

Environmental Monitoring Report

Project Number: 47229-001

November 2016

Period: July 2015 - December 2015

IND: Uttarakhand Emergency Assistance Project

Submitted by

Project implementation Unit -Tourism (Garhwal), UEAP, Dehradun

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Asian Development Bank

PROJECT IMPLEMENTATION UNIT -Tourism (Garhwal)

Uttarakhand Emergency Assistance Project (UEAP)

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159/PIU-GMVN-Tourism (Garhwal)

Dated: 30-06-2016

To.

Country Director South Asia Department India Resident Mission 4, San Martin Marg, Chanakyapuri New Delhi - 110021, India

ASIAN DEVELOPMENT BANK INRM
COUNTRY DIRECTOR'S OFFICE

Sub: ADB Loan No. 3055-IND, UEAP (Tourism Sector Subprojects) Submission of Semi-Annual Environmental Monitoring Report (July 2015 to Dec 2015)

Dear Madam.

of work from Reference to the subject matter, kindly find enclosed herewith one copy in hard form and CD of "Semi-Annual Environmental Monitoring Report (July 2015 to Dec 2015)" for Uttarakhand Emergency Assistance Program (Tourism Sector Subprojects) for your information and record.

Yours Sincerely

Encl: As above

(Atul Kumar Gupta) Program Manager PIU-Tourism (Garhwal), UEAP

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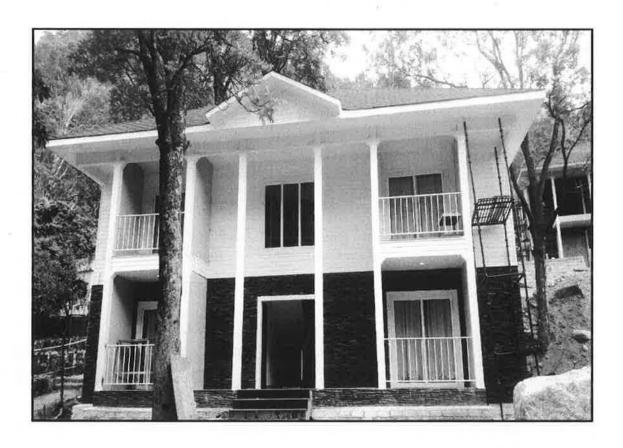
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UTTARAKHAND EMERGENCY ASSISTANCE PROJECT

Loan Number: 3055-INDIA

SEMI ANNUAL ENVIRONMENTAL MONITORING REPORT

(July -2015 to December-2015)



IND: Uttarakhand Emergency Assistance Program (Tourism Sector)

<u>Prepared by: - Department of Tourism, Government of Uttarakhand, for the Asian</u>
<u>Development Bank</u>

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ABBREVIATIONS

ADB Asian Development Bank BOD Biological Oxygen Demand CO Carbon monoxide **CPCB** Central Pollution Control Board DSC Design and Supervision Consultant EΑ **Executing Agency** EAC **Expert Appraisal Committee EARF** Environment Assessment and Review Framework ΕIA Environmental Impact Assessment **EMP** Environment Management Plan ES **Environmental Specialist** Field PIU, Kumaon Mandal Vikas Nigam **FPIU** FRP Fiber Reinforced Plastic GC **General Conditions GMVN** Garhwal Mandal Vikas Nigam Gol Government of India GoUK Government of Uttarakhand IDIPT Infrastructure Development Investment Program for Tourism Initial environmental examination IEE **INR** Indian Rupee Kumaon Mandal Vikas Nigam KMVN **PUC** Pollution under Control Certificate MLD Million Liters per day MoEF&CC Ministry of Environment, Forests and Climate Change MFF Multi- Tranche Financing Facility NGO Non-Governmental Organization Nitrogen oxide NO_x PD**Project Director** PIU Project Implementation Unit Particulate Matter PM **PMU** Project Management Unit **PUF** Polyurethane Foam RP Resettlement Plan **RPM** Reparable Particulate Matter SC Scheduled Castes SEAC State Expert Appraisal Committee State Environmental Impact Assessment Authority SEIAA Sulphur- di- oxide SO₂ Suspended Particulate Matter SPM SPS Safeguard Policy Statement ST Scheduled Tribe **UEPPCB** Uttarakhand Environmental Protection and Pollution Control Board UJS Uttarakhand Jal Sansthan

I. INTRODUCTION

A. Background

- 1. Uttarakhand being a tourist and pilgrimage State attracts a large number of tourist and pilgrims. A major disaster during 15-17th June 2013 resulted in severe damages 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 (Tourism Sector) is Government of Uttarakhand (GOU) and State Disaster Management Authority (SDMA). The primary implementing agencies is Department of Tourism (DOT) through Kumaon Mandal Vikas Nigam Limited and Garhwal Mandal Vikas Nigam Limited for tourism infrastructure.
- 3. Under tourism sub project rehabilitation and reconstruction of affected tourism infrastructure in the 3 affected districts (Chamoli, Rudraprayag and Uttarkashi) of Garhwal Region were undertaken by Garhwa Manadal Vikas Nigam and in 2 districts (Bageshwar and Pithoragarh) of Kumoan region were undertaken by Kumoan Manadal Vikas Nigam in the state. The department of Tourism is responsible for planning financing, constructing, and maintaining Tourism infrastructure.

B. Project Objectives:

- 4. Tourism was worst hit in the state with destruction of tourism infrastructure on one hand and loss of livelihoods on the other due to heavy rains in June, 2013. The tragedy besides claiming thousands lives badly hit the industry stakeholders especially, those involved in Religious and Adventure Tourism on account of the major portion of the season of the Char Dham Yatra being washed out. According to estimates from the Uttarakhand Hotel and Restaurant Association, the floods washed away over 100 small hotels which were constructed right on the riverbanks.
- 5. As a part of Tourism Restoration Drive, it was decided to construct dwelling units in the form of cottages/ tented accommodation made of eco- friendly FRP material in disaster affected Districts. This would compensate for the loss of tourist accommodation units and would involve minimum concrete works thus saving time and would be in tune with the ecological balance of the region. It would also strengthen state's coping mechanism and help in reviving tourism in

the affected region. Thus construction of environmentally sustainable, affordable accommodation for tourists with eco-friendly material would help in bridging the gap in the shortage of accommodation in the State during the tourist season. Provision of affordable accommodation to tourists at various destinations in the form of cottages which are aesthetically and eco-friendly designed, taking into consideration the natural landscape of the area will be a boost for tourism sector. These accommodation facilities would encourage tourists to stay at most frequented locations. These huts can be either extension to existing Tourist Rest Houses or new units, en route some popular destinations in the affected areas.



Figure 1. District of Uttarakhand depicting in Garhwal and Kumaon regions

C. Project Purpose

- 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) will be Public Works Department (PWD) for roads, bridges, urban roads, and trekking Department of Tourism (DOT) through Kumaon routes including eco-trails Mandai Vikas Nigam Limited, and Garhwal Mandai 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. Some other state agencies such as Forest Department are likely to be entrusted with some works under UEAP under these primary IAs.
- 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 tourism sector project to describe the implementation of the mitigation measures and monitoring recommended in the IEE and summary Initial Environmental Examination (SIEE) for the period of Jan 2015-June 2015.

D. Project Profile

8. At the end of December, 2015 out of six packages contracts for six packages have been signed. The construction work in these six packages is in different stage. **Table 1** shows the project components, and physical progress of all the packages.

Table 1: Status of Sub-project Implementation under UEAP-Tourism Subprojects (Upto 31st December 2015)

Locations	Package Code	Sub-project	Physical progress
Pithoragarh	UK/UEAP- T(KMVN)NTL/01(R2)	Construction of 100 Prefabricated Fiber- reinforced Plastic (FRP) at 16 different location in Dharchula and Munsyari Tehsil.	Gunji -Plinth work of 10 nos. of HUT is completed. Kalapani- Plinth work of 5 nos. of completed. Nabhidhang- Plinth work of 6 huts has been completed and PCC of 6 huts has been completed. Gala - 4 nos. FRP huts & Retaining wall completed. Doors & Window is installed all in the 4 nos. of Huts. Malpa/Lamari- 5 nos. of FRP HUT is installed.
Bageshwar	UK/UEAP- T(KMVN)/NTL/02(R 2)	Construction of 45 Prefabricated Fiber- reinforced Plastic (FRP) at 9 locations.	Supi-5 Huts has been completed. In current bathroom plinth work is in progress Jhooni-Ground leveling completed and plinth work in progress. Badiyakot- 5 hut installed at badiyakot and inner floor work has been complete approach road work in progress.
Uttarkashi	UK/UEAP- T(GMVN)DDN/03	Construction of FRP/ Hybrid huts (21Rooms) at 6 locations in Uttarkashi, Garhwal Region.	Purola: Foundation work up to Plinth has been completed. The work of retaining wall, drain and erection of steel structure are in progress. Wall Panel, Roof Panel & Floor Panel transported to site.

