

Environmental Monitoring Report

Project Number: 47229-001

January 2018

Period: January 2017 - June 2017

IND: Uttarakhand Emergency Assistance Project

Submitted by

Project Implementation Unit, Uttarakhand Jal Santhan, Jal Bhawan, Dehradun, Uttarakhand

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PROJECT IMPLEMENTATION UNIT (PIU)

(Urban Water Supply Sector)
Uttarakhand Emergency Assistance Project (UEAP)
Uttarakhand Jal Sansthan

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Ref: 42 7 /PIU-UEAP/58/2017-18

Dated: 25/10/2017

To,

The Country Director South Asia Department, India Resident Mission, 4 San Martin Marg, Chanakyapuri New Delhi – 110021. ASIAN DEVEL OPMENT BANK INRW (19 JAN 2010 3484 RECEIVED

Sub.:

Loan No. 3055 IND – Uttarakhand Emergency Assistance Project (UEAP) – SIXTH REPORT SEMI – ANNUAL ENVIRONMENT MONITORING REPORT (Period January to June 2017).

Dear Ma'am,

With reference to above kindly find enclosed herewith SIXTH REPORT SEMI - ANNUAL ENVIRONMENT MONITORING REPORT (Period January to June 2017) for your review & approval.

Enclosure: As above.

Yours Sincerely

(Ashok Negi)
Dy. Program Manager
PIU- UEAP- UWS

Cc:

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2. Program Manager, PIU-UEAP, UWS, Dehradun.

Dy. Program Manager PIU- UEAP- UWS

Uttarakhand Emergency Assistance Project (UEAP) Water Supply Sub-projects (ADB Loan No: 3055-IND)



SIXTH REPORT

SEMI - ANNUAL ENVIRONMENT MONITORING REPORT

(Period January to June, 2017)

October, 2017

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ABBREVIATIONS

ADB Asian Development Bank
BOD Bio Chemical Oxygen Demand

CO Carbon Mono Oxide

CFE Consent for Establishment

CH₄ Methane

DO Dissolve Oxygen

dB Decibel

DSC Design and Supervision Consultant IEE Initial Environmental Examination

EA Executing Agency

EIA Environmental Impact Assessment

EC Environmental Clearance

GLSR Ground Level Surface Reservoir

Gol Government of India
GoU Government of Uttrakhand
GR Grievance Redressal

Ha Hectare

HDPE High Density Poly Ehylene

HFL High Flood Level

Km Kilometer

Leg Equivalent continuous noise level

Mg Milligram

MFF Multitranche Financing Facility
MoEF Ministry of Environment & Forests

MLD Million Litter Per day

Mn Million
M Meter
mm Millimeter

mg/l Milligram per Liter m3 Cubic meter

NAAQS National Ambient Air Quality Standards

NOx oxides of Nitrogen NA Not Applicable

O & M Operation and maintenance
PIU Project Implementation Units

PM $_{2.5}$ Particulate matter size less than 2.5 μ m PM $_{10}$ Particulate matter size less than 10 μ m

PMU Project Management Unit
PPE Personal Protective Equipments

PVC Poly Vinyl Chloride
PWD Public Works Division

RCC Reinforced Cement Concrete

RoW Right of Way
RP Resettlement Plan
SBR Sequential Batch Reactor
SC Scheduled Castes

SEIAA State Environment Impact Assessment Authority

SO₂ Sulphur dioxides

SOP Standard Operational Procedures
SPCB State Pollution Control Board
SPS Safeguard Policy Statements

SS Suspended Solids ST Scheduled Tribes

UDD Urban Development Department

UEAP Uttarakhand Emergency Assistance Project

UEPPCB Uttarakhand Environmental Protection and Pollution Control

Board

UJS Uttarakhand Jal Sansthan
UPJN Uttarakhand Peyal Jal Nigam

U.P Uttar Pradesh

UPCL Uttarakhand Power Corporation Limited

I. INTRODUCTION

A. Background

- In the month of June 2013, a severe flood and rain event occurred in Uttarakhand causing extensive damage to the state. The major affected areas are of Roads and bridges, Water Supply other infrastructure and livelihood. To assist in the rehabilitation works ADB decided to assist the Government of Uttarakhand in rehabilitating the various sectors. As part of this, ADB has provided a loan (No. 3055-IND) to the government of India. For smooth functioning of the various works Uttarakhand Emergency Assistance Project (UEAP) is devised. The UEAP will support the Government of India (GoI) and the Government of Uttarakhand (GoU) in their efforts to rehabilitate and reconstruct the damaged water supply system in 9 selected towns of Uttarakhand. The investment program will support: (i) Water supply; and (ii) Planning and design, institutional and policy development, capacity building and creating awareness.
- 2. The Project Management Unit (PMU) of Uttarakhand Emergency Assistance Project (UEAP) created for implementation of the said project under the Government of Uttarakhand (GoU) and the Project Implementation Units (PIU), Uttarakhand Jal Sansthan (UJS) will be provided with necessary consulting services under the proposed loan to strengthen their project design, management and implementation capabilities including mainly engineering design and construction supervision. The work in this Project is of emergency nature and has to be finished within stipulated time, so as to provide drinking water to affected population. The Executing Agency (EA), State Disaster Management Authority (SDMA) will work closely with the Implementing Agency (IA) Uttarakhand Jal Sansthan
- 3. Total 09 towns, 06 towns of Garhwal Region and 03 towns of Kumaun Region have been selected for implementation of water supply sub project of Assistance Project. Towns selected for implementation of water supply sub project in Garhwal regions are Srinagar, Devprayag, Rudraprayag, Gauchar , Karnprayag and Uttarkashi . Towns selected for implementation of same subproject in Kumaun regions are Dharchula, Kapkot and Bageshwar . Location of the project towns are shown in Figure 1



Figure 1: Location of project towns in Uttarakhand

- 4. To support implementation of the Program, UEAP have engaged STUP Consultants Pvt. Ltd. as Design & Supervision Consultant (DSC). Design and Supervision Consultant (DSC) firm assists Investment Project Management Unit (IPMU) and the respective Investment Project Implementation Units (IPIUs) to undertake necessary surveys and investigations, detailed engineering designs, quantity and cost estimation, preparation of bid documents, procurement activities, preparation of construction drawings, construction supervision including recording measurements, quality control, assisting community awareness and poverty alleviation program associated with the Project.
- 5. Three contractors M/s Kashmirilal Construction P. Ltd and M/s R.K. Engineers Sales Ltd and M/S Uttaranchal Tube well Construction have been appointed to implement the subprojects. As per contract, M/s Kashmirilal Construction P. Ltd will implement the subproject in Kapkot, Bageshwar, Dharchula and Devprayag town and M/s R.K. Engineers Sales Ltd will implement the subproject in Rudraprayag, Karnprayag, Gauchar, Uttarkashi and Srinagar town . M/S Uttaranchal Tubewell Construction will implement construction of 6 tube wells at the bank of Alaknanda in Srinagar town.

B. Project Profile

- 6. Up to 30th June, 2017, contract agreements were signed for all lots under 4 sub projects. Contractors have mobilized and working in all the project towns. Up to 30th June, 2017 contractors have done good progress in all subprojects and in some area considerable progress have been reported.
- 7. Scope of work for each subproject are as follows –

Contract Package No. - UK/UEAP-UJS/WSS-KU/01/2014-15

Sn.	Name of Town	Works Proposed
1	Kapkot	 Supply, Laying, Jointing, Testing & Commissioning of 125 mm dia. MSERW lined Rising Main. Design, Supply, Erection of structural steel works for Bridge crossing. Design, Supply, Installation, Testing, Commissioning of Electro-chlorinator. Design, Supply, Installation, Testing, Commissioning of Electromagnetic flow meter. Design, Supply, Installation, Testing, Commissioning of Electromechanical works including Trial Run for a period of 3 months. Design, Supply, Installation, Testing, Commissioning of SCADA/Instrumentation works. Design, Construction, Testing, Commissioning, Trial Run for a period of 3 months of 1.4 MLD Infiltration Well at river Saryu including dewatering and diversion of water. Providing and Construction of Pump House over Infiltration Well or as
2	Bageshwar	 Supply, Laying, Jointing, Testing & Commissioning of 150mm dia. MSERW lined Rising Main including dismantling of existing 80 mm dia. GI Rising Main and hand over to Jal Sansthan at their store. Demolition of existing Raw and Clear Water pumping set including all electrical equipments, cable etc. at Kathayat Bada. Design, Supply, Installation, Testing, Commissioning of Electromechanical works including Trial Run for a period of 3 months at different locations. Instrumentation work at: Proposed Infiltration Well Jalkal WTP at Thakurdwara WTP at Kathayatbada. Design, Construction, Testing, Commissioning, Trial Run for a period of 3 months of 1.34 MLD Infiltration Well including diversion and dewatering of water at Jalkal Water Works. Provide & Construction of Pump House over Infiltration Well or as required suitable for Pump House. Rehabilitation of WTP at Thakurdwara including Reconstruction of Alum Godown. Demolition of old intake structure/electrical/mechanical items at Jal Sansthan Water Works and old damaged Alum Godown and disposal of unserviceable material.
3	Dharchula	 Supply, Laying, Jointing, Testing & Commissioning of Distribution & Gravity Mains including Valves & Valve Chambers. Demolition of Stone Masonry CWR & Steel CWR. Construction of Uttaranchal Koop. Construction of Intake Chamber/source work. Design, Construction, Testing, Commissioning & Trial Run for a period of 3 months of 1.728 MLD Horizontal Flow Roughing Filter. Design, construction, testing, commissioning of RCC CWRs.

Contract Package No. - UK/UEAP-UJS/WSS-GW/01

Sn.	Name of Town	Works Proposed
1	Rudraprayag	 Supply, Laying, Jointing, Testing & Commissioning of MSERW lined Gravity Transmission Main. Supply, Installation of 3 No. Uttaranchal Koops. Rehabilitation of RCC Intake Chambers. Construction of RCC Bridge to carry the pipeline across the stream. Replacement / Supply & Laying of pipelines damaged due to flood. Construction of Office Building. Supply and Installation of Sluice Valves, Scour Valves and Air Valves. Providing, Fixing of RCC Valve Chamber for housing valves.

