

Environmental Monitoring Report

Project Number: 47229-001

March 2016

Period: January 2015 – June 2015

IND: Uttarakhand Emergency Assistance Project (UEAP)

Submitted by

Project implementation Unit -UEAP (Roads and Bridges), Dehradun

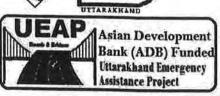
This report has been submitted to ADB by the Project implementation Unit –UEAP (Roads and Bridges), Dehradun and is made publicly available in accordance with ADB's public communications policy (2011). It does not necessarily reflect the views of ADB.

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

Asian Development Bank



OFFICE OF PROGRAM MANAGER



P.I.U., U.E.A.P. (ROAD & BRIDGE), DEHRADUN, UT

2nd Floor, Tax Commissioner Building Jogiwala, Mussoorie By

(Pulia No-6) Nathanpur, Dehradun- 248001

Phone: 0135-2672031

E- mail- pm.ueap.

_

Letter No: 3030 10 / (UEAP/PWD/2015-16

Date: 3 //12/2015

To,

Country Director, South Asia Department, India Resident Mission,

4 San Martin Marg, Chanakyapuri,

New Delhi 110021, India.

ASIAN DEVELOPMENT BANK IN RM COUNTRY DIRECTOR'S OFFICE 11 JAN 2016

Subject:

ADB Loan- 3055 IND, UEAP (R&B) Semi-Annual Environment Monitoring

Report (January 2015 - June 2015)

Madam,

Reference to subject matter, please find enclosed the hard copy and CD of Semi-Annual Environment Monitoring Report (January 2015 – June 2015).

Enclosed:- As above.

Program Manager PIU, (R&B) UEAP Dehradun, Uttarakhand

Copy to:

- 1. Mr. A. K. Motwani, Team Leader, ADB, India Resident Mission, New Delhi.
- 2. Program Director, PMU, UEAP (R&B) Dehradun.
- 3. Mr. Prabhash Sahu, Associate Project Officer, ADB, India Resident Mission, New Delhi.
- 4. Mr. Girish Mahajan, Environmental Specialist, ADB, India Resident Mission, New Delhi.
- 5. Mr. Sakib Qadri, Environment Specialist, ADB, UEAP, (R&B), Dehradun.



Semi-Annual Environmental Monitoring Report (January 2015-June 2015)

Loan Number:3055-INDIA Month Year: June 2015
IND: Uttarakhand Emergency Assistance Program (R&BSector Subproject)
Prepared by: - State Disaster Management Authority, Government of Uttarakhand, for the Asian Development Bank

TABLE OF CONTENTS

	CONTENT	Page No.
I. INTRODU	CTION	1
Backgrour	nd	1
Project Ob	pjectives	1
Project Pu	rpose	1
Project Projec	ofile	2
II. IMPLEME	ENTATION PROGRESS	7
Major Wo	rks and Progress	7
Compliand	ce of Safeguard Loan Covenants	24
Environme Arrangem	ental and Social Organization and Management along with Implementation	26
III. ENVIR	ONMENTAL PROCEDURE REVIEW	26
Environme Control Ac	ental Legal Requirement – Environmental Legislation and Pollution	26
	MENTATION STATUS OF ENVIRONMENT MEASURES	44
V. ENVIR	ONMENTAL MONITORING AND EVALUATION	47
VI. MAJOF	R PROJECT ISSUES AND PROBLEMS ENVIRONMENTAL CONTEXT	47
VII. CONSI	JLTATIONS AND RECOMMENDATIONS ENVIRONMENTAL CONTEXT	47
VIII. GRIEV	ANCE REDRESSAL	48
IX. ISSUES	AND ACTION PLAN	48
Figure 1:	District of Uttarakhand depicting in Garhwal and Kumaon regions	2
Table 1:	Details and status of the work	2
Table 2:	Status of Sub-project Implementation under UEAP- R&B Subprojects (Upto 30 June 2015)	4
Table 3:	Status of the Sub project and Progress	7
Table 4:	Present Status of Environment, Forest & other clearances	29
Table 5:	Summary Compliance status of Environment Management and Monitoring Plan	44
Table 6:	Suggestion & Action plan considered for satisfactory Environmental Compliance	48
Annexure 1:	: Environment Forest and other Compliance	49
Annexure 2	: Compliance of Application of EMMP- Sample format	52
Annexure 3	: Environmental Performance Fact Sheet	85
Annexure 4	: Public Consultation on Environmental Issues	86
Annexure 5	: Sample Grievance Registration Form	87
Annexure 6	: Environmental Baseline Monitoring Data	89

ABBREVIATIONS

ADB Asian Development Bank AIDS Acquired Immune Deficiency Syndrome Biological Oxygen Demand BOD **Cross Drainage** CD CGWA **Central Ground Water Authority** Carbon monoxide CO CPCB Central Pollution Control Board Consolidated Consent Order CCA Diesel Generator DG DSC Design and Supervision Consultant **Executing Agency** EA Environmental, Health & Safety EHS **Environment Assessment and Review Framework** EARF **Environment Management Plan** EMP ES **Environmental Specialist** FPIU Field Project implementation Unit **General Conditions** GC Government of India Gol GoUK Government of Uttarakhand GRC Grievance Redress Committee **HMP** Hot Mix Plant Initial environmental examination IEE IRC **Indian Road Congress** INR Indian Rupee Kumaon Mandal Vikas Nigam KMVN Pollution under Control Certificate PUC MLD Million Liters per day Ministry of Environment, Forests and Climate Change MoEF&CC Ministry of Road Transport and Highways MoRTh Not Applicable NA Non-Governmental Organization NGO No Objection Certificate NOC Nitrogen oxide NO_x **Project Director** PD

PIU **Project Implementation Unit**

PM Particulate Matter

PMU **Project Management Unit** PUF Polyurethane Foam Resident Engineer RE Right of Way ROW RP Resettlement Plan

RPM Reparable Particulate Matter

Scheduled Castes SC

State Expert Appraisal Committee SEAC

State Environmental Impact Assessment Authority SEIAA

Sulphur- dioxide SO_2

Suspended Particulate Matter SPM Safeguard Policy Statement SPS

Scheduled Tribe ST TL Team Leader

UEPPCB Uttarakhand Environmental Protection and Pollution Control

Board

I. INTRODUCTION

A. Background

- 1. Uttarakhand being a tourist and pilgrimage State attracts a large number of tourist and pilgrims. A majordisaster during 15-17thJune 2013 resulted in severedamages in several parts of Uttarakhand, which has a mountainous terrain and a fragile geology. Several towns have been washed away by the unprecedented flash floods and landslides, and a large number of houses, public buildings, roads, bridges, urban, rural, and tourism infrastructure, power generation and distribution facilities have been damaged. The impact on the affected population due to the loss of connectivity has been manifold.
- 2. Based on the request of India, a Rapid Joint Damage and Needs Assessment (RJDNA) was undertaken by Asian Development Bank (ADB) and the World Bank. ADB agreed to assist the Government of India (GOI) with reconstruction and rehabilitation efforts for which the Uttarakhand Emergency Assistance (Sector) Project (UEASP) has been formulated as a multi-sector emergency loan in sector loan modality. The executing agency (EA) for the UEASP (R&B Sector) is Government of Uttarakhand (GOU) and State Disaster Management Authority (SDMA).
- The roads subsector in the State comprises of road infrastructure, which is primarily administered by the Public Works Department (PWD); and transport services, which are overseen by the Transport Department. The PWD is responsible for planning, financing, constructing, and maintaining roads, bridges, and related government buildings.

B. Project Objectives:

- 4. Roads are the lifeline of the State. The quality of the road network in Uttarakhand has however been poor and constraints the economy of the State. In addition, Road sector was worst hit in the state with destruction of infrastructure on one hand and loss of livelihoods on the other due to heavy rains in June, 2013.
- 5. As a part of Road & Bridges restoration drive, it was decided to restore the basic public and social infrastructure, disaster preparedness, project management and institutional effectiveness improved. The design and construction standards for the physical infrastructure will be raised to an appropriate level and the focus will be to build back the same or better. The revised high flood levels of the rivers, natural streams and drainage channels will also be considered, while designing facilities, Geotechnical studies will be undertaken and slope stabilization measures considered for slide zones, wherever applicable.

C. Project Purpose

6. The purpose of the project is to improve, restore and reconstruct basic public and social infrastructure, disaster preparedness, project management and institutional. Under this about 1,800 km of state highways (SH) and major district roads (MDR); rehabilitation and capacity augmentation of the existing water treatment and reconstruct affected tourism infrastructure in 5 affected districts by which tourism facilities in surrounding towns and villages near the gateways to major destinations. For which the primary implementing agencies (IA) are be Public Works Department (PWD) for roads, bridges, urban roads, and trekking routes including eco-trails Department of Tourism (DOT) through Kumaon Mandai Vikas Nigam Limited, and Garhwal Mandal Vikas Nigam Limited for tourism infrastructure, Uttarakhand Civil Aviation Development Authority

(UCADA) for helipads; and Uttarakhand Jal Sanstahan (UJS) for urban water supply, or any successor hereto.

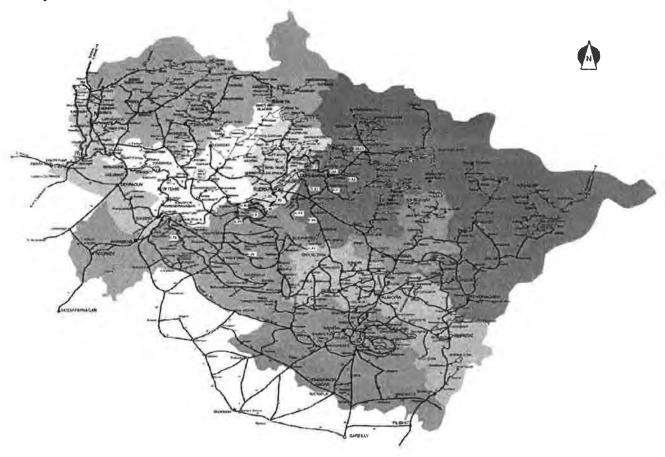


Figure 1. District of Uttarakhand indicating the roads network

7. The nature of the sub-projects may change during their subsequent development, particularly during detailed design. This report is the Environmental Monitoring Report (EMR) for R&B sector project to describe the implementation of the mitigation measures and monitoring recommended in the IEE and summary Initial Environmental Examination (SIEE).

D. Project Profile

8. At the end of June, 2015 out of Forty Three packages contracts have been signed. The construction work in these packages is in different stage. The supervision consultant for contract packages in Districts Almora, Bageshwar, Pithoragarh, U.S. Nagar and Nainital was terminated and the data related to these packages are in transfer process and same will be presented in next SAEMR. Table 1 shows the project components, and physical progress of all the packages.

Table 1: Status of Sub-project Implementation under UEAP- R&B Subprojects (Up to 31st June 2015)

Location	Pkg. No.	Name of Sub-Project Roads	Physical Progress
Chamoli	0.7	Nandprayag-Ghat Motor Road	27.15%
Chamoli	C-7	Rudraprayag-Pokhari-Karanprayag	2.36%
Chamoli	C-8	Chamoli – Kund	27.63%

Location	Pkg. No.	Name of Sub-Project Roads	Physical Progress
Chamoli	C-20	Joshimath-Auli under Nagar Palika Joshimath	30.52%
Chamoli	0.04	Narshing Mandir Approach Road Joshimath	1.50%
Chamoli	C-21	Internal Road of Nagar Panchayat Karanprayag	75.71%
Chamoli	C-32	Rudraprayag-Pokhari-Karanprayag	44.03%
Chamoli	C-33	Tharali Dewal Mundoli	7.68%
Chamoli	C-34	Internal Road of Nagar Palika Gopeshwar	0.00%
		Karanprayag-Nauti-Paithani	0.00%
Chamoli	C-49	Gauchar - Sidholi Road	0.00%
Chamoli	C-50	Karanprayag-Nainisen	0.00%
Chamoli	C-51	Pokhari Gopeshwar	18.02%
Rudraprayag	C-9	Guptkashi Kalimath Kotma Jaal Chaumasi	87.00%
	C-22	Reconstruction of New Bus stand road under Nagar	18.22%
Rudraprayag		Palika Rudraprayag	
Rudraprayag	C-29	Khirshu-Khedakhal-Kandai-Khankra	14.65%
Rudraprayag	C-30	SonprayagTriyginarayan	29.33%
Rudraprayag	C-31	Makku Pahunch Marg to Paldwari	85.00%
Pauri	C-5	Pauri-Khirsu-Srinagar Road	16.93%
Pauri	C-35	Buakhal-Pauri-Devprayag-Gaja-Jajal Motor Road	78.00%
Pauri	C-40	Khanda Sumari Bhugani	17.09%
Pauri	C-65	Khirsu Musagali Damdeval	34.09%
Pauri	C-03	Bughani Devalgarh Chamdhar	8.02%
Pauri	C-66	Riknikhal Bironkhal Motor Road	0.00%
Pauri	C70	Marchula Saraikhit Baijro Pokhara Satpuli	0.00%
Pauri	C71	Lakshman Jhoola-Rathuwadhab-Dhumakot Road	0.00%
Pauri	C72	Thailisain-Bungidhar-Deghat Motor Road	27.15%
		Pilkhi-Gadoliya Motor Road	45%
Tehri	C-13	Reconstruction Of Inspection House Approach Road Under Nagar Panchayat Devprayag	
Tehri	C-36	Pratapnagar-Tehri	30%
Tehri	C-39	Gaza-Nakot	75%
Tehri	C-43	Tehri-Ghansali-Tilwara	71%
Tehri	0.50	Raipur-Kaddukhal Motor Road (Km 1 To 8, Km 14 To 39 & Km 42 To 72)	40%
	C-56	Suwakholi-Bhawan-Sarot Chapra Nagun Motor Road (Km 1 To 28)	
Tehri		Ghansali Tehri Pratapnagar Motor Road (Km 1 To 21 And K 34 To 40)	15%
	C-57	Lambgaon Pratapnagar Motor Road (Km 1 To 23)	1
		Kodar-Deengaon-Mukhem Motor Road (Km1 To 23)	
Tehri	0.50	Chamiyala-Bhudakedar Motor Road (Km 4 To 9 And Km 12 To 17)	15%
	C-58	Ghansali-Koti-Akhodi Motor Road (Km 1 To 7, Km 14 To 29, Km 30 To 33 & Km 36 To 52)	
Tehri	C-59	Tehri-Hindolakhal-Devprayag Motor Road (Tipri Raoddhar Motor Road Km 1 To 9 & Km 22 To 25)	10%
Tobei		Tehri-Hindolakhal-Devprayag Motor Road (Rauddhar- Devprayag Motor Road Km 32 To 42 & Km 48 To 58) Tyuni-Chakrata-Mussoorie-Chamba-Tehri-Kirtinagar (Km	10%
Tehri	C-67	17 To 40)	12%
Tehri	C-68	Bhaldiyana-Lambgaon (Km 8 To 23)	159
Tehri	C-69	Nainbag-Ghudakhuri-Andi (Km1 To 6 & 17 To 31)	159
Dehradun	C-23	Tyuni-Chakrata-Mussoorie-Chamba-Kirtinagar	309
Dehradun	C-24	Kalsi-Bairatkhai	
Dehradun	C-38	Icharl-Kwano-Meenus	40%
Uttarkashi Uttarkashi	C-11	Naugaon-Purola Kalsi-Chakrata Road	32%
Uttarkashi	C-14	Kuwa-Kafnaul Rahdi Motor Road	40%

Location	Pkg. No.	Name of Sub-Project Roads	Physical Progress
Uttarkashi	C-37	Tyuni-Mori-Purola-Naugaon	50%
Uttarkashi			15%
Uttarkashi			10%
Uttarkashi	C-54	Naogaon Paunti Rajgadi (Km 1 To 24)	0%
Uttarkashi	U-54	Damta Kandari (Km 17 To 22)	
Uttarkashi C-55		Mori Natwadh Sankari (Km 5 To 26)	Not Awarded
		Sankari Jakhol (Km 1 To 16.15)	1

Table 2: Details and status of the work

Location	Package Code	Date of Start	Period	Scheduled Date of Completion	Physical Progress (%)
	UEAP/PWD/C-7				
Chamoli	a. Nandprayag- Ghat Motor Road	08.08.2014	15	07.11.2015	27.15%
	b. Rudraprayag-Pokhari-Karanprayag				2.36%
Chamoli	UEAP/PWD/C-8				
	Chamoli – Kund	08.08.2014	18	07.02.2016	27.63%
	UEAP/PWD/C-20			-	
Chamoli	Joshimath-Auli under Nagar Palika Joshimath	09.12.2014 1	18	08.06.2016	30.52%
	UEAP/PWD/C-21				
Chamoli	a. Narshing Mandir Approach Road Joshimath	09.12.2014	18	08.06.2016	1.50%
	b. Internal Road of Nagar Panchayat Karanprayag				75.71%
Chamoli	UEAP/PWD/C-32	09.12.2014	18	08.06.2016	44.03%
	Rudraprayag-Pokhari-Karanprayag				44.0070
Chamoli	UEAP/PWD/C-33	21.10.2014	18	20.04.2016	7.68%
Chamoli	Tharali Dewal Mundoli				7.00%
	UEAP/PWD/C-34	10.12.2014	15	09.03.2016	
Chamoli	Internal Road of Nagar Palika Gopeshwar				0.00%
	UEAP/PWD/C-49	01.5.2015	-18	31.10.2016	
Chamoli	Karanprayag-Nauti-Paithani				0.00%
	Gauchar - Sidholi				
Chamoli	UEAP/PWD/C-50	15.05.2015	10	14.11.2016	0.000/
Chamon	Karanprayag-Nainisen	15.05.2015	18		0.00%
Ohamali	UEAP/PWD/C-51	05.00.0045	40	04.00.0040	0.000/
Chamoli	Pokhari Gopeshwar	05.03.2015	18	04.09.2016	0.00%
	UEAP/PWD/C-9				
R.prayag	Guptkashi Kalimath Kotma Jaal Chaumasi	08.08.2014	18	07.02.2016	18.02%
	UEAP/PWD/C-22				
R.prayag	New Bus stand road under Nagar Palika Rudraprayag	05.11.2014	12	04.11.2015	87.00%
R.prayag	UEAP/PWD/C-29	20.10.2014	18	19.04.2016	18.22%
i v.prayay	Khirshu-Khedakhal-Kandai-Khankra	20.10.2014	10	19.04.2010	10.2270