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Locations	Package Code	Sub-project	Physical progress
			Barkot: Foundation work up to
			Plinth has been completed. The
			work of retaining wall and
			erection of steel structure are in
			progress. Wall Panel, Roof
			Panel & Floor Panel transported
			to site.
			Phoolchatti: Foundation work
			up to Plinth has been completed
			in both Blocks. Site
			development work is in
			progress. Wall Panel, Roof
			Panel & Floor Panel transported
			to site.
		9	Raithal: Foundation work up to
			Plinth has been completed in
			both huts. Hill cutting work has
			been completed and work of
			retaining wall is in progress.
			Wall Panel, Roof Panel & Floor
			Panel transported to site.
			Barsu: Foundation work up to
			Plinth for 5 Huts has been
			completed. Hill cutting work has
			been completed and work of
			retaining wall is in progress.
			Wall Panel, Roof Panel & Floor
			Panel transported to site.
			Harsil: In 1st hut foundation
			work up to Plinth and erection of
			Steel structure has been
			completed. 2nd hut shifted to
			Barsu. Site planning for one
			additional hut at Barsu is in
			progress. Wall Panel, Roof
			Panel & Floor Panel transported
			to site.
Rudrapraya	UK/UEAP-	Construction of	Kanakchauri : Erection of
9	T(GMVN)/DDN/04	Hybrid Huts (8	vertical steel column & steel
		Rooms)at one location in	truss have been completed. Retaining wall work is in
		Rudraprayag,	progress. Wall, Roof & Floor

Locations	Package Code	Sub-project	Physical progress
		Garhwal Region	Panel transported to site.
Chamoli	UK/UEAP- T(GMVN)/DDN/05	Construction of hybrid huts (32 Rooms) at 5 locations in Chamoli, Garhwal Region.	Pandukeshwar: Hill cutting work & Excavation in foundation work in 1st & 2nd Block is in progress. PCC & RCC work in foundation of column footing in 1st & 2nd Block are in progress. Wall, Roof & Floor Panel transported to site. Auli: Hill Cutting work has been completed & Retaining wall work is in progress. Wall, Roof & Floor Panel transported to site. Fixing of wall, floor and roof panel is in progress. Joshimath: Erection of Wall, Roof & Floor Panel is in progress. Deval: Erection of steel structure of Hut has been completed. Wall, Roof & Floor Panel transported to site. Lohjung: Erection of steel structure of Hut has been completed. Wall, Roof & Floor Panel transported to site. Lohjung: Erection of steel structure of Hut has been completed. Wall, Roof & Floor Panel transported to site. Breast wall & retaining wall work are in
Rudraprayag	UK/UEAP- T(GMVN)/DDN/06+ A10-	Construction/Reconst ruction of Tourism Assets in LGFS Structure in six Locations in Rudraprayag Distt.	Nos. Huts. Erection of LGFS

Locations	Package Code	Sub-project	Physical progress
			is under progress.
	•		Triyuginarayan: Hill cutting
			work has been completed and
		.70	Foundation work up to Plinth for
			4 Huts has been completed.
			Erection of 1 LGFS Structure
			has been completed. Outer
			wall covering (OSB board &
			membrane) have been
			completed. Gaurikund: Foundation work
			up to Plinth has been
			completed. Erection of LGFS
	-		Structure and construction of
			retaining wall work is in
			progress.
			Sonprayag: Base architectural
			drawing has been approved &
			sent to contractor for
			submission of structural
			drawing. Earth work in general
			cutting under Site development
			work has been completed.

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Table 2: Details of Sub-project Implementation under UEAP-Tourism Subprojects (Upto 31st December 2015)

Locations	Sub-projects components (Package No.)	Expected Starting date of Implement ation	Projected months of completion (as per Work order)	date of completion)	Physical progress
Pithoragarh	UK/UEAP- T(KMVN)NTL/01(R2)- Construction of FRP Huts in Pithoragarh district of Kumaon Region	7.02.2015	24	6.02.2017	25%
Bageshwar	UK/UEAP- T(KMVN)/NTL/02(R2)- Construction of FRP Huts in Bageshwar of Kumaon Region.	7.02.2015	24	6.02.2017	30%
Uttarkashi	UK/UEAP-T(GMVN)DDN/03 Construction of FRP and Hybrid Huts in Uttarkashi district of Garhwal Region.	10.10.201 4	18	9.04.2016	45%
Rudraprayag	UK/UEAP-T(GMVN)/DDN/04 Construction of Hybrid Huts in Rudraprayag district of Garhwal Region	10.10.201 5	18	9.10.2016	60%
Chamoli	UK/UEAP-T(GMVN)/DDN/05 Construction of Hybrid Huts in Chamoli district of Garhwal Region	10.10.201 4	18	9.04.2016	35%
Rudraprayag	UK/UEAP-T(GMVN)/DDN/06 Construction/Reconstruction of Tourism Assets in LGFS Structure in Various Locations at Rudraprayag District, Garhwal Region	09.09.201 4	18	8.04.2016	33%

II. IMPLEMENTATION PROGRESS

E. Major Works and Progress

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9. Under tourism sector till June, 2015 contracts of six sub-projects has been awarded, all six packages have started. 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 will be started shortly.

Table 3: Status of the Sub project and Progress

Locations	Sub-projects Components (Package No.)	Listing of What type works under continued the package present	of What type of works Expected ler continued at changes from approved scope	Expected changes from approved scope	Fulfillment of objectives- Type of remedial measures needed	Se asse do of the of
Pithoragarh	UK/UEAP- T(KMVN)NTL/01(R2)- Construction of FRP Huts in Pithoragarh district of Kumaon Region.	Construction of 100 Prefabricated Fiber- reinforced Plastic (FRP) at 16 different location in Dharchula and Munsyari Tehsil.	Work is in progress in 5 sites	At this stage there is no such changes are expected from the approved scope.	Strict application of mitigation measures	ant
Bageshwar	UK/UEAP- T(KMVN)/NTL/02(R2)- Construction of FRP Huts in Bageshwar of Kumaon Region.	Construction of 45 Prefabricated Fiber- reinforced Plastic (FRP) at 9 locations and its associated facilities.	Work is in progress in 3 sites	At this stage there is nc such changes are expected from the approved scope.	Strict application of mitigation measures	No risk anticipated at present
Uttarkashi	UK/UEAP-	Construction	In Purola –Work of	At this stage	Strict	No risk

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of Key assumptions of and risks that affect attainment of the objectives	anticipated at present	
ठ ठ	ਰ	
Fulfillment objectives- Type remedial measures	application mitigation measures	
Expected changes from approved scope	there is no such changes are expected from the approved scope.	
What type of works continued at present	retaining wall, drain and erection of steel structure are in progress. In Barkot- Work of retaining wall, drain and erection of steel structure are in progress. In Phoolchatti-Site development work is in progress. In Raithal –work of retaining wall is in progress. In Barsu –work of retaining wall is in progress. In Barsu –work of retaining wall is in progress. In Harsil –Second Hut in Harsil is to be shifted to Barsu.Site planning for one additional hut at	Barsu is in progress.
ting of rks under package	of FRP/ Hybrid huts (21Rooms) at 6 locations in Uttarkashi, Garhwal Region.	
Sub-projects Components (Package No.)	T(GMVN)DDN/03- Construction of FRP and Hybrid Huts in Uttarkashi, Garhwal Region.	
Locations		

Locations	Sub-projects Components (Package No.)	Listing of works under the package	of What type of works ler continued at le present	Expected changes from approved scope	Fulfillment of objectives- Type remedial measures needed	of Key assumptions of and risks that affect attainment of the objectives
Rudraprayag	UK/UEAP- T(GMVN)/DDN/04 Construction of Hybrid Huts in Rudraprayag district of Garhwal Region.	Construction of Hybrid Huts (8 Rooms)at one location in Rudraprayag, Garhwal	Retaining wall work is in progress.		Strict application mitigation measures	of anticipated at present
Chamoli	UK/UEAP- T(GMVN)/DDN/05 Construction of Hybrid Huts in Chamoli district of Garhwal Region	Construction of hybrid huts (32 Rooms) at 5 locations in Chamoli, Garhwal Region.	Pandukeshwar- Hill cutting work & Excavation in foundation work in 1st & 2nd Block is in progress. Auli –Fixing of wall, floor and roof panel is inprogress. Joshimath- Erection of Wall, Roof & Floor Panel is in progress	As the work is in initial stage, no change of work is anticipated.	Strict application mitigation measures	No risk present

Key assumptions and risks that affect attainment of the objectives			No risk anticipated at present
of of			of
Fulfillment objectives-Type remedial measures needed			Strict application mitigation measures
Expected changes from approved scope			
What type of works continued at present	Deval –Fixing of wall, floor and roof panel is in progress.	Lohjung -Breast wall & retaining wall work are in progress.	Tilwara: Erection of LGFS Structure in remaining one hut is in progress. Construction of retaining wall is in progress. Jakholi: Erection of Wall, Roof & Floor Panel is in progress of wall LGFS Structure is under
Listing of works under the package			Construction of LGFS huts single/duplex, Multipurpose Hall and Night shelter along with site development at 6 locations.
Sub-projects Components (Package No.)			uK/UEAP- T(GMVN)/DDN/06 Construction/Reconstruction of Tourism Assets in LGFS Structure in Various Locations at Rudraprayag District, Garhwal Region.
Locations			Rudrprayag

Locations	Sub-projects Components (Package No.)	Listing of What type works under continued the package present	of wor	ks Expected at changes from approved scope	Fulfillment of Key objectives- assumed and remedial that measures of antain needed of objectives of objectives	ō ō	of Key assumptions of and risks that affect attainment of the
			Sonprayag: NIL				
	8		Triyuginarayan: Erection of LGFS structure is in progress				
			Gaurikund: Erection of LGFS Structure				
			and construction of retaining wall work is in progress.				

F. Compliance of Safeguard Loan Covenants

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

Serial no. as per loan agreement	Program Specific Covenants	Status / Issues
Environment		
9	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 (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 Report.	Under compliance Documents are prepared by complying all relevant State and National Laws, Safeguard Policy Statement (SPS 2009) of ADB, Environment Assessment Review Framework (EARF). Initial Environmental Examination (IEE), Environment Management Plan (EMP) report prepared and approved by ADB. In case of any change of scope and locations IEE will be revised. All measures and requirements as prescribed in IEE and EMP will be considered during implementation. Corrective or preventive action plans which will be reflected in Environment Monitoring Report and project implementation authority will be taken care.
	al Resources to Implement	
Safeguards Require	ments	
12	The Borrower shall ensure or cause the EA and relevant IA to ensure (a) that all necessary budgetary and human resources to fully implement the EMMP as required, are made available; and (b) One official has been designated to supervise implementation of the EMMP at IA-Tourism Sector Subprojects.	Under compliance Budgetary provisions have been included in EMPs One officer will be designated to supervise implementation of the EMMP at IA-Tourism Sector Subprojects.
Safeguards – Relate	d Provisions in Bidding	
	a	