		Cumply and Installation of Dull Water Materia
		Supply and Installation of Bulk Water Meters. Pand Protocotion works. Pand Protocotion works.
		Road Restoration works.
		Supply, Installation of 1 No. of Infiltration Well. Pale of Titule of DOO Intel of Characters
	Rehabilitation of RCC Intake Chambers. Consider Assignment Constitution of MS FRW size of	
		Supply, Laying, Jointing, Testing and Commissioning of MS ERW pipe of 200mm (ID) dia from thick for a length of 6000m from Wall Site.
		200mm (ID) dia, 6mm thick for a length of 6000m from Well Site
		(0 chainage) to ITI Colony Proposed Tank (6000 chainage).
		Construction of RCC Bridge to carry the pipeline across the stream at different locations.
		 Construction of CWR of 500KL capacity at Pujari Gaon location, 150 KL at
		GGIC and 35KL CWR at taxi stand (Near Petrol Pump).
2	Karanprayag	Replacement / Supply & Laying of pipelines damaged due to flood.
		Construction of Office Building.
		 Supply and Installation of Sluice Valves, Scour Valves and Air Valves.
		 Providing, Fixing of RCC Valve Chamber for housing valves.
		Supply and Installation of Bulk Water Meters.
		Road Restoration works.
		Design, Supply, Installation, Testing, and Commissioning of
		Electromechanical works including trial run for a period of 3 months at
		different locations.
		Instrumentation work at Proposed Infiltration Well.
		Supply, Installation of 1 No. of Infiltration Well.
		Rehabilitation of RCC Intake Chambers.
		Supply, Laying, Jointing, Testing and Commissioning of MS ERW pipe of
		200mm dia, 6mm thick for a length of 3000m from Airport gate
		(0 chainage) to Main Bazaar (1500 chainage) on both side of Main Bazaar
3	Gauchar	road.
		Replacement / Supply & Laying of pipelines damaged due to flood.
		Construction of Office Building as the existing office building was partly
		damaged.
		Supply and Installation of Sluice Valves, Scour Valves and Air Valves. Providing fixing of RCC Valve Chamber for bousing valves.
		 Providing, fixing of RCC Valve Chamber for housing valves. Supply and Installation of Bulk Water Meters.
		 Supply and Installation of Bulk Water Meters. Road Restoration works.
		Construction of RCC Cross Wall for a length of 20 meters and height of 1
		Meter.
		Construction of Intake Chamber of size 1.0 M X 1.0 M X 1.0 M.
		Supply and Laying of 250mm dia MS ERW Pipeline for a length of 150
		Meters from the outlet of intake chamber of Kohari Gad source.
		Supply and Laying of 200mm dia MS ERW Pipeline for a length of 1000
		Meters for replacing existing damaged 200mm dia CI pipeline feeding to
		Gufiyara WTP.
		Supply and Laying of 250mm dia MS ERW Pipeline for a length of 650
		Meters downstream of WTP at Jangara.
		Supply and Laying of 200mm dia MS ERW Pipeline for a length of 50
		Meters downstream of Chiwa Gad Stream Junction.
		Supply and Laying of 200mm dia MS ERW Pipeline for a length of 130 Materia below the bed agrees. Assi Cappa Biver before confluence point.
	Uttarkashi	Meters below the bed across Assi Ganga River before confluence point (Sangam) of rivers Assi Ganga and Bhagirathi including concrete encasing
4		(Sangam) or rivers Assi Ganga and Bhagirathi including concrete encasing for pipeline.
		 Supply and Laying of 100mm dia GI Pipeline for a length of 1500 Meters
		from Gufiayara WTP CWR to Tiloth and 500 Meters form Gufiayara CWR to
		Batwadi WTP CWR.
		Supply and Laying of 125mm dia MS ERW Pipeline for a length of 800
		meters and 100mm dia GI Pipeline for a length of 1200 Meters from
		Gufiyara WTP CWR to Gyansu.
		Sluice Valves, Scour Valves and Air Valves are proposed to be installed.
		RCC Valve Chambers and Thrust Blocks / Anchor Blocks are proposed to
		be constructed.
		Drilling of new Tube wells (2 nos.) through Dual Rotary Method of 400mm
		dia for a depth of 45 meter including providing and fixing ERW MS casing
		pipe for a depth of 20 meter.
		Construction of 2 Nos. RCC Framed Pump Houses of 20 Sqm area each at

		form Ramleela Maidan to 350 KL CWR at Gufiyara WTP. Supply and Fixing DI Non-return Valve, CI Bulk Water Meter, DI Sluice Valve at outlet pipeline from Tube Well inside each Pump House at Ramleela Maidan. Supply and Fixing DI Scour Valve for 300mm dia Rising Main near Ramleela Maidan.
		 Supply and fixing DI Double Orifice Air Valve on 300mm dia Rising Main. Construction of RCC Valve Chambers for Scour Valve and Air Valves. Rehabilitation of 0.67 MLD WTP at Batwadi Road. Rehabilitation of 1.63 MLD WTP at Gufiyara. Rehabilitation of 4.58 MLD WTP at Jangara. Electrical Works.
5	Devprayag	 Construction of RCC Cross Walls at Sources. Providing and Fixing Uttaranchal Koop. Supply and Laying of Transmission Mains. Construction of 50 KL and 100 KL CWRs. Supply and Laying of Distribution Pipelines. Supply and Installation of Valves and Water Meters. Construction of RCC Valve Chambers. Restoration of Roads. Construction of Office Building, Guest House Building, Staff Quarters Building.

Contract Package No. - UK/UEAP-UJS/WSS-GW/02/SRINAGAR (PAURI)

Name of Town	Works Proposed
Srinagar	Construction of RCC Retaining Wall for Pump House. Design and Construction of RCC Framed Low Level Pump House. Providing and Fixing trolley / lifting arrangement for Low Level Pump House. Replacement of damaged raw water Pumps and Motors. Alteration of Existing Jack Well as High Level Pump House. Supply and Installation of New Raw Water Pumps in High Level Pump House (Existing Jack Well). Supply and Laying Raw Water Transmission Mains. Rehabilitation of 6 MLD Water Treatment Plant. Rehabilitation of 3.75 MLD Water Treatment Plant. Rehabilitation of 2.0 MLD Water Treatment Plant. Design and Construction of RCC Framed structure for Chlorine Room at existing WTP premises. Design, Supply and Installation of Chlorination System by Chlorine gas with Vacuum type Chlorinators for all three WTP's Supply and Installation of Clear Water Pumps in 6 MLD & 3.75 MLD WTP Clear Water Pump Houses. Supply and Installation of Submersible Pumps for Infiltration Well. Supply and Laying Clear Water Transmission Main from Proposed Pump House. Supply and Installation of Clear Water Pumps at Tube Well site. Infiltration Well Site Protection Work by constructing RCC Gravity Retaining Wall. Supply and Laying Clear Water Transmission Mains from existing WTP to various reservoirs. Supply and Laying Clear Water Transmission Mains from existing WTP to various reservoirs. Supply and Laying Clear Water Transmission Mains from existing WTP to various reservoirs. Supply and Laying Obstribution pipelines with Pipe Appurtenances. Providing and Fixing House Service Connections. Road Restoration Works. Design and Construction of 500KL RCC Sump and Clear Water Pump House at Infiltration well site. Design and Construction of Tube Well near Govt. ITI College. Water Supply Rehabilitation and Augmentation Scheme — Srinagar and Pauri Design and Construction of Pump house over Infiltration Well.

•	Design and Construction of Office Cum Staff Quarters building at existing WTP premises.
	Design, Supply, Installation, Testing, Commissioning of Electromechanical works including Trial Run for a period of 3 months.
•	Design, Supply, Installation, Testing, Commissioning of Instrumentation, Automation and SCADA works at WTP premises and proposed tube Well
	site including Trail Run for a period of 3 months.

Contract Package No. - UK/UEAP-UJS/WSS-GW/02-01/SRINAGAR

Name of Town	Works Proposed
Srinagar	Design and Construction of Tube Wells by drilling of bore hole using Direct Rotary Method/RR/Dual Rotary/Percussion method, lowering of well assembly, development of bore well, performance (yield) test, design, supply and installation of Mechanical equipment to suit yield test results (single stage pumping), testing, commissioning, laying of required lengths of pipe line up to termination / destination points, as per site requirements, along with related mechanical as required, including Civil Works i.e Construction of Pump houses, chamber, Construction of Boundary Walls, operation and maintenance of tube wells for a period of 1 year and allied works in Srinagar

Contract Package No. - UK/UEAP-UJS/WSS-GW/ 02-02 Srinagar (AMR)

Name of Town	Works Proposed
Srinagar	Replacement of connection pipes for proper piping arrangement from water mains to consumer household upto the AMR meter and installation of AMR meter for proper consumer connections including remote reading of volumetric water consumptions at Srinagar.

Contract Package No. - UK/UEAP-UJS/WSS-KU/01-01 (Tank & pipe line)

Name of Town	Works Proposed
Kapkot	Additional works of GLSRs 2 nos and distribution network at Kapkot

C. Project & Report Purpose

- 8. Water Supply sub projects which are under implementation has been classified by ADB as environmental assessment Category B (some negative impacts but less significant than category A) and the impacts of sub projects were assessed through Initial Environmental Examination (IEE), prepared according to ADB Safeguard Policy statement (SPS, 2009).
- 9. This "Environment Monitoring Report" for the period January to June, 2017 describes the status of implementation of the mitigation measures and monitoring recommended in the IEE for these sub projects within the stated period.