R.prayag	UEAP/PWD/C-30	10.12.2014	18	09.06.2016	14.65%	
	SonprayagTriyginarayan					
R.prayag	UEAP/PWD/C-31	09.12.2014	18	08.06.2016	29.33%	
	Makku Pahunch Marg to Paldwari					
Pauri	UEAP/PWD/C-5	17.06.2014	15	16.09.2015	85.00%	
	Pauri-Khirsu-Srinagar					
Pauri	UEAP/PWD/C-35	20.10.2014	18	19.04.2016	16.93%	
1 duit	Buakhal-Pauri-Devprayag-Gaja-Jajal Motor Road	20.10.2011		10.01.2010	10.0070	
	UEAP/PWD/C-40	01 12 2014	40	04.05.0040	70.000/	
Pauri	Khanda Sumari Bhugani	01.12.2014	18	31.05.2016	78.00%	
	UEAP/PWD/C-65				17.09%	
Pauri	Khirsu Musagali Damdeval	12.02.2015	18	11.08.2016	34.09%	
	Bughani Devalgarh Chamdhar					
	UEAP/PWD/C-66					
Pauri	Riknikhal Bironkhal Motor Road	05.3.2015	18	04.09.2016	8.02%	
	UEAP/PWD/C-70					
Pauri	Marchula Saraikhit Baijro Pokhara Satpuli	15.05.2015	18	14.11.2016	0.00%	
	UEAP/PWD C71			31.3.2017	0.00%	
Pauri	Lakshman Jhoola-Rathuwadhab- Dhumakot Road	01.07.2015	21			
Pauri	UEAP/PWD C72	07.07.2015	19	06.02.2017	0.00%	
rauli	Thailisain-Bungidhar-Deghat Motor Road	07.07.2013	10	00.02.2017	0.007	
	UEAP/PWD C13	07.11.2014	18			
Table 2	Pilkhi-Gadoliya Motor Road			06.05.2016	45%	
Tehri	Reconstruction Of Inspection House Approach Road Under Nagar Panchayat Devprayag				45%	
T. 6.2	UEAP/PWD C36	40.00.0045	7	18.10.2016	30%	
Tehri	Pratapnagar-Tehri	19.03.2015				
Tehri	UEAP/PWD C39	10.11.0011			750	
	Gaza-Nakot	10.11.2014	18	09.05.2016	75%	
Tehri	UEAP/PWD C43				- 10	
	Tehri-Ghansali-Tilwara	15-04-2015	7	13-11-2015	71%	
Tehri	UEAP/PWD C56					
	Raipur-Kaddukhal Motor Road (Km 1 To 8, Km 14 To 39 & Km 42 To 72)	03.02.2015	18	18 02.08.2016	40%	
	Suwakholi-Bhawan-Sarot Chapra Nagun Motor Road (Km 1 To 28)					
Tehri	UEAP/PWD C57					
	Ghansali Tehri Pratapnagar Motor Road (Km 1 To 21 And K 34 To 40)	40.04.0045				
	Lambgaon Pratapnagar Motor Road (Km 1 To 23) Kodar-Deengaon-Mukhem Motor Road	13.04.2015	21	12.01.2017	15%	
	(Km1 To 23)					
Tehri	UEAP/PWD C58					
	Chamiyala-Bhudakedar Motor Road (Km 4 To 9 And Km 12 To 17)	14.05.2015	18	13.11.2016	15%	

	Ghansali-Koti-Akhodi Motor Road (Km 1 To 7, Km 14 To 29, Km 30 To 33 & Km 36 To 52)		14		
Tehri	UEAP/PWD C59				
	Tehri-Hindolakhal-Devprayag Motor Road (Tipri Raoddhar Motor Road Km 1 To 9 & Km 22 To 25)	05.05.2015	18	04.11.2016	10%
Tehri	Tehri-Hindolakhal-Devprayag Motor Road (Rauddhar-Devprayag Motor Road Km 32 To 42 & Km 48 To 58)				
Tehri	UEAP/PWD C67				
	Tyuni-Chakrata-Mussoorie-Chamba- Tehri-Kirtinagar (Km 17 To 40)	19.03.2015	7	18.10.2015	10%
Tehri	UEAP/PWD C68				
	Bhaldiyana-Lambgaon (Km 8 To 23)	05.03.2015	19	04.10.2016	12%
Tehri	UEAP/PWD C69				
	Nainbag-Ghudakhuri-Andi (Km1 To 6 & 17 To 31)	05.03.2015	19	04.10.2016	15%
Dehradun	UEAP/PWD C23	17.09.2014			
	Tyuni-Chakrata-Mussoorie-Chamba- Kirtinagar		18	16.03.2016	15%
Dehradun	UEAP/PWD C24	10.11.2014	18	09.05.2016	
	Kalsi-Bairatkhai				30%
	UEAP/PWD C38	18.11.2014	18	17.05.2016	
Dehradun	Ichari-Kwano-Meenus				40%
	UEAP/PWD C11				
Uttarkashi	Naugaon-Purola	30.06.2014	15	26.09.2015	32%
	Kalsi-Chakrata Road				
Uttarkashi	UEAP/PWD C14		15	28.10.2015	100/
	Kuwa-Kafnaul Rahdi Motor Road	29.07.2014			40%
Uttarkashi	UEAP/PWD C37			05.40.0040	500/
	Tyuni-Mori-Purola-Naugaon	06.04.2015	18	05.10.2016	50%
Uttarkashi	UEAP/PWD C52				
	Silkyara Bangaon Chapda Saroth (Included Tehri District Part Km 1 To 20 & 80 To 98)	03.02.2015	18	02.08.2016	15%
Uttarkashi	UEAP/PWD C53				
	Badethi Banchora Badrigarh (Included Tehri District Part Km 1 To 16, Km 70 To 80, 95 To 96)	06.04.2015	18	05.10.2016	10%
Uttarkashi	UEAP/PWD C54				
	Naogaon Paunti Rajgadi (Km 1 To 24)	15.06.2015	5	14.11.2015	0%
	Damta Kandari (Km 17 To 22)				
Uttarkashi	UEAP/PWD C55				
	Mori Natwadh Sankari (Km 5 To 26)	Not Awarded			
	Sankari Jakhol (Km 1 To 16.15)				

II. IMPLEMENTATION PROGRESS

E. Major Works and Progress

9. Under R&B sector till June 2015 contracts of all Forty Three sub-projects has been awarded. **Table 3** shows the work progress status format. Work scope for the package for which Work Order has been issued is given hereunder. Monitoring and reporting on Environmental safeguard have been started.

Table 3: Status of the Sub project and Progress

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
UEAP /PWD/ C-7	Nandprayag- Ghat Motor Road	The restoration work of damaged portion of road i.e. Slip clearance in Km 3 to 9, Km 12, Km 13 & Km 16, reconstruction of damaged retaining wall and breast wall in Km 5, Km 6, Km 9, Km 10, Km 11, Km 15 & Km 16, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 1 to 19, Repair of damaged Causeways Km 3 to 6, Km 12 & Km 18, WBM (G1,G2,G3) in Subsidence portion of Km 1 to 19, Road surface damaged (ruts & pot holes) by BM & SDBC in Km 1 to 19, BM & SDBC in heavily damaged black top portion of road from Km 1 to Km 19, restoration of Traffic sign, markings & appurtenances.	Bituminous Work in addition to Structure Work, however work progress was slow due to non-availability of Man-Power and Machineries	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	
	Rudraprayag- Pokhari- Karanprayag	he restoration work of damaged portion of road i.e. Slip clearance in Km 51, Km 52, Km 54 & Km 59, reconstruction of damaged retaining wall and breast wall in Km 49 & Km 53 to Km 55, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 44 to Km 59, Repair of damaged Causeways Km 44, Km	Bituminous Work in addition to Structure Work, however work progress was slow due to non-	At this stage there is no such changes are expected from the approved	Instruction has been issued to contractor for collection of environment monitoring data during construction	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
		45 & Km 53 to Km 55, WBM (G1,G2,G3) in Subsidence portion of Km 45 to 59, Road surface damaged (ruts & pot holes) by BM & SDBC in Km 45 to 59, BM & SDBC in heavily damaged black top portion of road from Km 45 to Km 59, restoration of Traffic sign, markings & appurtenances.	availability of Man- Power and Machineries	scope.	phase	
UEAP /PWD/ C-8	Chamoli – Kund	he restoration work of damaged portion of road i.e. Slip clearance in Km 70, Km 71, Km 74, Km 75, Km 76, Km 77, Km 80, Km 82 to Km 85, reconstruction of damaged retaining wall and breast wall in Km 1, Km 3, Km 4, Km 6, Km 15, Km 16, Km 18, Km 21, Km 33, Km 34, Km 37 to Km 41, Km 65, Km 74, Km 78, Km 80, Km 82, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 26, Km 31, Km 41, Km 70, Km 71, Km 74, Km 75, Km 78, Km 81, Km 82, Km 84 & Km 85, Repair of damaged Causeways Km 26, Km 37, Km 41 & Km 78, WBM (G1,G2,G3) in Subsidence portion of Km 1 to 11, Km 31, Km 36 to 41, Km 70, Km 71, Km 74 to 78 & Km 80 to 85, Road surface damaged (ruts & pot holes) by BM & SDBC in Km 1 to 11, Km 31, Km 70, Km 71, Km 74 to 78 & Km 80 to 85, BM & SDBC in heavily damaged black top portion of road from Km 36 to Km 41, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD/ C-20	Joshimath-Auli under Nagar Palika Joshimath	The restoration work of damaged portion of road includes earth filling in parties from Km 3 to Km 12, Reconstruction of damaged retaining wall and breast wall in Km 7, Km 8 & Km 10, Reconstruction of Cross drainage works damaged in Km 7, Km 8 & Km 10, Repair of damaged Causeways Km 7 & Km 10, Reconstruction of KC drain in Km 3 to Km	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	

Y ...

.

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
		12, WBM (G1, G2, G3) in damaged portion from Km 3 to Km 12, Profile correction by BM & SDBC for surface dressing in heavily damaged black top portion of road from Km 3 to Km 12, Restoration of Traffic sign, markings & appurtenances.		scope.	0	
UEAP /PWD/ C-21	Narshing Mandir Approach Road Joshimath	The restoration work of damaged portion of road including earth filling in patries from Km 1 to Km 4, Reconstruction of damaged retaining wall and breast wall in Km 1 & Km 2, Reconstruction of Cross drainage works damaged from Km 1 to Km 3, Repair of damaged Causeways in Km 1, Reconstruction of KC drain from Km 1 to Km 4, WBM (G1, G2, G3) in damaged portion from Km 1 to Km 4, BM as profile correction & SDBC as surface dressing in heavily damaged black top portion of road from Km 1 to Km 4, Restoration of Traffic sign, markings & appurtenances.	Bituminous Work in addition to Structure Work, however work progress was slow due to non- availability of Man- Power and Machineries	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	
	Internal Road of Nagar Panchayat Karanprayag	The restoration work of damaged portion of roads consist (1) Panchpuliya to Main Bazar motor road (Length-1.044 Km), (2) Panchpuliya to Upper Bazar motor road (Length-1.250 Km), (3) Panchpuliya to Bus Station (Towards Gauchar side & Gopeshwar side) motor road (Length-0.180+0.200= 0.380 Km), (4) Karnprayag-Nauti-Paithani motor road (Length-2.100 Km). Restoration work of Internal motor roads includes reconstruction of KC drain, Repair of damaged Causeways, BM as profile correction & SDBC as surface dressing in heavily damaged black top portion of road, Restoration of Traffic sign, markings & appurtenances	Bituminous Work in addition to Structure Work, however work progress was slow due to non- availability of Man- Power and Machineries	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	
UEAP /PWD/	Rudraprayag- Pokhari-	The restoration work of damaged portion of road includes Slip clearance in Km 61, Km 62, Km 64, Km 65, Km 68,	During This Period Weather was clear	At this stage there is no	Instruction has been issued to contractor	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
C-32	Karanprayag	Km 69 & Km 72, Reconstruction of damaged retaining wall and breast wall in Km 69, Km 70, Km 73 & Km 75, Reconstruction of drain, Reconstruction of Cross drainage works damaged in Km 43, Km 44, Km 59 to Km 76, Repair of damaged Causeways Km 69, Km 71 & Km 74, WBM (G1,G2,G3) in Km 43, Km 44, Km 46, Km 47, Km 59 to 75, Repair of pot holes by BM & SDBC in Km 46, Km 47, Km 59 to 75, Resurfacing by BM & SDBC in heavily damaged black top portion of road in Km 43, Km 44, Km 46, Km 47, Km 59 to 75, Restoration of Traffic sign, markings & appurtenances.	for carrying our Bituminous Work in addition to Structure Work	such changes are expected from the approved scope.	for collection of environment monitoring data during construction phase.	
UEAP /PWD/ C-33	Tharali Dewal Mundoli	The restoration work of damaged portion of road includes Reconstruction of damaged retaining wall and breast wall in Km 1 to Km 9, Km 11 to Km 13, Km 16, Km 18 to Km 20, Km 22, Km 25, Km 26 & Km 33 to Km 36, Reconstruction of drain, Reconstruction of Cross drainage works damaged in Km 4, Km 5, Km 9, Km 10, Km 15 to Km 19, Km 27 & Km 33 to Km 37, WBM (G1,G2,G3) in Km 1 to Km 3, Km 14, Km 16, Km 17, Km 20, Km 22, Km 24, Km 25, Km 29, Km 34 & Km 35, Resurfacing with Premix Carpet & Seal Coat in heavily damaged black top portion of road in Km 1 to Km 3, Km 14, Km 16 to Km 18, Km 20, Km 22, Km 24, Km 25, Km 29, Km 34 & Km 35, Restoration of Traffic sign, markings & appurtenances.	Bituminous Work in addition to Structure Work, however work progress was slow due to non-availability of Man-Power and Machineries	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	
UEAP /PWD/ C-34	Internal Road of Nagar Palika Gopeshwar	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	Contractor has yet to mobilize his resources.	At this stage there is no such changes are expected from the	Instruction has been issued to contractor for collection of environment monitoring data	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
				approved scope.	during construction phase.	
UEAP /PWD/	Karanprayag- Nauti-Paithani	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	-		
C-49	Gauchar - Sidholi (Km 1 To 24)	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	-		
UEAP /PWD/ C-50	Karanprayag- Nainisen Km 1 To 26)	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	the state of the s		
UEAP /PWD/ C-51	Pokhari Gopeshwar	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	Bituminous Work in addition to Structure Work, however work progress was slow due to non-availability of Man-Power and Machineries	-	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
/PWD/ C-30	ginarayan	reconstruction of damaged retaining wall and breast wall in Km 1 to Km 12.35, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 8,9,10 to12 Repair of damaged Causeways Km 1, WBM (G1,G2,G3) in Subsidence portion of Km 1 to Km 12.35, resurfacing of damaged (ruts & patches) before providing profile correction with BM through SDBC Km 1 to Km 12.35, restoration of Traffic sign, markings & appurtenances.	Weather was clear for carrying our Bituminous Work in addition to Structure Work	there is no such changes are expected from the approved scope.	issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD/ C-31	Makku Pahunch Marg to Paldwari	The restoration work of damaged portion of road consist of reconstruction of damaged retaining wall and breast wall in Km 7.40 to Km 23, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 7.40 to 23 Repair of damaged Causeways Km 7.40 to Km 23, WBM (G1,G2,G3) in Subsidence portion of Km 7.40 to Km 23, resurfacing of damaged (ruts & patches) before providing profile correction with BM through SDBC in Km 7.40 to Km 23, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD/ C-5	Pauri-Khirsu- Srinagar Road	The restoration work includes site clearance, earthwork, road cutting for widening of roads, sub base and base course of WBM providing BM/BC or surface Dressing and SDBC for resurfacing of the existing roads, cross drainage works, construction and rehabilitation of bridges, drainage and protection work, slope stabilisation, river training works, road marking and road signs	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD/ C-35	Buakhal-Pauri- Devprayag- Gaja-Jajal Motor Road	The restoration work of damaged portion of road at km 8, 12,18,19,31 to 49,84 86 94 98 95,119 for SDBC. Breast wall and retaining walls are taken at Km 8,10,15 27,33,35,40,41,43,47,48,53,54,55,56,64,65,68,78,82,83,84 ,85,86,87,88,89,91,92,96,99,100, 103,110,115, 117,	During This Period Weather was clear for carrying our Bituminous Work in addition to	At this stage there is no such changes are expected from the	Instruction has been issued to contractor for collection of environment monitoring data	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
		119.Pucca and kutcha scuppers are taken at Km25, 34,51,53,55,56,58,60,65,68,70,78,89,94,96,100, 114,117 &119.Carsh barrier are taken at km 32, 33, 36,37, 38,42, 43,44,45,46,74,95,104,106,110,112,113,117,118,&119. The main outcome of this project would be restoration of the road to its original shape with the clearance of slip and construction of Retaining & Breast Wall, Drains, Crash Barriers and improvement of riding surface by resurfacing through Cement Concrete and BM/SDBC.	Structure Work	approved scope.	during construction phase	
UEAP /PWD/ C-40	Khanda Sumari Bhugani	The restoration work of damaged portion of road at km 1 to 17.5 for SDBC. Breast wall and retaining walls are taken at Km 1,2,3,4,7,8,12,16,17. Pucca and kutcha scuppers are taken at Km2,3,4,7,8.Carsh barrier are taken at km 1,2,3,4,6,7,8,9,12,14,15,16,17.The main outcome of this project would be restoration of the road to its original shape with the clearance of slip and construction of Retaining & Breast Wall, Drains, Crash Barriers and improvement of riding surface by resurfacing through Cement Concrete and BM/SDBC.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD/ C-65	Khirsu Musagali Damdeval	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
	Bughani Devalgarh Chamdhar	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road,	During This Period Weather was clear for carrying our	At this stage there is no such changes	Instruction has been issued to contractor for collection of	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
		restoration of Traffic sign, markings & appurtenances.	Bituminous Work in addition to Structure Work	are expected from the approved scope	environment monitoring data during construction phase	
UEAP /PWD/ C-66	Riknikhal Bironkhal Motor Road	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C71	Lakshman Jhoola- Rathuwadhab- Dhumakot Road	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C72	Thailisain- Bungidhar- Deghat Motor Road	The restoration work of damaged portion of road includes WBM (G3), Profile Correction by BM, and Resurfacing by SDBC in heavily damaged black top portion of road, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	-	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	
UEAP/ PWD C13	Pilkhi-Gadoliya Motor Road	The restoration work of damaged portion of road i.e. Slip clearances, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 1 to 12, Repair of	Slip Clearances and reconstruction of	No such changes are expected from	Instruction has been issued to contractor for collection of environment	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
		damaged Causeways Km 1, 2 & 3, WBM (G1, G2) in Subsidence portion of Km 5 & 11, Road surface damaged (ruts & pot holes) by BM & SDBC in Km 2,3,5,7,8,9,10,11 and 12, restoration of traffic sign, markings & appurtenances.	damaged retaining wall	the approved scope	monitoring data during construction phase .	
	Reconstruction Of Inspection House Approach Road Under Nagar Panchayat Devprayag	The restoration work of damaged portion of road i.e. Slip clearances, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 1, WBM (G1, G2) in subsidence portion of Km. 1, road surface damaged (ruts & pot holes) in total length i.e. 1.00 km. hence resurfacing is proposed by SDBC in Km1, restoration of traffic sign, Markings & appurtenance.	Slip Clearances and reconstruction of damaged retaining wall	No such changes are expected from the approved scope	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	
UEAP /PWD C36	Pratapnagar- Tehri	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Slip Clearances, cross drainage works	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C39	Gaza-Nakot	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Slip Clearances, wire Creates, SDBC (11 km)	No such changes are expected from the approved scope	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	
UEAP /PWD C43	Tehri- Ghansali- Tilwara	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining	Construction of drain	At this stage there is no such changes	Instruction has been issued to contractor for collection of	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
UEAP /PWD/ C-9	Guptkashi Kalimath Kotma Jaal Chaumasi	The restoration work of damaged portion of road i.e. Slip clearance in Km 2 to Km 22, reconstruction of damaged retaining wall and breast wall in Km 11 to Km 25, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 4,10 to 22 Repair of damaged Causeways Km 6 to 9, 12, 17 to 19, WBM (G1,G2,G3) in Subsidence portion of Km 1,3,5,8to11,16,17, Road surface damaged (ruts & pot holes) by PC & Seal Coat in Km 1,3,5,8 to11,16 to 19, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD/ C-22	Reconstruction of New Bus stand road under Nagar Palika Rudraprayag	The restoration work of damaged portion of road consist of reconstruction of drain, reconstruction of Cross drainage works damaged in Km 1, relaying of WBM (G1,G2,G3) in Subsidence portion of Km in1, profile correction coat of BM due to ruts, pot holes, camber and super elevation correction in existing road including resurfacing by SDBC, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD/ C-29	Khirshu- Khedakhal- Kandai- Khankra	The restoration work of damaged portion of road consist of Slip clearance in Km 18 to Km 20, Km 30 to 39, reconstruction of damaged retaining wall and breast wall in Km 12, 14, 15, 17-19, 22-24, 30 to Km 37, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 5,17, 20, 21, 26, 30-32, 35, 37 Repair of damaged Causeways Km 26, 29, 30 to 37, WBM (G1,G2,G3) in Subsidence portion of Km 10to12, 17, 19, 20to39, resurfacing damaged (ruts & patches) before providing profile correction with BM through SDBC IN km 1 to 39, restoration of Traffic sign, markings & appurtenances.	During This Period Weather was clear for carrying our Bituminous Work in addition to Structure Work	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP	SonprayagTriy	The restoration work of damaged portion of road consist of	During This Period	At this stage	Instruction has been	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
		wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.		are expected from the approved scope.	environment monitoring data during construction phase	
UEAP	Raipur- Kaddukhal Motor Road (Km 1 To 8, Km 14 To 39 & Km 42 To 72)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings &appurtenances.	Reconstruction of damaged retaining wall and breast wall, reconstruction of drain	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
/PWD C56	Suwakholi- Bhawan-Sarot Chapra Nagun Motor Road (Km 1 To 28)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C57	Ghansali Tehri Pratapnagar Motor Road (Km 1 To 21 And K 34 To 40)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	reconstruction of damaged retaining wall and breast wall	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
	Lambgaon Pratapnagar	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and	Cross drainage works	At this stage there is no	Instruction has been issued to contractor	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
	Motor Road (Km 1 To 23)	breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.		such changes are expected from the approved scope.	for collection of environment monitoring data during construction phase	
	Kodar- Deengaon- Mukhem Motor Road (Km1 To 23)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Retaining wall and breast wall	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C58	Chamiyala- Bhudakedar Motor Road (Km 4 To 9 And Km 12 To 17)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Slip clearance, reconstruction of damaged retaining wall and breast wall	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
	Ghansali-Koti- Akhodi Motor Road (Km 1 To 7, Km 14 To 29, Km 30 To 33 & Km 36 To 52)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Cross drainage works	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C59	Tehri- Hindolakhal- Devprayag	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross	Slip clearance	At this stage there is no such changes	Instruction has been issued to contractor for collection of	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
	Motor Road (Tipri Raoddhar Motor Road Km 1 To 9 & Km 22 To 25)	drainage works, restoration of Traffic sign, markings & appurtenances.		are expected from the approved scope.	environment monitoring data during construction phase	
	Tehri- Hindolakhal- Devprayag Motor Road (Rauddhar- Devprayag Motor Road Km 32 To 42 & Km 48 To 58)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Retaining wall and breast wall	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C67	Tyuni- Chakrata- Mussoorie- Chamba- Tehri- Kirtinagar (Km 17 To 40)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Cross drainage works	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C68	Bhaldiyana- Lambgaon (Km 8 To 23	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Slip clearance	At this stage there is no such changes are expected from the approved	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
UEAP /PWD C69	Nainbag- Ghudakhuri- Andi (Km1 To 6 & 17 To 31)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Cross drainage works	scope. At this stage there is no such changes are expected from the approved	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C23	Tyuni- Chakrata- Mussoorie- Chamba- Kirtinagar	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works damaged in Km 2 to 18 & Km 34 to 47, restoration of Traffic sign, markings & appurtenances.	Slip clearance, reconstruction of damaged retaining wall and breast wall	scope. No such changes are expected from the approved scope	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C24	Kalsi- Bairatkhai	The nature of work proposed is the reconstruction work of damaged portion of road around 23.50 km Most of the Road Section Surface in each Km are damaged by the heavy rain during the said disaster, therefore resurfacing with SDBC is proposed for the entire length of the road. Reconstruction of Causeway is proposed at Km 5. Culvert repair, reconstruction of KC drain, Retaining/Breast Wall repair is proposed. Crash Barriers of length around 4700m are proposed at danger points.	Culvert repair, reconstruction of KC drain, Retaining/Breast Wall	No such changes are expected from the approved scope	Instruction has been issued to contractor for collection of environment monitoring data during construction phase .	
UEAP /PWD C38	Ichari-Kwano- Meenus	The nature of work proposed is the reconstruction of damaged portion of the road from Km 31 to Km 55 totaling around 25.00 Km in length Around 375 nos of Wire-Crates are proposed at the road. To incorporate safety concerns, 1250m of Crash-Barriers and 1013 Qub. Parapets construction is also proposed in the affected length of road.	construction of Retaining & Breast Wall	No such changes are expected from the approved scope	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptio ns and risks that affect attainment of the objectives
		The main outcome of this project would be restoration of the road to its original shape with the clearance of slip and construction of Retaining & Breast Wall, Drains, Crash Barriers, and improvement of riding surface by resurfacing through Cement Concrete and BM/SDBC.				
UEAP	Naugaon- Purola	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Cross drainage works	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
/PWD C11	Kalsi-Chakrata Road	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Slip clearance	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C14	Kuwa-Kafnaul Rahdi Motor Road	The nature of work proposed is the restoration work of damaged portion of road at km 1, 2, 3, 4, 5, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 26, 28, 29, 30, 31, 39, 43, 44, 45. Resurfacing with SDBC is proposed at Km 1, 2,4,5,11,12, 13, 15, 16, 17, 22, 39, 40, 41, 42, & 44 totaling to 1953m in length. Cement Concrete pavement is proposed for water logged stretches at Km 11.1, 12.4, 20.4 & 21.1 totaling to 195m in length. Retaining/Breast Wall repair is proposed at Km	Retaining/Breast Wall repair is in progress at Km 12.1, 12.4	No such changes are expected from the approved scope	Instruction has been issued to contractor for collection of environment monitoring data during construction phase.	