	nd Works Contracts	
13	Borrower shall ensure or cause the EA and each IA to ensure that all	Under compliance
	bidding documents and contracts	
	for Works contain provisions that	
	·	
	require contractors to:	(-) A
	(a) comply with the measures and	(a) Approved IEEs, EMPs and
	requirements relevant to the	RPs are attached in Bidding
	contractor set forth in the EIA/IEE,	documents.
	the EMMP, the RPs and any IPP	In case of any change of scope
	(to the extent they concern	revised IEEs, EMPs will be
	impacts on affected people during	prepared and corrective
	construction), and any corrective	measures will be disclosed to
	or preventative actions set out in a	contractor and same will be
	Safeguards Monitoring Report;	reflected in the "Environmer
	Careguards Monitoring Report,	
		Monitoring Report"
	(b) make available a budget for all	(b) All IEEs indicate budgetar
	such environmental and social	provisions for implementation
	measures:	EMPs
	mossures,	2 0
	(c) provide the relevant IA with a	(c) With the development of su
	written notice of any unanticipated	project and implementation, i
	environmental, resettlement or	case of additional impacts/risk
	indigenous peoples risks if any, or	due to change in scope/are
	impacts that arise during	that will be reflected in th
	construction, implementation or	revised IEEs, EMPs an
		· ·
	operation of the project that were	Environment Monitoring Repo
	not considered in the EIA/IEE, the	and accordingly proje
	EMMP, and the RP or the IPP if	Executing Agency will inform the
	any;	Construction Agency for takir
		relevant corrective measures.
	(d) adequately record the condition	(d) Haul roads will be marke
	of roads, agricultural land and	properly (by avoiding residence
	other infrastructure prior to	and agricultural land) before
	starting to transport materials and	commencement
	construction; and	transportation of materials.
	(e) fully reinstate pathways, other	(e) Pathways, land which a
	local infrastructure, and agricultural	likely to be affected for a sho
	land to at least their pre-project	period during implementation
	condition upon the completion of	the sub project will be restore
	construction.	by concerned construction
	GONIGH GORGIN.	'
		1
		agency before acceptance the work. Restoration status w be reflected in post construction

		monitoring report
Safeguards Monitori		
14	The Borrower shall ensure or cause the EA and each IA to	Under compliance
	ensure the following: (a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;	(a) This is 2 nd semi-annual Environment Monitoring Report, prepared for the period Jan to June 2015. Next semi-annual report is due on 31 st December 2015.
	(b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE/EIA, the EMMP, the RPs or any IPP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and	(b) With the development of project and implementation, in case of additional impacts/risks due to change in scope/area, will be reflected in revised IEEs, EMPs and accordingly Executing Agency (EA) will inform the ADB along with corrective action plan which will be reflected in the Monitoring Report.
	(c) report any breach of compliance with the measures and requirements set forth in the EMMP, the RPs or any IPP promptly after becoming aware of the breach.	(c) 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 List of Inv	estments	
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.
Labor Standards		
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	Complied in document and to be complied during implementation Provision are included (as per EMP & BID document) to carry out HIV/AIDS awareness programs for construction

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 for those safetv measures employed during construction; and (ii) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for egual 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.

contractor, application of all relevant labour laws for health and safety including child labour law and engagement of local labours (preferably from economically backward group) covering women labours.

In case of any breach of provision, necessary corrective measures as per contract clauses shall be taken.

All activities including awareness program will be reflected in "Monitoring Report".

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) Kumoan Mandal Vikas Nigam, KMVN (in district Bageshwar and Pithoragarh) and Garhwal Mandal Vikas Niga, GMVN (in district Uttarkashi, Chamoli and Rudraprayag) 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 GMVN & KMVN as implementing agency and implemented through its Field PIU's supported by DSC (also working as Engineer) till mid of august after DSC was terminated and individual consultant was appointed and overall management support shall be provided by PMU, UEAP.
- The Safeguard Staff of UEAP SDMA (EA) in PMU & IA will monitor the implementation of environmental covenants with assistance of individual consultant.
- 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 individual Environmental consultant; and it would guide the IA and the civil works contractors in this regard. Individual Environmental consultant 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 individual Environmental consultant within 48 hours along with the details of action taken to redress the grievance. The FPIU shall immediately try to resolve the issues and forward the details to the PIU / IA. If the action taken by Contractor and individual Environmental consultant 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 14th September 2006
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 Archaeologica 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 Geneticall Modified Organisms (Manufacture, Usimport Expert and Storage) Rules, 1999
10	Use and Management of Explosive	

- 15. Prominent acts are discussed below:-
- 16. The Environment Protection act, 1986 and the EIA Notification, 2006

 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 the Amendments / Revised EIA notification on 14th September 2006".and Year 2009.

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.

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.

- 18. The Noise Pollution (regulation and control) rules, 2000, as amended 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.
- 19. The Forest (Conservation) Act, 1980

The Forest (Conservation) Act, 1980 pertains to the cases of diversion of forest area and felling of roadside plantation. Depending on the size of the tract to be cleared, clearances are applied for at the following levels in the governments:

- If the area of forests to be cleared or diverted exceeds 20 ha (or, 10ha in hilly area), the prior permission of the Central Government is required;
- If the area of forest to be cleared or diverted is between 5 to 20 ha, the Regional Office of Chief Conservator of Forests is empowered to approve;
- If the area of forest to be cleared or diverted is below or equal to 5
 ha, the State Government can give permission;

- and If the area to be clear-felled has a forest density of more than 40%, permission to undertake any work is needed from the Central Government, irrespective of the area to be cleared.
- 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. Environmental compliance status for the running project is enclosed in Annexure 1.

Table 4: Present Status of Environmental, Forest & other clearances (Till December 2015)

December 2015)				
Work (Package No.)	Applicable Legislation/ Type of clearance	Subjec t / Issue	Clearan ce given by and date	Remarks/ Action needed
1- UK/UEAP-T(KMVN)NTL/01(R2) Construction of FRP Huts in Pithoragarh district of Kumaon Region. Construction of 100 Prefabricated Fiberreinforced Plastic (FRP) at 16 different location in District Pithoragarh of Kumaon region. 2- UK/UEAP-T(KMVN)/NTL/02(R2) Construction of FRP and Hybrid Huts in Bageshwar of Kumaon Region. Construction of 45 Prefabricated Fiberreinforced Plastic (FRP) at 9 locations.	1974 AIR (Prevention and Control of Pollution) Act, 1981 The Water (Prevention and Control of Pollution) Act 1974. The Noise Pollution (regulation and control) rules		During the preparati on of IEE and EMMP it was observed that no statutory and legislativ e clearanc e is required.	 Till date none of the packages under Tourism sector (UEAP) require forest clearances under The Forest (Conservation) Act, 1980 & also does not require Consent to Operate under Water (Prevention and Control of Pollution) Act, 1974 and amendments. Till date none of the subproject under UEAF falls within protected area and required Environmental Impact Assessment under "The Environmental Impact Assessment Notification, 1994 and the Amendments Revised EIA notification on 14th Septembe 2006"and Year 2009.

Work (Package No.)	Applicable Legislation/ Type of clearance	Subjec t / Issue	Clearan ce given by and date	Remarks/ Action needed
3- UK/UEAP- T(GMVN)DDN/03- Construction of FRP and Hybrid Huts in Uttarkashi, Gharwal				CTE/CTO does not required under these projects because they not required any HMP
Region. Construction of FRP/ Hybrid huts (21Rooms) at 6 locations in Uttarkashi, Garhwal Region. 4- UK/UEAP- T(GMVN)/DDN/04 Construction of Hybrid Huts in Rudraprayag district of Garhwal				 During implementation of project PUC for vehicles, Labour License, Workmen compensation, land owner consent shall be obtained and Safety measures, Muck disposal, Environmental monitoring data required will be carried
Region. Construction of Hybrid Huts (8 Rooms)at one location in Rudraprayag, Garhwal Region				out as per agreed EMMP.
5- UK/UEAP- T(GMVN)/DDN/05 Construction of Hybrid				All the provision of EMMP and contractual stipulation with respect to environment.
Huts in Chamoli district of Garhwal Region. Construction of 32 hybrid huts at 5 locations 6- UK/UEAP-				safeguards are being implemented. Contractors have been directed to submit mandatory statutory clearances /
T(GMVN)/DDN/06 Construction/Reconstruction of Tourism Assets in LGFS Structure in Various Locations at Rudraprayag District, Garhwal Region.				documents as required. Implementation of the project will not have any bearing on ecology and environment of the locality. Since the structure will be
Construction/Reconstruct ion of Tourism Assets in LGFS Structure in Various Locations at Rudraprayag District, Garhwal Region				constructed in vacant Tourism Department land, Revenue land, government lands it will not involve any displacement of people or disruption of any

Work (Package No.)	Applicable Legislation/ Type of clearance	Subjec t / Issue	Clearan ce given by and date	Remarks/ Action needed
				economic activity. All the infrastructure units are proposed to be constructed outside ecological sensitive area. The design and
				constructions are consistent with the surrounding landscape. The construction activity will involve only minor building foundation excavation which will be filled up with soil after the construction. The project will not influence the flora or fauna of the locality in any way

IV. IMPLEMENTATION STATUS OF ENVIRONMENT MEASURES

23. Field activities in both Garhwal region under GMVN and Kumaon region (KMVN) have started but the physical progress is in different stages. 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 (31st December 2015)

Location	Name of Sub Project	EMP being Implemented (Yes / No)	Overall Status of EMP Implementation (Excellent/Satisfactory /Partially Satisfactory/Below Satisfaction/Poor/Very Poor)	Actions Proposed or continued/Addit ional Corrective Measures Required
Pithoragarh	UK/UEAP- T(KMVN)NTL/01(R2) Construction of 100 Prefabricated Fiber- reinforced Plastic (FRP) at 16 different location in District Pithoragarh of Kumaon region.	Yes	Satisfactory	✓ Labour licence applied & workmen compensati on obtained ✓ Collection of PUC certificate ✓ Complete use of PPE ✓ Labour camp to be established ✓ Safety caution tape not in use properly ✓ Arrangeme nt of First aid box
Bageshwar	UK/UEAP- T(KMVN)/NTL/02(R2) Construction of 45 Prefabricated Fiber- reinforced Plastic (FRP) at 9 locations in district Bageshwar	Yes	Satisfactory	✓ Labour licence obtained ✓ workmen compensati obtained ✓ Collection of PUC certificate ✓ Complete

				use of PPE ✓ Labour camp to be established ✓ Safety caution tape not in use properly ✓ Arrangeme nt of First
				aid box
Uttarkashi	UK/UEAP- T(GMVN)DDN/03- Construction of FRP/ Hybrid huts (21Rooms) at 6 locations in Uttarkashi, Garhwal Region.	Yes	Satisfaction	✓ Labour licence & workmen compensati on ✓ Collection of PUC certificate ✓ Complete use of PPE ✓ Labour camp to be established ✓ Safety caution tape not in use properly ✓ Arrangeme nt of First aid box
Rudraprayag	UK/UEAP- T(GMVN)/DDN/04 Construction of Hybrid Huts (8 Rooms)at one location in Rudraprayag, Garhwal Region	Yes	Satisfaction	✓ Labour licence & workmen compensati on ✓ Collection of PUC certificate ✓ Complete use of PPE ✓ Labour camp to be established ✓ Safety caution tape not in use properly

				✓ Arrangeme nt of First aid box
Chamoli	UK/UEAP- T(GMVN)/DDN/05 Construction of hybrid huts (32 Rooms) at 5 locations in Chamoli, Garhwal Region	Yes	Satisfaction	✓ Labour licence & workmen compensati on ✓ Collection of PUC certificate ✓ Complete use of PPE ✓ Labour camp to be established ✓ Safety caution tape not in use properly ✓ Arrangeme nt of First aid box
Rudraprayag	UK/UEAP- T(GMVN)/DDN/06 Construction/Reconstruction of Tourism Assets in LGFS Structure in Various Locations at Rudraprayag District, Garhwal Region	Yes	Satisfaction	✓ Labour licence & workmen compensati on ✓ Collection of PUC certificate ✓ Complete use of PPE ✓ Labour camp to be established ✓ Safety caution tape not in use properly ✓ Arrangeme nt of First aid box

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 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 EMMP.
- 26. Base line air and noise quality monitoring will be carried out at working areas as per scope of work. Base line monitoring format of ambient air quality data is presented in **Table 6**.
- 27. In case of involvement of water source as working components water quality monitoring will also be conducted at project locations.
- 28. "During construction" monitoring will be carried out as per Environment Management and Monitoring Plan.