II. IMPLEMENTATION PROGRESS

A. Major works and progress

- 10. Till date (30th June, 2017) contractors have done good progress in all subprojects, some projects considerable progress has been reported. Monitoring and reporting on Environmental safeguard has been carried out for all the subprojects.
- 11. List of sub projects and their status is given hereunder:

Table 1: Status of Sub Project status under UEAP- WSS (up to 30th June, 2017)

Town	Package Code	Sub Project	Physical Progress
Kapkot		1) Construction of Infiltration well 1.40mld -1 Nos 2) Laying of rising mains.7641 m 3) Electrical and Instrumentation works- 4 nos VT Pumps over I Well	Construction of Infiltration well – Completed. Laying welding & hydraulic testing of rising mains 7641m complete. HT panel & 4nos VT pumps under trail run.
Bageshwar	UK/UEAP-WSS-KU/01 Lot 1: Kapkot Lot 2: Bageshwar Lot 3: Dharchula	 Construction of infiltration well1.34 mld -1 Nos Pump house over Infiltration well-1 Nos Alum Godown – I Nos Rising mains-1074m Pumps and related electrical and Mechanical works- Pumps 6 Nos Electrical and Instrumentation works 	 Work completed, trial run started on 01/11/2016 for Infiltration wall. Rising mains-1176m Laid and 1176m hydraulic testing done. Painting work is in progress at Alum Godown. Pumps 4 nos – 4nos Pumps commissioned at Kathyathbada. Electric panel installation and electric fitting completed at Infiltration wall.
Dharchula		 Installation of Uttaranchal Koops Construction of Horizontal flow Roughing filter 1.732mld-1 Nos Construction of 25KL, 50KL and 300 KL Water tank Gravity pipeline -8076m RCC Intake Chamber 	1) Uttaranchal Koop installation completed & supply under trial. 2) HFRF work completed & Supply started in old pipe line. New pipe line damage by PMGSY road construction. 3) Structural works for 25KL, 50KL tank and 300 KL Water tank Completed. Chlorinator installed. 4) Laying, jointing & hydraulic testing completed of Gravity pipeline -7958m. 5) RCC Intake Chamber- Intake chamber & Uttaranchal Koop damage by PMGSY.
Dudron rove :		1) Installation of Litteranchal Keen	1) 2non litterenchal Kasa
Rudraprayag	UK/UEAP-WSS-GW/01 Lot 1: Rudraprayag Lot 2: Karnprayag Lot 3: Gauchar Lot 4: Uttarkashi	Installation of Uttaranchal Koop Pipe Line -5880m Office Building – 1 Nos Stream Crossing – 1 Nos	 3nos Uttaranchal Koop Installation completed. Supply under trial. Laying, jointing & hydraulic testing completed- 5880m. Office building- Main office building, EE room, AE room, JE room & Store room completed Stream Crossing- completed. Office Building -Completed.
Karnprayag	Lot 5: Devprayag	2) Pipe line work -14000m 3) 500 KL,150KL and 35 KL Water Tank and 100KL Sump 4) Infiltration Well 2.46 mld-1 Nos 5) 5) Electromechanical works	2) Pipe line work -13575m Laid. 4021m hydro testing done. 3) Infiltration Well–Civil work completed. Boundary wall & finishing work is in progress.

Town	Package Code	Sub Project	Physical Progress
Gauchar		1) Office Building- 1 Nos	 4) Boundary wall is in progress at 500KL GLSR site. 5) 500 KL, 150KL, 35 KL GLSR completed. 6) 100KL SUMP and Pump house completed. Pump foundation work, Panel room & Boundary wall work in progress. 7) DG set & SCADA panel reached at site. 1) Office Building- Completed.
		2) 100 KL Water Tank and 100 Kl Sump 3) Pipe Line Work-11000m 4) Infiltration Well 2.53 mld- 1 Nos 5) Electro Mechanical Works	 100KL GLSR work completed. 100KL SUMP and Pump house completed. Pump foundation work, Panel room & Boundary wall work in progress. Laying, jointing & hydraulic testing completed of Gravity pipeline -11120m. Infiltration Well-Civil work completed. Boundary wall & finishing work is in progress. DG set & SCADA panel reached at site.
Uttarkashi		Construction of Tube well 5.76mld—2 Nos Pipe Line -7680m Electrical and Instrumentation works Repairs in Water treatment plant Construction of Pump house	1) Construction of Tube well – 2 Nos completed 2) Laying, jointing & hydraulic testing completed of Gravity pipeline -5967m. 3) Electrical and Instrumentation works – Transformer & Control panel installed. 4) Water Treatment Plant – Filter media & PVC tube settler work completed at Bhattwadi WTP. Filter media, PVC tube settler work and painting work is in progress at Gufiyara WTP. 5) Construction of Pump house - Completed. 6) Electrical connection works completed for pump house.
Devprayag		 Installation of Uttaranchal Koop 3nos. Pipe Line Works- 31000m. 50 KL Water Tank. Office Building- 1 Nos 	Installation of 3 nos Uttaranchal Koop completed. Pipe Line Work-30900m Laid and 10689m hydraulic testing done. SoKI GLSR completed. Valve fixing & chamber work completed. Office building- Plaster & Electric fitting work in progress.
Srinagar	UK/UEAP-WSS-GW/02	 Construction of pump house Installation of raw water and clear water. Pumping machinery28 No Pumps Pipeline Works-31837m Rehabilitation of water treatment Plants. Electrical and Instrumentation works. Office Building- 1 Nos 1000KL, 500KL Water Tank and 500KL Sump. SCADA Room 	Pump house painting work is in progress. Installation of raw water and clear water pumping machinery-24 nos Pumps reached at site. 22 pumps installed at Srinagar. 3.75mld CWPH 6 commissioned. 6 mld CWPH-8 pumps installed & flooring work in progress. RWPH-5 pumps installed and 4 pumps commissioned, 1 commissioned at Pauri.

Town	Package Code	Sub Project	Physical Progress
			 Pipeline Works-32981m laid and 19598m hydraulic testing done. Electrical and Instrumentation works- DG set & electric panel reached at site. Office Building-Completed. 1000KL Tank-Completed. 200 KL GLSR –Finishing work is in progress. 500KL SUMP- Hydro testing work successfully done. SCADA room- Completed.
Srinagar	UK/UEAP-WSS-GW/02- 01	Construction of Tube Wells 8.64 mld– 6 Nos	All 06 nos tubewells monitoring done. All 06 nos tubewells development completed Boundary wall work is in progress.
Srinagar	UK/UEAP-UJS/WSS-GW/ 02-02 Srinagar (AMR)	Replacement of connection pipes for proper piping arrangement from water mains to consumer household upto the AMR meter and installation of AMR meter for proper consumer connections including remote reading of volumetric water consumptions at Srinagar.	874 meters installed out of 6245
Kapkot	UK/UEAP-UJS/WSS- KU/01-01 (Tank & pipe line)	Additional works of GLSRs 2 nos and distribution network at Kapkot	Pipe line laying - 400m completed 2) 200KL GLSR – Excavation is in progress.

^{12.} Table 2 show the status of the sub project implementation, starting date, schedule date of completion and physical progress.

Table 2: Status of Sub-project Implementation under UEAP- WSS (up to 30th June, 2017)

Location	Component, name of the sub project (Code No.)	Starting date of implementation	Projected months of completion (as per work order)	Schedule date of completion & extended date of completion	Physical progress (%) as on 30.06.17
Kapkot	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP,	01.11.2014	18 months	31.05.2016 18.12.2016 31.01.2017	100
Bageshwar	GLSR etc. at Kapkot, Bageshwar & Dharchula (UK/UEAP-WSS-KU/01)	01.12.2014	18 months	31.05.2016 18.12.2016 31.03.2017	100
Dharchula		01.12.2014	18 months	31.05.2016 30.11.2016 31.03.2017	100

Rudraprayag	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and	19.01.2015	18 months	18.07.2016 30.11.2016 31.01.2017	100
Karnprayag	Commissioning of Infiltration Wells, WTP, GLSR etc. at Rudraprayag, Karnprayag, Gauchar, Uttarkashi & Devprayag (UK/UEAP-WSS-GW/01)	19.01.2015	18 months	18.07.2016 18.12.2016 31.03.2017	100
Gauchar	,	19.01.2015	18 months	18.07.2016 18.12.2016 31.03.2017	100
Uttarkashi		19.01.2015	18 months	18.07.2016 30.11.2016 31.03.2017	90
Devprayag		09.03.2015	18 months	08.09.2016 18.12.2016 31.03.2017	100
Srinagar	Construction of low level pump house, installation of raw water and clear water pumping machinery, Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains, Rehabilitation of WTP's Design, Supply, Construction and Commissioning of Infiltration Wells, Construction of Sump and Electrical and Instrumentation works at Srinagar (UK/UEAP-WSS-GW/02)	19.01.2015	18 months	18.07.2016 18.12.2016 31.03.2017	100
Srinagar	Design and Construction of Tube Wells by drilling of bore hole using Direct Rotary Method/RR/Dual Rotary/Percussion method, lowering of well assembly, development of bore well, performance (yield) test, design, supply and installation of Mechanical equipment to suit yield test results (single stage pumping), testing, commissioning, laying of required lengths of pipe line up to termination / destination points, as per site requirements, along with related mechanical as required, including Civil Works i.e Construction of Pump houses, chamber, Construction of Boundary Walls, operation and maintenance of tube wells for a period of 1 year and allied works in Srinagar UK/UEAP-WSS-GW/02 -01	19.04.2016	06 months	18.10.2016 31.03.2017	100
Srinagar	Replacement of connection pipes for proper piping arrangement from water mains to consumer household upto the AMR meter and installation of AMR meter for proper consumer connections including remote reading of volumetric water consumptions at Srinagar. UK/UEAP-WSS/UJS-GW/02-02 Srinagar (AMR)	26.04.2017	6 months	25.10.17	29
Kapkot	<u> </u>				

B. Compliance of Safeguard Loan Covenants

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

Serial no.	Program Specific Covenants	Status / Issues
as per Ioan		
agreement		
Environmen	t	
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 have been 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. Due to change of scope during implementation IEEs have been revised and submitted to ADB. All measures and requirements as prescribed in IEE and EMP has been considered during implementation. Corrective or preventive action plans which reflected in Environment Monitoring Report has been taken care by project implementation authority
	d Financial Resources to Implement Requirements	
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) designates at least one official each to supervise implementation of the EMMP	Under compliance Budgetary provisions have been included in EMPs One officer designated to supervise implementation of the EMMP
Safeguards	- Related Provisions in Bidding	
	and Works Contracts	
13	Borrower shall ensure or cause the EA and each IA to ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (a) comply with the measures and requirements relevant to the contractor set forth in the EIA/IEE, the EMMP, the RPs and any IPP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report; (b) make available a budget for all such environmental and social measures; (c) provide the relevant IA with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks if any, or impacts that arise during construction, implementation or operation of the project that were not considered in the	Under compliance (a) Approved IEEs, EMPs and RPs are attached in Bidding documents. In case of any change of scope, revised IEEs, EMPs have been prepared and corrective measures disclosed to contractor and same reflected in the "Environment Monitoring Report" (b) All IEEs indicate budgetary provisions for implementation of EMPs (c) With the development of sub project and implementation, in case of additional impacts/risks due to change in scope/area, that will be reflected in the revised IEEs, EMPs and Environment Monitoring Report and accordingly project Executing Agency will inform the Construction Agency for taking relevant corrective measures. (d) Haul roads marked properly (by avoiding residences and agricultural land) before commencement of transportation of materials. (e) Pathways, land which are likely to be affected

Serial no.	Program Specific Covenants	Status / Issues
as per		
loan agreement		
	EIA/IEE, the EMMP, and the RP or the IPP if any; (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	for a short period during implementation of the sub project have been restored by concerned construction agency before acceptance of the work. Restoration status will be reflected in post construction monitoring report
Safeguards	Monitoring and Reporting	
14	The Borrower shall ensure or cause the EA and each IA to 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; (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 (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.	Under compliance (a) This is 6 th Semi-annual Environment Monitoring Report, prepared for the period January to June 2017. (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. Accordingly revised IEEs were submitted to ADB and approved by ADB (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.
		Complied
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 Stand	ards	
16	The EA through each IA shall ensure that civil works contracts under the Project follow all applicable labor laws of the Borrower and State and that these further include provisions to the effect that contractors; (i) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and (ii) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts will also include clauses for termination in case of any	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 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".