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
		12.1, 12.4, 12.9, 13.1, 13.2, 14.5, 18.5, 21.1, 21.4, 25.8, 28.6, 29.8 & 30.3 totaling to 232m in length. Drainage repair of 6000m in length is proposed. A Causeway repair is proposed at Km14.9. The Wire-Crate walls are proposed at km 0.5, 0.9, 1.6, 2.5, 3.7, 3.9, 12.5, 14.8, 14.9, 27.6, & 28.7 to contain the minor landslides. Crash-Barriers are proposed at Km 20, 21 & 22.				
UEAP /PWD C37	Tyuni-Mori- Purola- Naugaon	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Retaining wall and breast wall	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C52	Silkyara Bangaon Chapda Saroth (Included Tehri District Part Km 1 To 20 & 80 To 98)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Cross drainage works	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C53	Badethi Banchora Badrigarh (Included Tehri District Part Km 1 To 16, Km 70 To 80,	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Slip clearance	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	,

Pkg. Code	Name of Sub- Project Roads	Listing of works under the package	What type of works continued at present	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Key assumptions and risks that affect attainment of the objectives
	95 To 96)					
UEAP /PWD C54	Naogaon Paunti Rajgadi (Km 1 To 24)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Retaining wall and breast wall	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
	Damta Kandari (Km 17 To 22)	The restoration work of damaged portion of road i.e. Slip clearance, reconstruction of damaged retaining wall and breast wall, reconstruction of drain, reconstruction of Cross drainage works, restoration of Traffic sign, markings & appurtenances.	Cross drainage works	At this stage there is no such changes are expected from the approved scope.	Instruction has been issued to contractor for collection of environment monitoring data during construction phase	
UEAP /PWD C55	Mori Natwadh Sankari (Km 5 To 26) Sankari Jakhol (Km 1 To 16.15)	Under Bidding				

F. Complianceof Safeguard Loan Covenants

1. The status of compliance of ADB's major Loan Covenants related to Safeguard issues is shown below:

Clause and Para No.	Description	Compliance Status
Safeguards (I	 Environment\	
Schedule 5, Para 9. (a) of Loan Agreement	The Borrower shall ensure or cause the EA and IAs to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project facilities comply with	
, g.oso	 (i) all applicable laws and regulations of the Borrower and State relating to environment, health, and safety; (ii) the Environmental Safeguards of ADB; and (iii) all measures and requirements set forth in the EARF, EIA/ IEE as applicable, and the EMMP and any corrective or preventative actions set forth in a Safeguards Monitoring 	(ii) Being Complied (ii) Being Complied Periodically. (iii) Being Complied
	Report.	
	inancial Resources to Implement Safeguards Requirements	
Schedule 5, Para 12 (a) of Loan Agreement	Human and Financial Resources to Implement Safeguards Requirements that all necessary budgetary and human resources to fully implement the EMMP, the RP, and the IPP as required, are made available; and	Human Resources PIU: Complied DSC: Complied Contractor: As ref. under 2.4 of this report Financial Resources As per item no. 11 of BoQ of Contractors Agreement, Environmental Measures has already been incorporated
Schedule 5, Para 12 (b)	Designates at least one official each to supervise implementation of the EMMP, and RP if any.	PIU: Complied DSC: Complied Contractor: As ref. under 2.4 of this report
Safeguards -	Related Provisions in Bidding Documents and Works Contra	cts
Schedule 5, Para 13 (a)	comply with the measures and requirements relevant to the contractor set forth in the EIA/IEE, the EMMP, and the RP and the IPP as applicable (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report;	Approved IEEs, EMPs and RPs are attached in Bidding documents. In case of any change of scope, revised IEEs, EMPs will be prepared and corrective measures will be disclosed to contractor and same will be reflected in the "Environment Monitoring Report"
Schedule 5, Para 13 (b)	make available a budget for all such environmental and social measures;	As per item no. 11 of BoQ of Contractors Agreement, Environmental Measures has already been incorporated.
Schedule 5, Para 13 (c)	provide the relevant IA with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks if any, or impacts that arise during construction, implementation or operation of the project that were not considered in the EIA/IEE, the EMMP, and the RP or the IPP if any;	As and when anticipated shall be improved accordingly

Clause and Para No.	Description	Compliance Status
Schedule 5, Para 13 (d)	adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and	Haul roads will be marked properly (by avoiding residences and agricultural land) before commencement of transportation of materials.
Schedule 5, Para 13 (e)	fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	Restoration of any damaged/ impact on path or local infrastructure shall be done prior to issuing of completion certificate.
Safeguards	Monitoring and Reporting	
Schedule 5, Para 14 (a)		Shall be done in accordance to the loan agreement of project.
Schedule 5, Para 14 (b)		As and when anticipated, shall be informed accordingly
Schedule 5, Para 14 (d)		In case of any breach of compliance with the measures and requirements set forth in the EMP; EA will promptly inform ADB and suitable corrective action plan will be planned.
Prohibited Li	st of Investments	
15	The Borrower shall ensure or cause the EA and each IA 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 SPS	Complied For selection of sub projects there is no violation of prohibited investment activities as per ADB SPS (2009) Appendix 5.
Labour Stand	dards	
16	The EA through each IA shall ensure that civil works contracts under the Project follow all applicable labor laws of the Borrower and 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 will also include clauses for termination in case of any breach of the stated provisions by the contractors.	

- G. Environmental and Social Organization and Management along with Implementation Arrangements
- 10. The institutional arrangements specify the arrangements for the implementation of environmental provisions of the proposed subproject. The Executing Agency (EA) State Disaster Management Authority (SDMA) will work closely with the Implementing Agency (IA) Uttarakhand Public Works Department (PWD) for effective implementation of environmental safeguards related requirements of the sub projects. The institutional arrangements and responsibilities are detailed below.
- 11. The subproject will be implemented and monitored by Uttarakhand Public Works Department as Implementing agency and implemented through its Field PIU's supported by DSC (also working as Engineer) and overall management support shall be provided by PMU, UEAP.
- 12. The Safeguard Staff of UEAP SDMA (EA) in PMU & IA will monitor the implementation of environmental covenants with assistance of Engineer (DSC).
- 13. UEAP SDMA (EA) shall be responsible for ensuring compliance to environmental requirements of the ADB as well as central/state governments and reporting the same to ADB. A relevant portion of EMMP will be a part of contract with the civil works contractors engaged for execution of the works. The primary responsibility of implementation of EMMP is of the IA during pre-construction and operation and maintenance phases; and of the civil works contractor during the construction phase as defined in the EMMP. The responsibility of supervision of EMMP implementation is of the DSC; and it would guide the IA and the civil works contractors in this regard. DSC with IA and EA, UEAP will act as monitoring agency as delegated in EMMP. All applicable statutory environmental clearances, consents, and/or permits (at national, state and local levels) as required for the implementation of the subproject would be obtained by the IA or by the civil works contractor in line with India's national/state/local laws and regulations, and in accordance with ADB's SPS 2009 requirements. Redressal of grievances shall be the responsibility of UEAP SDMA (EA). Apart from the mechanism for the grievances receiving and redressal at the level of EA, the provision shall be kept in the EMP of the subprojects wherein the contractor will depute one Environmental Safeguard Officer who shall be responsible for implementation of EMP, reporting and grievance redressal on day-to-day basis. The grievances/complaints received at the level of contractor shall be recorded on the Complaints Register and the same shall be forwarded to the DSC (Engineer of the Contract) within 48 hours along with the details of action taken to redress the grievance. The Team Leader of DSC shall immediately try to resolve the issues and forward the details to the FPIU / IA. If the action taken by Contractor and DSC is found to be inadequate, then necessary instructions shall be issued by the FPIU/IA for implementation of rectification measures.

III. ENVIRONMENTAL PROCEDURE REVIEW

- H. Environmental Legal Requirement Environmental Legislation and Pollution Control Acts
- 14. The Government of India has formulated various policy guidelines; acts and regulations aimed at the sustenance of environment in general, which are briefly summarized and few applicable acts with the project, are described in the following sub-sections.

SI. No.	Sources	Legislation		
1	EIA Notification	The Ministry of Environment and Forests has revised the EIA notification, 1994, and issues the revised EIA notification on 14 th September 2006 and amendment thereafter.		
2	Environment	The Environment (Protection) Act, 1986		
3	Forest/ Tree resources	The Forest (Conservation) Act, 1980		
4	Water Pollution	The Water (Prevention and Control of Pollution) Act, 1974, as amended in 1988		
5	Air Pollution	The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987		
6	Noise Pollution	The Noise Pollution (Regulation and Control) Rules, 2000		
7	Public Liability	The Public Liability Insurance Act, 1991 The Public Liability Insurance Rules, 1991		
8	Conservation, construction and reuse in and around the protected monuments	The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959		
9	Hazardous Waste	 Hazardous Waste (Management and Handling) Rules, 1989 Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 Emergency Planning Preparedness and Response for Chemical Disasters Rules, 1995 Hazardous Microorganisms and Genetically Modified Organisms (Manufacture, Use Import Expert and Storage) Rules, 1999 		
10	Use and Management of Explosive			

15. Prominent acts are discussed below:-

The Environment Protection act, 1986 and the EIA Notification, 2006

- 16. The Environmental (Protection) Act, 1986 is the umbrella legislation providing for the protection of environment in the country. This Act provided for the Environment (Protection) Rules, which have been formulated under the act "The Environmental Impact Assessment Notification, 1994 and Revised EIA notification on 14th September 2006" and Year 2009 the Amendments thereafter.
- 17. The Water (Prevention and Control of Pollution) Act 1974 as amended in 1988 and AIR (Prevention and Control of Pollution) Act, 1981 as amended by Amendment Act, 1987.
- 18. The Water (Prevention and Control of Pollution) Act, 1974 resulted in the establishment of the Central and State level Pollution Control Boards whose responsibilities include managing water quality and effluent standards, as well as monitoring water quality, prosecuting offenders and issuing licenses for construction and operation of certain facilities. The SPCB is also empowered to set air quality standards and monitor and prosecute offenders under the air (Prevention and Control of Pollution) Act, 1981.

The Noise Pollution (regulation and control) rules, 2000, as amended

- 19. Use of heavy machinery and vehicles ambient noise levels may increase during the construction phase. It is considered necessary to regulate and control noise producing and generating sources with the objective of maintaining the ambient air quality standards in respect of noise. The occupier of subprojects have to take measures for abatement of noise pollution ensuring that the existing noise levels do not exceed the standards specified under the Noise Pollution (regulation and control) rules, 2000, as amended.
- 20. The specific requirements to ensure compliance by these components and subprojects are shown in **Compliance with Environmental Regulations**.
- 21. Clearance status for subprojects is given in **Table 5** below.
- 22. During January –June 2015, the following major issues were reviewed and the contractors were requested for their earlier compliances.
 - Renewal of NOC/Consent to operate for Hot Mix Plants, WWM, batchingplant and stone crushers
 - Compliance with hazardous waste disposal requirements of waste/used oil and lubricants
 - Compliance with the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 and Batteries (Management and Handling), Amendments Rules, 2010
 - Quarterly environmental monitoring for ambient air, noise and water quality.
 - Improvement in general housekeeping at each construction camp sites.
 - Providing first aid facility in each construction camps
 - HIV/AIDS awareness and health check-up programme
 - Personal Protection Equipment (PPE) to the workers
 - Maintaining Traffic and Safety management in each of the CD structures under construction as well as road works.

Environmental compliance status for the running project is encl. in Annexure 1.