VI. MAJOR PROJECT ISSUES AND PROBLEMS ENVIRONMENTAL CONTEXT

29. Field activity of the Garhwal sub-projects and Kumaon sub-projects was started. Till date, no major issues and problems have been encountered with, at the sub project locations.

VII. CONSULTATIONS AND RECOMMENDATIONS ENVIRONMENTAL CONTEXT

30. For protection of local environment during construction phase, application of mitigation measures will be done as per specified EMMP. 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

31. 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.
- 32. 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 Individual Environmental Consultant 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.
- 33. Besides GRCs have been formulated in each district of Uttarakhand State (Annexure-5.) to resolve the complaints related to project implementation.

IX. ISSUES AND ACTION PLAN

- 34. Tourism is a one of the fastest growing industries and a major driver of economic growth and livelihood promotion in Uttarakhand. The contribution of tourism to the State Gross Domestic Product is about 22.48%. The sector witnesses active participation of the private sector and the local host communities and is a major source of employment and income/revenue generation. Uttarakhand needs to be reconstruct and restore damaged tourism assets at important locations where large numbers congregate regularly in the name of tourism. Tourists must be dispersed throughout the state and across the year by promoting more tourism.
- 35. As a part of Tourism Restoration Drive, construction of FRP/Hybrid huts are proposed in the five disaster affected districts and to provide improved accommodation facilities to the tourist/pilgrims visiting this area. Thus construction of environmentally sustainable, affordable accommodation for tourists with eco-friendly material would help in bridging the gap in the shortage of accommodation in the State during the tourist season. Provision of affordable accommodation to tourists at various destinations in the form of cottages which are aesthetically and eco-friendly designed, taking into consideration the natural landscape of the area will be a boost for tourism sector.

- 36. 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.
- 37. 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	Continue on regular basis	Contractor in association with PIU and DSC	Continue process. Submission of monthly format
2	Health and Safety complete use of PPE	Complete use of PPE	Contractor	Continue process
3	Pollution Under control certificate	Collection of PUC for vehicle and equipment	Contractor	Continue process
4	Arrangement of labour camp/ rented house for contractor	Arrangement as per requirement	Contractor	Before starting of construction work
5	Restoration of the construction area	At earliest as possible	Contractor	-
6	Social relationship and public safety	Arrangement of safety tape and public consultation	Contractor	-
7	Training to workers	Regular tool box training for labourer Safeguard orientation training for contractor	Contractor, PIU, DSC	Continue process

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Package UKUEAP-(KMVN)NTL/01(R2)] Pithoragarh Construction of 100 Prefabricated Fiber-reinforced Plastic (FRP) at 16 different location in District Pithoragach of Kumaon region. UKUEAP-(KMVN)NTL/02(R2) Bageshwar Construction of 25 Prefabricated Fiber-reinforced Plastic (FRP) at 5 locations and 20 Hybrid huts and 4 locations in district Bageshwar UKUEAP-1(GMVN)DDN/03- Uttarkashi UKAUEAP-1(GMVN)DDN/03- Uttarkashi UKAUEAP-1(GMVN)DDN/03- Uttarkashi Garthwal fiber-reinforced Plastic (FRP) at 2 locations in district Uttarkashi of Garthwal region.	Clearance NR NR NR	Annexure 1: Wet Wet Cle Land Cle NR NR		Onment For Wild Life Act applicability NR NR	Permission Permission NR NR	Environment Forest and other Compliance (30th June, 2015) orest Wild Life Act Tree Cutting Permission from State National applicability NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR NR	Dec (30th June Consent for establishment of crusher from quarry material supplier NR	NR NR	Authorization NA NA NA	Ground Water Permission NR NR	AN AN AN	Environmental monitoring done Environmental monitoring done monitoring done monitoring done	
unclart-itomovaya Rudraprayag Construction of Hybrid Huts at Kanakchauri in Rudraprayag district of Gartiwal Region	NR	N.	N N	NR R	N.	N N	Ä	Ä	≨	ĸ K	R	Environmental monitoring done	
UK/UEAP-T(GMVN)/DDN/05 Chamoli Construction of Hybrid Huts in Chamoli district of Garhwal Region	N S	Ä	χ. Ω	NR	NR	N.	A.	뜻	Ā	품	쭚	Environmental monitoring done	
UK/UEAP-T(GM/VN)/DDN/06 Rudfaprayag Construction/Reconstruction of Tourism Assets in LGFS Structure Narious Locations at Rudfaprayag District, Garhwal Region	N.	ĸ.	R.	NR	NR	NR		¥	Ą	Ä	R.	Environmental monitoring done	

Annexure- Environmental Baseline Monitoring Data

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Ambient Air (

Pkg. No.	Date of Monitoring	Location	SPM (ug/m3)	PM ₁₀ (ug/m3)	SO ₂ (ug/m³)	NO ₂ (ug/m3)	CO (mg/m3)	£	오
UK/UEAP-T(KMVN)NTL/01(R2)	19,01.2016	Gala	48.3	73.3	12.3	106	N.D		
	15.09.2015	Nabhidhang	48.4	73.2	12.7	10.5	Z.D		
	15.09.2015	Kalapani	48.6	72.4	12.5	10.8	O.N.		
	15.09.2015	Malpa/Lamari	48.7	73.0	12.9	11.1	N.D		
	15.09.2015	Gunji	48.7	72.3	12.5	10.9	Ω̈̈́		
UK/UEAP-T(KMVN)/NTL/02(R2)	25.05.2015	Badīyakot	48.4	73.1	13.3	10.5	Ω̈̈́		
	14.09.2015	Jhoani	48.5	72.7	13.0	10.5	Ω̈́		
	25,05,2015	Supi	48.6	72.3	12.7	10,1	N.D		
UK/UEAP-IIGMVN//DDDN/03	24.06.2015	Purola	178.96	79.87	12.32	19.17	<200		
	24.06.2015	Phooichattí	171.87	78.98	12.71	18.91	<200		
	24.06.2015	Barkot	171.21	81.98	11.32	15.71	<200		
	24.06.2015	Harsil	170.18	75.76	12.13	15.87	<200		
	24.06.2015	Barso	171.84	82.78	12.78	18.79	<200		
	24.06.2015	Raithal	173,43	81.98	13.21	19.87	<200		
UK/UEAP-T(GMVN)/DDDN/04	24.06,2015	Kartikswarni	170.64	80.27	13.19	19.87	<200		
HK/HEAP-T/GM/NI/DDDN/05	24.06.2015	Lohiung	179.87	80.93	13.72	19.87	<200		
	24.06.2015	Deval	174.71	77.94	12.92	18.21	<200		
	24.06.2015	Pandukeshwar	172.13	78.73	12.91	19.87	<200		
	24.06.2015	Auli	168.93	70.13	11.91	16.87	<200		
	24.06.2015	Joshimath	181.72	83.19	14.19	19.87	<200		
IK/UFAP-TIGMVNI/DDDN/06	23.11.2015	Tilwara	53.2	77.8	15.3	12.1	N.D.		
	23.11.2015	Jakholi	53.4	77.5	15.6	12.3	N.D.		
	23.11.2015	Guptkashi	53.0	76.9	15.1	8.11	N.D.		
	23,11.2015	Sonprayag	52.9	76.7	15,1	8.11	N.D.		
	23.11.2015	Triyuginarayan	55.3	77.2	15.6	12.1	N.D.		
	23.11.2015	Gaurikund	53.6	77.5	15.5	12.4	N.D.		

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Water Analysis Results

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iype	Drinking	Drinking water	Drinking water	Drinking water	j Drinking water	Drinking	Drinking water	Drinking water	Ground	Phoolch Ground atti Water	Ground	Ground
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Нq	7.5	7.4	7.0	77	7.2	7.2	7.2	7.2	5.6	8.02	7.8 -	8.5
Tatal Hardness (mg/lt.)	174	170	169	165	167	165	165	167	44.0	218.0	4.19	34.0
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Total Alkanity (mg/it.)												
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ZOT) biloż evlosia lotot (mg/it.)	384	383	376	375	378	377	377	375	62.0	258.0	82.0	57.0
(Ca)									10.3	73.0	12.0	5.5
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Water Ground		Ground Water	Ground	Panduk Ground eshwar Water	Ground	Joshima Ground th Water	Drinking Water	Drinking Water	Drinking Water	Drinking Water
24.06.2015		24.06.2015	24.06.2015	24.06.2015	24.06.2015	24.06.2015	25.11.2015	25.11.2015	25.11.2015	25.11.2015
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1.08	12.0	11.0	16.4	12.7	23.6	20.9	99	19	- 33	-
2 2	<u>=</u>	nil	· · ·	便	Ē	77				
							0.78	0.75	0.77	0.77
54.0	42.0	52.0	106.0	48,0	65.0	58.0	375	380	378	380
14.0	4.0	12.7	28.5	7.9	8.7	6.0				
			-							
0.1>	61.0	0.1>	0'1>	0.1>	0.1>	0.1				

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25.11.2015	25.11.2015
Triyugi Drinking naraya Water n	Drinking Water
Triyugî naraya n	Gaunk Drinking und Water