Serial no.	Program Specific Covenants	Status / Issues
as per		
loan		
agreement		
	breach of the stated provisions by the contractors.	

C. Environmental and Social Organization and Management along with Implementation Arrangements

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

to be inadequate, then necessary instructions shall be issued by the FPIU/IA for implementation of rectification measures.

III. ENVIRONMENTAL PROCEDURE REVIEW

A. Compliance with Environmental Regulations

- 18. Three sub projects are considered under UEAP water supply system. As per state and national rules clearance and consent are required for few projects. Clearance status for subprojects is given in **Table 3** below.
- 19. Environmental compliance status for the running project is enclosed in **Annexure 1.**

Table 3: Present Status of Environment, Forest & other clearances (up to June, 2017)

2017)				
Work (Package No.)	Applicable Legislation/ Type of clearance	Subject / Issue	Clearance given by and date	Remarks/ Action taken
Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells,	Water (Prevention and Control of Pollution) Act. 1974 Consent to Establish (CTE)/Consent to Operate (CTO) for	Consent to Establish (CTE)/ Consent to Operate (CTO) for rehabilitation of WTP	Not required	Existing Water Treatment Plant does not have Consent to Operate under Water (Prevention and Control of Pollution) Act, 1974 and amendments.
WTP, GLSR etc. at Kapkot, Bageshwar & Dharchula (UK/UEAP-WSS-KU/01) Lot 2: Bageshwar	rehabilitation of WTP from Uttarakhand Environmental Protection and Pollution Control Board (UEPPCB) at Dehradun.			Ref. to discussion with Pollution Control Board it emerges that there is no fixed requirement for consent to establish/ Consent to Operate for rehabilitation of WTP.
Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning	Water (Prevention and Control of Pollution) Act. 1974 Consent to Establish (CTE)/ Consent to Operate (CTO) for	Consent to Establish (CTE)/ Consent to Operate (CTO) for rehabilitation of WTP	Not required	Existing Water Treatment Plant does not have Consent to Operate under Water (Prevention and Control of Pollution) Act, 1974 and amendments.
of Infiltration Wells, WTP, GLSR etc. at Rudraprayag, Karnprayag, Gauchar, Uttarkashi & Devaprayag (UK/UEAP-WSS-GW/01) Lot 4: Uttarkashi	rehabilitation of WTP from Uttarakhand Environmental Protection and Pollution Control Board (UEPPCB) at Dehradun.			Ref. to discussion with Pollution Control Board it emerges that there is no fixed requirement for consent to establish/consent to operate for rehabilitation of WTP.
Lot 5: Devprayag	As per "The Forest (Conservation) Act, 1980" online application submitted to DFO for acquisition of forest land tree felling	Forest land acquisition – 0.36 ha for construction of office building at Devapryag	Clearance obtained on 30.12.2015 by Government of India Ministry of Environment , forest and climate change , Regional office Dehradun	0.36 ha of forest land for non forest purpose handed over to UJS on 18.02.2016 on lease for 30 years and maintenance of 190 trees.

W 1 (5 1	Applicable		Clearance given	
Work (Package No.)	Legislation/ Type of clearance	Subject / Issue	by and date	Remarks/ Action taken
Construction of low level pump house, installation of raw water and clear water pumping machinery, Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains, Rehabilitation of WTP's Design, Supply, Construction and Commissioning of Infiltration Wells, Construction of Sump and Electrical and Instrumentation works at Srinagar (UK/UEAP-WSS-GW/02)	Water (Prevention and Control of Pollution) Act. 1974 Consent to Establish (CTE)/Consent to Operate (CTO) for rehabilitation of WTP from Uttarakhand Environmental Protection and Pollution Control Board (UEPPCB) at Dehradun.	Consent to Establish (CTE)/ Consent to Operate (CTO) for rehabilitation of WTP	Not required	Existing Water Treatment Plant does not have Consent to Operate under Water (Prevention and Control of Pollution) Act, 1974 and amendments. Ref. to discussion with Pollution Control Board it emerges that there is no fixed requirement for consent to establish/ Consent to Operate for rehabilitation of WTP.
For all packages under UEAP- WSS UK/UEAP-WSS-KU/01 UK/UEAP-WSS-GW/01 UK/UEAP-WSS-GW/02 Srinagar (UK/UEAP-WSS-GW/02-01) UK/UEAP-WSS/UJS-GW/02-02 Srinagar (AMR) UK/UEAP-WSS/UJS-KU/01-01 (Tank & pipe line)	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Noise Pollution (Regulation and Control) Rules, 2002 amended up to 2010 Also for setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO)	-		During implementation of project compliances against Air Act, Noise Rules and Water Act have been complied. Silent generators will be installed.

IV. IMPLEMENTATION STATUS OF ENVIRONMENT MEASURES

20. Works in 9 sub projects are completed whereas works in 3 sub projects are under progress as on 30th June, 2017. Application of EMP is being implemented 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 4** below.

Table 4: Summary Compliance status of Environment Management and Monitoring Plan (30.06.2017)

Location	Name of Sub Project	EMP being	Overall Status	Actions Proposed or
		Implemented (Yes / No)	of EMP Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfaction/ Poor/ Very Poor)	continued/ Additional Corrective Measures Required
Kapkot	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar & Dharchula (UK/UEAP-WSS-KU/01 Lot 1)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Environmental monitoring tests have been done during construction phase ✓ Arrangement of First aid box
Bageshwar	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar & Dharchula (UK/UEAP-WSS-KU/01 Lot 2)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Environmental monitoring tests have been done during construction phase ✓ Arrangement of First aid box
Dharchula	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar & Dharchula (UK/UEAP-WSS-KU/01 Lot 3)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation . Environmental monitoring tests have been done during construction phase

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/ Additional Corrective Measures Required
				✓ Arrangement of First aid box
Rudraprayag	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. (UK/UEAP-WSS-GW/01-Lot 1)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Environmental monitoring tests have been done during construction phase ✓ Arrangement of First aid box
Karnprayag	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. (UK/UEAP-WSS-GW/01-Lot 2)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Environmental monitoring tests have been done during construction phase ✓ Arrangement of First aid box
Gauchar	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. (UK/UEAP-WSS-GW/01-Lot 3)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Environmental monitoring tests have been done during construction phase ✓ Arrangement of First aid box
Uttarkashi	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. (UK/UEAP-WSS-GW/01-	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Environmental

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/ Additional Corrective Measures Required
	Lot 4)			monitoring tests have been done during construction phase ✓ Arrangement of First aid box
Devprayag	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. (UK/UEAP-WSS-GW/01-Lot 5)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Environmental monitoring tests have been done during construction phase ✓ Arrangement of First aid box
Srinagar	Construction of low level pump house, installation of raw water and clear water pumping machinery, Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains, Rehabilitation of WTP's Design, Supply, Construction and Commissioning of Infiltration Wells, Construction of Sump and Electrical and Instrumentation works (UK/UEAP-WSS-GW/02)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Environmental monitoring tests have been done during construction phase ✓ Arrangement of First aid box
Srinagar	Design and Construction of Tube Wells by drilling of bore hole using Direct Rotary Method/RR/Dual Rotary/Percussion method, lowering of well assembly, development of bore well, performance (yield) test, design, supply and installation of Mechanical equipment to suit yield test results (single stage pumping), testing, commissioning, laying of required lengths of pipe line up to termination /	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Arrangement of First aid box

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/ Additional Corrective Measures Required
	destination points, as per site requirements, along with related mechanical as required, including Civil Works i.e Construction of Pump houses, chamber, Construction of Boundary Walls, operation and maintenance of tube wells for a period of 1 year and allied works in Srinagar (UK/UEAP-WSS-GW/02-01)			
Srinagar	Replacement of connection pipes for proper piping arrangement from water mains to consumer household upto the AMR meter and installation of AMR meter for proper consumer connections including remote reading of volumetric water consumptions at Srinagar. UK/UEAP-WSS/UJS-GW/02-02 Srinagar (AMR)	Yes	Satisfactory	Labour licence applied & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Arrangement of First aid box
Kapkot	Additional works of GLSRs 2 nos and distribution network at Kapkot UK/UEAP-WSS/UJS-KU/01-01 (Tank & pipe line)	Yes	Satisfactory	Labour licence & workmen compensation obtained ✓ PUC certificate submitted ✓ Complete use of PPE ✓ Labour in rented accommodation ✓ Arrangement of First aid box

V. ENVIRONMENTAL MONITORING AND EVALUATION

- 21. 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:
 - o Air, noise, water and soil quality
 - Compliance to EMP
 - o Compliance to local/state/national environmental regulations
- 22. During implementation process, performance monitoring fact sheet is being prepared against each possible environmental impact and attached with the monitoring report.

 Annexure 3 shows the Performance Fact Sheet for implementation of EMP.
- 23. Base line and construction phase air, noise, water quality monitoring have been carried out at all working areas of 9 towns, as per scope of work. During the period of reporting, the following environmental monitoring tests were conducted
 - May, 2017, Baseline monitoring (Air, Water, Noise and Soil) in Kapkot II
 - May, 2017, Post construction monitoring (Air, Water, Noise and Soil) in Rudraprayag
 - ✓ In both the cases during post- construction and before construction PM _{2.5} and PM₁₀, SO₂ and NO₂ concentrations are within the standard.
 - ✓ Concentration of CO is below the detectable limit
 - ✓ Water quality parameters like pH, total hardness, total dissolved solid, chloride, coliform bacteria all are within the standard
 - ✓ Fluoride is not detected in water sample and also iron is below the limit.
 - ✓ Also residual free chlorine is not detected in water sample
 - ✓ There is no significant change in water quality status during construction
- 24. Construction stage monitoring has been conducted in all 9 towns as per Environment Management and Monitoring Plan. Environmental monitoring of operation and maintenance period has been conducted in May 2017, Kapkot and Rudraprayag. Base line monitoring for Kapkot II (additional works) has been conducted in May 2017.

