of productive land as per entitlement framework and its process 	Yes.		
PC-3	Tree cutting	<ul style="list-style-type: none"> Restricting tree cutting within construction limit Avoiding tree cutting at ancillary sites Providing and maintaining compensatory plantation of 12315trees i.e. three times of cutting. 	Yes Budget has been provided to forest department for compensatory afforestation plan.		

S.N.	Environmental Issue	Mitigation Measures	Compliance attained (Yes, No, Partial)	Comment/Reasons for Partial or Non-Compliance	Issues for further action and target dates
PC-4	Removal of utilities	<ul style="list-style-type: none"> Necessary planning and coordination with concerned authority and local body Prior notice to and consultation with concerned authority, local body and public to be affected so as to ensure that work does not get affected and impact on public is minimum. 	Yes.		
PC-5	Religious places	<ul style="list-style-type: none"> Suitable mitigation measures are incorporated in resettlement plan. 	Yes.		
		CONSTRUCTION PHASE			
C-1	Air Pollution	<ul style="list-style-type: none"> Maintenance of Construction plants, equipment and vehicles. Maintaining diversion and detour for road traffic in good shape and traffic regulated. Regular sprinkling of water, as necessary. Maintaining adequate moisture at surface of any earthwork layer completed or non-completed unless and until base course is applied, to avoid dust emission. Stockpiling spoil at designated areas and at least 5 m away from traffic lane. Management of borrow pits and haul road Sprinkling of water as necessary. 	Yes.		
C-2	Water Pollution	<ul style="list-style-type: none"> Constructing and maintaining diversion channel, sedimentation basin, dykes, etc. as may be required to temporarily channelise water flow of streams / river Storage of construction material and excavated soil above high flood level Strictly avoiding cleaning / washing of construction vehicle in any water body 	Yes.		

S.N.	Environmental Issue	Mitigation Measures	Compliance attained (Yes, No, Partial)	Comment/Reasons for Partial or Non-Compliance	Issues for further action and target dates
		<ul style="list-style-type: none"> • Proper planning of site clearing and grubbing so as not to keep the cleared site before working for long duration. • Providing temporary side drains, catch water bank or drains, sedimentation basin, as necessary to avoid or minimize erosion and prevent sedimentation to receiving water bodies • Management of Seepage from Construction Debris Refer • Maintenance of Construction camp and workers' camp 			
C-3	Ground water Pollution	<ul style="list-style-type: none"> • All wastewater will be diverted to a ditch that will be managed for the period of construction and after construction such ditches will be filled and restored to original condition. • Excavation of borrow pit should not touch the aquifer • Providing septic tanks for treating sewage from toilets before discharging through soak pits • Locating soak pits at least 50m from any ground water sources • Decanting and or controlled disposal of oil and grease as collected at collection tanks of maintenance yard and chemical storage areas • Maintenance of Construction camp and workers' camp 	Yes.		

S.N.	Environmental Issue	Mitigation Measures	Compliance attained (Yes, No, Partial)	Comment/Reasons for Partial or Non-Compliance	Issues for further action and target dates
C-4	Noise Pollution and Vibration	<ul style="list-style-type: none"> • Site Controls: Stationary equipment will be placed along un-inhabited stretches as per distance requirements computed above as far as practicable to minimize objectionable noise impacts. • Scheduling of Project Activities: Operations will be scheduled to coincide with period when people would least likely to be affected. Construction activities will be avoided between 9 P.M. and 6 A.M. near residential areas. • Protection devices (ear plugs or ear muffs) will be provided to the workers operating in the vicinity of high noise generating machines. • Construction equipment and machinery should be fitted with silencers and maintained properly. • Source-control through proper maintenance of all equipment. • Use of properly designed engine enclosures and intake silencers. • Noise measurements should be carried out along the road to ensure the effectiveness of mitigation measures. • Vehicles and equipment used should conform to the prescribed noise pollution norms. • Movements of heavy construction vehicles and equipment near public properties will be restricted. • Comply with siting criteria for stone crushers, Hot Mix Plant/s (HMP) and concrete batching plant/s (CBP), and installations and maintenance of pollution control devices. • Identification, and operation of quarry areas and adopting controlled blasting. 	Yes.	Enforcement on regular use of PPE and good house keeping further required.	

S.N.	Environmental Issue	Mitigation Measures	Compliance attained (Yes, No, Partial)	Comment/Reasons for Partial or Non-Compliance	Issues for further action and target dates
C-5	Land Pollution	<ul style="list-style-type: none"> • Providing impervious platform and oil and grease trap for collection of spillage from construction equipment vehicle maintenance platform • Collection oil and lubes drips in container during repairing construction equipment vehicles • Providing impervious platform and collection tank for spillage of liquid fuel and lubes at storage area • Providing bulk bituminous storage tank instead of drums for storage of bitumen and bitumen emulsion • Providing impervious base at bitumen and emulsion storage area and regular clearing of any bitumen spillage for controlled disposal • Reusing bitumen spillage • Disposing non-usable bitumen spills in a deep trench providing clay lining at the bottom and filled with soil at the top (for at least 0.5 m) • Maintenance of Construction camp and workers' camp 	Yes.		
		<ul style="list-style-type: none"> • Collecting kitchen waste at separate bins and disposing of in a pit at designated area/s • Collecting plastics in separate bins and disposing in deep trench at designated area/s covering with soil • Collecting cottons, clothes etc. at separate bins and burning in a pit (with sand bed) 	Yes.		
		<ul style="list-style-type: none"> • Controlled operation and redevelopment of borrow pits to avoid water logging and land contamination 	Yes.		