Noise Analysis Results

		1		1	I motion					
Pkg. No.	Date of Monitoring	Location	5	רשמא						
UK/UEAP-T(KMVN)NTL/01(R2)	21.05.2015	Gala	41.0	42.7	40.2					
	10.09.2015	Nabhidhang	41.5	42.9	40.6					
	10.09.2015	Kalapani	43.5	44.8	42.5					
	10.09,2015	Malpa/Lamari	43.0	44.2	42.6					
	10.09.2015	Gunjj	43.0	44.3	42.6					
UKUEAP-T(KMVN)/NTL/02(R2)	20.05.2015	Badiyakot	42.0	43.2	41.5					
		Jhooni	41.5	42.8	40.6					
		Supi	41.5	43.5	40.1					
Pkg. No.	Date of Monitoring	Location	Lmin (dB(A)	L10 (dB(A)	L50 (dB(A)	L90 (dB(A)	Leq (dB(A)	Lmax (dB(A)	Leq-Day (dB(A)	Leq. Night (dB(A)
HK/HEAP-TIGMVN)/DDDN/03	24.06.2015	Purola	37.8	56.42	49.85	38.83	52.09	58.9	53.59	39.83
	24.06.2015	Phoolchatti	39.3	60.5	49.75	40.35	55.88	61.2	57.53	40.68
2	24.06.2015	Barkot	38.8	58.46	50.6	39.92	53.77	59.8	55.24	42.36
	24.06.2015	Harsil	36.9	57.87	47.5	38.9	23.60	58.9	55.19	42.23
	24.06.2015	Barso	38.9	63.23	48.55	40,33	58.74	8.73	60.43	41.61
	24.06.2015	Raithal	36.7	63.9	49.75	39.02	59.43	8.79	61.11	41.97
UK/UEAP-T(GMVN)/DDDN/04	24.06.2015	Kanakchauri	40.3	65.3	50.4	40.92	06.09	68.9	61.98	45.46
LIK/HEAP-T/GMVNI/DDDN/05	24.06.2015	Deval	37.2	58.72	51.95	39.17	54.95	6.09	56.39	43.26
	24.06.2015	Pandukeshwar	40.4	63.62	55.35	41.38	59.94	67.9	61.52	44.36
	24.06.2015	Auli	39.9	64.53	56.85	40.52	60.65	68.9	62.21	45.30
	24.06.2015	Joshimath	40.8	65.3	50.45	42.68	92'09	68.9	62.42	45.60
LIK/LIFAP_T/GMVNI/DDDN/06	18.11.2015	Tilwara	57.6	Ö.Z	N.D.	N.D.	58.8	60.3	N.D.	N.D.
	18.11.2015	Jakholi	56.8	Z.D.	N.D.	N.D.	57.5	58.5	N.D.	N.D.
	18.11.2015	Guptkashi	53.6	N.D.	N.D.	N.D.	54.0	55.1	N.D.	Ö.
	18.11.2015	Sonprayag	6.09	N.D.	N.D.	N.D.	62.0	63.6	N.D.	Ö.
	18.11.2015	Triyuginarayan	55.3	Ö.N	Ŋ.D.	N.D.	58.4	58.4	ď.	ď.
	18.11.2015	Gaurikund	59.2	N.D.	N.D.	N.D.	60.5	62.6	N.D.	N.D.

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Soil Analysis Results

goaq backage	1/03	laa/l	NAW.	9)I-°	IA∃U\	nk/	9. Т(GMV ИДД\{И	/N	- 4∀ 0 0 /	90/: (NA)	ew nk)1			-4 ∀3 1	WAM) NK\n	e)ī	
rocallon	Purola	Barkot	Raithal	Harsil	Barso	Phoolchatti	Kanakchauri	Joshimath	Auli	Pandukeshwar	Deval	Lohjung	Tiwara	Jakholi	Guplkashi	Sanprayag	Triyuginarayan	Talking.
to stad Monitoring	07.01.2015	07.01.2015	07.01.2015	07.01.2015	07.01.2015	07.01.2015	07.01.2015	07.01.2015	07.01.2015	07.01.2015	07.01.2015	07.01.2015	24.11.2015	24.11.2015	24.11.2015	24.11.2015	24.11.2015	24112015
enutato.M	15.54	17.89	17.89	17.89	14.32	16.83	16.73	17.32	13.43	14.73	15.87	13.87						
Specific Gravity											V							
Water Holding Capacity																		
PH (10% Aqueous	7.03	7.32	5.1	8.12	66.9	7.87	7.91	8.11	7.32	7.01	8.32	7.93	9.5	9.6	9.6	9.6	2.6	9.5
Alkalinity																		
lron (Fe)																		
(CaCO3)																		
(Wacoa)																		
Mitrates (NO3)																		
Chlorides (Ci)																		
Połassjom (K)	189.72	201.93	210.4	301.72	211.3	137.4	187.32	199.92	217.72	187.39	290.87	198.72	09:0	0.65	99.0	59.0	0.63	0.44
(oN) mulbo\$	208.39	312.92	339.7	287.32	187.2	209.3	289.73	387.89	381.39	389.39	173.21	312.42	N.D.	Z,	N.D.	N.D.	N.D.	ď.
\$ulphate (\$04)																		
Electrical Conductivity (EC)																		
Carpon	2.09	1.98	1.87	2.11	2.01	1.87	2.11	2.21	2.21	2.93	1.32	2.09	0.24	0.25	0.26	0.26	0.25	90.0
read (Pb)	Ð.1	-9	Ą	6	1.0	£.0>	40.1	6	é.	-0°	₽. 1.	<u>6</u>	ď. Ž	G.N.	N.D.	N.D.	ď. V.D.	2
Mitrogen (N)													0.46	0.48	0.47	0.44	0.42	77.0
evnoriqeoriq (4)	9.32	19.87	13.73	25.73	30.73	21.73	41.32	20.73	28.73	31.23	19.87	41.25	0.063	0.066	0.062	0.062	090.0	7700
NPCI													0.044	0.043	0.041	0.041	0.042	0.043

rocallon	Galo	Nabhidhang:	Kolapani	Malpa/Lamari	Gunji	Badiyakot	Jhooni	Sopi (KMVN	
to etad gnitotinoM	27.05.2015		16.09.2015		16.09.2015	24.04.2015	15.09.2015		26.05.2015
Total organic carbon, per cent by welght	0.27	0.24	0.26	0.26	0.26	0.25	0.27	0.25	
Total Nitrogen, per cent by weight	0.46	0.46	0.47	0.48	0.44	0.46	0.45	0.47	
Total phosphoro cent by weight	0.062	0.063	0.063	0.065	0.063	0.062	0.062	0.061	
Sodium chloride (as NaCL),	0.048	0.045	0.044	0.047	0.046	0.048	0.044	0.046	
µd	9.3	9.3	9.3	9.4	9.2	9.2	9.1	9.2	
% '(qd sp.) ppəŋ	Not detected								
Lotassium	0.65	0.61	0.65	0.66	0.64	0.64	0.60	0.60	

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

Project: Tourism Package No:
Progress:
Physical progress

Sr. No.	Field /Issue	Mitigation Activities and	Parameters	1	Responsible	Monitoring	Responsible	Date of	
		Method	monitored	Location	for Mitigation	Method	Monitoring	Monitoring	Status/ Explanation
Site Es	Site Establishment and Preliminary Activities ph	iminary Activities phase	94						
_	Legislation, Permits and In all instances, EA,	In all instances, EA, IA							
	Agreements	contractors and consultants							
		must remain in compliance							
		with relevant environmental							
		legislation of India at the							
		national, state and local							
		levels.							
2	Education of site staff on	Ensure that all site personnel							
	general and Environmental	have a basic level of							
	Conduct	environmental awareness							
		training.							
		Staff operating equipment							
		(such as excavators, loaders,							
		etc.) shall be adequately							
		trained and sensitized to any							
		potential hazards associated							
		with their task							
		No operator shall be							
		permitted to operate critical							
		items of mechanical							
		equipment without having							
		been trained by the							
		Contractor.							
		All employees must undergo							
		safety training and wear the							

Field /Issue Mitigation Method	necesi		Social	being	adjace	the sit	to be	followi	• No	pres	• Mea	nois	relat	CODE	• Con	mak	prov	nddo	alter	firew	nse	toile	• Tres	moo Com	adjo	forbol	• Other	roas	shall	по	Nov	Q Q	pote
ition Activities and	necessary protective clothing	ment. neral recard for the	social and ecological well-	of the site and	ent areas is expected of	te staff. Workers need	made aware of the	following general rules:	 No alcohol / drugs to be 	present on site;	Measures for abatement of	se due to construction	related activities and	conduct of work force.	Construction staff are to	make use of the facilities	provided for them, as	opposed to ad-hoc	rnatives (e.g. use of	firewood forcooking, the	use of surroundings as a	toilet facility are forbidden)	Trespassing on private /	iai T	adjoining the site is	forbidden	 Other than pre approved 	security staff, no workers	shall be permitted to live	on the construction site.	worker may be forced	do work that is	potentially dangerous or
Parameters monitored																																	
Location																																	
Responsible for Mitigation																																	
Monitoring Method																																	
Kesponsible for Monitoring	,																																
Date of Monitoring																																	
Compliance Status/ Explanation																																	

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		trained to do.							
n	Social Impacts	Open liaison channels shall be established between the Site owner, operator, the contractors and interested and affected parties such that any queries, complaints or suggestions pertaining to environmental management aspects can be dealt with quickly and by the appropriate person(s).							
		A communications strategy is of vital importance in terms of accommodating traffic during road closure. The road closure together with the proposed detour needs to be communicated via advertising, pamphlets, radio broadcasts, road signage, etc.							
		Provide sign boards for pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.							
		Storage facilities, elevated tanks and other temporary structures on site shall be located such that they have as little visual impact on local residents as possible.							