Table 4: Present Status of Environment, Forest & other clearances (June 2015)

Work (Package No.)	Subject / Issue	Clearance / NOC given by and date	Remarks/ Action needed
UEAP/PWD/C-7 a. Nandprayag-Ghat Motor Road b. Rudraprayag-Pokhari- Karanprayag		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required.	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-8 Chamoli – Kund		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required.	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-20 Joshimath-Auli under Nagar Palika Joshimath		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required.	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-21 a. Narshing Mandir Approach Road Joshimath b. Internal Road of Nagar Panchayat Karanprayag		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required.	ecology and environment of the locality. Since the project involves restoration of
UEAP/PWD/C-32 Rudraprayag-Pokhari- Karanprayag		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required.	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-33 Tharali Dewal Mundoli		During the preparation of IEE and EMMP it was	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project

Work (Package No.)	Subject / Issue	Clearance / NOC given by and date	Remarks/ Action needed
		observed that no statutory and legislative clearance is required	involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-34 Internal Road of Nagar Palika Gopeshwar		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-49 Karanprayag-Nauti-Paithani Gauchar - Sidholi		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-50 Karanprayag-Nainisen		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-51 Pokhari Gopeshwar		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-9 Guptkashi Kalimath Kotma Jaal Chaumasi		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-22		During the	Implementation of the project

Work (Package No.)	Subject / Issue	Clearance / NOC given by and date	Remarks/ Action needed
New Bus stand road under Nagar Palika Rudraprayag		preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-29 Khirshu-Khedakhal-Kandai- Khankra		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-30 SonprayagTriyginarayan		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-31 Makku Pahunch Marg to Paldwari		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-5 Pauri-Khirsu-Srinagar Road		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-35 Buakhal-Pauri-Devprayag- Gaja-Jajal Motor Road		During the preparation of IEE and EMMP it was observed that	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of
		no statutory and legislative clearance is	existing road on available ROW belonging to PWD. The project will not influence the

Work (Package No.)	Subject / Issue	Clearance / NOC given by and date	Remarks/ Action needed
		required	flora or fauna of the locality in any way
UEAP/PWD/C-40 Khanda Sumari Bhugani		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-65 Khirsu Musagali Damdeval Bughani Devalgarh Chamdhar		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD/C-66 Riknikhal Bironkhal Motor Road		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-71 Lakshman Jhoola- Rathuwadhab-Dhumakot Road		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project
uEAP/PWD C-13 a. Pilkhi-Gadoliya Motor Road b. Reconstruction Of Inspection House Approach Road Under Nagar Panchayat Devprayag		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-36 Pratapnagar-Tehri		During the preparation of IEE and EMMP it was observed that	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of

Work (Package No.)	Subject / Issue	Clearance / NOC given by and date	Remarks/ Action needed
		no statutory and legislative clearance is required	existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-39 Gaza-Nakot		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-43 Tehri-Ghansali-Tilwara		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-56 a. Raipur-Kaddukhal Motor Road (Km 1 To 8, Km 14 To 39 & Km 42 To 72 b. Suwakholi-Bhawan-Sarot Chapra Nagun Motor Road (Km 1 To 28)		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
ueap/pwd c-57 a. Ghansali Tehri Pratapnagar Motor Road (Km 1 To 21 And K 34 To 40) b. Lambgaon Pratapnagar Motor Road (Km 1 To 23) c. Kodar-Deengaon-Mukhem Motor Road (Km1 To 23)		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-58 a. Chamiyala-Bhudakedar Motor Road (Km 4 To 9 And Km 12 To 17) b. Ghansali-Koti-Akhodi Motor Road (Km 1 To 7, Km 14 To 29, Km 30 To 33 & Km 36 To 52)		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-59 a. Tehri-Hindolakhal-		During the preparation of	Implementation of the project will not have any bearing on

Work (Package No.)	Subject / Issue	Clearance / NOC given by and date	Remarks/ Action needed
Devprayag Motor Road (Tipri Raoddhar Motor Road Km 1 To 9 & Km 22 To 25) b. Tehri-Hindolakhal- Devprayag Motor Road (Rauddhar-Devprayag Motor Road Km 32 To 42 & Km 48 To 58)		IEE and EMMP it was observed that no statutory and legislative clearance is required	ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-67 Tyuni-Chakrata-Mussoorie- Chamba-Tehri-Kirtinagar (Km 17 To 40)		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-68 Bhaldiyana-Lambgaon (Km 8 To 23)		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-69 Nainbag-Ghudakhuri-Andi (Km1 To 6 & 17 To 31)		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-23 Tyuni-Chakrata-Mussoorie- Chamba-Kirtinagar		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project
UEAP/PWD C-24 Kalsi-Bairatkhai		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in

Work (Package No.)	Subject / Issue	Clearance / NOC given by and date	Remarks/ Action needed
UEAP/PWD C-38 Ichari-Kwano-Meenus		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
ueap/pwd c-11 a. Naugaon-Purola b. Kalsi-Chakrata Road		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-14 Kuwa-Kafnaul Rahdi Motor Road		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
UEAP/PWD C-37 Tyuni-Mori-Purola-Naugaon		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project
UEAP/PWD C-52 Silkyara Bangaon Chapda Saroth (Included Tehri District Part Km 1 To 20 & 80 To 98)		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	Implementation of the project
UEAP/PWD C-53 Badethi Banchora Badrigarh (Included Tehri District Part Km 1 To 16, Km 70 To 80, 95		During the preparation of IEE and EMMP it was	Implementation of the project
To 96)		observed that no statutory	

Work (Package No.)	Subject / issue	Clearance / NOC given by and date	Remarks/ Action needed
		and legislative clearance is required	ROW belonging to PWD. The project will not influence the flora or fauna of the locality in any way
uEAP/PWD C-54 a. Naogaon Paunti Rajgadi (Km 1 To 24) b. Damta Kandari (Km 17 To 22)		During the preparation of IEE and EMMP it was observed that no statutory and legislative clearance is required	will not have any bearing on ecology and environment of the locality. Since the project involves restoration of existing road on available ROW belonging to PWD. The

S. N.	Project Packages & Contractor Name	Statutory Environmental Requirements	Compliance Status
1	M/s R.G. Buildwel	Consent to Establish and Operate: a) hot mix plant (HMP), b) Diesel Generator Sets	C-5: HMP's CTO has been obtained by contractor vide lt.no. UEPPCB/Sahmati/R-77/2014/109 dt 18/5/14 having effective date from 30.10.13 till 30.06.15. The HMP is established in village Naogaon kafolla, Tehsil Satpulli, Pauri Garhwal with Land Validity till 14.10.2015. Contractor has been advised to submit the renewed CTO form UEPPCB and compliance of its general conditions (Appendix-1). C-31: HMP's CTO has been obtained by contractor vide lt. no. UEPPCB/HO/NOC/2081 /2014/1323 dated 04-12-2014 valid upto 29.09.2015. At kahata no 16/6, Village Lameri, Dist. Rudraprayad.
			Provisional Consent order (CCA) has been granted vide order no. AWH-34505 valid upto 31.03.2016. Detailed order for CCA yet to Submit which is considered to be final. Contractor has been advised to submit detailed order form UEPPCB and compliance of its general conditions (Appendix-2)
			C-20:Contractor has obtained the CTE permission for its plant at village Didoli, Nandprayag, Chamoli. However the CTO for plant yet to be provided by contractor. (Appendix 3)
			C-21&32: HMP is established in Tilni Village, Rudraprayag (60 TPH) having consent no. CtO:CCA no 57866 dated 10/09/2014 with validity Upto 31/03/2015. Contractor has been advised to submit the renewed CTO and fulfilling the general condition of UEPPCB.
			<u>C-49 & 50</u> : Establishing HMP is under process with No physical progress till date.
			C-51: Contractor has setup HMP

S. N.	Project Packages & Contractor Name	Statutory Environmental Requirements	Compliance Status
			in Nandprayag and applied for Fresh NOC on CTE & CTO 15.02.2015. However no details have been submitted by contractor in this direction.
		Labour license, safety measures and other welfare measures.	Deputy labour Commissioner, Gharwal Mandal vide its lt. 565/D-Cl/2000 dated- 20.01.2014 has issued the licensewith valid upto 30.09.2015.
			As per license the workman employed as contract labour in the establishment shall not exceed 100 no.(Appendix-4)
		Consent for Quarry Operations	Contractor is yet to submit the
		License for Storing Diesel and other explosives	license for quarry operation. No Details have been provided
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Obtained
2	M/S Bharat Construction	Consent to Establish and Operate: a) Hot mix plant (HMP), b) Diesel Generator Sets	No documents have been submitted by contractor for any sub-package regardless of repeated reminders by DSC.
		Labour license, safety measures and other welfare measures.	Not Submitted
		Consent for Quarry	Contractor is yet to submit the
		Operations Public safety	license for quarry operation. Limited precautionary measures
		PUC Certificates for contractors vehicles	taken. Not submitted
3	M/S Bhanu Prasad Anthwal • C-22	Consent to Establish and Operate: a) Hot mix plant (HMP), b) Diesel Generator Sets	Since Subproject Affected length is only 0.430 km. Contractor shall obtain the required material from other's established plant. However no details in this have been submitted by contractor.
		Labour license, safety measures and other welfare measures.	Not Submitted
		Consent for Quarry Operations	Not Submitted
		License for Storing Diesel and other explosives	Not Submitted
		Public safety	Not Submitted
		PUC Certificates for contractors vehicles	Not Submitted

S. N.	Project Packages & Contractor Name	Statutory Environmental Requirements	Compliance Status
4	M/s Rami Construction Company • C34	Consent to Establish and Operate: a) hot mix plant (HMP), b) Diesel Generator Sets	Not Submitted
		Labour license, safety measures and other welfare measures.	Not Submitted
		Consent for Quarry Operations	Not Submitted
		License for Storing Diesel and other explosives	Not Submitted
		Public safety	Not Submitted
		PUC Certificates for contractors vehicles	Not Submitted
5	M/s Gaurav Builders • C-30	Consent to Establish and Operate: a) hot mix plant (HMP), b) Diesel Generator Sets	Applied for consent as informed however no details have been provided.
		Labour license, safety measures and other welfare measures.	Not Submitted
		Consent for Quarry Operations	Not Submitted
		License for Storing Diesel and other explosives	Not Submitted
		Public safety	Not Submitted
		PUC Certificates for contractors vehicles	Not Submitted
6	M/s Rajshri Construction • C-65	Consent to Establish and Operate: c) hot mix plant (HMP), d) Diesel Generator Sets	Provisional Consent order (CTE) has been obtained vide order no. CTE-34724 valid upto 31/03/2016 (Appendix-5).
			However the final order as well the permission to Operate (CTO) from
		Labour license, safety measures and other welfare measures.	UEPPCB has to be submitted. Not Submitted
		Consent for Quarry Operations	Not Submitted
		License for Storing Diesel and other explosives	Not Submitted
		Public safety	Not Submitted
		PUC Certificates for contractors vehicles	Not Submitted
7	M/S N.P. Buildwel	Consent to Establish and Operate:	Provisional Consent order (CTE) has been obtained vide order no.
	• C-40	c) Hot mix plant (HMP), d) Diesel Generator Sets	CTE-59175 valid upto 16/04/2016 (Appendix-6).
			However the final order as well the permission to Operate (CTO) from UEPPCB has to be submitted.

S. N.	Project Packages & Contractor Name	Statutory Environmental Requirements	Compliance Status
		Labour license, safety measures and other welfare measures.	Not Submitted
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Not submitted
8	M/S Woodhill Infrastructure Limited	Consent to Establish and Operate: e) Hot mix plant (HMP), f) Diesel Generator Sets	Not Submitted
	• C- 66 • C-70	Labour license, safety measures and other welfare measures.	C-70 Submitted C-66 Not Submitted
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Not submitted
9	M/s Woodhill Infra	Consent to Establish and Operate: g) Hot mix plant (HMP), h) Diesel Generator Sets	C-13: Contractor is purchasing material from C 65 C-56: Applied & CTO Will be applied once CTE will obtained C-52: Contractor purchased hot mix materials from other contractor plant (Kailash Builders) C-53: Contractor purchased hot mix materials from other contractor C-69 & Chauhan(Najoon)
		Labour license, safety measures and other welfare measures.	C-13Obtained &Submitted C-56Obtained &Submitted C-52 Obtained &Submitted C-53 Obtained &Submitted
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	C-13: Persuing C-56: Persuing C-52: Submitted C-53: Non Submitted
10	M/s Espan Infratech • C-36 • C-68	Consent to Establish and Operate: i) Hot mix plant (HMP), j) Diesel Generator Sets	C-36: Applied& CTO Will be applied once CTE will obtained C-68: Applied & CTO Will be
		Labour license, safety	applied once CTE will obtained C-36 Applied

S. N.	Project Packages & Contractor Name	Statutory Environmental Requirements	Compliance Status
(5		measures and other welfare measures.	C-68 Applied
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	C-36: Pursuing C-38: Pursuing
11	M/s Shiv Shanker • C-39	Consent to Establish and Operate: k) Hot mix plant (HMP), l) Diesel Generator Sets Labour license, safety measures and other welfare measures.	Submitted , vide letter no, UEPPCB/HO/NOC/3064/2015/230 dated 16-05-2015 & CTO submitted Obtained &Submitted
		Consent for Quarry	Contractor is yet to submit the
		Operations	license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Submitted
12	B S Kumai • C-43	Consent to Establish and Operate: m) Hot mix plant (HMP), n) Diesel Generator Sets	Contractor purchased hot mix materials from other Package C- 58
		Labour license, safety measures and other welfare measures.	C-43 Obtained & Submitted
		Consent for Quarry	Contractor is yet to submit the
		Operations	license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Pursuing
13	M/s Dwarika C-57	Consent to Establish and Operate: o) Hot mix plant (HMP), p) Diesel Generator Sets	Applied & CTO Will be applied once CTE will obtained
		Labour license, safety measures and other welfare measures.	Applied
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Pursuing
14	M/s Sai Construction Builders • C-58	Consent to Establish and Operate: q) Hot mix plant (HMP), r) Diesel Generator Sets	Online applied & CTO Will be applied once CTE will obtained
		Labour license, safetymeasures and other welfare measures.	Obtained & Submitted
4		Consent for Quarry Operations	Contractor is yet to submit the

S. N.	Project Packages & Contractor Name	Statutory Environmental Requirements	Compliance Status
			license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Pursuing
15	M/s Maa Bhagwati • C-59	Consent to Establish and Operate: s) Hot mix plant (HMP), t) Diesel Generator Sets	Obtained & Submitted and Applied for CTO
		Labour license, safety measures and other welfare measures.	Submitted
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Pursuing
16	M/s S.S. Infra • C-67	Consent to Establish and Operate: u) Hot mix plant (HMP), v) Diesel Generator Sets	Applied & CTO Will be applied once CTE will obtained
		Labour license, safety measures and other welfare measures.	Obtained &Submitted
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Pursuing
17	M/s Dwarika Project Ltd. • C-69	Consent to Establish and Operate: w) Hot mix plant (HMP), x) Diesel Generator Sets	Applied & CTO Will be applied once CTE will obtained
		Labour license, safety measures and other welfare measures.	Obtained &Submitted
		Consent for Quarry	Contractor is yet to submit the
		Operations Public safety	license for quarry operation. Limited precautionary measures
		r ublic salety	taken.
		PUC Certificates for contractors vehicles	Not submitted
18	M/s Raja Construction • C-23	Consent to Establish and Operate: y) Hot mix plant (HMP), z) Diesel Generator Sets	Obtained No. 58193 dated 18.12.2014 and CTO applied
		Labour license, safety measures and other welfare measures.	Licence No- 827/D-CL/2015 . 07- 08-2015 to 17-09-2015
		Consent for Quarry	Contractor is yet to submit the
		Operations Public safety	license for quarry operation. Limited precautionary measures
		PUC Certificates for	taken. Submitted

S. N.	Project Packages & Contractor Name	Statutory Environmental Requirements	Compliance Status
		contractors vehicles	
19	M/s Maa Bhagwati Construction • C-24	Consent to Establish and Operate: aa) Hot mix plant (HMP), bb) Diesel Generator Sets	Obtained CTE No.34917 dated 05.4.2016 and CTO applied
		Labour license, safety measures and other welfare measures.	Obtained & Submitted (Licence No. 807/D-CL-/2015)
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Submitted
20	M/s RCC Developers • C-38	Consent to Establish and Operate: cc) Hot mix plant (HMP), dd) Diesel Generator Sets	Applied & CTO Will be applied once CTE will obtained
		Labour license, safety measures and other welfare measures.	Licence No- 802/D-CL/2015 dt. 07-07-2015 to 31-03-2016
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Pursuing
21	M/s Mathiyan Constructions • C-11	Consent to Establish and Operate: ee) Hot mix plant (HMP), ff) Diesel Generator Sets	Not Available
		Labour license, safety measures and other welfare measures.	Not Available
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Not Available
22	M/s Ram Krishna Jayara • C-14	Consent to Establish and Operate: gg) Hot mix plant (HMP), hh) Diesel Generator Sets	Contractor purchased hot mix materials from other contractor C-69
		Labour license, safety measures and other welfare measures.	Licence No-825/D-CL/2015 dated 7-8-2015 to 11-7-2016
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.
		Public safety	Limited precautionary measures taken.
		PUC Certificates for contractors vehicles	Yes, Available
23	M/s S.S. Infratech	Consent to Establish and Operate: ii) Hot mix plant (HMP),	Contractor purchased hot mix materials from other contractor under USRIP (Bharat

S. N.	Project Packages & Contractor Name	Statutory Environmental Requirements	Compliance Status			
	• C-37	jj) Diesel Generator Sets	Construction)			
		Labour license, safety measures and other welfare measures.	Obtained & Submitted			
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.			
		Public safety	Limited precautionary measures taken.			
		PUC Certificates for contractors vehicles	Obtained & Submitted			
24	Mr. R.K. Gupta C-54	Consent to Establish and Operate: kk) Hot mix plant (HMP), ll) Diesel Generator Sets	Recently work Started Bituminous work will be started by April 2016			
		Labour license, safety measures and other welfare measures.	Obtained & Submitted			
		Consent for Quarry Operations	Contractor is yet to submit the license for quarry operation.			
		Public safety	Limited precautionary measures taken.			
		PUC Certificates for Contractors vehicles				

IV. IMPLEMENTATION STATUS OF ENVIRONMENT MEASURES

23. Field activities have been started. Application of EMP will be commenced as per IEE report. The compliance monitoring format for application of mitigation measures against impacts on air, water, soil environment, and social and safety aspects is enclosed in **Annexure 2**. Format for summary compliance status of EMP application and actions/ corrective measures presented in **Table 5** below.

Table 5: Summary Compliance status of Environment Management and Monitoring Plan (30.06.2015)

Package Name of Sub Project	Name of Road	EMP being Implemented (Yes / No)	Overall Status of EMP Implementation(Exce Ilent/ Satisfactory/Partially Satisfactory/Below Satisfaction/Poor/Very Poor)	Actions Proposed or continued/ Additional Corrective Measures Required
	Nandprayag-Ghat Motor Road	Yes	Below Satisfaction	
UEAP/PWD/C-7	Rudraprayag- Pokhari-Karanprayag Road	Yes	Below Satisfaction	
UEAP/PWD/C-8	Chamoli – Kund	Yes	Below Satisfaction	
UEAP/PWD/C-20	Joshimath-Auli under Nagar Palika Joshimath	Yes	Below Satisfaction	
UEAP/PWD/C-21	Narshing Mandir Approach Road	Yes	Below Satisfaction	

Package Name of Sub Project	Name of Road	EMP being implemented (Yes / No)	Overall Status of EMP Implementation(Exce Ilent/ Satisfactory/Partially Satisfactory/Below Satisfaction/Poor/ Very Poor)	Actions Proposed or continued/ Additional Corrective Measures Required
	Joshimath			
	Internal Road of Nagar Panchayat Karanprayag	Yes	Below Satisfaction	
UEAP/PWD/C-32	Rudraprayag- Pokhari-Karanprayag	Yes	Below Satisfaction	
UEAP/PWD/C-33	Tharali Dewal Mundoli	Yes	Below Satisfaction	
UEAP/PWD/C-34	Internal Road of Nagar Palika Gopeshwar	Yes	Below Satisfaction	
UEAP/PWD/C-9	Guptkashi Kalimath Kotma Jaal Chaumasi	Yes	Below Satisfaction	
UEAP/PWD/C-22	Reconstruction of New Bus stand road, Rudrapryag	Yes	Satisfactory	
UEAP/PWD/C-29	Khirshu-Khedakhal- Kandai-Khankra	Yes	Below Satisfaction	
UEAP/PWD/C-30	SonprayagTriyginara yan	Yes	Below Satisfaction	
UEAP/PWD/C-31	Makku Pahunch Marg to Paldwari	Yes	Below Satisfaction	
UEAP/PWD/C-5	Pauri-Khirsu-Srinagar Road	Yes	Satisfactory	
UEAP/PWD/C-35	Buakhal-Pauri- Devprayag-Gaja-Jajal Motor Road	Yes	Below Satisfaction	
UEAP/PWD/C-40	Khanda Sumari Bhugani	Yes	Satisfactory	
UEAP/PWD/C-36	Pratapnagar-Tehri	Yes	Below Satisfaction	
UEAP/PWD/C-39	Gaza-Nakot	Yes	Satisfactory	
UEAP/PWD/C-43	Tehri-Ghansali- Tilwara	Yes	Satisfactory	
LIEADIDADIO ES	Raipur-Kaddukhal Motor Road (Km 1 To 8, Km 14 To 39 & Km 42 To 72)	Yes	Below Satisfaction	
UEAP/PWD/C-56	Suwakholi-Bhawan- Sarot Chapra Nagun Motor Road (Km 1 To 28)	Yes	Below Satisfaction	
	Ghansali Tehri Pratapnagar Motor Road (Km 1 To 21 And K 34 To 40)	Yes	Satisfactory	
UEAP/PWD/C-57	Lambgaon Pratapnagar Motor Road (Km 1 To 23)	Yes	Satisfactory	
	Kodar-Deengaon- Mukhem Motor Road (Km1 To 23)	Yes	Satisfactory	