S.N.	Environmental Issue	Mitigation Measures	Compliance attained (Yes, No, Partial)	Comment/Reasons for Partial or Non-Compliance	Issues for further action and target dates
C-6	Loss of topsoil	<ul style="list-style-type: none"> The topsoil from all areas of cutting and all areas to be permanently covered shall be stripped to a specified depth of 150 mm and stored in stockpiles. At least 10% of the temporarily acquired area shall be earmarked for storing topsoil. The stockpile shall be designed such that the slope does not exceed 1:2 (vertical to horizontal), and the height of the pile be restricted to 2m. To retain soil and to allow percolation of water, the edges of the pile shall be protected by silt fencing. Stockpiles will not be surcharged or otherwise loaded and multiple handling will be kept to a minimum to ensure that no compaction will occur. The stockpiles shall be covered with gunny bags or tarpaulin. It shall be ensured by the contractor that the topsoil will not be unnecessarily trafficked either before stripping or when in stockpiles. Such stockpiled topsoil will be returned to cover the disturbed area and cut slopes. Residual topsoil will be distributed on adjoining/proximate barren/rocky areas as identified by the SC in a layer of thickness of 75mm – 150mm. Top soil shall also be utilized for redevelopment of borrow areas, landscaping along slopes, medians and incidental spaces. 	Yes.		
C-7	Compaction of soil	<ul style="list-style-type: none"> Construction vehicle, machinery and equipment shall move or be stationed in the designated area (RoW or Col, as applicable) only. While operating on temporarily acquired land for traffic detours, storage, material handling or any other construction related or incidental activities, topsoil from agricultural land will be preserved as mentioned above. 	Yes.		
C-8	Ecology	<ul style="list-style-type: none"> Restricting tree cutting within corridor of impact 	Yes		

S.N.	Environmental Issue	Mitigation Measures	Compliance attained (Yes, No, Partial)	Comment/Reasons for Partial or Non-Compliance	Issues for further action and target dates
		<ul style="list-style-type: none"> Minimizing tree cutting and vegetation clearance during site selection Preservation of trees within ancillary sites and avoiding impact on forest resources by providing buffer area from boundary of PF, RF, national park and wildlife sanctuary of 1km for locating construction plants, construction camp, and quarry and 500 m for borrow areas Preservation of trees of ecological, socio-cultural importance Providing cooking at camp for discouraging and prohibiting use of fire-wood i.e. cutting of trees by the workers. 	Yes.		
C-9	Occupational health and safety of workers	<ul style="list-style-type: none"> Water supply, sanitation, drainage and medical health facilities at campsite Providing and using PPEs Using working reverse horn for all construction equipment and vehicles Providing earth link circuit breaker (ELCB) for all electrical connections Maintaining first aid at construction sites Maintaining emergency response system Maintenance of Construction camp and workers' camp 	Partial.	PPEs are provided but workers feeling uncomfortable with use of them.	Awareness and enforcement on regular use of PPE and good house keeping further required at construction sites.
C-10	Accidents and safety	<ul style="list-style-type: none"> Providing and maintaining traffic management comprising diversion; warning, guiding and regulatory signage; channelisers and delineators; lighting, flagmen; dust control system etc. as specified in the contract. Providing adequate light at construction zone if working during night time is permitted by the Engineer Conducting induction and periodic training for all workers and supervisors 	Yes. Proper traffic management plan is in place in coordination with government agencies.		
		<ul style="list-style-type: none"> Conducting periodic mock drilling on critical accident prone activities Conducting periodic training for all personnel working at plant site 	Yes. Trainings and mock drills are being conducted regularly.		

4. SUMMARY OF ENVIRONMENTAL MONITORING

A. Summary of Inspection Activities

34. Site inspections are being carried out by Environmental Specialist of the construction supervision consultant (CSC) in both the contract packages (CW1 and CW2) on monthly /bimonthly basis. The Environmental Specialist were joined by Assistant Resident Engineer (CSC), Field Engineers (SCS), Project Managers (Contractor) and Environment Health and Safety Officer (EHSO) of Contractor during the field inspections. A total of 11 inspection visits were conducted by CSC and PIU officers during the month of December 2014 and January 2015. During the visits, various ongoing activities were observed and these activities were reviewed in connection with the environmental, health and safety (EHS) requirements. Following to the reviews, information were sought from the contractor on various aspects relating to the EHS compliances. The findings of the inspection visits are reported in the monthly and quarterly progress reports. Further details on the inspections carried out and key findings are provided below.

35. **Package CW1 (Tupul–Bishnupur):** Latest inspection visits carried out on contract package CW1 are listed below.