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date or Monitoring	Compilance Status/ Explanation
		In areas where the visual							
		environment is particularly							
		(e.g.							
		commercial/ tourism							
		routes) or privacy							
		concerns for surrounding							
		buildings exist, the site							
		may require screening.							
		This could be in the form							
		of shade cloth, temporary							
		walls, or other suitable							
		materials prior to the							
		beginning of construction.			×				
		Special attention shall be							
		given to the screening of							
		highly reflective materials							
		on site.							
4	Lack of sufficient planning	Design will include provisions		,					
	to assure long term	for ensuring effective							
	ים סומים מים	maintenance and protection							
	protection of the assets	of the assets created so as							
	created and the	to ensure the long term							
	ral/archaeolog	sustainability.							
	character of the								
Pre con	Pre construction/ Design phase								
ς.	Layout of components to	The project components siting							
	avoid impacts on the	will avoid impacts on the							
	aesthetics of the site	ite, ensu							
		minimal impacts and in							

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or. No.	rield /issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		compliance with statutory and regulatory requirements.							
Ø	increased storm water runoff from alterations of the site's natural	Design of proposed components will enable efficient drainage of the							
	drainage patterns due to landscaping, excavation works, and addition of paved surfaces	sites and maintain natural drainage patterns.							
ν	Selection of materials and construction technologies, if not carefully chosen, will adversely impact the aesthetic appeal of the destinations Socio cultural resources- Ground disturbance can uncover and damage archaeological and historical remains	Selection of materials will be from approved sources and construction technologies proposed will strictly conform to the Uttarakhand architecture. Any new landscaping elements will only utilize native species. Material selection would be done keeping in view that no asbestos (except as allowed), and CFC is used. Consult Archaeological Survey of India (ASI) and/or concerned Dept. of Uttarakhand Govt. as applicable to obtain an expert assessment of the archaeological potential of							
		the site; Consider alternatives if the							

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	for Monitoring	Monitoring	Status/ Explanation
+-		site is found to be of medium or high risk; and							
		Š							
-		by the construction							
		any excavation work, to							
		ensure that any chance							
		finds are recognized and							
		measures are taken to							
		ensure they are protected							
_ "	Integration of energy efficiency and energy	The detailed designs for the sub-project							
J	conservation programs	components shall ensure							
	ombonents	sustainability principles,							
_		including energy efficiency,							
_		resource recycling, waste							
		minimization, rainwater harvesting etc.							
+-	Site clearance activities,	-							
	including delineation of	_							
_	construction areas	after taking statutory							
_		permissions in required out							
_		such that the damage of							
_		_							
		than those identified for							
-		cutting is minimum.							

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		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.					
		permanent works or necessary temporary works shall be removed with prior approval from the Environmental Expert of DSC.					
		necessary temporary works shall be removed with prior approval from the Environmental Expert of DSC.					
		works shall be removed with prior approval from the Environmental Expert of DSC.					
		with prior approval from the Environmental Expert of DSC.					
		the Environmental Expert of DSC.	Ħ				
		of DSC.					
		All areas used for					
		temporary construction					
_		operations will be subject					
		to complete restoration to					
		their former condition with					
		appropriate rehabilitation					
		procedures as per the					
		rehabilitation plan					
_		prepared by the contractor					
	7	and approved by the EE of					
		DSC.					
11 Slope protection ne reservoir and intake well	œ .	Retaining wall will constructed near reservoir and intake well					
nstruct							Τ
12 Construction Camps -		Siting of the construction					Т
Location, Selection,	_	camps shall be as per the					
Design and Layout		guidelines below and					
		details of layout to be					
		approved by DSC.					
		Construction camps shall					
	Ī	not be proposed within					
		500 m from the sensitive					

Sr. No.	Field //ssue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Kesponsible for Monitoring	Monitoring	Status/ Explanation
		receptors, nearest				Ц			
		settlements to avoid							
		conflicts and stress over							
		the infrastructure facilities							0
		with the local community.							
		Location for stockyards							
		for construction materials							
		shall be identified at least							
		300 m away from							
		watercourses.							
		Construction camps will							
		be located away from							
		settlements and drainage							
		from and through the							
		camps will not endanger							
		any domestic or public							
		water supply.							
		Construction camps							
) sanitat							
		facilities must be							
		adequately drained.							
		Sewage management							
		though septic tanks and							
		solid waste management							
		though local ULB system							
		or other alternate							
		measures.							
13	Drinking water	t supply of c							
	availability	potable water to be			i.				

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Compliance Status/ Explanation		
Date of C Monitoring S		
Responsible for Monitoring		
Monitoring Method		
Responsible for Mitigation		
Location		
Parameters monitored		
Mitigation Activities and Method	provided and maintained. The water quality shall be as per standard norms for drinking water. If the drinking water is obtained from an intermittent public water supply then storage tanks will be provided. The cleanliness of the storage tanks will be ensured and all measures to be taken to avoid any water contamination.	Pre-identified disposal location (identified by Confractor and approved by EE-DSC) shall 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. The Environmental Specialist of DSC. The Environmental Specialist of DSC shall approve these disposal sites after conducting a joint inspection on the site
Field /Issue		Waste disposal
Sr. No.		4

		T		
Compliance Status/ Explanation				,
Date of Monitoring		-		
Responsible for Monitoring				
Monitoring Method				
Responsible for Mitigation				
Location				
Parameters monitored				
Mitigation Activities and Method	with the Contractor. Wherever, possible Solid waste management shall be through local ULB system or other afternate measures. Contractor shall ensure	that waste shall not be disposed off near the water course or agricultural land, Orchards and Natural Habitats like Grasslands.	Stockpiling of construction materials does not impact obstruct the drainage and Stockpiles will be covered to protect from dust and erosion.	Contractor shall finalize the quarry for procurement of construction materials after assessment of the availability of sufficient quality and other logistic arrangements.
Field /Issue			Stockpiling of construction materials	Quarry operations
Sr. No.			15	9

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or. No.	Field /Issue	Mitigation Activities and	Parameters monitored	Location	Responsible	Monitoring	Responsible for	Date of Monitoring	Compliance Status/
					ror imitigation	метпод	Monitoring	,	Explanation
		obtain materials from							
		approved quarries only							
		after consent of the							
		Department of Mines and							
		Geology and District							
		Administration.							
		Adequate safety							
		precautions will be							
		ensured during							
		transportation of quarry							
		material from quarries to							
		the construction site.							
		Vehicles transporting the							
	7.	material will be covered to							
		prevent spillage.							
17	Arrangement for	The Contractor shall use							
	construction water	ground/surface water as a							
		source of water for the		,					
		construction with the							
		written consent from the					0		
		concerned Department.							
		To avoid disruption/							
		disturbance to other water							
		users, the Contractor shall							
		extract water from fixed							
		locations and consult							
		DSC & line agencies							
		before finalizing the							
		locations.							

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		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.							
85	Soil/Land Erosion	Slope protection measures will be undertaken as per design to control soil erosion.						34	
19	Water Pollution from Construction Wastes	The Contractor shall take all precautionary measures to prevent entering of wastewater into streams, water bodies or the irrigation system during construction Contractor shall not wash his vehicles in river/stream water and							

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		shall not enter riverbed nearby the water resource area for that purpose.							
		incording in in the incord							
20	Water Pollution from	The Contractor shall							
	Fuel and Lubricants	ensure that all							
		construction vehicle							
		parking locations, fuel/							
		lubricants storage sites,							
		vehicle, machinery and							
		equipment maintenance							
		and refueling sites shall							
		be located at least 300 m							
		away from rivers/streams							
		and irrigation canal/ponds							
		ifany							
		Contractor shall ensure							
		that all vehicle/machinery							
		and equipment operation,							
		maintenance and							
		refueling shall be carried							
		out in such a manner that							
		of fuels							
		lubricants does not							
		contaminate the ground.							
		Wastewater from vehicle							
		parking, fuel storage							
		areas, workshops, wash							
		down and refueling areas							
		shall be collected and							
		senarated through an oil							

	Sr. No. Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation	
		interceptor before discharging it on land or								
		into other treatment								
		system as per specified								
		standards and UEPPCB								
		and ULB norms if any.								Т
21	Soil Pollution due to fuel	The fuel storage and								
	and lubricants,	vehicle cleaning area will								
	construction waste	be stationed such that								
		spillage of fuels and								
	i	lubricants does not								
		contaminate the ground.	1							
		All pollution parameters								
		will be monitored as per								
		monitoring plan.								
		Wastewater from vehicle								
		parking, fuel storage								
		areas, workshops, wash			8					
		down and refueling areas								
		shall be collected and								
		separated through an oil								
		interceptor before								
		discharging it on land or								
		into other treatment								
		system.								T
22	Soil Pollution due to fuel	The fuel storage and								
	and lubricants,									
	construction waste	spillage of fuels and								
		lubricants does not								

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Compliance Status/ Explanation		e	
of toring			
ponsible			
Monitoring Res Method Mor	393		
Responsible M for Mitigation M			
Location			
Parameters monitored			
Mitigation Activities and Method	contaminate the ground. All pollution parameters will be monitored as per monitoring plan. Wastewater from vehicle parking, fuel storage areas, workshops, wash down and refueling areas shall be collected and separated through an oil interceptor before discharging it on land or into other treatment system	The Contractor will take every precaution to reduce the levels of dust at construction site. Regular sprinkling of water and Stockpiles of soil will be kept covered in such a manner to minimize dust generation.	All vehicles, equipment and machinery used for construction shall confirm to the relevant Bureau of India Standard (BIS) norms. The discharge standards promulgated under the Environment Protection Act, 1986 shall
Field /Issue		Generation of dust	Emission from Construction Vehicles, Equipment and Machinery
Sr. No.		33	24

Compliance Status/ Explanation		ž.																											
Date of Monitoring																													
Responsible for Monitoring																													
Monitoring Method																													
Responsible for Mitigation																													
Location																													
Parameters monitored																													
Activities and	dhered to.	The use of silent/quiet	compliant with	India ambient noise	standards and standards	for	manufacturers shall be	encouraged in the sub			maintain a record of PUC	for all vehicles and	used during	the contract period which	shall be produced for	whenever		Contractor shall	that all	Construction equipment	used in construction shall	strictly conform to the	CPCB noise	standards and all Vehicles	and equipment used in	construction shall be fitted	with exhaust silencers.	At the construction sites	noisy construction work
Mitigation	be strictly adhered to.	The use	equipment	India ar	standards	specified	manufactu	encourage	Project.	The Contractor	maintain a	for all	machinery	the contra	shall be	verification	required.	The Ca	confirm	Construction	used in co	strictly co	MoEFCC/CPCB	standards	and equip	constructio	with exhau	At the co	noisy cor
Field /Issue																		Noise Pollution											
Sr. No.																		25											