Package Name of Sub Project	Name of Road	EMP being Implemented (Yes / No)	Overall Status of EMP Implementation(Exce llent/ Satisfactory/Partially Satisfactory/Below Satisfaction/Poor/ Very Poor)	Actions Proposed or continued/ Additional Corrective Measures Required
	Chamiyala- Bhudakedar Motor Road (Km 4 To 9 And Km 12 To 17)	Yes	Below Satisfaction	
UEAP/PWD/C-58	Ghansali-Koti- Akhodi Motor Road (Km 1 To 7, Km 14 To 29, Km 30 To 33 & Km 36 To 52)	Yes	Below Satisfaction	
UEAP/PWD/C-59	Tehri-Hindolakhal- Devprayag Motor Road (Tipri Raoddhar Motor Road Km 1 To 9 & Km 22 To 25)	Yes	Satisfactory	
CEAPIPWDIC-39	Tehri-Hindolakhal- Devprayag Motor Road (Rauddhar- Devprayag Motor Road Km 32 To 42 & Km 48 To 58)	Yes	Satisfactory	
UEAP/PWD/C-67	Tyuni-Chakrata- Mussoorie-Chamba- Tehri-Kirtinagar (Km 17 To 40)	Yes	Below Satisfaction	
UEAP/PWD/C-68	Bhaldiyana- Lambgaon (Km 8 To 23	Yes	Below Satisfaction	
UEAP/PWD/C-69	Nainbag- Ghudakhuri-Andi (Km1 To 6 & 17 To 31)	Yes	Below Satisfaction	
UEAP/PWD/C-23	Tyuni-Chakrata- Mussoorie-Chamba- Kirtinagar	Yes	Satisfactory	
UEAP/PWD/C-24	Kalsi-Bairatkhai	Yes	Satisfactory	
UEAP/PWD/C-38	Ichari-Kwano- Meenus	Yes	Below Satisfaction	
UEAP/PWD/C-11	Naugaon-Purola	Yes Yes	Satisfactory Below Satisfaction	-
	Kalsi-Chakrata Road Kuwa-Kafnaul Rahdi	Yes	Below Satisfaction	
UEAP/PWD/C-14	Motor Road Tyuni-Mori-Purola-	Yes	Below Satisfaction	
UEAP/PWD/C-37	Naugaon			
UEAP/PWD/C-52	Silkyara Bangaon Chapda Saroth (Included Tehri District Part Km 1 To 20 & 80 To 98)	Yes	Satisfactory	
UEAP/PWD/C-53	Badethi Banchora Badrigarh (Included Tehri District Part	Yes	Below Satisfaction	

Package Name of Sub Project	Name of Road	EMP being Implemented (Yes / No)	Overall Status of EMP Implementation(Exce Ilent/ Satisfactory/Partially Satisfactory/Below Satisfaction/Poor/ Very Poor)	Actions Proposed or continued/ Additional Corrective Measures Required
	Km 1 To 16, Km 70 To 80, 95 To 96)			
UEAP/PWD/C-54	Naogaon Paunti Rajgadi (Km 1 To 24)	Yes	Satisfactory	
	Damta Kandari (Km 17 To 22)	Yes	Satisfactory	
UEAP/PWD/C-55	Mori Natwadh Sankari (Km 5 To 26)	Yes	Below Satisfaction	
	Sankari Jakhol (Km 1 To 16.15)	Yes	Below Satisfaction	

V. ENVIRONMENTAL MONITORING AND EVALUATION

- 24. For effective monitoring, selected environmental parameters have been identified as indicators which will be qualitatively and quantitatively measured and compared over a period of time in order to assess/ensure the compliance of EMP. The environmental performance indicators are physical, biological and social characteristics identified as most important in affecting the environment at critical locations all along the subproject locations. The parameters identified as performance indicators are:
 - > Air, noise, soil and water quality
 - > Compliance to EMP
 - > Compliance to local/state/national environmental regulations
- 25. During implementation process, performance monitoring fact sheet is being prepared against each possible environmental impact and attached with the monitoring report. **Annexure 3** shows the Performance Fact Sheet for implementation of EMP.

Base line air and noise quality monitoring has been carried out at working areas as per scope of work. The values of all the air quality parameters, water quality and Noise levels, observed at all the sites, are within the permissible limits. Base line monitoring (Done between Jan-June 2015) presented in **Annexure-2**

26. During construction, monitoring to be carried out by the contractor as per Environment Management and Monitoring Plan. The project roads having physical civil activity were repeatedly advised to submit the construction phase monitoring data. However DSC has received the reports from only sub package i.e. UEAP/PWD/C-22 (Reconstruction of New Bus stand road, Rudrapryag).

VI. MAJOR PROJECT ISSUES AND PROBLEMS ENVIRONMENTAL CONTEXT

27. 20 sub project roads out of 27 have observed physical activity. Till date, no major issues and problems have been encountered with, at the sub project locations, however contractors were suggested to adhere to the environmental management plan specified for the project roads.

VII. CONSULTATIONS AND RECOMMENDATIONS ENVIRONMENTAL CONTEXT

28. For protection of local environment during construction phase, application of mitigation measures will be done as per specified EMP. Pubic consultation during construction/ implementation phase will be planned as per the requirement.

Annexure 4 shows the blank consultation format for recording.

VIII.GRIEVANCE REDRESSAL

- 29. A joint social and environmental redress mechanism will be implemented under the project. Grievances and suggestions from local and affected people may come-up related to inappropriate implementation of the project and components of EMP. The expected range of grievances to be handled through this mechanism will encompass but not limited to the following: i) nuisance from noise, dust, and temporary blocking of access; ii) contamination of receiving water from runoff; iii) emissions from increase vehicular traffic and stationary sources like construction machineries; iv) conflict between local residents and migrant workers; v) ownership of vegetation for clearing; and vi) damage compensation. These issues will be addressed through acknowledgement, evaluation and corrective action and response approach. Grievances from public or stakeholders concerning the project and EMP implementation will be received by the concerned Executive Engineer of UEAP division. The Executive Engineer shall refer the application to Construction Supervision Consultants (DSC) who then assess the grievances/suggestions and if they are found to be genuine and acceptable, will be resolved at division level itself within 15 to 30 days from the date of receipt. In case, the issue is unable to be resolved, the matter will be forwarded to the PMU, UEAP (Head quarter). This mechanism is non-judicial in nature and does not preclude the affected people coursing their grievances to the courts. The corrective action will be started as per the action plan indicated to the stakeholder. The action taken and the outcome shall form a part of quarterly report to ADB.
- 30. Till date no GR committee is set up under UEAP at UJS. Process has been initiated for setting up GR committee and which will be completed shortly.

IX. ISSUES AND ACTION PLAN

- 31. It is important to mention in this context that the final detailed engineering design in each sub project of UEAP have been prepared keeping in mind to avoid or minimize social and environmental impact as far as possible.
- 32. With the development of project the action plan will be considered for timely and satisfactory environmental compliance. Sample suggestion & action plan format is shown in **Table 6.**

Table 6: Suggestion & Action plan considered for satisfactory Environmental Compliance

Sr. No.	Issues	Suggestion and recommendation	Action to be taken by	Time Frame
1	Application of EMP			
2	Health and Safety			
3	Restoration of the construction area			
4	Social relationship and public safety			

Annexure 1: Environment Forest and other Compliance (June 30th 2015)

Package No.	Sub Project Description (Road Name)	EIA Clearance	Forest Clearance	Wild Life Act applicability	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Consent for establishment of crusher from quarry material supplier	Final CTE/CTO	Authorization	Ground Water Permission	PUC	Date of Environmental Monitoring
UEAP/PWD C	Pauri-Khirsu- Srinagar Road	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Submitted	19.11.2014
UEAP/PWD C	Buwakhal-Pauri- Devprayag-Gaja- Jajal	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	20.10.2014
JEAP/PWD C	Kanda-Sumari- Bugani	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	05.12.2014
JEAP/PWD C	Guptkashi Kalimath Kotma Jaal Chaumasi	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	08.10.2014
JEAP/PWD C	Reconstruction of New Bus Stand Road Under Nagar Palika Rudraprayag	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	To be started
JEAP/PWD C	Khirshu-Khedakhal- Kandai-Khankra	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	19.11.2014
JEAP/PWD C	Sonprayag- Triyuginarayan	NR	NR	NR	NR	NR	Taken from Supplie: (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	To be started
JEAP/PWD C	Makku-Paldwari	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Submitted	06.12.2014
UEAP/PWD C	Nandprayag- Ghat	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	29.09.2014
7	Rudraprayag- Pokhari- Karanprayag	NR	NR	NR	NR	NR	Taken from Supplie: (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	03.09.2014
JEAP/PWD C	Chamoli - Kund	NR	- NR	NR	NR	NR	Taken from Supplie. (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	06.10.2014
JEAP/PWD C 20	Joshimath Auli Motor Road Under Nagar Palika Joshimath	NR	NR	NR	NR	NR	Faken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Submitted	12.12.2014
JEAP/PWD C	Narshing Mandir Approach Road Under Nagar Palika Joshimath	NR	NR	NR	NR	NR	Taken from Supplie: (Royalty duly submitted)	Under Process	NA	NR	Submitted	08.12.2014
21	Internal Road of Nagar Panchayat Karanprayag	NR	NR	NR	NR	NR	Taken from Supplier (Royalty dulif submitted)	Under Process	NA	NR	Submitted	10.12.2014
JEAP/PWD C	Rudraprayag- Pokahri-Karnprayag	NR	NR	NR	NR	NR	Taken from Supplie: (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	04.12.2014
JEAP/PWD C	Tharali-Dewal- Mundoli	NR	NR	NR	NR	NR	Taken from Supplier (Royalty dulg submitted)	Under Process	NA	NR	Yet to be submitted	17.10.2014
UEAP/PWD C 34	Reconstruction Of Internal Roads of Nagarpalika Gopeshwar	NR	NR	NR	NR	NR	Faken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	15.06.2015

UEAP/PWD C	Khirsu-Musagali- Damdeval Bughani-Devalgarh- Chamdhar	NR	INR	NR	NR	MR	Taken from Supplier (Royalty duly submitted)	Under Process	NA	NR	Yet to be submitted	0 9 .03.201	
	Pilkhi-Gadoliya Motor Road	NR	NR	NR.	NR	NR	Taken from Supplier (Royalty duly submitted)	Contractor is purchasing material from C 65	NA	NR			
UEAP/PWD C13	Reconstruction Of Inspection House Approach Road Under Nagar Panchayat Devprayag	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)		NA	NR	Persuing	11-07-2015	
UEAP/PWD C36	Pratapnagar-Tehri	NIR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Applied & CTO Will be applied once CTE will obtained	NA	NR	Pursuing	2 0- 11-2015	
UEAP/PWD C39	Gaza-Nakot	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Submitted, vide letter no, UEPPCB/HO/NOC/3064/2015/230 dated 16-05-2015& CTO submitted	NA	NR	Submitted	27-05- 2015	
UEAP/PWD G43	Tehri-Ghansali- Tilwara	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Contractor purchased hot mix materials from other Package C-58	NA	NR	Persuing	23-0 3-2015	
UEAP/PWD	Raipur-Kaddukhal Motor Road (Km 1 To 8, Km 14 To 39 & Km 42 To 72)	NR NR NR NR NR Supplier (Royalty duly submitted)		Applied & CTO Will be applied once CTE will obtained	NA	NR							
C 56	Suwakholi-Bhawan- Sarot Chapra Nagun Motor Road (Km 1 To 28)	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)		NA	NR	Pursuing	11-07-2 015	
	Ghansali Tehri Pratapnagar Motor Road (Km 1 To 21 And K 34 To 40)	MR	NR	NIR	NR	NR	Taken from Supplier (Royalty duly submitted)	Applied & CTO Will be applied once CTE will obtained	NA	NR			
UEAP/PWD C57	Lambgaon Pratapnagar Motor Road (Km 1 To 23)	NIR	NIR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)			- NA	NR	Persuing Pursuing	1 6-1 1-2015
	Kodar-Deengaon- Mukhem Motor Road (Km1 To 23)	NR	NR	MR	NR	NR +	Taken from Supplier (Royalty duly submitted)		NA	NR			
UEAP/PW®	Chamiyala- Bhudakedar Motor Road (Km 4 To 9 And Km 12 To 17)	NR	NR	NIR	NR	NR	Taken from Supplier (Royalty duly submitted)	Online applied & CTO Will be applied once CTE will obtained	NA	NR		Instructions have been	
G58	Ghansali-Koti- Akhodi Motor Road (Km 1 To 7, Km 14 To 29, Km 30 To 33 & Km 36 To 52)	MR	NR	IMR	NR	NR	Taken from Supplier (Royalty duly submitted)		NA	NR	Submitted Persuing	instructions have been issued to contractor, will be done shortly	
UEAP/PWD C59	Tehri-Hindolakhal- Devprayag Motor Road (Tipri Raoddhar Motor Road Km 1 To 9 & Km 22 To 25)	· NIR	NIR	MIR	NR	NIR	Faken from Supplier (Royalty duly submitted)	Obtained & Submitted and Applied for CTO	NA	NR	Pursuing		
and plants in the same of the	Tehri-Hindolakhal- Devprayag Motor Road (Rauddhar- Devprayag Motor Road Km 32 To 42	NR	MR	MR	NR	NIR	Taken from Sยาplier (Royalty duly submitted)		NA	NR			

	& Km 48 To 58)												
UEAP/PWD C67	Tyuni-Chakrata- Mussoorie-Chamba- Tehri-Kirtinagar (Km 17 To 40)	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Applied & CTO Will be applied once CTE will obtained	NA	NR	Persuing	Instructions have been issued to contractor, will be done shortly	
UEAP/PWD C68	Bhaldiyana- Lambgaon (Km 8 To 23	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Applied & CTO Will be applied once CTE will obtained	NA	NR	Not Submitted	17-11-2015	
UEAP/PWD C69	Nainbag- Ghudakhuri-Andi (Km1 To 6 & 17 To	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Applied & CTO Will be applied once CTE will obtained	NA	NR	Not Submitted	Instructions have been issued to contractor, will be done shortly	
UEAP/PWD C23	31) Tyuni-Chakrata- Mussoorie-Chamba- Kirtinagar	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	obtained No. 58193 dated 18.12.2014 and CTO applied	NA	NR	submitted	Instructions have been issued to contractor, will be done shortly	
UEAP/PWD C24	Kalsi-Bairatkhai	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Obtained CTE No.34917 dated 05.4.2016 and CTO applied	NA	NR	Submitted	20-04-2015	
UEAP/PWD C38	Ichari-Kwano- Meenus	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Applied & CTO Will be applied once CTE will obtained	NA	NR	Persuing	Instructions have been issued to contractor, will be done shortly	
UEAP/PWD	Naugaon-Purola	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	N.A	NA	NR	NA NA	N.A	
C11	Kalsi-Chakrata Road	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)		NA	NR			
UEAP/PWD C14	Kuwa-Kafnaul Rahdi Motor Road	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Contractor purchased hot mix materials from other contractor C-69	NA	NR	Yes, available	During Construction(16to22/01/15 & 22to 29/4/2015 & 24/9/15 to 02/10 15)	
UEAP/PWD C37	Tyuni-Mori-Purola- Naugaon	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Contractor purchased hot mix materials from other contractor under USRIP (Bharat Construction)	NA	NR	Obtained & Submitted	22-08-2015	
UEAP/PWD C52	Silkyara Bangaon Chapda Saroth (Included Tehri District Part Km 1 To 20 & 80 To 98)	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Contractor purchased hot mix materials from other contractor plant (Kailash Builders)	NA	NR	Not submitted	During Construction(16- 24/04/15 & 06-16/7/15 & 17-30/10/15)	
UEAP/PWD C53	Badethi Banchora Badrigarh (Included Tehri District Part Km 1 To 16, Km 70 To 80, 95 To 96)	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Contractor purchased hot mix materials from other contractor C- 69 & Chauhan (Najoon)	NA	NR	Not submitted	During Construction(11- 18/07/15 & 17-30/10/15)	
UEAP/PWD	Naogaon Paunti Rajgadi (Km 1 To 24)	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)	Recently work Started Bituminous work will be started by April 2016	NA	NR	Not	During Construction(22-	
C54	Damta Kandari (Km 17 To 22)	NR	NR	NR	NR	NR	Taken from Supplier (Royalty duly submitted)		rom coyalty	NA	NR	submitted	28/09/15

Annexure – 2: Compliance of Application of EMMP- Sample format

Project: R&B -Package No: Progress: Physical progress:

	_		Approximate	Reference	Responsibility		
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring	
PRE-CO	INSTRUCTION STAGE						
P 1	Land Acquisition (If required)	The acquisition of land and private properties shall be carried out in accordance with the RAP and entitlement framework of the Project. UEAP has to ascertain that acquisition of land in the post design phase are addressed and integrated into the EMP and relevant contract documents.	Wherever existing RoW is less than proposed RoW	Right to fair Compensation & Transparency in Land Acquisition, Rehablitation and Resettlement Act, 2013,	PMU/PIU, Revenue Dept, Collaborating Agencies	PMU	
P 2	Clearance of Encroachment/Squatters (change in land use)	Advance notice, as per RAP shall be given to the encroachers and squatters present in the Corridor of Impact, who need to be relocated. All R&R activities shall be undertaken. Entitlements as per UEAP entitlement framework shall be completed before construction starts.	Where compulsory resettlement of people is involved	RAP documents	PIU, PMU and Revenue Authority	PMU	
Р3	Tree Cutting (If required)	Trees shall be removed from the Corridor of Impact before the actual commencement of the work with the permission from the state Forest Department. Cutting shall not start until the implementation of the project in that particular location of cutting is confirmed. Stacking, transport and storage of the	Trees along the subproject road falling within proposed RoW	MoRTH 201.1 and 201.6	Forest Department	DSC and / PMU	

			Approximate	Reference	Responsibility			
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring		
		wood shall be done as per the relevant norms.	At groop					
P 4	Preservation of Trees	All efforts shall be made to preserve trees including evaluation of minor design adjustments/alternatives (as applicable) to save trees. Specific attention shall be given for protecting giant trees, green tunnels and locally important trees (religiously important etc.). Tree cutting is to proceed only after all the legal requirements including attaining of In-principle and Formal Clearances form the Forest Dept./MoEF are completed and subsequently a written order is issued to the Contractor. Particular species declared as "protected" by the State Forest Dept. in the private land shall be felled only after due clearance from the Forest Dept. is obtained. In the event of design changes, additional assessments including the possibility to save trees shall be made. Systematic corridor level documentation for the trees cut and those saved shall be maintained by the UEAP	At green tunnels and trees present at the toe line of the carriage way and trees of valuable species having ecological value.	MoRTH 201.2 and 301.5	Contractor/Agency engaged by PMU	DSC and / PMU		
P 5	Relocation of Community Utilities and Common Property Resources	All community utilities and properties i.e., hand pumps, open wells, water supply lines, sewer lines, telephone cables, buildings and health centers shall not be relocated before construction of subproject road starts.	Throughout the corridor	RAP document	PIU/PMU, other Agencies / Contractor	PMU		
P 6	Relocation of affected Cultural and Religious Properties	All religious property resources such as shrines, temples and mosques within the project road shall be relocated. No such	Throughout the stretch especially	MoRTH 110.7	PIU/ Contractor	DSC/ PMU		