- Joint inspection visit by CSC and PIU Safeguards team on 19 December 2014,
- A joint team of ADB led by Mr. Chen Chen, Project Officer along with PIU official, PMC, CSC Team, NGO and Contractor visited the site on 31 January 2015 to review the progress of the subproject and meeting with the local peoples of the area,
- A team led by ARE CSC visited the site on 8 January 2015 and 29 January 2015 to review the ongoing work in the subproject,
- A team led by DLT along with ARE and Socio-Economic Impact Monitoring Specialist of CSC visited the site on 13 January 2015,
- Survey Engineer and other field staffs are regularly attending the site to inspect the progress of works.

36. **Package CW2 (Thoubal–Kasom Khullen):** Latest inspection visits carried out on contract package CW2 are listed below.

- Joint inspection visit by CSC and PIU Safeguards team on 20 December 2014,
- A joint team of ADB led by Mr. Tsuneyuki Sakai, Transport Specialist along with PIU official, PMC, CSC Team, NGO and Contractor visited the site on 31 January 2015 to review the progress of the subproject and meeting with the local peoples of the area,
- A team led by DTL CSC visited site on 13 January 2015. A team led by DTL along with Survey Engineer, Rehabilitation and Resettlement Specialist and Environmental Specialist visited the site on 14 January 2015,
- A team of PIU led by Mr. Mohendra and Mr. Deben along with CSC team, NGO and village authority visited the site on 21 January 2015 for redemarcation of ROW,
- On 11 January 2015 AIDS Awareness camp has been organized by contractor in coordination with PIU and CSC at Km. 96+900,

- A team led by PD PIU along with CSC team visited the site on 8 January 2015 to review the progress of the subproject,
- Survey Engineer and other field staffs are regularly attending the site to inspect the progress of works.

37. During the reporting period following major issues were observed and the contractors were requested for their early compliances:

- Provision of additional safety measures for road users at work sites,
- Safety of workers, machinery and plant by external elements,
- Approval of muck dumping area,
- Provision of safe drinking water supply to the workers,
- Proper drainage system within camp premises,
- Provision and use of PPE for workers,
- Availability of ambulance and medical aid facility within camps,
- Monitoring of environmental quality baseline data,
- Established the emergency response system.

B. Monitoring of Ambient Air, Noise and Water Quality

38. No environmental quality data collection (monitoring) has been carried out during the reported period. This is mainly due to unavailability of NABET affiliated monitoring laboratories in the State and remoteness of the construction sites. Contractor in coordination with CSC and PIU has been trying to hire monitoring agencies from other nearby state. State Pollution Control Board of Manipur has also been approached by contractor for this purpose.

39. In the meantime contractor is implementing adequate measures to control dust, noise and water pollution. The mitigation measures, which have adopted to reduce the air pollution are: all transportation of construction materials should be covered manner. To minimize dust emission due to handling of aggregate and cement at site, there are two time sprinkling of water on the roads. Vehicle speed restriction of 5-10 km/hrs have been followed at site, tyre washing facility have provided for cleaning of vehicles at camps.

40. To control noise pollution construction vehicles and machineries are being maintained regularly, timely scheduling of construction activities and controlled movement of construction vehicles.

5. PUBLIC CONSULTATIONS AND ADDRESSING OF GRIEVANCES

A. Public Consultations carried out

41. Consultations are being held regularly (daily, weekly) basis with the local people, village chiefs, affected peoples in the project area including relevant government agencies.

42. PIU has taken all possible measures to ensure that following concerns are regularly addressed:

- a) Controlled construction activities in settlement locations,
- b) Traffic diversion during construction, and
- c) Inclusion of all key stakeholders.

B. Complaints and Requests Received

43. A summary of the grievances and requests received from the local people in the project area and actions taken to address them are provided in table 13. During the reporting period the grievances are mostly related to the compensation for loss of structures/properties and health and safety due to construction activities. There are only two formal complaint received during reporting period. During construction activity unknowingly JCB has disturb the existing water supply pipe line (about 1 kms) at chainage km125.00 (khamlang village). Villagers submitted complaint to the contractor, and then the complaint was forwarded to the Project Director at PIU. Project director has taken immediate actions and instructed the contractor to replace all the damage pipe line. Contractor has replaced the water supply pipeline and within 2 days the regular water supply has been restored. During the restoration period contractor has supplied drinking water to villagers by water tanks.

44. Another complaint was received by PIU from an individual on applicability and need of environmental clearance from the central government. PIU has consulted State Level Environmental Impact Assessment Authority of Manipur to seek clarifications on this aspects and accordingly necessary actions have been taken.

45. Other minor onsite grievances are being addressed in consultation with local communities and village chiefs. The complaints and grievances are being addressed as per the project provisions and in consultation with communities.

6. UNANTICIPATED ENVIRONMENTAL ISSUES

46. During the reporting period no major unanticipated issues were encountered. Only issues of the applicability of environmental clearance to the subproject has been discussed with the State Level Environmental Impact Assessment Agency and appropriate action are being taken by PIU on the recommendations of the SEIAA.

7. CONCLUSION

A. Summarize the overall Progress of Implementation of safeguard Measures⁴

47. The implementation of environmental management measures in this subproject face some difficulties but it can be concluded that the overall progress of implementing environmental safeguard measures show a highly satisfactory level. PIU environmental officer is active in coordinating the implementation of environment safeguards. CSC environmental specialist has been working closely with the environmental officer of the PIU and conducting regular site inspections. Table 12 shows a comparative scenario of implementing environmental management measures for both the contract packages.