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Compliance Status/ Explanation		
Date of Monitoring		
Responsible for Monitoring	**	
Monitoring Method		
Responsible for Mitigation		
Location	c	
Parameters monitored		
Mitigation Activities and Method	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. Noise limits for construction equipment used in this project will be in conformity to the BIS/SPCB/CPCB standards Regular monitoring of ambient noise levels to ensure compliance to Uttarakhand Environment Protection &Pollution Control Board standards.	Workers Employed on mixing cement, lime mortars, concrete etc., will be provided with protective footwear and protective masks and goggles. Workers, who are engaged in welding works, will be provided
Field /Issue	NC	Material Handling at Site
Sr. No.		56

Sr. No.	Field /Issue	>	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation	
G		with welder's protective eye-shields.								
		Workers engaged in stone breaking activities will be								
		with prote								
		goggles, masks, and clothing.								
		The use of any toxic								
		II be strict								
		accordance with the								
		er s								
		and applicable regulations.								_
		nee								
		given at least 6 working								_
		days' notice of the				3				
		proposed use of any								_
		chemical. A register of all								
		toxic chemicals delivered								_
		to the site will be kept and								_
		maintained up to date by								
22		uid Collidation.								
7	Disposal of	The Contractor shall								
	Constituction waste) Debris / Cut Material	of the construction waste								
		will be ensured in the pre-								
		identified disposal				13				
		locations. In no case, any								
		construction waste will be								_
		disposed around the								

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monitored Location for Mitigation Method Monitoring Monitoring	Sr. No.	Field /Issue	Mitigation Activities and	Parameters		Roenoneiblo	Monitoring	Responsible	Date of	Compliance	
Safety Measures During Personal Protective Construction Equipment for workers on tequipment for workers on workers during handling of materials at site will be taken up. The Contractor has to compty with all regulations regarding safe scafety in all adders, working platforms, gangway, stainwells, excavations, temphas and safe means of entry and egress. The Contractor has to compty with all regulations for the safety of workers. Precaution will be taken to prevent danger of the workers from fine, etc. First aid treatment will be made available for all injuries likely to be sustained during the course of work. Congrainze periodic usits by				monitored	Location	for Mitigation	Method	for Monitorino	Monitoring	Status/ Explanation	
Safety Measures During Personal Construction Construction Equipment for where and safety measures buring of materials at staken up. The taken up. The take								n			
Safety Measures During Equipment for where the project and safety measu workers during of materials at staken up. The taken up.			indiscriminately.								
Equipment for workers the project and adequa safety measures workers during handli of materials at site will taken up. The Contrachas to comply with regulations regarding standed working platform gangway, stairwe excavations, trenches a safe means of entry a egress. The Contractor has comply with regulations for the safe of workers. Precauti will be taken to prevedanger of the worke from fire, etc. First a treatment will be ma available for all injuri likely to be sustain during the course of wo Contractor shall all organize periodic visits	28	Safety Measures During									
the project and adequate safety measures for workers during health be taken up. The Contractor has to compty with all regulations regarding safe scaffolding. Iadders, working platforms, gangway, stainvells, excavations, trenches and safe means of entry and egress. The Contractor has to compty with all regulations for the safety of workers. Precaution will be taken to prevent danger of the workers from fire, etc. First aid treatment will the made available for all injuries likely to be sustained during the course of work. Contractor shall also organize periodic usits by		Construction	Equipment for workers on								
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likely to be sustained during the course of work. Contractor shall also organize periodic visits by			available for all injuries								
during the course of work. Contractor shall also organize periodic visits by			likely to be sustained								
Contractor shall also organize periodic visits by			during the course of work.								
organize periodic visits by			Contractor shall also								
			organize periodic visits by								

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a qualified registered medical practitions to the site and workers camp. Contact information of Docation of first and box shall be displayed in appropriate language both at work site and workers camp. The Contrador will conform to all anti-malaria instructions given to him by the Engineer. The Contractor will also ensure that the interests of the community are preferably not disturbed. and if unavoidable then disturbed to the minimum. Provide and safety information in and around the construction site and prevent inclosal people antering into the construction site.	30000	monitored	Location	Responsible for Mittigation	Method	for Monitoring	Monitoring	Status/ Explanation
Closein of Construction	a qualified registered							
Closein of Construction	medical practitioner to the							
Construction	site and workers camp.							
Closein of Construction	information							
Closein of Construction								
Closein of Construction	location of first aid box							
Closein of Construction								
Closein of Construction								
Closein of Construction	both at work site and							
Clearing of Construction	workers camp.							
Closein of Construction								
Closeing of Construction	conform to all anti-malaria							
Closein of Construction	instructions given to him							
Closeing of Construction	by the Engineer.							
Clearing of Construction	The Contractor will also							
Clearing of Construction	ensure that the interests							
Clearing of Construction	of the community are	Ô						
Closeing of Construction	preferably not disturbed,							
Closeing of Construction	and if unavoidable then							
Closeing of Construction	disturbed to the minimum.							
Clearing of Construction	Provide traffic							
Clearing of Construction	management personnel,							
Closeing of Construction	barricade, appropriate							
information in and the construction s prevent local entering into construction site.	signage and safety							
the construction sprevent local entering into construction site.	information in and around							
prevent local entering into construction site.	the construction site and							
construction site.	loca							
	into							
	construction site.							
	nestruction Contractor to prepare site							

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Sr. No.	Field /Issue	Activities a	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation	
	Restoration	approval by the Engineer. The plan is to be implemented by the contractor prior to demobilization. On completion of the works, all temporary structures will be cleared away, all rubbish burnt, excreta or other disposal pits or trenches filled in and effectively sealed off and the site left clean and tidy, at the Contractor's expense, to the entire satisfaction of the Engineer and facility owner.								
	Risk of archaeological chance finds	Strictly follow the protocol for chance finds in any excavation work; Request FPIU/DSC or any authorized person with archaeological field training to observe excavation; Stop work immediately to allow further investigation			27					

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Kesponsible for Monitoring	Monitoring	Status/ Explanation	
		if any finds are suspected; and Inform FPIU/DSC,								
		e any action tl								
		require ensuring its								
		situ.								
3	Conflict with locals	Contractor shall ensure				9.				
		that mostly the local								
		labourers are employed								
		and migratory laborer								
		shall be employed only in								
		case of unavoidable								
		circumstances.								П
32	Environment Safeguard	Contractor shall appoint								
	Officer	one full-time suitably								
		qualified and experienced								
		Environment and Safety								
		Officer who shall be								
		responsible for assisting								
		contractor								
		implementation of EMMP,								
		community liaising,								
		consultations with								
		interested/affected								
		parties, reporting and								
		grievance redressal on								
		day-to-day basis. This								
		environment and safety								
		officer will be at site till all								
		works related to the								

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Sr. No.	Sr. No. Field /Issue	Mitigation Method	Mitigation Activities and Method	Parameters monitored	Location	Responsible Monitoring for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	of Compliance 3 Status/ Explanation
		project	including							
		demobilization	tion are							
		completed.								

Annexure 3: Environmental Performance Fact Sheet

Status of environmental monitoring **esioN** Water ηİΑ Borrow areas (Y/N) Water Sprinkling (Y/N) Quarry (Y/N) LDebris/Muck Disposal sites (Y/N) Sanitation facilities such as Toilets (Y/N) Type of Labour Camps Barricading and warning signs (Y/N) Others Personal Protective Equipments Sevole Boots Safety Jackets Hard Hats (Helmet) cswba Land owner consent for establishment of Plant site, labour Statutory environmental compliance status Workmen compensation Insurance Labour licence PUC vehicles Dated..... (OTO) Consent to operate Obtained vide No...... Dated...... (CTE) Consent to establish Obtained vide No..... Baseline data generated Name of Environmental staff (Contractor) with mobile no. Date of Completion Signing of Contract Date of Signing of Contract Name of Contractor

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Annexure 4: Grievance Redressal Cells

) परिसम्पत्तियों, बहुउददेशीय १ ये परियोजना प्रबन्धन ईकाई ए । संपर्क सूत्रों पर कार्यालय	क्वों एवं एफ आर.पी. हट्स बनायें जा रहे है। व जनपद स्तर पर समस्या निवारण प्रकोप्त गठित दिवसों एवं कार्यालय समयावधि में संपर्क वि	नीपेड, चिन्हित क्षतिग्रस्त सरकारी भवनों, पर्यटन विभाग उपरोक्त से संबंधित किसी भी समस्या के निवारण के 1 किये गये हैं, जिनके संपर्क सुत्र निम्नवत हैं-
	ढ दूरभाष संख्या 0135–2708376, दून ई मेल–grievancepmu@gmail.c	om om
एयाजना प्रबन्धन इकाइ दश	du s 44-RuevaurehundmRugure	Uni.
जनपद	नोडल अधिकारी	दूरमाष संख्या
	THE RESERVE OF THE PARTY OF THE	La properties to
	श्री आशीष सेमवाल / शहर औधरी	8859504022 / 8859504026
(XVIII)	श्री आशीष सेमवाल / शहूल श्रीमाण श्री नन्द किशोर जोशी	9411352136
प्रयास १		
प्रयास मेली तरकाशी	श्री नन्द किशोर जोशी	9411352136
प्रयास मेली तरकाशी	श्री तन्द्र किशोर जोशी श्री देकेन्द्र पटनाल	9411352136 9410350338 8193917518 9412079945
प्रयास पीली तरकाशी प्रथम	श्री नन्द किशोर जोशी श्री देवेन्द्र पटनाल कु रिया संस्थे	9411352136 9410350338 8193917518 9412079945 9412929707
प्रयोग वित्रे वरकाशी प्रकार प्रेमपह	श्री नन्द किशोर जोशी श्री देवेन्द्र पटनाल क् रिया संत्री	9411352136 9410350338 8193917518 9412079945 9412920707
द्रप्रयाग भोली तरकाशी गेरकर थोपगढ	श्री नन्द किशोर जोशी श्री टेकेंद्र पटनाल कु रिया संत्री श्री आर एच. राणा श्री राकेश जोशी	9411352136 9410350338 8193917518 9412079945 9412929707 9412347265 9456523808
द्धप्रयाग मेली तरकाशी गंपकर धोरागढ सोडी	श्री नन्द किशोर जोशी श्री टेवेन्द्र पटनाल कु रिया संत्री श्री आर. एव. राणा श्री संबंध जोशी श्री मनोज मण्डे	9411352136 9410350338 8193917518 9412079945 9412920707
द्रप्रयोग नेति नेरकर शेषप्रद सोड पावत नित्रक	श्री नन्द किशोर जोशी श्री हेकेंद्र पटनाल कु रिया संत्री श्री आर एवं. राणा श्री राकेश जोशी श्री मनोज पाण्टे श्री शेलेश कुमार श्री अनित समी	9411352136 9410350338 8193917518 9412079945 9412929707 9412347265 9456523808
द्रप्रयोग नेरकर गेरकर शेरगढ सोड पावत शिकाल इमसिह नगर हरी	श्री नन्द किशोर जोशी श्री टेकेन्द्र पटनाल कु रिया संत्री श्री आर एक राणा श्री राकेश जोशी श्री मनोज पाण्टे श्री शेलेश कुमार श्री श्रीलंश महत्व	9411352136 9410350338 8193917518 9412079945 9412920707 9412347265 9456523808 7417176470
प्राप्ताय द्रप्रयाय मोली तरकाशी रिश्वर धोरपाह त्यांड पावत भीताल हाप्रसिद्द स्थार हरी	श्री नन्द किशोर जोशी श्री हेकेंद्र पटनाल कु रिया संत्री श्री आर एवं. राणा श्री राकेश जोशी श्री मनोज पाण्टे श्री शेलेश कुमार श्री अनित समी	941(352)36 941(350)38 8193917518 9412079945 9412929707 9412347265 9456523808 7417170470

Annexure 5: 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	
ADDRES\$	

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

Consultation Summary

Participants

Annexure 6: 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 you.