VI. MAJOR PROJECT ISSUES AND PROBLEMS ENVIRONMENTAL CONTEXT

25. Field activity of 9 sub-project is over, whereas of Uttarkashi is almost over. Up to 30th June, 2017 contractors have done good progress in 10 subprojects and in 3 subprojects considerable progress has been reported. Till date, no major issues and problems have been encountered at the sub project locations.

VII. CONSULTATIONS AND RECOMMENDATIONS ENVIRONMENTAL CONTEXT

26. For protection of local environment during construction phase, application of mitigation measures will be done as per specified EMP. Pubic consultation during construction/ implementation phase particularly at sensitive areas was planned as per the requirement. To create awareness among workers and supervisors on Environment Health and safety issues during construction contractor and DSC arranged onsite training programmes for the contractor's workers along the construction supervisors.

VIII. GRIEVANCE REDRESSAL

- 27. A joint social and environmental redress mechanism has been implemented under the project. Grievances and suggestions related to inappropriate implementation of the project and components of EMP come-up from local and affected people. The expected range of grievances to be handled through this mechanism encompasses everything and is not limited to the following: i) nuisance from noise, dust, and temporary blocking of access; ii) contamination of receiving water from runoff; iii) emissions from increase vehicular traffic and stationary sources like construction machineries; iv) conflict between local residents and migrant workers; v) ownership of vegetation for clearing; and vi) damage compensation. These issues are addressed through acknowledgement, evaluation and corrective action and response approach. Grievances from public or stakeholders concerning the project and EMP implementation are received by the concerned Executive Engineer of UEAP division. The Executive Engineer shall refer the application to Design and Construction Supervision Consultants (DSC) who then assess the grievances/suggestions and if they are found to be genuine and acceptable, which are 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 is 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 is 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.
- 28. Central GR committee has been set up under UEAP at UJS.
- 29. Sample Grievance Registration Format is enclosed as **Annexure 6 & 7.**

IX. ISSUES AND ACTION PLAN

- 30. Urbanization has increased at a rapid pace in India over the recent years, much faster than the increase in urban infrastructure facilities to support them. Also, pressure of population has been more on larger towns/cities putting enormous pressure on the resources of municipalities so much so that most are unable to keep up with the provision of even basic services and infrastructure resulting in irregular availability of water, sanitation and public amenities. In extreme cases, this has aggravated risks to public health and safety. Nine towns as selected under the Emergency Program particularly for water supply sector needs immediate attention and urgent implementation process.
- 31. Experience from ADB-funded urban projects show complex social, economic, legal, institutional, and management issues in urban development largely derived from realities of urban life in developing countries like India. Urban projects typically consist of a variety of infrastructure such as roads, water, sewerage, solid waste, and slum improvement/upgrading activities. It is important to mention in this context that the final detailed engineering design in each sub project of UEAP have been prepared keeping in mind to avoid or minimize social and environmental impact as far as possible.
- 32. Contractors have done good progress in all subprojects and in some areas considerable progress have been reported. Provisions in the EMP are implemented in all the subproject towns (Refer Annexure -15). Till date, no major issues and problems have been encountered with, at the sub project locations. Suggestion & action plan is shown in Table 5.

Table 5: Suggestion & Action plan considered for satisfactory Environmental Compliances

	omphanees			
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 remaining PUC for vehicle and equipment	Contractor	Continue process.
4	Arrangement of labour camp/ rented house for contractor	Arrangement as per requirement	Contractor	Continue process
5	Restoration of the construction area	At earliest as possible	Contractor	Continue process.
6	Social relationship and public safety	Arrangement of safety tape and public consultation	Contractor	Continue process
7	Training to workers	Regular tool box training for laborers. Safeguard orientation training for contractor	Contractor, PIU, DSC	Continue process
8	Renewal of Labour License	Continue on regular basis	Contractor, PIU, DSC	Continue process

ANNEXURE 1: ENVIRONMENT FOREST AND OTHER COMPLIANCES (as on 30th June, 2017)

Package	EIA Clearance	Wet Land	Forest Clearance	Wild Life Act applicability	Tree Cutting Permission	Permission from State/ National Archaeologi cal dept.	Consent for establishment of crusher from quarry material supplier	MSW Rules	CTE/ CTO	Authorization	Ground Water Permission	PUC	Date of Environmental Monitoring
(UK/UEAP-WSS-KU/ 01 Lot 1) Kapkot	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA	NR	Submitted	Base line Jan, 2015 During construction June, 2015, Nov., 2015 and Jan., 2016
(UK/UEAP-WSS-KU/01 Lot 2) Bageshwar	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA	NR	Submitted	Base line Jan, 2015 During construction Nov., 2015, Jan., 2016 and Sept., 2016
Supply (UK/UEAP-WSS- KU/01 Lot 3) Dharchula	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA	NR	Submitted	Base line Jan, 2015 During construction June, 2015, Nov., 2015 and Jan., 2016
(UK/UEAP-WSS-GW/01- Lot 2) Rudraprayag	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA	NR	Submitted	Base line Feb., 2015 During construction Oct., 2015, April, 2016 and June, 2016
(UK/UEAP-WSS-GW/01- Lot 2) Karnprayag	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA	NR	Submitted	Base line Feb., 2015 During construction Oct., 2015, April, 2016 and June, 2016
(UK/UEAP-WSS-GW/01-	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA		Submitted	Base line

Package	EIA Clearance	Wet Land	Forest Clearance	Wild Life Act applicability	Tree Cutting Permission	Permission from State/ National Archaeologi cal dept.	Consent for establishment of crusher from quarry material supplier	MSW Rules	CTE/ CTO	Authorization	Ground Water Permission	PUC	Date of Environmental Monitoring
Lot 3) Gauchar											NR		Jan., 2015 During construction Oct., 2015, April, 2016 and June, 2016
(UK/UEAP-WSS- GW/01- Lot 4) Uttarkashi	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA	NR	Submitted	Base line Feb., 2015 During construction Oct., 2015, April, 2016 and June, 2016
(UK/UEAP-WSS-GW/01- Lot 5) Devprayag	NR	NR	Yes – forest clearance received on 18.02.2016	NR	Yes – forest clearance received on 18.02.2016	NR	NR now	NA	NR	NA	NR	Submitted	Base line April, 2015 During construction Dec., 2015, May, 2016 and Dec.,, 2016
(UK/UEAP-WSS-GW/02) Srinagar	NR	NR	NR	NR	NR	NR	NR now	NA	NR	NA	NR	Submitted	Base line Feb., 2015 During construction Oct., 2015, April, 2016 and June, 2016
(UK/UEAP-WSS-GW/02- 01) Srinagar (tube wells)	NR	NR	NR	NR	NR	NR	NR now	NA	NR	NA	NR	Submitted	Base line Feb., 2015 During construction Oct., 2015, April, 2016 and June, 2016
UK/UEAP-WSS/UJS- GW/02-02 Srinagar (AMR)	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA	NR	Submitted	Base line done in June, 2016

Package	EIA Clearance	Wet Land	Forest Clearance	Wild Life Act applicability	Tree Cutting Permission	Permission from State/ National Archaeologi cal dept.	Consent for establishment of crusher from quarry material supplier	MSW Rules	CTE/ CTO	Authorization	Ground Water Permission	PUC	Date of Environmental Monitoring
UK/UEAP-WSS/UJS- KU/01-01 Kapkot (Tank & pipe line)	NR	NR	NR	NR	NR	NR	NR	NA	NR	NA	NR	Submitted	Baseline done in May, 2017

ANNEXURE - 2: COMPLIANCE OF APPLICATION OF EMMP

Project: Water Supply - Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar, Dharchula & Kapkot II (additional works)

Package No: UK/UEAP-WSS-KU/01 Lot 1, Lot 2, Lot 3, UK/UEAP-WSS/UJS-KU/01-01

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
Site		liminary Activities phase						
1	Legislation, Permits and Agreements	In all instances, EA, IA contractors and consultants must remain in compliance with relevant environmental legislation of India at the national, state and local levels. Proof of compliance to statutory requirements must be forwarded by the facility owner and/or contractor to PMU/PIU in relation to hot mixing, stone crushers, diesel generators etc. A copy of the EMP must be kept on site during the construction period	implementation	All project sites	DSC/PIU	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	NOC not required EMP available with PIU and being implemented
2	Education of site staff on general and Environmental Conduct	Ensure that all site personnel have a basic level of 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.	Documentation – Training and awareness	All project sites	DSC/PIU and contractor	Materials and records on awareness training program	Environment Specialist of DSC and Environment Officer of PMU and contractor	Complied Site Safety training arranged by Environment Specialist of DSC and contractor Environment Officer
3	Social Impacts	Open liaison channels shall be established between the Site owner, operator, the contractors and interested and affected parties	Sign boards Project information	All project sites	DSC/PIU	Site visit and public consultations	Environment Specialist of DSC and Environment	Complied during construction

Project: Water Supply - Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar, Dharchula & Kapkot II (additional works)

Package No: UK/UEAP-WSS-KU/01 Lot 1, Lot 2, Lot 3, UK/UEAP-WSS/UJS-KU/01-01

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		such that any queries, complaints or suggestions pertaining to environmental management aspects can be dealt with quickly and by the appropriate person(s). Provide sign boards for pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.	dissemination				Officer of PMU	
4	Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created and the architectural/archaeol ogical character of the surroundings	Design will include provisions for ensuring effective maintenance and protection of the assets created so as to ensure the long term sustainability.	Maintenance procedure as per design	All project locations	PMU/PIU	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied in design
5	Layout of components and its location to avoid impacts on the aesthetics, sensitive environmental areas / attributes of the site	The project components siting will avoid impacts on the aesthetics of the site, ensure minimal impacts and in compliance with statutory and regulatory requirements.	Layout of components	All project locations	PMU/PIU/ DSC	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied in design and EMP

Project: Water Supply - Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar, Dharchula & Kapkot II (additional works)

Package No: UK/UEAP-WSS-KU/01 Lot 1, Lot 2, Lot 3, UK/UEAP-WSS/UJS-KU/01-01

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
6	Selection of materials and construction technologies, if not carefully chosen, will adversely impact the aesthetic appeal of the destinations	Selection of materials will be according to specification and from approved sources Procurement of all material according to the material specification of the contract document and sourced from licensed and approved sources.	 List of approved quarry sites and sources of materials Construction Contractor documentation 	Material source sites	Contractor, PIU, DSC	 Checking of records Visual inspectio n of sites 	PMU and DSC	Complied
7	Socio cultural resources- Ground disturbance can uncover and damage archaeological and historical remains`	There is not such location anticipated on the project site. In case of chance of finding such location, 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	Chance find protocol	All excavation sites	PIU, PMU	Site observation, document checking	Environment Specialist of DSC and Environment Officer of PMU	NA
8	Integration of energy efficiency and energy conservation programs in design of sub-project components	The detailed designs for the sub-project components shall ensure that environmental sustainability principles, including energy efficiency, resource recycling, waste minimization, rainwater harvesting etc.	Detailed design	All project locations	DSC, PMU	Document checking and site feasibility	PMU	Complied
9	Site clearance activities, including delineation of construction areas	Any removal of vegetation or tree felling shall be done after taking statutory permissions if required. All works shall be carried out such that the damage or disruption of flora other than those identified for cutting is minimum.	Necessary permission/ NOC	All project locations	DSC, PIU	Document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied Restoration done