Table 12: Overall Progress

Site Safety	Workers Safety	Protection of Environment	Protection of Cultural Heritage	Statutory Approvals	Filling of Checklists	Overall Rank
2	2	1	2	2	1	2

B. Problems Identified and Actions Recommended

48. During the reporting period (February 2014-January 2015) some of the issues have been identified such as compliance with statutory requirements, monitoring of environmental quality data, impacts on air quality to dust emissions, inadequate road safety and health safety measures, inadequate consultation and communication with affected communities, proper documentations and record keeping, information disclosure. Following actions were recommended to address these problems.

- Follow-up with State Level Environmental Impact Assessment Agency to get environmental clearance for sections of subproject road with elevation of 1000 m above MSL.
- Follow-up with forest department to get final forest clearance for Thoubal-Kasom Khullen (CW2) road section.
- Follow-up with pollution control board / government agencies to get pending approvals/permits for contractor's facilities.
- Expedite hiring of environmental monitoring agency and conduct monitoring of air, water and noise quality along the project road.
- Awareness to workers on use of PPEs and health and safety aspects,
- Consultation with village chiefs and affected communities to clearly explain the precautionary measures being taken to protect environment and on road safety including traffic management plans.
- Provisions of adequate health care and sanitation facilities at construction and labour camps.
- Improvements in maintenance of records and reporting.

⁴Overall sector environmental management progress could be described in qualitative terms or be evaluated based on a ranking system, such as the following:

1. Very Good
2. Good
3. Fair
4. Poor
5. Very Poor

Additional explanatory comments should be provided as necessary.

APPENDICES

1. Photolog of work progress
2. NOC from SEIAA to commence the work
3. NOC from Forest Department to commence the work
4. Forest Clearance for Package CW1
5. NOCs and Consents from Pollution Control Board
6. Permits and NOCs from other department

Appendix 1: Photolog of Progress



Excavation work at km.41+300 on 8/1/2015



Excavation work at km.40+200 on 13/1/2015



Site inspection by ADB team at Km. 39+800 on 31 Jan 2015



Consultation Meeting with Project team and local people at Base Camp on 31 Jan 2015



Sub grade in progress at km. 107+300 on 6 Jan 2015



Laying of GSB at km. 109+900 on 12 Jan 2015



AIDS Awareness Camp at Km. 96+900 on 11/1/2015



AIDS Awareness Camp at Km. 96+900 on 11/1/2015



Interaction with site officials by ADB Inspection Team at 106+100 on 31 Jan 2015



Consultation Meeting with Project team and local people at Base Camp (km 96+900) on 31 Jan 2015



Storage of Lubricant in open area at construction camp (CW2)



Dust control is a major issue in CW2



Dumping ground at chainage-106+320 CW2



Inspection of Dumping ground at chainage-111+000 CW2



Villagers Cottage on dumping area at chainage-114+500 as a Mechanic shop



Contractor camp establishment work is in Progress



Land slide at chainage-113+250 CW2



Two Dozers Burnt By Extremists at chainage km125+200



Water tanker is available at camp



Water supply pipeline laid by Contractor for villages



Metting with village head at Ch-127.00



Dumping ground inspection by PIU and CSC

Appendix 2: NOC from State Level Environmental Impact Assessment Agency

Government of Manipur
Directorate of Environment
Porompat, Imphal - 05

Imphal, the 13th January 2015

No. 1/43/2014(EIA)/DoE

To,
The Project Director
PIU, NESRIP, PWD
Manipur

Sub. : Clarification regarding Environment Clearance for improvement / upgradation of the road Sub-sections of Tupul to Kasom - Khullen (MN-06) in the state of Manipur ;

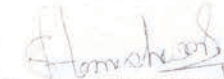
Sir,

With reference to your letter No. 9/PD/NESRIP/Forest & Envn / 2013, dtd. 7th January, 2015 on the above subject, I am to state that as per Government of India Notifications vide No. S.O. 3067(E), dtd. 1st December, 2009 and S.O. 2559 (E), dtd. 22nd August, 2013 in the Ministry of Environment & Forests (copy enclosed), prior Environmental Clearance is required if the state highway expansion projects are above 1,000 m AMSL and/or ecologically sensitive areas for the expansion projects. Therefore, the office has no objection to take up the proposed project for improvement / up-gradation of the road sub-section of Tupul to Kasom Khullen (MN-06) as given hereunder without prior Environmental Clearance since the proposed sub sections are less than 1000 m AMSL or does not fall under the ecologically sensitive areas.