Place of registration

Home Address Village / Town District Phone no. E-mail Complaint/Suggestion/Comment/Question Please provide the details (who, vyour grievance below: If included as attachment/note/letter, please tick here: How do you want us to reach you for feedback or update on your comment/g FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance) Action Taken:					
Home Address Village / Town District Phone no. E-mail Complaint/Suggestion/Comment/Question Please provide the details (who, vyour grievance below: If included as attachment/note/letter, please tick here: How do you want us to reach you for feedback or update on your comment/g FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance)	Contact Information/Perse	onal Details			
Village / Town District Phone no. E-mail Complaint/Suggestion/Comment/Question Please provide the details (who, vyour grievance below: If included as attachment/note/letter, please tick here: How do you want us to reach you for feedback or update on your comment/g FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance)	Name		Gender	Male Female	Age
District Phone no. E-mail Complaint/Suggestion/Comment/Question Please provide the details (who, vyour grievance below: If included as attachment/note/letter, please tick here: How do you want us to reach you for feedback or update on your comment/g FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance)			"		
Phone no. E-mail Complaint/Suggestion/Comment/Question Please provide the details (who, your grievance below: If included as attachment/note/letter, please tick here: How do you want us to reach you for feedback or update on your comment/g FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance)					
Complaint/Suggestion/Comment/Question Please provide the details (who, your grievance below: If included as attachment/note/letter, please tick here: How do you want us to reach you for feedback or update on your comment/g FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance)					
Complaint/Suggestion/Comment/Question Please provide the details (who, your grievance below: If included as attachment/note/letter, please tick here: How do you want us to reach you for feedback or update on your comment/g FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance)					
your grievance below: If included as attachment/note/letter, please tick here: How do you want us to reach you for feedback or update on your comment/g FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance) Action Taken:					
FOR OFFICIAL USE ONLY Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance) Action Taken:	your grievance below: If included as attachment	/note/letter, please tic	k here:		
Registered by: (Name of official registering grievance) If – then mode: Note/Letter E-mail Verbal/Telephonic Reviewed by: (Names/Positions of Official(s) reviewing grievance) Action Taken:	How do you want us to re	ach you for feedback	or update on your co	mment/grievanc	e?
Action Taken:	If – then mode: ■ Note/Letter ■ E-mail ■ Verbal/Telephonic				
S. S.	Reviewed by: (Names/Pos	sitions of Official(s) re	eviewing grievance)		
Whether Action Taken Disclosed	Action Taken:	4		5	
Triiculei Acuvii iakeli Discluseu.	Whether Action Taken Dis	sclosed:	i		
■ Yes			■ Yes		
■ No			■ No		
Means of Disclosure:					

GRIVENCES RECORD AND ACTION TAKEN

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

तारीख

प्रकटीकरण का मतलबः

तारीख

नाम और

संपर्क नंबर

complainer का

शिकायत

रिकॉर्ड और की

गई कार्रवाई

क्रम संख्या

परिशिष्ट 6: नमूना शिकायत पंजीकरण फार्म

(हिंदी, उर्दू और अंग्रेजी या स्थानीय भाषा में उपलब्ध हो, यदि कोई हो,)

UEAP शिकायतें, सुझाव, प्रश्नों और परियोजना के कार्यान्वयन के बारे में टिप्पणियों का स्वागत करता हैं1 हम लोगों को शिकायत के साथ उनके नाम और संपर्क जानकारी प्रदान करने के लिए प्रोत्साहित करते हैं ताक हम स्पष्टीकरण और प्रतिक्रिया के लिए आप के साथ संपर्क कर सकें 1

आपको अपने व्यक्तिगत विवरण शामिल करने चाहिए लेकिन उस जानकारी को गोपनीय रखा आयगा1 आपका नाम ऊपर (गोपनीय) * लेखन / टाइपिंग द्वारा हमें सूचित करें धन्यवाद

पंजीकरण का स्थान

41.41.4		1 411 47 41 44 4	, att.	
संपर्क करने संबंधी जानका	री / व्यक्तिगत विवरण			
नाम	लिंग	पुरुष महिला	आयु	
घर का पता				
गांव / शहर				
जनपद				
फोन नं,				
ई मेल	V			
शिकायत / सुझाव / टिप्पण	ी / प्रश्न नीचे अपनी शिकायत व	ा विवरण (जो, क्या. का	हां और कैसे) प्रदान करें:	
	ष्प में, शामिल हैं, कृपया यहाँ टि		,	
	लिए कैसे पहुँच संकते हैं या अपन		भर नवीनीकरण?	
केवल कार्यालय उपयोग के		•		
	ंजीकरण शिकायत का नाम)			
यदि -फिर विधि:				
🗯 नोट / पत्र				
# ईमेल				
# मौखिक / टेलीपं	ोन			
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	कारी की पोजिशन समीक्षा शिव	भयत)		
की गई कार्रवाई:				
की गई कार्रवाई का खुलास	T:	# हां		
		🗯 नहीं		

शिकायत के

प्रकार

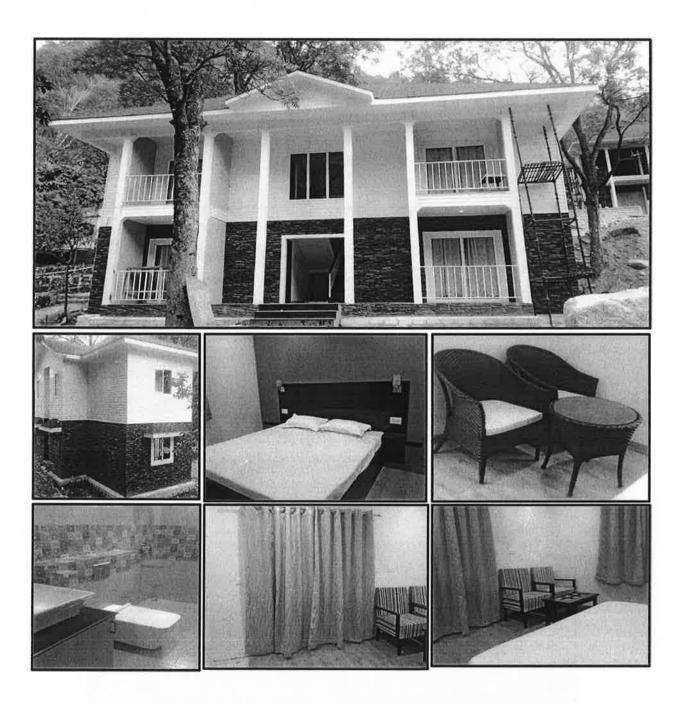
जगह

निवारण की

स्थिति

टिप्पणियाँ

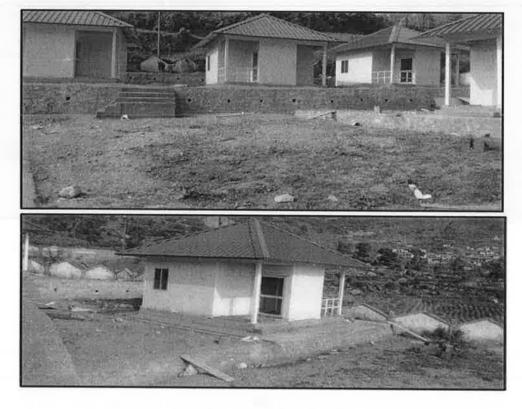
Annexure-7 Project Photographs



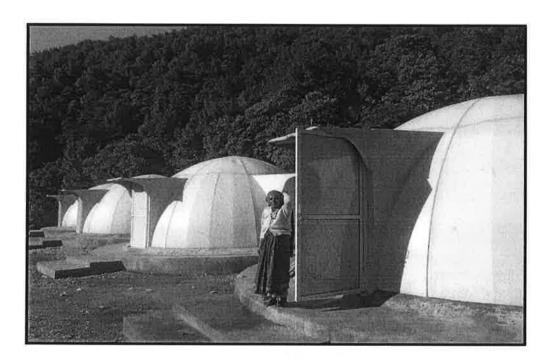
LGFS Huts at Tilwara with supporting amenities



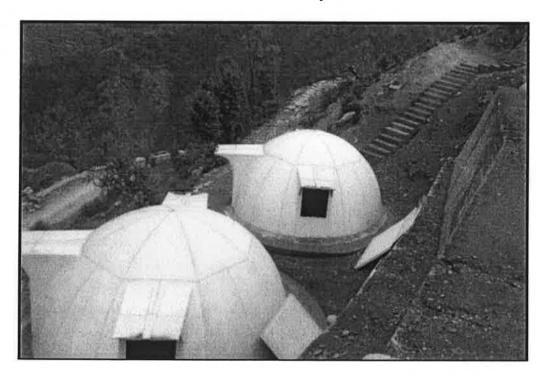
LGFS Huts at Guptakashi with supporting amenities



FRP Huts at Uttarkashi



FRP Huts at Badiyakot



FRP Huts at Supi