SI No	Environmental Issue		Approximate	Reference	Responsibility		
SI. No.		Mitigation Measures	Approximate location	law/guidelines	Planning and Execution	Supervision/ Monitoring	
		utilities will be relocated If there is any relocation of the religious structures may happen then it shall be identified in accordance with the choice of the community. UEAP in consultation with local people shall finalize those. The entire process (i.e. selection of relocation sites and design) shall be under supervision of Environmental Specialist of DSC, during the construction stage by the Contractor. The relocation shall be completed before the construction starts in these sites.	nearby settlements				
Pre-cor	struction activities by the Cor	ntractor/Environmental Specialist of DSC				,	
P 7		Field Verification and Modification of the		nents			
P.7.1	Joint Field Verification	The Environmental Specialist of DSC and the Contractor shall carry out joint field verification to ascertain any possibilities of saving trees, environmental and community resources, and these activities are to be taken up by the construction contractor.	Throughout the stretch of subproject	MoRTH 201.2	Contractor/ Environmental Specialist of DSC	PMU	
P.7.2	Assessment of Impacts due to Changes/Revisions/additions in the Project Work	The Environmental Specialist of DSC shall assess impacts and revise/modify the EMP and other required sections of the project document/s in the event of changes/revisions (including addition or deletion) in the project's scope of work.	Where ever changes are applicable		Contractor/ Environmental Specialist of DSC	PMU	
P.7.3	Crushers, Hot-mix plants and Batching Plants Location	All construction plants shall be sited sufficiently away from settlements and agricultural operations or any commercial establishments. Such plants shall be located at least 1000 m away from the nearest dwelling preferably in the downwind direction.	At all Crushers, Hot- mix plants and Batching Plants opened up for the construction of	MoRTH 111.1, Air (prevention of control of pollution) Act, 1981and Noise Rules	Contractor/ Environmental Specialist of DSC	PMU	

	Environmental Issue		Approximate location	Reference law/guidelines	Responsibility	
SI. No.		Mitigation Measures			Planning and Execution	Supervision/ Monitoring
		The Contractor shall submit a detailed layout plan for all such sites and approval of Environmental Specialist of DSC shall be necessary prior to the establishment. Arrangements to control dust pollution through provision of windscreens, water sprinklers, and dust extraction systems shall have to be provided at all such sites. Specifications for crushers, hot mix plants and batching plants shall comply with the requirements of the relevant emission control legislations. Consent for the Establishment and Operation from UEPPCB shall be obtained before establishment and operation respectively and a copy should be submitted to the DSC and UEAP. Wherever there is extremely water scarcity areas exist the Water sprinkling shall be limited to one time in the morning. To balance this deficient information boards shall be erected at appropriate locations with a message to "Dust prone area take precautions."	subproject			
P.7.4	Other Construction Vehicles, Equipment and Machinery	All vehicles, equipment and machinery to be procured for construction shall confirm to the relevant Bureau of India Standard (BIS) norms. The discharge standards promulgated under the Environment Protection Act, 1986 and Motor Vehicles Act, 1988 shall be strictly adhered to. The silent/quiet equipment available in the market shall be used in the Project. The Contractor shall maintain a record of PUC for all vehicles and machinery used during the contract period which shall be	Applicable to all vehicles used in the construction	Air pollution Control Act, and Noise Rules and Motor Vehicle Act, 1988	Contractor/ Environmental Specialist of DSC	PMU

SI. No.	Environmental Issue	Mitigation Measures	Approximate location	Reference law/guidelines	Responsibility	
					Planning and Execution	Supervision/ Monitoring
		produced to EO, UEAP verification whenever required.				
P 8		Identification and Selection of Material S	ources			
P.8.1	Borrow Areas	Finalising soil borrowing earth and all logistic arrangements as well as compliance to environmental requirements, as applicable, shall be the sole responsibility of the Contractor. The Contractor shall not start borrowing earth from selected borrow area until the formal agreement is signed between landowner and Contractor and a copy is submitted to the DSC. Locations finalized by the Contractor shall be reported to the Environmental Specialist of DSC and he shall submit the report to UEAP. Planning of haul roads for accessing borrows areas shall be undertaken during this stage. The haul roads shall be routed to avoid agricultural areas as far as possible and shall use the existing village roads wherever available. The environmental personnel of the DSC shall be required to inspect every borrow area location prior to approval. The DSC should include the Request for Inspection form for borrow area approval from the environmental point of view.	Borrow sites	IRC Guidelines on borrow areas and quarries; EPA 1986 and MoRTH 111.2 and 305.2.2	Contractor/ Environmental Specialist of DSC	PMU
P.8.2	Quarry	Contractor shall finalize the quarry for procurement of construction materials after assessment of the availability of sufficient quantity of materials, quality and other logistic arrangements. In case the Contractor decides to use	Quarry sites	MoRTH 111.3	Contractor	Environmenta Specialist of DSC

			Approximate	Reference law/guidelines	Responsibility	
SI. No.	Environmental Issue	Mitigation Measures	location		Planning and Execution	Supervision/ Monitoring
		quarries other than recommended by DPR consultant, then the Contractor should give substantiation. Contractor shall also work out haul road network and report to Environmental Specialist of DSC and DSC shall inspect and in turn report to UEAP before approval.				
P.8.3	Arrangement for Construction Water	In view of the special situation in Uttarakhand, Contractor shall prepare and implement the approved Water Management Plan in accordance with the Appendix-11, and BOQ Environment mitigation works The contractor shall use ground/surface water as a source of water for the construction and may set up own bore well facility for construction work. Contractor may take surface water from the Irrigation Canal with the written consent from the Irrigation Department. To avoid disruption/disturbance to other water users, the Contractor shall extract water from fixed locations and consult Environmental Specialist of DSC before finalizing the locations. The Contractor shall provide a list of locations and type of sources from where water for construction shall be extracted. The Contractor shall need to comply with the requirements of the State Ground Water Department for the extraction and seek their approval for doing so and submit copies of the permission to DSC and UEAP.	Throughout the subproject	As per the contract document and Clause No. 1010 EPA, 1986	Contractor	Environmenta Specialist of DSC

	Environmental Issue	Mitigation Measures	Approximate	Reference law/guidelines	Responsibility	
SI. No.			location		Planning and Execution	Supervision/ Monitoring
P 9	Sand	The Sand shall be procured from identified statutorily approved sand mines as far as possible. The Contractor shall obtain copy of the Lease Agreement of the supplier and submit to DSC before procuring the sand.	Sand quarries being used for the construction	As per the contract document4	All riverbeds recommended for sand extraction for the project.	
P 10	Labour Requirements	The Contractor shall preferably use unskilled labour drawn from local communities to give maximum benefits to the local community.		As per the Contract Document	Contractor	Environmental Specialist of DSC
P 11	Construction Camp Locations – Selection, Design and Layout	Siting of the construction camps shall be as per the guidelines below and details of layout to be approved by DSC Resident Engineer and environment specialist. Construction camps shall not be proposed within 1000 m from the nearest settlements to avoid conflicts and stress over the infrastructure facilities with the local community. Location for stockyards for construction materials shall be identified at least 300m away from watercourses. The Sewage Treatment Plant and solid waste treatment for the camp shall be designed, built and operated. Contractor's camps shall be identified at least 2km away from the Forest Reserves.	Construction camps	As per IRC guidelines and contract documents.	Contractor	Environmental Specialist of DSC
P 12	Arrangements for Temporary Land Requirement	The Contractor as per prevalent rules shall carry out negotiations with the landowners for obtaining their consent for temporary use of lands for construction camp/construction/borrow areas etc. Temporary land arrangements shall not be from the forest reserves except under	camps and borrow areas	MoRTH 108.3	Contractor	Environmental Specialist of DSC

SI. No.	Environmental Issue	Mitigation Measures	Approximate location	Reference law/guidelines	Responsibility	
					Planning and Execution	Supervision/ Monitoring
		special permission circumstances where it is un avoidable due to the vast forest reserves in the PIA.				
P 13	Orientation of Implementing Agency and Contractors	The UEAP shall organize Orientation Sessions and regular training sessions at all stages of the project. This shall include on-site training (general as well as in the specific context of a sub-project). These sessions shall involve all staff of UEAP involved in the implementation of EMP, Environmental Specialists of DSC and Contractors.	Throughout the implementation period.	EMP and other training plan developed by UEAP	Contractor/ DSC and UEAP	PMU
	CONSTRUCTION STAGE					
	Activities to be Carried Out					
C 1		Site Clearance				
C.1.1	Clearing and Grubbing	If required vegetation shall be removed from the construction zone before commencement of construction. All works shall be carried out such that the damage or disruption of flora other than those identified for cutting is minimum. Only ground cover/shrubs that impinge directly on the permanent works or necessary temporary works shall be removed with prior approval from the Environmental Expert of DSC. The Contractor, under any circumstances shall not cut or damage trees and forest reserves. Trees identified under the project shall be cut only after receiving clearance from the Forest Dept./DoEF/MoEF (as applicable) and after the receipt of UEAP's written permission in this regard. Vegetation only with girth size of over 30	Throughout the corridor	MoRTH 201	Contractor	Environmental Specialist of DSC, PMU

	Environmental Issue	Mitigation Measures	Approximate location	Reference law/guidelines	Responsibility	
SI. No.					Planning and Execution	Supervision/ Monitoring
		cm shall be considered as trees and shall be compensated, in the event of UEAP's instruction to undertake tree cutting.				
C.1.2	Disposal of Debris from dismantling structures and road surface	Appendix-1 & 4 provides guidelines for the preparation of the contractors Debris disposal plan. This is mainly to deal with surplus debris materials that would be available after adjusting for all insitu applications. Other debris generated due to dismantling of the existing road shall be suitably reused in the proposed construction zone, subjected to the structure suitability of the materials and approval of the Resident Engineer and Environmental Expert of DSC as follows: For filling and leveling of School grounds and proposed parking areas. The sub grade of the existing pavement shall be used as embankment fill material. Existing base and sub-base material shall be recycled as sub-base of the haul road or access roads. The existing bitumen surface may be utilized for the paving of cross roads, access roads and paving works in construction sites and campus, temporary traffic diversions, haulage routes etc. The Contractor shall suitably dispose off unutilized debris materials either through filling up of borrows areas located in wasteland or at pre-designated disposal locations, subject to the approval of the Environmental Expert of DSC. At locations identified for disposal of	All debris disposal sites	MoRTH 202	Contractor	Environmental Specialist and Resident Engineer of DSC, EC, PMU

	Environmental Issue	Mitigation Measures	Approvimate	Reference	Responsibility	
SI. No.			Approximate location	law/guidelines	Planning and Execution	Supervision/ Monitoring
		bituminous wastes, the disposal shall be carried out over a 30 mm thick layer of rammed clay so as to eliminate the possibility of scarified percolation of leachate into the ground water. The Contractor shall ensure that the surface area of such disposal pits is covered with a layer of soil and subsequent turfing. All arrangements for transportation during construction including provision, maintenance, dismantling and clearing debris, shall be considered incidental to the work and shall be planned and implemented by the Contractor as approved and directed by the Environmental Expert of DSC. The pre-designed disposal locations shall be a part of Waste Disposal Plan in consultation and with approval of Environmental Expert of DSC. Debris generated from pile driving or other construction activities shall be disposed such that it does not flow into the surface water bodies or for mud puddles in the area. The Contractor shall identify dumping sites as per the Debris Disposal Plan prepared using the Guidelines provided in the Appendix 1; The identified locations shall be reported to the Environmental Expert of DSC. These locations shall be checked on site and accordingly approved by Environmental Expert of DSC prior to any disposal of waste			Execution	Monitoring
C.1.3	Other Construction Wastes	materials. The pre-identified disposal location shall	All wests	MoRTH: 202.5	Contractor	Environmenta

	Environmental Issue	Mitigation Measures	Approvimete	Reference	Responsibility		
SI. No.			Approximate location	law/guidelines	Planning and Execution	Supervision/ Monitoring	
	Disposal	be part of Comprehensive Waste Disposal Plan Solid Waste Management Plan to be prepared by the Contractor in consultation and with approval of Environmental Specialist of DSC. Location of disposal sites shall be finalized prior to initiation of the works on any particular section of the road. The Environmental Specialist of DSC shall approve these disposal sites after conducting a joint inspection on the site with the Contractor. Contractor shall ensure that any spoils or material unsuitable for embankment fill shall not be disposed off near any water course or agricultural land, Orchards and Natural Habitats like Grasslands. Such spoils from excavation can be used to reclaim borrow pits and low-lying areas located in barren lands along the project road (if it so desired by the owner/community and approved by the Environmental Specialist, DSC). Non-bituminous wastes shall be dumped in borrow pits covered with a layer of 30cm soil to ensure that borrow pit is restored to original use. No new disposal site shall be created as part of the project, except with prior approval of the Environmental Specialist of DSC. All waste materials shall be completely disposed and the site shall be completely cleaned and certified by Environmental Specialist of DSC before handing over. The Contractor at his cost shall resolve any claim, arising out of waste disposal or	disposal sites	MoRTH: 301.11		Specialist of DSC, PMU	

	Environmental Issue	Mitigation Measures	Approximate	Reference	Responsibility	
SI. No.			location	law/guidelines	Planning and Execution	Supervision/ Monitoring
		any non-compliance that may arise on account of lack of action on his part. The topsoil from all areas of cutting and all areas to be permanently covered shall be stripped off to a specified depth of 150 mm and stored in stockpiles. A portion of	At all construction material storage areas		LAGGUION	Monitoring
C.1.4	Stripping, stocking and preservation of top soil	the temporarily acquired area and/or Right of Way shall be earmarked for storing topsoil. The locations for stock piling shall be pre-identified in consultation and with approval of Environmental Specialist of DSC. The following precautionary measures shall be taken to preserve them till they are used: (a) Stockpile shall be designed such that the slope does not exceed 1:2 (Vertical to horizontal), and height of the pile is restricted to 2 m. To retain soil and to allow percolation of water, silt fencing shall protect the edges of the pile. (b) Stockpiles shall not be surcharged or otherwise loaded and multiple handling shall be kept to a minimum to ensure that no compaction shall occur. The stockpiles shall be covered with gunny bags or vegetation. (c) It shall be ensured by the Contractor that the topsoil shall not be unnecessarily trafficked either before stripping or when in stockpiles. Such stockpiled topsoil shall be utilized for — Covering all disturbed areas		MoRTH: 301.3.2 MoRTH: 301.7 MoRTH: 305.3.3 and MoRTH: 305.3.9	Contractor	Environmental Specialist of DSC, PMU

	Environmental Issue	Mitigation Measures	Approximate	Reference law/guidelines	Responsibility	
SI. No.			location		Planning and Execution	Supervision/ Monitoring
		including borrow areas, only in case where they are to be rehabilitated. > Dressing of slopes of road embankment/agricultural fields of farmers acquired temporarily land.				
C.1.5	Accessibility	The Contractor shall provide safe and convenient passage for vehicles, pedestrians and livestock to and from roadsides and property access connecting the project road, providing temporary connecting road. The Contractor shall also ensure that the existing accesses shall not be undertaken without providing adequate provisions. The Contractor shall take care that the cross roads are constructed in such a sequence that construction work on the adjacent cross roads are taken up one after one so that traffic movement in any given area not get affected much.	Throughout the project corridor		Contractor	Environmental Specialist of DSC, PMU
C.1.6	Planning for traffic diversions and detours	Temporary diversions shall be constructed with the approval of the Resident Engineer and Environmental Specialist of DSC. Detailed Traffic Control Plans shall be prepared by the Contractor and approved by Environmental Specialist and Resident Engineer of DSC seven days prior to commencement of works on any section of road. The Traffic Control Plans shall contain details of temporary diversions, traffic safety arrangements for construction under traffic, details of traffic arrangement after cessation of work each day, safety	Throughout the project corridor especially at intersections and settlements and schools	MoRTH: 112 and its Amendments	Contractor	Environmental Specialist and Resident Engineer of DSC, EO, PMU

	Environmental Issue	Mitigation Measures	Approximate	Reference law/guidelines	Responsibility	
SI. No.			location		Planning and Execution	Supervision/ Monitoring
		measures for night time traffic and precaution for transportation of hazardous materials and arrangement of flagmen. The contractor shall ensure that the diversion/detour is always maintained in running condition, particularly during the monsoon to avoid disruption to traffic flow. The Contractor shall also inform local community of changes to traffic routes, conditions and pedestrian access arrangements with assistance from DSC and UEAP. The temporary traffic detours shall be kept free of dust by sprinkling of water three times a day and as required under specific conditions (depending on weather conditions, construction in the				
0.0		settlement areas and volume of traffic).				
C.2		Procurement of Construction Material	A 11 2			-
C.2.1	Earth from Borrow Areas for Construction	No borrow area shall be opened without permission of the Environmental Specialist of DSC. The location, shape and size of the designated borrow areas shall be as approved by the Environmental Specialist of DSC and in accordance to the IRC recommended practice for borrow pits for road embankments (IRC: 10: 1961). The borrowing operations shall be carried out as specified in the guidelines for siting and operation of borrow areas. The unpaved surfaces used for the haulage of borrow materials, if passing through the settlement areas or	All borrow areas	MoRTH: 305.2	Contractor	Environmental Specialist of DSC, PMU

	Environmental Issue	Mitigation Measures	Approximate location	Reference law/guidelines	Responsibility	
SI. No.					Planning and Execution	Supervision/ Monitoring
		habitations; shall be maintained dust free by the Contractor. Sprinkling of water shall be carried out twice a day to control dust along such roads during their period of use. During dry seasons (winter and summer) frequency of water sprinkling shall be increased in the settlement areas and Environmental Specialist of DSC shall decide the sprinkling time depending on the local requirements. Contractor shall rehabilitate the borrow areas as soon as borrowing of soil is over from a particular borrow area in accordance with the approved Borrow Area Redevelopment Plan.				
C.2.2	Quarry Operations Crushers	The Contractor shall obtain materials from quarries only after consent of the Department of Mines and Geology and District Administration. In view of special situation of excavation of the hill ward side, Contractor shall get an opportunity to use the same material for road construction. This shall require establishment of a number of crushers along the roadsides. The crushers and all related activities shall be under taken as per the Policy guidelines for installation of stone Crushers.	At quarries and Crushing units.	MoRTH: 111.3	Contractor	Environmental Specialist of DSC, PMU
C.2.3	Blasting	Except as may be provided in the contract or ordered or authorized by the Engineer, the Contractor shall not use explosives. Where the use of explosives is so provided or ordered or authorized, the	Quarry sites	Sub-Clauses of MoRTH 302,4 301.9 (i) 304.5	Contractor	Environmenta Specialist of DSC, PMU

SI. No.	Environmental Issue	Mitigation Measures	Approximate location	Reference law/guidelines	Responsibility	
					Planning and Execution	Supervision/ Monitoring
		Contractor shall comply with the requirements of the following Sub-Clauses of MoRTH 302 besides the law of the land as applicable. The Contractor shall at all times take every possible precaution and shall comply with appropriate laws and regulations relating to the importation, handling, transportation, storage and use of explosives. The contractor shall at all times when engaged in blasting operations, post sufficient warning flagmen, to the full satisfaction of the Engineer. The Contractor shall at all times make full liaison with and inform well in advance and obtain such permission as is required from all Government Authorities, public bodies and private parties whomsoever concerned or affected or likely to be concerned or affected by blasting operations. Blasting shall be carried out only with permission of the Engineer. All the statutory laws, regulations, rules etc., pertaining to acquisition, transport, storage, handling and use of explosives shall be strictly followed. Blasting shall be carried out during fixed hours (preferably during mid-day) or as permitted by the Engineer. The timing should be made known to all the people within 1000m (200m for pre-splitting) from			LACOGGOTI	
C.2.4	Transporting Construction Materials and Haul Road	the blasting site in all directions. Contractor shall maintain all roads (existing or built for the project), which are		As per IRC guidelines and	Contractor	Environmenta Specialist of