Sl. No.	Road	Length (km)	Terrain	Land Use	Average Elevation above MSL (m)
1.	Tupul to Charoi (0.00 - 7.58 km)	7.58	Hilly	Forest	431.439 - 999.439
2.	Chini Ingkhol to Bishnupur (46.32 - 50.80 km)	4.48	Hilly	Forest	999.860 - 789.496
3.	Thoubal to Yairipok (81.45 - 90.45 km)	9	Plain	Residential / Agricultural	767.090 - 776.143
4.	Yairipok to Chandrakhong / Mayaikethel (90.45 - 99.45 km)	9	Plain / Rolling	Mixed Residential / Agricultural / Forest	776.143 - 846.770
5.	Chandrakhong / Mayaikethel to Yeasom (99.45 - 106.06 km)	6.61	Plain / Rolling	Forest	846.770 - 999.514

Encl. : As above

Yours sincerely


(Dr. M. Homeshwor Singh)
DIRECTOR
and
Member Secretary, (SEIAA- Manipur)

Copy to :

1. The Chairman, State Level Environmental Impact Assessment Authority (SEIAA), Manipur.

Appendix 3: NOC from Forest Department to Commence Work in Non-Forest Areas

Government of Manipur
Office of the Principal Chief Conservator of Forests
Sanjenthong, Imphal.

NO OBJECTION CERTIFICATE
Imphal, the 21st February, 2014.

No. 7/91/2013/Forests: The User Agency, Public Works Department, Manipur represented by the Project Director, NESRIP, PWD has submitted undertaking vide Ref. No.9/PD/NESRIP/Forest & Env/2013/235 dated 14.02.2014 as required under Para 4.4 of the Guidelines for diversion of forest land for non-forest purposes under Forest (Conservation) Act, 1980 vide Para 1 of the letter F.No. 11-63/2012-FC dated 07.01.2013 stating that " *The project implementing Unit (PIU), NESRIP, the executing agency of the Project, MN06-CW1: Tupul to Bishnupur from 48.143 Km to 50.800 Km (2.657 Km) and MN06-CW2: Thoubal to Kasom Khullen from 0.00 Km to 13.018 Km (13.018 Km) excluding the Gwarok Reserved Forest (0.280 Km) undertakes that the execution of the work on non-forest land shall not be cited as a reason for grant of approval under the Act and in case approval under the Act for diversion of forest land is declined, width of the portion of road falling in forest land will be maintained at its existing level*".

Now, the Forest Department, Manipur has no objection to the execution of road improvement works by the User Agency from Thoubal to Kasom Khullen (0.00 Km to 13.018 Km) located in non-forest land excluding the portion of 0.280 Km falling in Gwarok Reserved Forest.




(A.K. Rana)

Principal Chief Conservator of Forests
Government of Manipur, Imphal.

Copy to: / 2222

1. The Chief Secretary (Forest & Env't), Manipur.
2. The Addl. Pr. Chief Conservator of Forests (C), N.E. Regional Office, Shillong.
3. The Principal Secretary (Works), Manipur
4. The Chief Engineer, PWD, Manipur
- ✓ 5. The Project Director, NESRIP, PWD, Manipur
6. The Conservator of Forests, Central/Eastern Circle.
- ✓ The Divisional Forest Officer, Thoubal/Eastern Forest Division.


22.02.2014

Appendix 4: Forest Clearance for CW1 Package

Government of Manipur
Office of the Principal Chief Conservator of Forests
Forest Head Office, Sanjenthong

No. 7/90/2013/Forests/ 385-88

Imphal, the 5th December, 2014.

To

The Project Director, NESRIP, PWD
Government of Manipur,

Subject: Proposal for diversion of 9.00 ha of forest land for widening/up-gradation of
Tupul-Bishnupur Road (Lamdangmei to Bishnupur portion) in Manipur.

Sir,

I am to say that the Ministry of Environment, Forests & Climate Change, Government of India vide letter F.No.3-MN C 027/2014-SHI/2509-10 dated 04.12.2014 (copy enclosed as **Annexure-I**) has accorded **In-Principle Approval** under Forest (Conservation) Act, 1980 for diversion of 9.00 ha of forest land for widening/up-gradation of Tupul-Bishnupur Road (Lamdangmei to Bishnupur portion) in Manipur subject to fulfillment of 13 (thirteen) stipulated conditions.

For complying of condition under para (i) you are requested to transfer a sum of Rs. 10,96,000/- (Rupees ten lakhs and ninety six thousand) only as cost of raising and maintenance of Compensatory afforestation over 18.00 ha degraded forest land identified in Tupul Range, Western Forest Division, Tamenglong to Ad-hoc CAMPA.

For complying condition under para (ii) you are requested to transfer a sum of Rs. 68,92,000/- (Rupees sixty eight lakhs and ninety two thousand) only as the Net Present Value (NPV) for the forest land for diversion of 9.00 ha as per the Orders of the Hon'ble Supreme Court of India dated 28.03.2008 and 09.05.2008 in IA No. 566 in WP (C) No. 202/1995 and as per guidelines issued by Ministry vide letter No. 5-3/2001-FC dated 05.02.2009.

For complying of condition under para (iii) you are requested to furnish an undertaking to pay additional amount of NPV of the diverted forest land, if any, becoming due after finalization/ revision of the same by Hon'ble Supreme Court of India.

For complying of condition under para (iv) you are requested to transfer a sum of Rs. 79,88,000/- (Rupees seventy nine lakhs and eighty eight thousand) only (CA: Rs. 10,96,000/- + NPV: Rs. 68,92,000/-) being the amount to be paid under para (i) and (ii) to ad-hoc CAMPA account No. SB01025219 of Corporation Bank, (IFSC Code No. CORP 0000371) CGO Complex, Phase-I, Lodhi Road, New Delhi- 110 003 through RTGS mode and submit the remittance details to this office for further necessary action.