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		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 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						
10	Blockage of access in residential area, commercial area and sensitive location like school, college, hospitals and court	Contractor will identify such location in the preconstruction stage and prepare plan approved by DSC to minimize inconvenience to the people.	Complain from sensitive receptors	Construction location	PMU/DSC	Observation and checking of design	Environment Specialist of DSC and Environment Officer of PMU	Complied
11	Slope protection near reservoir and intake well	Retaining wall will constructed near reservoir and intake well	Protection work	-	PMU/DSC	Observation and checking of design	Environment Specialist of DSC and Environment Officer of PMU	Complied in design and EMP
Cons	struction phase		1	T	T		Γ= .	
12	Construction Camps - Location, Selection, Design and Layout	Siting of the construction camps, labour camp, and stockpiles shall be as per the guidelines of UEPPCB, ULB, village panchayat and any	Selected location for construction	Construction camp site	Contractor	Site observation	Environment Specialist of DSC and Environment	Workers are staying in rented buildings with all

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		other applicable guideline to the local site. The contractor will assess the impact of the construction camp and should be acceptable to the PIU/ IA/PMU. 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 including sanitation facilities must be adequately drained. Sewage management though septic tanks and solid waste management though local ULB system or other alternate measures.	stockpile area,				Officer of PMU	facilities
13	Drinking water availability	Sufficient supply of potable water to be provided and maintained as per the standards, requirements, test methods and sampling procedure according to IS:10500.	Availability of drinking water	Working and camp site	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Arranged in working sites and also in living place
14	Waste disposal	Pre-identified disposal location (identified by Contractor in compliance to relevant regulation and approved by DSC) shall be part of Comprehensive Waste Disposal Plan Solid Waste Management Plan. Contractor shall ensure that waste shall not be disposed off near the water course or agricultural land, Orchards and Natural	 Waste Management List Complaints from sensitive receptors 	Project Locations	Contractor	 Checking of records Visual inspectio n of sites 	Environment Specialist of DSC and Environment Officer of PMU	Excess earth Utilized in back filling

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		Habitats like Grasslands.						
15	Stockpiling of construction materials	Stockpiling of construction materials and excavated earth or silt in case of construction of river bed filtration does not impact obstruct the drainage and Stockpiles will be covered to protect from dust and erosion.	Selected location and facility	Project Locations	Contractor	Site checking	Environment Specialist of DSC and Environment Officer of PMU	Complied
16	Access to Site	Contractors shall ensure that all side drains and scour check walls on access and haul roads are functioning properly and are well maintained. Contractors shall ensure that access roads are maintained in good condition	 Involvement of traffic dept. Road closure planning Maintenance of road 	Specific project location	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
17	Quarry Operations	Contractor shall finalize the quarry for procurement of construction materials after assessment of the availability of sufficient quantity of materials, quality and other logistic arrangements. The Contractor shall obtain materials from approved quarries only after consent of the Department of Mines and Geology and District Administration.	 List of approved quarry sites and sources of materials Construction Contractor documentation 	Quarries and material source areas	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
18	Arrangement for Construction Water	The contractor shall use ground/surface water as a source of water for the construction with the written consent from the concerned Department.	Water source locations	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Arranged as per EMP

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		The Contractor shall provide a list of locations and type of sources from where water for construction shall be extracted.						
19	Soil/land Erosion	Slope protection measures will be undertaken as per design to control soil erosion. There shall be a periodic checking of the site's drainage system by DSC, PIU/IA and PMU to ensure that the water flow is unobstructed.	Slope protection work	Construction locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
20	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. Waste will be disposed of to a suitable waste site in accordance with Hazardous Wastes (Management, Handling and Transboundary movement) Rules, 2008 and amendments till date and applicable norms	pollution	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
21	Water Pollution from Fuel and Lubricants	The Contractor shall ensure that all construction vehicle parking locations, fuel/ lubricants storage sites, vehicle, machinery and equipment maintenance and refueling sites shall be located at least 300 m away from rivers/streams and irrigation canal/ponds if any	pollution	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
22	Soil Pollution due to fuel and lubricants, construction waste	The fuel storage and vehicle cleaning area will be stationed such that spillage of fuels and lubricants does not contaminate the ground. All pollution parameters will be monitored as per monitoring plan.	Soil pollution- contamination of ground	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
23	Generation of dust	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	 Location of stockpiles Complaints from sensitive receptors Monitoring data Water sprinkling arrangement Cover materials 	Project locations	Contractor	 Checking of records Visual inspectio n of sites 	Environment Specialist of DSC and Environment Officer of PMU	Complied Location of stockpiles selected. Water sprinkling done. Base line and during construction air quality monitoring done as per EMP
24	Emission from Construction Vehicles, Equipment and Machinery	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 be strictly adhered to. The use of silent/quiet equipment compliant with India ambient noise standards and	equipment and machinery with air pollution control	Project locations	Contractor	 Checking of records Visual inspectio n of sites 	Environment Specialist of DSC and Environment Officer of PMU	PUC certificate submitted by contractor

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		standards specified for manufacturers shall be encouraged in the sub Project. The Contractor shall maintain a record of PUC for all vehicles and machinery used during the contract period which shall be produced for verification whenever required.	certificate					
25	Noise Pollution	The Contractor shall confirm that all Construction equipment used in construction shall strictly conform to the MoEF/CPCB noise standards and all Vehicles and equipment used in construction shall be fitted with exhaust silencers. At the construction sites noisy construction work such as crushing, operation of DG sets, use of high noise generation equipment shall be stopped during the night time between 10.00 pm to 6.00 am. 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.	silencers in noise- producing equipment and sound barriers	Project Locations	Contractor	 Checking of records Visual inspectio n of sites 	Environment Specialist of DSC and Environment Officer of PMU	Complied No such noise producing machinery mobilized at site PPE being used Base line monitoring done. During construction noise monitoring also done

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
26	Material Handling at Site	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 with welder's protective eyeshields. Workers engaged in stone breaking activities will be provided with protective goggles, masks, and clothing. All concrete mixing must take place on a designated, impermeable surface.	Available protective equipments	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied.
27	Damage, and disturbance to other infrastructure in the construction site	Confirm location of infrastructure. Finalize alignment in coordination with agencies like Uttarakhand Power Corporation Limited, Bharat Sanchar Nigam Limited, etc. Ensure prior permission of respective agency Realign pipelines, if required and subsequently revise IEE Provide public information in case of service disruptions	List of affected utilities / infrastructure if any and operators	Specific project location	Contractor	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied wherever required
28	Disposal of Construction Waste / Debris / Cut Material	The Contractor shall confirm that Safe disposal of the construction waste will be ensured in the pre-identified disposal locations. In no case, any construction waste will be disposed around	Waste Managemen t ListComplaints from	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied and excess earth utilized

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		the project site indiscriminately.	sensitive receptors					
29	Disruption / cessation of existing water supply systems due to construction activity.	Care to be taken during improvement of existing water supply systems, so that disruption in existing water supply would not occur. Tentative schedule of closure should be known to affected people prior to cessation of water supply. In case disruption of water supply exceeds the intimated schedule, arrangement for supply of potable water should be made.	Schedule of closure	Project site	Contractor, PIU	Checking of records Visual observation	Environment Specialist of DSC and Environment Officer of PMU	Not required
30	Safety Measures During Construction	Personal Protective Equipment for workers on the project and adequate safety measures for workers during handling of materials at site will be taken up. The contractor has to comply with all regulations regarding safe scaffolding, ladders, working platforms, gangway, stairwells, excavations, trenches and safe means of entry and egress. The contractor has to comply 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 be made available for all injuries likely to	 Site-specific Health and Safety (H&S) Plan Equipped first-aid stations; Medical insurance coverage for workers Supplies of potable drinking water; 	Project Locations	Contractor	Document check and visual observation	Environment Specialist of DSC and Environment Officer of PMU	PPE used by contractor First aid box available Safety tape / barricade provided Potable Drinking water available at site. Safety signage

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		be sustained during the course of work. Contractor shall also organize periodic visits by a qualified registered medical practitioner to the site and workers camp. Contact information of Doctor, availability & location of first aid box shall be displayed in appropriate language both at work site and workers camp. The Contractor will also ensure that the interests of the community are preferably not disturbed, and if unavoidable then disturbed to the minimum. Provide traffic management personnel, barricade, appropriate signage and safety information in and around the construction site and prevent local people entering into the construction site.	Personal protective equipmentsSign boards for comply					present at site
31	Clearing of Construction of Camps and Restoration	Contractor to prepare site restoration plans for approval by the Engineer. The plan is to be implemented by the contractor prior to demobilization.	Site restoration plan	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Not required as no labour or construction camp
32	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	Chance find protocol	Project Locations	Contractor	Checking of record	Environment Specialist of DSC and Environment Officer of PMU	Not required

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		excavation; Stop work immediately to allow further investigation if any finds are suspected; and Inform FPIU/DSC, and take any action they require ensuring its removal or protection in situ.						
33	Conflict with locals	Contractor shall ensure that mostly the local labourers are employed and migratory laborer shall be employed only in case of unavoidable circumstances.	Employment record	Project Locations	Contractor	Checking of records	Environment Specialist of DSC and Environment Officer of PMU	Complied Local labours are employed
34	Environment Safeguard Officer	Contractor shall appoint one full-time suitably qualified and experienced Environment and Safety Officer who shall be responsible for assisting contractor in implementation of EMP, community liaisoning, 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 project including demobilization are completed.	Available Environment and safety officer	Project site/ Office	Contractor	Observation, checking of presence and activity	Environment Specialist of DSC and Environment Officer of PMU	Complied