			Approximate	Reference	Respons	
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring
	Management	used for transporting construction materials, equipment and machineries as précised. All vehicles delivering fine materials to the site shall be covered to avoid spillage of materials. All existing roads used by vehicles of the Contractor or any of his subcontractor or suppliers of materials and similarly roads, which are part of the works, shall be kept clear of all dust/mud or other extraneous materials dropped by such vehicles. Contractor shall arrange for regular water sprinkling as necessary for dust suppression of all such roads and surfaces.		contract documents		DSC, PMU
C.2.5	Construction Water	Contractor need to implement the finally approved contractors Construction Water Management Plan as per the guidelines provided in Appendix 11. This is linked to the contractor's work plan. Contractor shall arrange adequate supply and storage of water for the whole construction period at his own cost. The contractor shall submit a list of source/s from where water shall be used for the project to DSC and UEAP. The Contractor shall source the requirement of water preferentially by conjunctive use of Surface water and groundwater but with prior permission from the Groundwater Authority. A copy of the permission shall be submitted to DSC and UEAP prior to initiation of construction. The Contractor shall take all precaution to minimize the wastage of water in the	project corridor	Environmental. Protection Act 1986 and MoRTH Spec. for Roads and Bridges	Contractor	Environmental Specialist of DSC, PMU

SI. No.	Environmental Issue	eration.				Approximate location
C.3		Construction Work				
		While working across or close to any perennial water bodies, Contractor shall not obstruct/prevent the flow of water.	Near major cross drainage structures			
C.3.1	River training and disruption to other users of water	Construction over and close to the non- perennial streams shall be undertaken in the dry season. If construction work is expected to disrupt users of community water bodies, notice shall be served well in advance to the affected community.	(River crossings)	MoRTH:304.3.2	C	Contractor
C.3.2	Drainage and flood control	Contractor shall ensure that no construction materials like earth, stone, or appendage disposed off in a manner that block the flow of water of any water course and cross drainage channels. Contractor shall take all necessary measures to prevent any blockage to the water flow. In addition to the design requirements, the Contractor shall take all required measures as directed by the Environmental Specialist of DSC to prevent temporary or permanent flooding	Construction sites of cross drainage structures	MoRTH:305.3.7 MoRTH:306	Q	Contractor
C.3.3	Siltation of water bodies and degradation of water quality	The Contractor shall not excavate beds of any stream/canals/any other water body for borrowing earth for embankment construction. Contractor shall construct silt fencing at the base of the embankment construction for the entire perimeter of any water body (including springs and wells) adjacent to the project road and around the stockpiles at the construction sites including ancillary sites close to water	Construction sites of cross drainage structures	MoRTH:06	0	Contractor

SI. No.	Environmental Issue	<u> </u>
		bodies. The fencing shall be provided prior to commencement of earthwork and continue till the stabilization of the embankment slopes, on the particular sub-section of the road. Contractor shall ensure that construction materials containing fine particles are stored in an enclosure such that sediment-laden water does not drain into nearby watercourse. All temporary sedimentation control works
		nearby watercourse.
		and maintenance thereof shall be
		deemed as incidental to the earth work or other items of work and as such no
		separate payment shall be made
		Contractor shall ensure
		spects:
		After construction of road embankment, the side slopes shall be
		covered with grass and shrubs (refer
	Slope protection and control	specifications.
C.3.4	of soil erosion	> Turfing works shall be taken up as
		soon as possible provided the season
		grass sods. Other measures of slope
		stabilization shall include mulching
		netting and seeding of batters and drains immediately on completion of
		In borrow pits, the depth shall be so regulated that the sides of the
		excavation shall have a slope no
		steeper than 1 vertical to 2 horizontal,

C.4.1.2	-7	C.4.1		SI. No.	
Water Pollution from Fuel and Lubricants	Water Pollution from Construction Wastes			Environmental Issue	
The Contractor shall ensure that all construction vehicle parking locations, fuel/lubricants storage sites, vehicle, machinery and equipment maintenance and refueling sites shall be located at least 500 m away from rivers and irrigation canal/ponds. The Contractor shall submit all locations and layout plans of such sites prior to their establishment and shall be approved by the Environmental Specialist of DSC. Contractor shall ensure that all vehicle/machinery and equipment operation, maintenance and refueling shall be carried out in such a manner that spillage of fuels and lubricants does not contaminate the ground. Wastewater	The Contractor shall take all precautionary measures to prevent entering of wastewater into streams, water bodies or the irrigation system during construction. Contractor shall avoid construction works close to the streams or water bodies during monsoon. Contractor shall not wash his vehicles in river water and shall not enter riverbed for that purpose.	Water Pollution	the bank. > Along sections abutting water bodies, pitching as per design specification shall protect slopes.	Mitigation Measures	
At all surface water bodies intercepting with the project corridor; refueling stations and construction camps	At all surface water bodies intercepting with the project corridor			Approximate location	
MoRTH: 111.4 MoRTH: 111.1 (Oil Interceptors) Petroleum Act and Rules MoEF/CPCB Notifications	MoRTH: 111.4 MoRTH: 111.1			Reference law/guidelines	
Contractor	Contractor			Responsibility Planning and Sup Execution Mo	
Environmental Specialist of DSC, PMU	Environmental Specialist of DSC, PMU			Supervision/ Monitoring	

	C.4.2 Air P		SI. No.
Dust Pollution	Air Pollution		Environmental Issue
The Contractor shall take every precaution to reduce the level of dust from construction plants, construction sites involving earthwork by sprinkling of water, encapsulation of dust source. Due to the acute water scarcity in certain areas, Contractor should limit water sprinkling once in the early morning hours. Contractor should erect warning boards on dust nuisance to the road users. The Contractor shall procure the construction plants and machinery, which		areas shall be treated in an oil interceptor before discharging it on land or into surface water bodies or into other treatment system. In all, fuel storage and refueling areas, if located on agricultural land or areas supporting vegetation, the topsoil shall be stripped, stockpiled and returned after cessation of such storage. Contractor shall arrange for collection, storing and disposal of oily wastes to the pre-identified disposal sites (list to be submitted to DSC and UEAP) and approved by the Environmental Specialist of DSC. All spills and collected petroleum wastes shall be disposed off in accordance with Petroleum Rules and PCB guidelines.	Mitigation Measures
Construction sites and construction establishment such as batching plants, hot mix plants			Approximate location
MoRTH:111.1 MoRTH:111.5 MoRTH:111.9 MoRTH:111.10 Contract Agreement			Reference law/guidelines
Contractor			Responsibility Planning and Sup Execution Mo
Environmental Specialist of DSC, EO, PMU through Engineer			Supervision/ Monitoring

			Approximate	Reference	Respons	sibility
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring
		The concentration of suspended particulate matter at a distance of 40m from a construction plant located in a cluster of industries should be less than 500 µg. The environmental monitoring is to be conducted as per the monitoring plan. Alternatively, only crushers licensed by the UEPPCB shall be used. The Environmental Specialist, EO and UEAP through the Engineer shall submit required certificates and consents.				
C.4.2.2	Emission from Construction Vehicles, Equipment and Machineries	Contractor shall ensure that all vehicles, equipment and machinery used for construction are regularly maintained and confirm that pollution emission levels comply with the relevant statutory requirements of CPCB and/Motor Vehicles Rules. The Contractor shall submit PUC certificates for all vehicles/equipment/machinery used for the Project.	The Air (prevention and control of pollution) Act, 1981 and EPA, 1986	Annexure 'A' to MoRTH 501	Contractor	Environmental Specialist of DSC, PMU
C.4.3		Noise Pollution	7	V		
C.4.3.1	Noise Pollution: Noise from Vehicles, Plants and Equipments	The Contractor shall confirm the following: > All Construction plants and equipment used in construction shall strictly conform to the MoEF/CPCB noise standards. > All Vehicles and equipment used in construction shall be fitted with exhaust silencers. > Servicing of all construction vehicles and machinery shall be done	Trhough out the project corridor and other construction establishments	The noise pollution (regulation and control) rules, 2000	Contractor	Environmental Specialist of DSC, PMU

			Approximate	Reference	Respons	sibility
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision Monitoring
		regularly and during routine servicing				
		operations, the effectiveness of				
		exhaust silencers shall be checked				
		and if found defective shall be				
		replaced.				
1		> The equipment available in the				
		market should be procured, if the				
		Contractor plans to purchase new				
		equipment. For the old equipment,				
		necessary or possible alterations				
- 1		must be carried out to reduce the				
		noise levels to the possible extent.				
		Maintenance of vehicles, equipment				
		and machinery shall be regular and up to the satisfaction of the				
		Environmental Specialist of DSC to				
		keep noise levels at the minimum.				
		At the construction sites within 150 m of				
		the nearest habitation, noisy construction				
		work such as crushing, operation of DG				
		sets, use of high noise generation				
		equipment shall be stopped during the				
		night time between 10.00 pm to 6.00 am.				
		Working hours of the construction				
		activities shall be restricted around				
		educational institutions/Health Centers				1
		(silent zones) up to a distance of 100 m				Y .
		from the sensitive receptors i.e., School,				
		Health Centers and Hospitals etc.				
		Contractor shall provide noise barriers to				
		the suggested locations of select				
		Schools.				
		Noise monitoring shall be carried out at				
		the locations specified in monitoring plan				1
		by the UEAP and the Engineer through				
		the approved monitoring agency.				

			Approximate	Reference	Responsibility		
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring	
C.5		Safety					
C.5.1	Personnel Safety Measures for Labour	Contractor shall provide: Protective footwear, protective goggles and nose masks to the workers employed in asphalt works, concrete works, crusher etc. Welder's protective eye-shields to workers who are engaged in welding works Earplugs to workers exposed to loud noise, and workers working in crushing or compaction The Contractor shall comply with all regulations regarding safe scaffolding, ladders, working platforms, gangway, stairwells, excavations, trenches and safe means of entry and egress. The Contractor shall comply with all the precautions as required for ensuring the safety of the workmen as per the International Labour Organization (ILO) Convention No. 62 as far as those are applicable to this contract. The Contractor shall make sure that during the construction work all relevant provisions of Building and other Construction Workers (regulation of Employment and Conditions of Services) Act, 1996 are adhered to. The Contractor shall not employ any person below the age of 14 years for any work and no woman shall be employed on the work of painting with products containing lead in any form The Contractor shall also ensure that	Throughout the project corridor and construction phase of the project	Building and other Construction Workers (regulation of Employment and Conditions of Services) Act, 1996;	Contractor	Environmenta Specialist of DSC, PMU	

			Approximate	Reference	Respons	sibility
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring
		paint containing lead or lead products is used except in the form of paste or readymade paint.				
C.5.2	Traffic and Safety	The Contractor shall take all necessary measures for the safety of traffic during construction and provide erect and maintain such barricades, including signs, markings, flags, lights and flagmen as proposed in the Traffic Control Plan/Drawings and as required by the Environmental Expert of DSC for the information and protection on traffic approaching or passing through the section of any existing cross roads. The Contractor shall ensure that all signs, barricades, pavement markings are provided as per the MoRTH specifications. Before taking up of construction on any section of the existing lanes of the highway, a Traffic Control Plan shall be devised and implemented to the satisfaction of the Environmental Expert of DSC.	Throughout the project corridor especially at intersections and settlements	MoRTH: 112.4 MoRTH: 112.1 IRC: SP:55	Contractor	Environmental Specialist of DSC, PMU
C.5.3	Risk from electrical equipments	The Contractor shall take all required precautions to prevent danger from electrical equipment and ensure that − ➤ No material shall be so stacked or placed as to cause danger or inconvenience to any person or the public. ➤ All necessary fencing and lights shall be provided to protect the public in construction zones. All machines to be used in the construction shall conform to the relevant	Construction sites and storage areas	The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act, 1996 and Factories Act, 1948	Contractor	Environmental Expert of SC, PIU

			Approximate	Reference	Responsibility		
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring	
		Indian Standards (IS) codes, shall be free from patent defect, shall be kept in good working order, shall be regularly inspected and properly maintained as per IS provision and to the satisfaction of the Environmental Expert of DSC.					
C.5.4	Risk force measure	Contractor shall take all reasonable precautions to prevent danger to the workers and public from fire, flood etc. resulting due to construction activities. Contractor shall make required arrangements so that in case of any mishap all necessary steps can be taken for prompt first aid treatment. Construction Safety Plan prepared by the Contractor shall identify necessary actions in the event of an emergency.	Throughout the construction phase	Contract Agreement and Annexure 'A' to MoRTH Clause 501	Contractor	Environmental Specialist of DSC, PMU	
C.5.6	First Aid	The Contractor shall arrange for — A readily available first aid unit including an adequate supply of sterilized dressing materials and appliances as per the Factories Rules in every work zone. Availability of suitable transport at all times to take injured or sick person(s) to the nearest hospital. Equipment and trained nursing staff at construction camp.		The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act, 1996	Contractor	Environmental Specialist of DSC, PMU	
C.5.7	Informatory Signs and Hoardings	The Contractor shall provide, erect and maintain informatory/safety signs, hoardings written in English and local language, wherever required or as suggested by the Environmental Specialist of DSC.	sites and construction establishments	MoRTH:801 MoRTH:802	Contractor	Environmental Specialist of DSC, PMU	
C.6		Flora and Fauna: Plantation/Preservation					
C.6.1	Road side Plantation	The Contractor shall do turfing on	Throughout the	As per the	Contractor	Environmental	

			Approximate	Reference	Responsi	sibility
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring
	Strategy	embankment slopes, plantation of shrubs as specified in the Contract. The compensatory plantation shall be carried out by the State Forest Department. Minimum 80 percent survival rate of the saplings shall be acceptable otherwise the Contractor/Forest Department shall replace dead plants at his own cost. The Environmental Specialist of DSC shall inspect regularly the survival rate of the trees planted by the Contractor in accordance with the plantation strategy suggested.	length of project corridor	contract document and MoRTH 301.3.3		Specialist of DSC, PMU
C.6.2	Flora and chance found Fauna	The Contractor shall take reasonable precaution to prevent his workmen or any other persons from removing and damaging any flora (plant/vegetation) and fauna (animal) including fishing in any water body and hunting of any animal. If any animal is found near the construction site at any point of time, the contractor shall immediately upon discovery thereof acquaint in the Environmental Specialist of DSC and carry out his instructions for dealing with the same. Environmental Specialist of DSC shall report to the nearby forest office (range office or divisional office) and shall take appropriate steps/measures, if required in consultation with the forest officials.	Throughout project corridor especially near forest stretches including surface water bodies		Contractor	Environmental Specialist of DSC, PMU
C.6.3	Chance Found Archaeological Property	All fossils, coins, articles of value of antiquity, structures and other remains of archaeological interest discovered on the site shall be the property of the	Throughout project corridor	The Ancient Monuments and Archaeological	Contractor	Environmental Specialist of DSC, PMU

			Approximate	Reference	Respons	
Si. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring
		Government and shall be dealt with as per provisions of the relevant legislation. The Contractor shall take reasonable precautions to prevent his workmen or any other persons from removing and damaging any such article or thing. He shall, immediately upon discovery thereof and before removal acquaint the Environmental Specialist of DSC of such discovery and carry out the DSC's instructions for dealing with the same, waiting which all work shall be stopped. The DSC shall seek direction from the Archaeological Survey of India (ASI) before instructing the Contractor to recommence the work in the site. The Archaeological structures identified along the road sides should be protected/preserved or enhanced as per the law.		Sites and Remains Act, 1958		
C.7.1	Accommodation	Contractor shall follow all relevant provisions of the Building and the other Construction Workers (Regulations of Employment and Conditions of Service) Act, 1996 for construction and maintenance of labour camp. The location, layout and basic facility provision of each labour camp shall be submitted to DSC and UEAP prior to their construction. The Construction shall commence only upon the written approval of the Environmental Specialist of DSC. The Contractor shall maintain necessary living accommodation and ancillary facilities in functional and hygienic manner and as approved by the DSC.	Labour camps	The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act, 1996	Contractor	Environmenta Specialist of DSC, PMU

SI No	Environmental Issue		Approximate	Reference	Responsibility		
SI. No.		Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring	
C.7.2	Potable Water	The Contractor shall construct and maintain all labour accommodation in such a fashion that uncontaminated water is available for drinking, cooking and washing. The Contractor shall also provide potable water facilities within the premises of every camp at an accessible place, as per standards set by the Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The Contractor shall also guarantee the following: a) Supply of sufficient quantity of Potable Water (as per IS) in every workplace/labour camp (Site at suitable and easily accessible places and regular maintenance of such facilities. b) If any water storage tank is provided that shall be kept such that the bottom of the tank at least 1 m above the surrounding ground level. c) If water is drawn from any existing well, which is within 30 m proximity of any toilet, drain or other source of pollution, the well shall be disinfected before water is used for drinking. d) All such wells shall be entirely covered and provided with a trap door, which shall be dust proof and water proof. e) A reliable pump shall be fitted to each covered well. The trap door	Construction site, Labour camp	The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act, 1996	Contractor	Environmenta Specialist of DSC, PMU	

SI. No.	Environmental Issue		Approximate	Reference	Responsibility		
		Mitigation Measures	Approximate location	law/guidelines	Planning and Execution	Supervision/ Monitoring	
		shall be kept locked and opened only for cleaning or inspection, which shall be done at least once in a month. f) Analysis of water shall be done every month as per parameters prescribed in IS 10500-2012. Environmental Specialist of DSC shall be required to inspect the labour camp once in a week to ensure the compliance of the EMP					
C.7.3	The Contractor shall ensure that — > The Sewage system for the camp are designed, built and operated in such a manner that no health hazards occurs and no pollution to the air, ground water or adjacent water courses take place > Separate toilets/bathrooms, wherever required, Screened from those form men (marked in vernacular) are to be		Labour camps	The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act, 1996 MoRTH:114.14	Contractor	Environmenta Specialist of DSC, PMU	
C.7.4	Waste Disposal	The Contractor shall provide garbage bins in the camps and ensure that these are regularly emptied and disposed off in	Labour camps	Annexure 'A' to MoRTH Clause 501	Contractor	Environmental Specialist of DSC, PMU	

SI No	Environmental Issue		Approximate	Reference	Responsibility		
SI. No.		Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring	
		a hygienic manner as per the Comprehensive Solid Waste Management Plan approved by the Environmental Specialist of DSC.					
C.8		Contractor's Demobilization					
C.8.1	Environmental Conditions	The UEAP shall undertake seasonal monitoring of air, water and noise and soil quality through an approved monitoring agency. The parameters to be monitored, frequency and duration of monitoring as well as the locations to be monitored shall be as per the Monitoring Plan prepared. National Standard of Air, Noise and Water given in Appendix-2.	locations as directed by	Environmental Protection Act, 1986	Contractor	Environmental Specialist of DSC and PMU	
C.8.2	Continuous Community Participation	The Environmental Specialist of DSC shall have continuous interactions with local people around the project area to ensure that the construction activities are not causing undue inconvenience to the locals residing in the vicinity of project site under construction due to noise, dust or disposal of debris etc.	Along the project corridor		Environmental Specialist of DSC	Environmental Specialist of DSC and PMU	
C.8.3	Clean-up Operations, Restoration and Rehabilitation	Contractor shall prepare site restoration plans, which shall be approved by the Environmental Specialist of DSC. The clean-up and restoration operations are to be implemented by the Contractor prior to demobilization. The Contractor shall clear all temporary structures; dispose all garbage, night soils and POL (Petroleum, Oil and Lubricants) wastes as per Comprehensive Waste Management Plan and as approved by DSC. All disposal pits or trenches shall be filled in and effectively sealed off. Residual	Throughout the project corridor	MoRTH 111.9, 111.10 and 111.11	Contractor	Environmental Specialist of DSC, PMU	