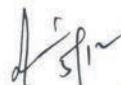
For complying condition under para (v) you are requested to submit a statement that Environmental Clearance is not required.

For complying of the conditions under Para (vi) you are requested to submit and undertaking/statement that no labour camp shall be established on the forest area.

For complying condition under para (vii) you are informed to submit an undertaking/certificate to the effect that felling of trees on the forest land being diverted shall be reduced to the bare minimum and trees should be felled under strict supervision of State Forest Department.

For complying of condition under para (viii) you are informed to submit an undertaking that sufficient firewood, preferably the alternate fuel shall be provided to the labourers after purchasing the same from the State Forest Department or any legal source of alternate fuel.

For complying condition under para (ix) you are requested to submit an undertaking to the effect that strip plantation at suitable area on both sides and central verse of the road will be raised.



Contd.

For complying condition under para (x) you are requested to submit an undertaking that the forest land for diversion shall not be used for any purpose other than that specified in the proposal and under no circumstances be transferred to any other agency, Department or person.

For complying condition under para (xi) you are informed to submit an undertaking to the effect that the layout plan of the proposal shall not be changed without the prior approval of the Central Government.

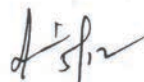
For complying condition under para (xii) you are informed to submit an undertaking that all other clearance/NOCs under different applicable rules/regulations/local laws and under Forest Dwellers (Recognition of Forest Rights) Act, 2006 as required vide MoEF, New Delhi guideline No. 11-9/1998-FC (pt) dated 03.08.2009 (copy enclosed as **Annexure-II**) shall be complied with or, has been complied as the required certificate has been issued by the Deputy Commissioner, Tamenglong.

For complying condition under para (xiii) you are requested to submit an undertaking that the forest land proposed for diversion shall be demarcated 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.

The Central Government has stated that after receipt of the compliance report from the State Government on fulfillment of the conditions mentioned in In-Principle Approval letter, final approval for diversion of 9.00 ha of forest land for widening/up-gradation of Tupul-Bishnupur road will be issued. Formal transfer of forest land shall not be effected by the State Government till final approval order approving the diversion of forest land is issued by the Central Government. Therefore, submission of the compliance report may be expedited.

Enclosed: As stated above.

Yours faithfully

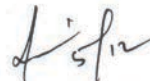


(S. Dhananjoy Singh)

Chief Conservator of Forests/Nodal Officer FCA
Government of Manipur.
Imphal, the 5th December, 2014.

Memo No. 7/90/2013/Forests/
Copy to

1. The Conservator of Forests (C), MoEF, N.E. Regional Office, Shillong.
 2. The Conservator of Forests, Western Circle
 3. The Divisional Forest Officer, Western F/Divn. }
- For necessary action & compliance.*



(S. Dhananjoy Singh)

Chief Conservator of Forests/Nodal Officer FCA
Government of Manipur.



Appendix 5: Consents and NOCs from Pollution Control Board

Manipur Pollution Control Board
Lamphelpat, Imphal-795004

Certificate

Consent to Establish

Consent No. 261/2014

Consent is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended (herein - after referred to as 'the Act') and Rules made there under to Shri/Shrimati/Messr M/S DRAIPL-ABCI (JV) for setting up of a Hot Mix Plant at Saram/Salam Patong Village, P.O./P.S.-Saikul, Senapati District, Manipur. Senior General Manager:- Mr. Dillip Kumar. (here-in after referred to as 'the Applicant') authorising him to establish their plant in the Air Pollution Control Area(s) as notified.

This is subject to the provisions of the Act and Rules and orders made there-under and further subject to the terms and conditions annexed hereto.

The consent shall be valid for a period ending with the 8th day of July, 2015.

For and on behalf of the
Manipur Pollution Control Board

Dated: this 9th day of July, 2014


Member Secretary


SEE
Manipur Pollution Control Board
Government of Manipur, Imphal

Manipur Pollution Control Board
Lamphelpat, Imphal-795004

Certificate

Consent to Establish

Consent No. 262/2014

Consent is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended (herein - after referred to as 'the Act') and Rules made there under to Shri/Shrimati/Messr M/S DRAIPL-ABCI (JV) for setting up of a Stone Crushing unit at Saram/Salam Patong Village, P.O./P.S.-Saikul, Senapati District, Manipur. Senior General Manager:- Mr. Dillip Kumar. (here-in after referred to as 'the Applicant') authorising him to establish their plant in the Air Pollution Control Area(s) as notified.

This is subject to the provisions of the Act and Rules and orders made there-under and further subject to the terms and conditions annexed hereto.

The consent shall be valid for a period ending with the 8th day of July, 2015.