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
Site	Establishment and Preli	minary Activities phase		•				
1	Legislation, Permits and Agreements	In all instances, EA, IA contractors and consultants must remain in compliance with relevant environmental legislation of India at the national, state and local levels. Proof of compliance to statutory requirements must be forwarded by the facility owner and/or contractor to PMU/PIU in relation to hot mixing, stone crushers, diesel generators etc. A copy of the EMP must be kept on site during the construction period	EMP at site NOC from competent authority	All project sites	DSC/PIU	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	NOC not required EMP available with PIU
2	Education of site staff on general and Environmental Conduct	Ensure that all site personnel have a basic level of 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.	Documentation – Training and awareness	All project sites	DSC/PIU	Materials and records on awareness training program	Environment Specialist of DSC and Environment Officer of PMU	Complied Site Safety training arranged by Environment Specialist of DSC and contractor Environment officer
3	Social Impacts	Open liaison channels shall be established between the Site owner, operator, the contractors and interested and affected	Sign boards Project	All project sites	DSC/PIU	Materials and records on awareness	Environment Specialist of DSC and Environment	Complied

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		parties such that any queries, complaints or suggestions pertaining to environmental management aspects can be dealt with quickly and by the appropriate person(s). Provide sign boards for pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.	information dissemination			training program	Officer of PMU	
4	Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created and the architectural /archaeological character of the surroundings	Design will include provisions for ensuring effective maintenance and protection of the assets created so as to ensure the long term sustainability.	Maintenance procedure as per design	All project sites	PMU/PIU	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied in design
5	Layout of components and its location to avoid impacts on the aesthetics, sensitive environmental areas / attributes of the site	The project components siting will avoid impacts on the aesthetics of the site, ensure minimal impacts and in compliance with statutory and regulatory requirements.	Layout of components	All project locations	PMU/PIU/ DSC	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied in design and EMP

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
6	Selection of materials and construction technologies, if not carefully chosen, will adversely impact the aesthetic appeal of the destinations	Selection of materials will be according to specification and from approved sources Procurement of all material according to the material specification of the contract document and sourced from licensed and approved sources.	 List of approved quarry sites and sources of materials Construction Contractor documentation 	Material source sites	Contractor, PIU, DSC	Checking of recordsVisual inspection of sites	PMU	Complied
7	Socio cultural resources- Ground disturbance can uncover and damage archaeological and historical remains`	There is not such location anticipated on the project site. In case of chance of finding such location, 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		All project locations	PIU, PMU	Site observation, document checking	Environment Specialist of DSC and Environment Officer of PMU	NR
8	Integration of energy efficiency and energy conservation programs in design of sub-project components	The detailed designs for the sub-project components shall ensure that environmental sustainability principles, including energy efficiency, resource recycling, waste minimization, rainwater harvesting etc.	Detailed design	All project locations	DSC, PMU	Document checking and site feasibility	PMU	Complied
9	Site clearance activities, including delineation of construction areas	Any removal of vegetation or tree felling shall be done after taking statutory permissions if required. All works shall be carried out such that the damage or disruption of flora other	Necessary permission/ NOC	All project locations	DSC, PIU	Document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied Restoration being done

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Package No: UK/UEAP-WSS-GW/01- Lot 1, Lot 2, Lot 3, Lot 4 & Lot 5

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
10		than those identified for cutting is minimum. Only ground cover/shrubs that impinge directly on the permanent works or necessary temporary works shall be removed with prior approval from the Environmental Expert of DSC 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		Construction		Observation		
10	Blockage of access in residential area, commercial area and sensitive location like school, college, hospitals and court	preconstruction stage and prepare plan	•	Construction location	PMU/DSC	Observation and checking of design	Environment Specialist of DSC and Environment Officer of PMU	Complied
11	Slope protection near reservoir and intake well	Retaining wall will constructed near reservoir and intake well	Protection work	-	PMU/DSC	Observation and checking of design	Environment Specialist of DSC and Environment Officer of PMU	Complied in design and EMP

Construction phase

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
12	Construction Camps - Location, Selection, Design and Layout	Siting of the construction camps, labour camp, and stockpiles shall be as per the guidelines of UEPPCB, ULB, village panchayat and any other applicable guideline to the local site. The contractor will assess the impact of the construction camp and should be acceptable to the PIU/ IA/PMU. 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 including sanitation facilities must be adequately drained. Sewage management though septic tanks and solid waste management though local ULB system or other alternate measures.	Selected location for construction work camps and stockpile area,	Construction camp site	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	No Labour camp , Workers are living in rented house all facilities provided as per EMP
13	Drinking water availability	Sufficient supply of potable water to be provided and maintained as per the standards, requirements, test methods and sampling procedure according to IS:10500.	Availability of drinking water	Working and camp site	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Provided at working site and living place
14	Waste disposal	Pre-identified disposal location (identified by Contractor in compliance to relevant regulation and approved by DSC) shall be part of Comprehensive Waste Disposal Plan Solid	Waste Managemen t ListComplaints	Project Locations	Contractor	Checking of recordsVisual	Environment Specialist of DSC and Environment	Under compliance Utilization of

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		Waste Management Plan. Contractor shall ensure that waste shall not be disposed off near the water course or agricultural land, Orchards and Natural Habitats like Grasslands.	from sensitive receptors			inspectio n of sites	Officer of PMU	excess earth being done.
15	Stockpiling of construction materials	Stockpiling of construction materials and excavated earth or silt in case of construction of river bed filtration does not impact obstruct the drainage and Stockpiles will be covered to protect from dust and erosion.	location and	Project Locations	Contractor	Site checking	Environment Specialist of DSC and Environment Officer of PMU	Complied
16	Access to Site	Contractors shall ensure that all side drains and scour check walls on access and haul roads are functioning properly and are well maintained. Contractors shall ensure that access roads are maintained in good condition	 Involvement of traffic dept. Road closure planning Maintenance of road 	Specific project location	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
17	Quarry Operations	Contractor shall finalize the quarry for procurement of construction materials after assessment of the availability of sufficient quantity of materials, quality and other logistic arrangements. The Contractor shall obtain materials from approved quarries only after consent of the Department of Mines and Geology and District	 List of approved quarry sites and sources of materials Construction Contractor documentation 	Quarries and material source areas	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		Administration.						
18	Arrangement for Construction Water	The contractor shall use ground/surface water as a source of water for the construction with the written consent from the concerned Department. The Contractor shall provide a list of locations and type of sources from where water for construction shall be extracted.		Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Arranged in consultation with PIU
19	Soil/land Erosion	Slope protection measures will be undertaken as per design to control soil erosion. There shall be a periodic checking of the site's drainage system by DSC, PIU/IA and PMU to ensure that the water flow is unobstructed.	Slope protection work	Construction locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Under Compliance
20	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. Waste will be disposed of to a suitable waste site in accordance with Hazardous Wastes (Management, Handling and Transboundary movement) Rules, 2008 and amendments till date and applicable norms	 Water pollution Complaint from sensitive receptors 	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Arranged near water source
21	Water Pollution from Fuel and Lubricants	The Contractor shall ensure that all construction vehicle parking locations, fuel/	• Water	Project	Contractor	Site	Environment Specialist of	Complied

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		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 if any	pollutionComplaint from sensitive receptors	locations		observation	DSC and Environment Officer of PMU	
22	Soil Pollution due to fuel and lubricants, construction waste	The fuel storage and vehicle cleaning area will be stationed such that spillage of fuels and lubricants does not contaminate the ground. All pollution parameters will be monitored as per monitoring plan.	Soil pollution- contamination of ground	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
23	Generation of dust	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	 Location of stockpiles Complaints from sensitive receptors Monitoring data Water sprinkling arrangement Cover materials 	Project locations	Contractor	 Checking of records Visual inspection of sites 	Environment Specialist of DSC and Environment Officer of PMU	Complied Location of stockpiles selected. Covering of materials implemented Water sprinkling being done. Base line air quality monitoring done and during construction monitoring also

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
								done as per EMP
24	Emission from Construction Vehicles, Equipment and Machinery	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 be strictly adhered to. The use of silent/quiet equipment compliant with India ambient noise standards and standards specified for manufacturers shall be encouraged in the sub Project. The Contractor shall maintain a record of PUC for all vehicles and machinery used during the contract period which shall be produced for verification whenever required.	equipment and machinery with air pollution control	Project locations	Contractor	 Checking of records Visual inspection of sites 	Environment Specialist of DSC and Environment Officer of PMU	PUC certificate submitted
25	Noise Pollution	The Contractor shall confirm that all Construction equipment used in construction shall strictly conform to the MoEF/CPCB noise standards and all Vehicles and equipment used in construction shall be fitted with exhaust silencers. At the construction sites noisy construction	 Complaints from sensitive receptors Use of silencers in noise- producing equipment 	Project Locations	Contractor	 Checking of records Visual inspectio n of sites 	Environment Specialist of DSC and Environment Officer of PMU	No such noise producing machinery mobilized at site PPE in use

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		work such as crushing, operation of DG sets, use of high noise generation equipment shall be stopped during the night time between 10.00 pm to 6.00 am. 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.	Monitoring data					Base line monitoring done. During construction monitoring also done
26	Material Handling at Site	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 with welder's protective eyeshields. Workers engaged in stone breaking activities will be provided with protective goggles, masks, and clothing. All concrete mixing must take place on a designated, impermeable surface.	Available protective equipments	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied.