01.11	Environmental lesus		Approximate	Reference	Responsibility				
SI. No.	Environmental Issue	Mitigation Measures	location	law/guidelines	Planning and Execution	Supervision/ Monitoring			
		topsoil, if any shall be distributed on adjoining/proximate barren land or areas identified by the Contractor and approved by the Environmental Specialist of DSC in a layer of thickness of 75 mm – 150 mm. All construction zones and facilities including culverts, road side areas, camps, Hot Mix plant sites, Crushers, batching plant sites and any other area used/affected due to the project operations shall be left clean and tidy, at the Contractor's expense, to the entire satisfaction to the Environmental Specialist of DSC.							
C.9	Construction Activities by								
C.9.1	Tree Plantation	The plantation at the following locations shall be implemented by the UEAP through the State Forest Department; as per Appendix-7 and 8 1. Road side 2. Enhancement sites 3. Forest land 4. Community Forestation	Throughout the project corridor	The Uttar Pradesh Protection of Trees in Rural and Hill Areas Act, 1976 and amended 1998 and 2001	State Forest Department	PMU			
	OPERATION STAGE								
	Activities to be Carried Ou								
0.1	Monitoring Operation Performance	The UEAP shall monitor the operational performance of the various mitigation/enhancement measures carried out as a part of the project. The indicators selected for monitoring include the survival rate of trees; utility of enhancement provision made under the project; status of rehabilitation of borrow areas; and effectiveness of noise	Throughout the project corridor	As per the contract document	PMU	PMU			

			Annuavimata	Deference	Responsibility		
Si. No.	Environmental Issue	Mitigation Measures Approxim location		Reference law/guidelines	Planning and Execution	Supervision/ Monitoring	
0.2	Maintenance of Drainage	barriers. PWD shall ensure that all drains (side drains, median drain and all cross drainages) are periodically cleared especially before monsoon season to facilitate the quick passage of rainwater and avoid flooding.	Throughout the project corridor		PMU	PMU	
O.3	Pollution Monitoring	The periodic monitoring of the ambient air quality, noise level, water (both ground and surface water) quality, soil quality in the selected locations as suggested in pollution monitoring plan through the UEPPCB or its approved monitoring agency.	At representative locations as per the instructions of Env. Engineer	Environmental Protection Act, 1986 and The noise pollution (regulation and control) rules, 2000	Pollution Monitoring Agency	PMU	
O.4	Soil Erosion and Monitoring of Borrow Areas	Visual Monitoring and inspection of soil erosion at borrow areas, quarries (if closed and rehabilitated), embankments and other places expected to be affected, shall be carried out once in every three months as suggested in monitoring plan.	Borrow areas and embankment slopes	MoRTH 305.2.2.2 and 306.3	РМИ	PMU	
O.5	Public awareness on Noise levels and Health Affects	However the public shall be advised to construct the noise barriers such as walls, double glazed windows and tree plantation between the roads and their property. The public awareness is necessary regarding the human health through the news papers and consultations and distribution of pamphlets during the operation stage.	Throughout the project corridor	Corporate Social Responsibility	PMU	PMU	

9

Annexure 4: Public Consultation on Environmental Issues

During Construction/ Implementation

PLACE OF CONSULTATION	
DATE OF CONSULTATION	
PROJECT NAME	
PACKAGE NO.	
NAME OF THE FIELD SUPERVISORS	
NAME OF THE PERSONS	
ADDRESS	

S.No.	POINTS DISCUSSED	REMARKS
01.		
02.		
03.		
04.		
05		
06.		
07		
08		
09		
10		

Consultation Summary

Participants

Annexure 5: Sample Grievance Registration Form

(To be available in Hindi and English or local language, if any)

The Uttarakhand Emergency Assistance Project (UEAP) welcomes complaints, suggestions, queries and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing *(CONFIDENTIAL)* above your name. Thank

Date	Place of registration	Place of registration				
Contact Information/Perso	onal Details		35,			
Name		Gender	Male Female	Age		
Home Address						
Village / Town						
District						
Phone no.						
E-mail						
how) of your grievance be	mment/Question Please pro Plow: /note/letter, please tick here:		details (who, w	hat, where and		
How do you want us to re	ach you for feedback or upd	ate on you	r comment/grie	vance?		

FOR OFFICIAL USE ONLY		
Registered by: (Name ofofficial registering	grievance)	
If – then mode:	14	
■ Note/Letter		
■ E-mail		
■ Verbal/Telephonic		
Reviewed by: (Names/Positions ofOfficial(s) reviewing grievance)	
Action Taken:		
Whether Action Taken Disclosed:		
	■ Yes	
	■ No	
Means of Disclosure:		

GRIVENCES RECORD AND ACTION TAKEN

Sr. No.	Date	Name and Contact No. of Complainer	7.1	Place	Status of Redress	Remarks

परिशिष्ट5: नम्नाशिकायतपंजीकरणफार्म (हिंदी, उर्दू और अंग्रेजीयास्थानीयभाषामें उपलब्धहो, यदिकोईहो,)

UEAP

शिकायतें,

सुझाव,

प्रश्नोंऔरपरियोजनाकेकार्यान्वयनकेबारेमेंटिप्पणियोंकास्वागतकरताहैं1हमलोगोंकोशिकायतकेसाथउनकेनाम औरसंपर्कजानकारीप्रदानकरनेकेलिएप्रोत्साहितकरतेहैंताकिहमस्पष्टीकरणऔरप्रतिक्रियाकेलिएआपकेसाथसंप र्ककरसकें 1

आपकोअपनेव्यक्तिगतविवरणशामिलकरनेचाहिएलेकिनउसजानकारीकोगोपनीयरखाजायगा1 आपकानामऊपर (गोपनीय) * लेखन / टाइपिंगद्वाराहमेंस्चितकरेंधन्यवाद

तारीख		पंजीकरणकास्थान			
संपर्ककरनेसंबंधीजानव	गरी / व्यक्तिगतविवरण	1			
नाम	लिंग	पुरुष महिला	आयु		
घरकापता					
गांव / शहर					
जनपद					
फोननं.					
ईमेल					
शिकायत / सुझाव / टिप	प्पणी / प्रश्ननीचेअपनीशिव	मायतकाविवरण (जो	ा, क्या, कहां औरकैसे) प्रदानकरें:	
सलगनक / नोट / पत्रके	रूपमें, शामिलहैं, कृपयायह	इॉटिककरें			
हमआपतकप्रतिक्रियाके	न्तिएकैसेपह्ँचसंकते <u>ह</u> ैंयाअप	पनीटिप्पणी / शिका	यतपरनवीनीकरण?		
केत्रकार्याच्यास्यास्य	केलिग				

<u>कवलकायालयउपयागकालए</u>							
द्वारापंजीकृत: (सरकारीपंजीकरणशि	कायत	भानाम)					
यदि -फिरविधि:							
🗯 नोट / पत्र							
🗯 ईमेल							
🗯 मौखिक / टेलीफोन							
सेसमीक्षित: (नाम / अधिकारीकीपोरि	जेशनस	मीक्षाशिकायत	Γ)				
कीगईकार्रवाई:							
कीगईकार्रवाईकाखुलासा:				*	हां		
7.				*	नहीं		
प्रकटीकरणकामतलब:							
शिकायतरिकॉर्डऔरकीगईकार्रवाईक्र	तारी	नामऔर	शिकाय	तकेप्र	जग	निवारणकी	टिप्पणि
मसंख्या	ख	complai ner कासंपर्कनं बर	कार		ह	स्थिति	याँ

Annexure 6: Environmental Baseline Monitoring Data (Obtained between Jan-June 2015)

Ambient Air Quality Analysis Results

Pkg. Road	Laboratory	Date of Monitoring	Location	PM10.5 (ug/m3)	PM2.5 (ug/m3)	SOx (ug/m3)	Nox (ug/m3)	CO (mg/m3)	Pb	нс
	1		Bus Stand Chowk, Nagar Palika Gopeshwer	78.4	53.3	15.8	12.6	N.D.	I/s.	-
C-34	M.E Testing	10-13/6/2015	Zero Point Nagar palika Gopeshwer	78.1	52.9	15.3	12.0	N.D		-
		25-28/4/2015	Pokhri- Gopeshwer Motor Road (Ch. 57.700 Village Kathod)	78.3	53.6	15.5	13.9	<0.01	N.D	N.E
C-51	M.E Testing	25/4/2015	Pokhri- Gopeshwer Motor Road (Ch. 49.600 Village Sonla)	78.6	53.5	15.3	13.6	<0.01	N.D	N.E
		10-13/03/2015	Bhugadhi Develagrh Chamdhar Motor Road (Ch. 2.340 Village Bhatoli)	77.3	53.3	15.2	13.5	<0.01	N.D	N.E
C-65a	METAL	10-13/03/2015	Bhugadhi Develagrh Chamdhar Motor Road (Ch. 13+28 Village Chamdhar)	77.5	53.4	15.5	13.3	<0.01	N.D	N.E
	M.E Testing	09-12/03/2015	Khirsu-Musagli-Damdevel Motor Road (Km 8+020 Village Thandar)	76.9	52.8	15.0	13.2	<0.01	N.D	N.E
C-65b		09-12/03/2015	Khirsu-Musagli-Damdevel Motor Road (Km 14+500 Village Bidoli)	77.1	53.0	15.1	13.0	<0.01	N.D	N.E
		03-06/03/2015	Rikhnikhal-Beerokhal Motor Road (Km 79+110)	77.7	53.4	15.0	13.2	<0.01	N.D	N.E
C-66	M.E Testing	03-06/03/2015	Rikhnikhal-Beerokhal Motor Road (Km 80+470)	77.2	53.6	15.3	13.5	<0.01	N.D	N.E
C-39	M.E. Testing	25-26/05/2015	Gaja-Nakot Motor Road (Km 10+480)	78.8	53.6	16.0	11.7	N.D.	N.D	N.E
	*	23-24/03/2015	Tehri-Ghansali-Tilwara Motor Road (Km 27+130)	81.0	56.3	17.8	15.9	N.D.	N.D	N.E
C-43	M.E. Testing	23-24/03/2015	Tehri-Ghansali-Tilwara Motor Road (Km 38+650)	81.4	56.1	17.3	15.6	N.D.	N.D	N.E
C-52	Newcon Consultants & Laboratories	16-17/04/2015	Silkyara-Bangaon-Chapda-Saroth Motor Road (Included Tehri Part)	64	33	07	22	0.18	NIL	N.E
C-53	Newcon Consultants & Laboratories	15-16/04/2015	Badethi-Banchora-Badrigarh Motor Road (Included Tehri Part)	67	38	09	28	0.22	NIL	N.E

Water Analysis Results

						vvater	Alla	ıysı:		Suit	>															
Package Road	Location	Type	Date of Monitoring	Colour (Hazen)	Odour	Taste	Turbidity (NTU)	Ηď	Total Hardness (mg/lt.)	Iron (Fe) (mg/lt.)	Chloride (CI) (mg/lt.)	Residual Free Chloride (RFC) (mg/lt.)	Sulphate (SO4) (mg/lt.)	Total Alkanity (mg/lt.)		otal Disolve Solid (TDS (mg/lt.)	Calcium (Ca)	Nitrate (NO3)	Boron (5)	Others	Total Suspended Solid (TSS)	BOD (mg/lt at 27 C)	COD (mg/lt)	Oil & Greese	otal Coliform Organisı (MPN)	E.Coli
C-34	Nagar Palika Internal Road, Gopeshwer	Drinking Water	10-16/06/2015	<5	Agreeable	Agreeable	Nil	7.5	168	Nil	75	-	-		0.73	-	7	•		-	:Sc				N.D	N.D
C-51	Pokhri- Gopeshwer Motor Road (Ch Km 49+850)	Drinking Water	25/04-02/05/2015	3	Agreeable	Agreeable	2.3	7.5	142	0.02	18	N.D	8.7	40	0.2	180	29.4	3.6	0.01	N.D.		-	-	•	9	+
C-51	Pokhri- Gopeshwer Motor Road (Ch Km 58+550)	Drinking Water	24/04-02/05/2015	2	Agreeable	Agreeable	2.3	7.5	145	0.02	15	N.D.	8.3	38	0.2	180	29.2	3.7	0.01	N.D.	-	-	-	-	•	-
C-65a	Bhugadhi Develagrh Chamdhar Motor Road (Ch. 2.340 Village Hnatoli)	Drinking Water	10-18/03/2015	3.	Agreeable	Agreeable	2.5	7.8	139	0.02	14	N.D	8.2	39	0.2	166	28.9	3.6	0.01	N.D	-	∞.	-	•	-	-
C-65a	Bhugadhi Develagrh Chamdhar Motor Road (Ch. 9 Village Rampur Chowk)	Drinking Water	10-18/03/2015	3	Agreeable	Agreeable	2.7	7.,6	136	0.02	14	N.D	8.3	36	0.2	164	28.4	3.5	0.01	N.D	150	-	-		-	-
C-65a	Khirsu-Musagli-Damdevel Motor Road (Km 8+020 Village Thandar)	Drinking Water	09-17/03/2015	2	Agreeable	Agreeable	2.5	7.6	138	0.02	17	N.D	8.6	39	0.1	170	28.8	3.7	0.01	N.D	15	-	-	-	-	-
C-05a	Khirsu-Musagli-Damdevel Motor Road (Km 10+860 Village Bidoli)	Drinking Water	09-17/03/2015	2	Agreeable	Agreeable	2.4	7.5	136	0.02	14	N.D	8.5	38	0.1	168	28.6	3.9	0.01	N.D	Ť	-	-	-	-	-
C-66	Rikhnikhal-Beerokhal Motor Road (Km 76+710, Vill Simdhi)	Drinking Water	12.03.2015	3	Agreeable	Agreeable	2.3	7.2	136	0.02	15	N.D	8.3	358	0.2	160	28.7	3.6	0.02	N.D	-	-		•	-	-
C-66	Rikhnikhal-Beerokhal Motor Road (Km 76+710, Vill Simdhi)	Drinking Water	12.03.2015	3	Agreeable	Agreeable	2.3	7.2	136	0.02	15	N.D	8.3	358	0.2	160	28.7	3.6	0.02	N.D	¥	-	÷	+	-	-
C-39	Gaja-Nakot Motor Road (Km 10+480)	Surface Water	27/05/2015		Agreeable	Agreeable	-	7,8	-	-	65	-	15.3	-	-	•		~	-	N.D	-	-		-	-	-
C-43	Tehri-Ghansali-Tilwara Motor Road (Km 45+000)	Surface Water	26/03-02/04/2015	<5	Agreeable	Agreeable	Nil	7,4	172	Nil	76		3	-	0.71	385	-	*	-	N.D	-	-	-	•	-	-

Package Road	Location	Type	Date of Monitoring	Colour (Hazen)	Odour	Taste	Turbidity (NTO)	pk	fotal Hardness (mg/lt.)	Iron (Fe) (mg/lt.)	Chloride (CI) (mg/lt.)	Residual Free Chloride (RFC) (ma/lt.)	Sulphate (SO4) (mg/lt.)	Total Alkanity (mg/lt.)	ouride (F) (mg/	otal Disolve Solid (TDS (mg/lt.)	Calcium (Ca)	Nitrate (NO3)	Boron (B)	Others	Total Suspended Solid (TSS)	BOD (mg/lt at 27 C)	COD (mg/lt)	Oil & Greese	otal Coliform Organisr (MPN)	E.Coli
	Tehri-Ghansali-Tilwara Motor Road (Km 38+060)	Surface Water	26/03-02/04/2015	<5	Agreeable	Agreeable	Ni	7.5	170	Nil	74	-	-	-	0.73		-	-	-	N.D	-	-	-	-	-	(-
C+52	Silkyara-Bangaon-Chapda-Saroth Motor Road (Included Tehri Part) (Km 1 to 20, 80 to 98)	Ground Water	16/04/2015	<5	Agreeable	Agreeable	<1	7.15	48	0.12	15.2	Nil	10.4	86	0.12	168	15.2	0.41	<0.05	-	-	-	-	-	<2 .0	Abse nt
C+53	Badethi-Banchora-Badrigarh Motor Road (Included Tehri Part) (Km. 1 to 16, 70 to 80, 95 to 96)	Ground water	15/04/2015	<5	Agreeable	Agreeable	<1	7.12	42	0.12	25.2	Nil	8.6	72	0.15	156	12.4	0.46	<0.05	-	-	-	-	-	- <2 .0	Abse nt

Soil Analysis Results

Package Road	Location	Date of Monitoring	Moisture	Specific Gravity	Water Holding Canacity	pH (10% Aquacus	Alkalinity	Iron (Fe)	Calcium (CaCO3)	Magnesium (MgCO3)	Nitrates (NO3)	Chlorides (CI)	Potassium (k)	Sodium (Na)	Sulphate (SO4)	Electrical Conductivity (EC)	Organic Carbon	Lead (Pb)	Nitrogen (N)	Phosphorus (P)	NaCI
C-34	Internal Road Nagar Palika Gopeshwer (Ch. Km 0.00)	10-15/06/2015	-	-	-	9.7	-	-	-	-	-	-	0.65	.=:	-	-	0.28	N.D	0.51	0.064	0.046
	Pokhari Gopeshwer Motor Road (Ch km 49.660 village Sonla)	25-30/04/2015	-	-	- 1	9.5	-	-	-	*	-	(A)	0.62	-	-		0.30	N.D	0.52	0.061	0.038
C-51	Pokhari Gopeshwer Motor Road (Ch km 57.720 village Kathod)	25-30/04/2015	-		4	9.8	-	-	-	-	-		0.62	-		-	0.26	N.D	0.48	0.056	0.043
C- 65a	Bhugadhi Develagrh Chamdhar Motor Road (Ch. 2.340 Village Bhatoli)	10-18/03/2015		•		9.2	3	-	-	-		-	0.64	-	-	1	0.26	Nil	0.41	0.058	•
C- 65B	Khirsu-Musagli-Damdevel Motor Road (Ch. Km 9 Village B/w Thandar & Marora)	9-14/03/2015	-	•		9.1	÷	3	-	21	2	-	0.64	0.045	-	11.41	0.26	N.D	0.44	0.06	- 1
C-66	Rikhnikhal-Beerokhal Motor Road (Km 69+500, Village Jaygot)	09.03.2015				9	-	-	-	-	-	-	0.64	-	-	1 /-	0.25	N.D	0.44	0.61	0.045
C-39	Gaja-Nakot Motor Road (Km 10+480)	28/05- 02/06/2015	-	*	-	9.7	-		•	*	-	-	0.61		-	75	0.26	N.D	0.47	0.063	0.045
	Tehri-Ghansali-Tilwara Motor Road (Km 28+950)	26-31/03/2015	*			9.4	-		-	-	-	-	0.60	-		1.5	0.25	N.D	0.49	0.065	0.052
C-43	Tehri-Ghansali-Tilwara Motor Road (Km 41+100)	26-31/03/2015		4		9.4	-	-	-	4)	-	-	0.60	-	-		0.25	N.D	0.49	0.065	0.052
G-52	Silkyara-Bangaon-Chapda-Saroth Motor Road (Included Tehri Part) km. 1 to 20, 80 to 98)	16/04/2015	25.6	1.36	36.8	7.12	4.32	3.8	512	136	7.2	22	208	356	12.2	0.31	1.16	0.10	236	148	-
C-53	Badethi-Banchora-Badrigarh Motor Road (Included Tehri Part) (Km. 1 to 16, 70 to 80, 95 to 96)	15/04/2015	27.8	1.36	37.8	7.18	4.56	3.2	512	142	7.8	25	218	368	12.3	0.36	1.12	0.10	224	142	•

Noise Monitoring Analysis Result

Leq (day) dB(A)	Leq (night) dB(A)
64.8	63.9
63.2	61.5
61.0	51.0
61.0	50.5
59	48.5
59.5	49
59.5	49.5
59.5	49
58.5	49
58.5	48.5
61.5	-
59.5	49.0
55.9	47.1
54.9	46.6
	59.5 58.5 58.5 61.5 59.5 55.9