For and on behalf of the
Manipur Pollution Control Board

Dated: this 9th day of July, 2014


Member Secretary


SEE
Manipur Pollution Control Board
Government of Manipur, Imphal

Manipur Pollution Control Board
Lamphelpat, Imphal-795004

Certificate

Consent to Operate

Consent No.641/2014



Consent is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended (herein - after referred to as 'the Act') and Rules made there under to Shri/Shrimati/Messrs **M/S DRAIPL-ABCI(JV)** for establishment & operation of a **WMM Plant at Saram/Salam Patong Village, PO/PS-Saikul, Senapati District, Manipur. Senior General Manager:- Mr. Dillip Kumar.** (here-in after referred to as 'the Applicant') authorising him to establish their plant in the Air Pollution Control Area(s) as notified.

This is subject to the provisions of the Act and Rules and orders made there-under and further subject to the terms and conditions annexed hereto.

The consent shall be valid for a period ending with the 26th day of November, 2015.

For and on behalf of the
Manipur Pollution Control Board

Dated: this 27th day of November, 2014


Member Secretary
Member Secretary
Manipur Pollution Control Board


Senior Environmental Engineer
Manipur Pollution Control Board
Govt. of Manipur

Manipur Pollution Control Board
Lamphelpat, Imphal-795004

Certificate

Consent to Operate

Consent No.643/2014



Consent is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended (herein - after referred to as 'the Act') and Rules made there under to Shri/Shrimati/Messrs **M/S DRAIPL-ABCI(JV) for establishment & operation of Camp at Somrei Village, PO/PS-Yairipok, Ukhurul District, Manipur. Senior General Manager:- Mr. Dillip Kumar.** (here-in after referred to as 'the Applicant') authorising him to establish their plant in the Air Pollution Control Area(s) as notified.

This is subject to the provisions of the Act and Rules and orders made there-under and further subject to the terms and conditions annexed hereto.

The consent shall be valid for a period ending with the 26th day of November, 2015.

For and on behalf of the
Manipur Pollution Control Board

Dated: this 27th day of November, 2014


Member Secretary
Member Secretary
Manipur Pollution Control Board


Senior Environmental Engineer
Manipur Pollution Control Board
Govt. of Manipur

Manipur Pollution Control Board
Lamphelpat, Imphal-795004

Certificate

Consent to Operate

Consent No.642/2014



Consent is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended (herein - after referred to as 'the Act') and Rules made there under to Shri/Shrimati/Messrs **M/S DRAIPL-ABCI(JV)** for **establishment & operation of a Concrete Batching Plant at Somrei Village, PO/PS-Yairipok, Senapati District, Manipur. Senior General Manager:- Mr. Dillip Kumar.** (here-in after referred to as 'the Applicant') authorising him to establish their plant in the Air Pollution Control Area(s) as notified.


This is subject to the provisions of the Act and Rules and orders made there-under and further subject to the terms and conditions annexed hereto.

The consent shall be valid for a period ending with the 26th day of November, 2015.

For and on behalf of the
Manipur Pollution Control Board

Dated: this 27th day of November, 2014


Member Secretary
Member Secretary
Manipur Pollution Control Board


Senior Environmental Engineer
Manipur Pollution Control Board
Govt. of Manipur

Manipur Pollution Control Board
Lamphelpat, Imphal-795004

Certificate

Consent to Operate



Consent No. 261/2014

Consent is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended (herein - after referred to as 'the Act') and Rules made there under to Shri/Shrimati/Messrs **M/S DRAIPL-ABCI (JV) for setting up and operation of a Hot Mix Plant at Saram/Salam Patong Village, P.O./P.S.- Saikul, Senapati District, Manipur. Senior General Manager:- Mr. Dillip Kumar.** (here-in after referred to as 'the Applicant') authorising him to establish their plant in the Air Pollution Control Area(s) as notified.

This is subject to the provisions of the Act and Rules and orders made there-under and further subject to the terms and conditions annexed hereto.

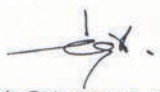
The consent shall be valid for a period ending with the 8th day of July, 2015.

For and on behalf of the
Manipur Pollution Control Board

Dated: this 9th day of July, 2014


Member Secretary

Member Secretary
Manipur Pollution Control Board


Senior Environmental Engineer
Manipur Pollution Control Board
Govt. of Manipur

Manipur Pollution Control Board
Lamphelpat, Imphal-795004

Certificate

Consent to Operate



Consent No. 262/2014


Consent is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended (herein - after referred to as 'the Act') and Rules made there under to Shri/Shrimati/Messrs **M/S DRAIPL-ABCI (JV) for setting up and operation of a Stone Crushing Unit at Saram/Salam Patong Village, P.O./P.S.-Saikul, Senapati District, Manipur. Senior General Manager:- Mr. Dillip Kumar.** (here-in after referred to as 'the Applicant') authorising him to establish their plant in the Air Pollution Control Area(s) as notified.

This is subject to the provisions of the Act and Rules and orders made there-under and further subject to the terms and conditions annexed hereto.

The consent shall be valid for a period ending with the 8th day of July, 2015.

For and on behalf of the
Manipur Pollution Control Board

Dated: this 9th day of July, 2014


Member Secretary

Member Secretary
Manipur Pollution Control Board


Senior Environmental Engineer
Manipur Pollution Control Board
Govt. of Manipur

Appendix 6: NOCs and Permits for Labor Employment and Fire Safety

NO. 5/5/MISC/211-FS/ 6789
GOVERNMENT OF MANIPUR
FIRE SERVICE DEPARTMENT



Imphal, the 11th August, 2014.

"TO WHOM IT MAY CONCERN"

This is to certify that the proposed 4(four) mild steel tanks of M/S DRAIPL-ABCI(JV) for storage of HSD(Diesel) having capacity of 4,000 ltrs. each installed at Somrei Village, Thoubal District which are meant for filling up HSD to the vehicles and machineries for construction a road project MN06 CW02-Thoubal to Kasum Khullen under PWD, Manipur has inspected a Fire Service Team on 10.08.2014 in connection with Fire precautionary measures to be taken up by the concerned authority and reported satisfactory. During the course of inspection, the undernoted First Aid Fire Fighting equipments are found installed at proper locations of the base camp in good working conditions :

<u>Sl. No.</u>	<u>Particulars</u>	<u>Qty.</u>
1.	ABC type Fire Extinguisher of 4 kgs capacity.	2 Nos.
2.	Fire Bucket filled with loose and dry sand.	3 Nos.

Hence, this office has got No Objection for storage of HSD(Diesel) for 1(one) year's time from the date of issue of this certificate in favour of M/S DRAIPL-ABCI(JV) at their base camp, Somrei Village, Thoubal District.

K. Chandramani Singh
4/8/2014

Director,
Manipur Fire Service,
Imphal.

K. CHANDRAMANI SINGH, IPS
Director
Manipur Fire Service
Imphal

AGREEMENT

Dated:23/4/2014.

This is the undersigned an agreement drawn between M/S ABCI Infrastructure Pvt. Ltd. And Somrei Village Authority regarding the rules and regulations (Customary Laws) of the Somrei village should be followed by the M/S ABCI Infrastructure Pvt. Ltd.

As, if any staff/workers/labourers who are temporarily settleling in Somrei Village of ABCI Pvt. Ltd.create any violation beyond the Customary Laws of Somrei Village and others sort of any problems should be taken responsibilities by the said undersigned persons.

It is here by resolved and agreed to co-operate each others on every matters of development activities for the construction of road project works.

Somrei

Village Authority:

S. Apam

1.(S.APAM) 8131862377
Headman

khunpu

2.(SP.MATUICHING)
khunpu acting
8732057633

Secretary

3.(H..NINGATEI)
Secretary

Authority of M/S ABCI Infrastructure Pvt.Ltd.

1. Dilip Kumar
(DILIP KUMAR)
8415926913

2. Bikel Singh
(TH. BIHEL SINGH)
9862325409

3. J.S. Gobin



Issued to M/S DRAIPL-ABCI (JV),1/3 Mc
Donald Tower, GS Road Guwahati-781007,
under Section 8(1) of the Inter State
Migrant Workmen (Regulation Of
Employment and Conditions of Service)Act
1979.

FORM VIII
GOVERNMENT OF MANIPUR
OFFICE OF THE LICENSING OFFICER

L I C E N C E

Licence No. 3 of 2014

Dated 26/04/2014

Fee paid Rs. 40.00

1. Licence is hereby granted to M/S DRAIPL-ABCI(JV), 1/3 Me Donald Tower, GS Road, Guwahati-781007, Imphal under Section 8(2) of the Inter State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979, subject to the conditions specified in the ANNEXURE.
2. This licence is for doing the work of "Improvement and Up gradation of Road Section MN06-CW 2 Thoubal to Kasom Khullen" in the establishment of the NESRIP, PWD, Government of Manipur.
3. The licence shall remain in force till 25/04/2015.



[Signature]
Signature and Seal of the
Licensing Officer.
Licensing Officer, Isawi,
Department of Labour,
Government of Manipur.

R E N E W A L
[See Rule 14]

Date of renewal

Date of expiry

1.

2.

3.

Date.....

Signature and Seal of the
Licensing Officer



ISSUED TO M/S DRAIPL-ABCI (JV),Mc.
DONALD TOWER, GS ROAD ,GUWAILATI-
781007, UNDER SECTION 12 (1) OF THE
CONTRACT LABOUR (REGULATION &
ABOLITION) ACT, 1970.

FORM VI
[See rule 25(1)]

GOVERNMENT OF MANIPUR
OFFICE OF THE LICENSING OFFICER

Licence No.13 of 2014.

Dated 26 / 04 / 2014

Fee Rs. 12.50 /-

L I C E N C E

1. Licence is, hereby, granted to M/S DRAPI-ABCI (JV), 1/3 Mc Donald Tower, G.S. Road, Guwahati - 781007, under Section 12 (1) of the Contract Labour (Regulation and Abolition) Act, 1970, subject to the condition specified in ANNEXURE.
2. The licence is for doing the work of "Improvement and Up gradation of road Section MNO6-CW 2 Thoubal to Kasom khullen" in the establishment of NESRIP, PWD, Manipur
3. The Licence shall remain in force till 25/04/2015.



Signature and Seal of Licensing Officer

Licensing Officer (CL)
Govt. of Manipur.

RENEWAL
(rule 29)

Date of renewal

Fee paid for renewal

Date of expiry

Date

Signature and Seal of the Licensing Officer