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
27	Damage, and disturbance to other infrastructure in the construction site	Confirm location of infrastructure. Finalize alignment in coordination with agencies like Uttarakhand Power Corporation Limited, Bharat Sanchar Nigam Limited, etc. Ensure prior permission of respective agency Realign pipelines, if required and subsequently revise IEE Provide public information in case of service disruptions	List of affected utilities / infrastructure if any and operators	Specific project location	Contractor	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Not required
28	Disposal of Construction Waste / Debris / Cut Material	The Contractor shall confirm that Safe disposal of the construction waste will be ensured in the pre-identified disposal locations. In no case, any construction waste will be disposed around the project site indiscriminately.	 Waste Management List Complaints from sensitive receptors 	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Utilization of excess earth and demolish waste done
29	Disruption / cessation of existing water supply systems due to construction activity.	Care to be taken during improvement of existing water supply systems, so that disruption in existing water supply would not occur. Tentative schedule of closure should be known to affected people prior to cessation of water supply. In case disruption of water supply exceeds the intimated schedule, arrangement for supply of	Schedule of closure	Project site	Contractor, PIU	Checking of records Visual observation	Environment Specialist of DSC and Environment Officer of PMU	Not required

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		potable water should be made.						
30	Safety Measures During Construction	Personal Protective Equipment for workers on the project and adequate safety measures for workers during handling of materials at site will be taken up. The contractor has to comply with all regulations regarding safe scaffolding, ladders, working platforms, gangway, stairwells, excavations, trenches and safe means of entry and egress. The contractor has to comply 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 be made available for all injuries likely to be sustained during the course of work. Contractor shall also organize periodic visits by a qualified registered medical practitioner to the site and workers camp. Contact information of Doctor, availability & location of first aid box shall be displayed in appropriate language both at work site and workers camp. The Contractor will also ensure that the interests of the community are preferably not disturbed, and if unavoidable then disturbed to	Health and Safety (H&S) Plan • Equipped first-aid stations; • Medical insurance coverage for workers • Supplies of potable	Project Locations	Contractor	Document check and visual observation	Environment Specialist of DSC and Environment Officer of PMU	PPE used by contractor First aid box available Safety tape / barricade provided Supplies of potable drinking water at all sites Sign board at all sites Overall complied

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		the minimum. Provide traffic management personnel, barricade, appropriate signage and safety information in and around the construction site and prevent local people entering into the construction site.	Number of signages placed at subproject location					
31	Clearing of Construction of Camps and Restoration	Contractor to prepare site restoration plans for approval by the Engineer. The plan is to be implemented by the contractor prior to demobilization.	Site restoration plan	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Not required as workers are living in rented house
32	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 if any finds are suspected; and Inform FPIU/DSC, and take any action they require ensuring its removal or protection in situ.	Chance find protocol	Project Locations	Contractor	Checking of record	Environment Specialist of DSC and Environment Officer of PMU	Not required till date
33	Conflict with locals	Contractor shall ensure that mostly the local labourers are employed and migratory laborer shall be employed only in case of unavoidable circumstances.	Employment record	Project Locations	Contractor	Checking of records	Environment Specialist of DSC and Environment Officer of PMU	Complied Local labours are employed

Rudraprayag, Karanprayag, Gauchar, Uttarkashi & Devprayag

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
34	Environment	Contractor shall appoint one full-time suitably		Project site/	Contractor	Observation,	Environment	Complied
	Safeguard Officer	qualified and experienced Environment and		Office		checking of	Specialist of	
		Safety Officer who shall be responsible for	and safety			presence	DSC and Environment Officer of PMU	
		assisting contractor in implementation of EMP,	officer			and activity		
		community liaisoning, 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 project including						
		demobilization are completed.						

Project: Supply, Laying, Jointing, Testing, Commissioning of Tubewells and AMR meter at Srinagar

Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
Site I	Establishment and Prelim	inary Activities phase			<u>.</u>			
1	Legislation, Permits and Agreements	In all instances, EA, IA contractors and consultants must remain in compliance with relevant environmental legislation of India at the national, state and local levels. Proof of compliance to statutory requirements must be forwarded by the facility owner and/or contractor to PMU/PIU in relation to hot mixing, stone crushers, diesel generators etc. A copy of the EMP must be kept on site during the construction period	EMP at site NOC from competent authority	All project sites	DSC/PIU	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	NOC not required EMP available with PIU
2	Education of site staff on general and Environmental Conduct	Ensure that all site personnel have a basic level of 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.	Documentation – Training and awareness	-	DSC/PIU	Materials and records on awareness training program	Environment Specialist of DSC and Environment Officer of PMU	Complied Site Safety training arranged by Environment Specialist of DSC Tool box training will be required on regular basis
3	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	Sign boards Project information dissemination	-	DSC/PIU	Materials and records on awareness training program	Environment Specialist of DSC and Environment Officer of PMU	Complied

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		with quickly and by the appropriate person(s). Provide sign boards for pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.						
4	Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created and the architectural/archaeolo gical character of the surroundings	Design will include provisions for ensuring effective maintenance and protection of the assets created so as to ensure the long term sustainability.	Maintenance procedure as per design	-	PMU/PIU	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied in design
5	Layout of components and its location to avoid impacts on the aesthetics, sensitive environmental areas / attributes of the site	The project components siting will avoid impacts on the aesthetics of the site, ensure minimal impacts and in compliance with statutory and regulatory requirements.	Layout of components	All project locations	PMU/PIU/ DSC	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied in design and EMP
6	Selection of materials and construction technologies, if not carefully chosen, will adversely impact the aesthetic appeal of the	Selection of materials will be according to specification and from approved sources Procurement of all material according to the material specification of the contract document and sourced from licensed and approved sources.	 List of approved quarry sites and sources of materials Construction Contractor 	Material source sites	Contractor, PIU, DSC	Checking of recordsVisual inspection of sites	PMU	Under compliance Approval obtained/ or to be obtained from PMU and DSC.

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
	destinations		documentation					
7	Socio cultural resources- Ground disturbance can uncover and damage archaeological and historical remains`		Chance find protocol	All sites	PIU, PMU	Site observation, document checking	Environment Specialist of DSC and Environment Officer of PMU	NR
8	Integration of energy efficiency and energy conservation programs in design of sub-project components	components shall ensure that environmental sustainability principles, including energy	Detailed design	-	DSC, PMU	Document checking and site feasibility	PMU	Complied
9	Site clearance activities, including delineation of construction areas	, ,	Necessary permission/ NOC		DSC, PIU	Document checking	Environment Specialist of DSC and Environment Officer of PMU	Complied

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		procedures as per the rehabilitation plan						
10	Blockage of access in residential area, commercial area and sensitive location like school, college, hospitals and court	preconstruction stage and prepare plan approved	Complain from sensitive receptors	Construction location	PMU/DSC	Observation and checking of design	Environment Specialist of DSC and Environment Officer of PMU	Complied
11	Slope protection near reservoir and intake well	Retaining wall will constructed near reservoir and intake well	Protection work	-	PMU/DSC	Observation and checking of design	Environment Specialist of DSC and Environment Officer of PMU	Complied in design and EMP
Cons	truction phase							
12	Construction Camps - Location, Selection, Design and Layout	Siting of the construction camps, labour camp, and stockpiles shall be as per the guidelines of UEPPCB, ULB, village panchayat and any other applicable guideline to the local site. The contractor will assess the impact of the construction camp and should be acceptable to the PIU/ IA/PMU. 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 including sanitation facilities must be adequately drained. Sewage management though septic tanks and solid waste management though local ULB system	Selected location for construction work camps and stockpile area,	Construction camp site	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Arranged rented house All facilities- toilet, drinking water provided as per EMP

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
13	Drinking water availability	or other alternate measures. Sufficient supply of potable water to be provided and maintained as per the standards, requirements, test methods and sampling procedure according to	Availability of drinking water	Working and camp site	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Provided at working sites and rented houses
14	Waste disposal	IS: 10500. Pre-identified disposal location (identified by Contractor in compliance to relevant regulation and approved by DSC) shall be part of Comprehensive Waste Disposal Plan Solid Waste Management Plan. Contractor shall ensure that waste shall not be disposed off near the water course or agricultural land, Orchards and Natural Habitats like Grasslands.	Waste Management List Complaints from sensitive receptors	Project Locations	Contractor	Checking of records Visual inspection of sites	Environment Specialist of DSC and Environment Officer of PMU	Under compliance Utilization of excess earth is being done.
15	Stockpiling of construction materials	Stockpiling of construction materials and excavated earth or silt in case of construction of river bed filtration does not impact obstruct the drainage and Stockpiles will be covered to protect from dust and erosion.	Selected location and facility	Project Locations	Contractor	Site checking	Environment Specialist of DSC and Environment Officer of PMU	Complied
16	Access to Site	Contractors shall ensure that all side drains and scour check walls on access and haul roads are functioning properly and are well maintained. Contractors shall ensure that access roads are maintained in good condition	 Involvement of traffic dept. Road closure planning Maintenance of road 	Specific project location	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
17	Quarry Operations	Contractor shall finalize the quarry for procurement of construction materials after assessment of the availability of sufficient quantity of materials, quality and other logistic arrangements. The Contractor shall obtain materials from approved quarries only after consent of the Department of Mines and Geology and District Administration.	 List of approved quarry sites and sources of materials Construction Contractor documentation 	Quarries and material source areas	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
18	Arrangement for Construction Water	The contractor shall use ground/surface water as a source of water for the construction with the written consent from the concerned Department. The Contractor shall provide a list of locations and type of sources from where water for construction shall be extracted.	Water source locations	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Arranged in consultation with PIU
19	Soil/land Erosion	Slope protection measures will be undertaken as per design to control soil erosion. There shall be a periodic checking of the site's drainage system by DSC, PIU/IA and PMU to ensure that the water flow is unobstructed.	Slope protection work	Construction locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
20	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. Waste will be disposed of to a suitable waste site in accordance with Hazardous Wastes (Management, Handling and	Water pollution Complaint from sensitive receptors	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Arranged near water source

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
21	Water Pollution from Fuel and Lubricants	Transboundary movement) Rules, 2008 and amendments till date and applicable norms The Contractor shall ensure that all construction vehicle parking locations, fuel/ lubricants storage sites, vehicle, machinery and equipment maintenance and refueling sites shall be located at least 300 m away from rivers/streams and irrigation	Water pollution Complaint from sensitive receptors	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
22	Soil Pollution due to fuel and lubricants, construction waste	canal/ponds if any The fuel storage and vehicle cleaning area will be stationed such that spillage of fuels and lubricants does not contaminate the ground. All pollution parameters will be monitored as per monitoring plan.	Soil pollution- contamination of ground	Project locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied
23	Generation of dust	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	 Location of stockpiles Complaints from sensitive receptors Monitoring data Water sprinkling arrangement Cover materials 	Project locations	Contractor	Checking of records Visual inspection of sites	Environment Specialist of DSC and Environment Officer of PMU	Complied Location of stockpiles selected. Covering of materials done Water sprinkling being done. Base line air quality monitoring done and during construction monitoring also

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
								done as per EMP
24	Emission from Construction Vehicles, Equipment and Machinery	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 be strictly adhered to. The use of silent/quiet equipment compliant with India ambient noise standards and standards specified for manufacturers shall be encouraged in the sub Project. The Contractor shall maintain a record of PUC for all vehicles and machinery used during the contract period which shall be produced for verification whenever required.	Heavy equipment and machinery with air pollution control Availability of PUC certificate	Project locations	Contractor	Checking of records Visual inspection of sites	Environment Specialist of DSC and Environment Officer of PMU	PUC certificate submitted
25	Noise Pollution	The Contractor shall confirm that all Construction equipment used in construction shall strictly conform to the MoEF/CPCB noise standards and all Vehicles and equipment used in construction shall be fitted with exhaust silencers. At the construction sites noisy construction work such as crushing, operation of DG sets, use of high noise generation equipment shall be stopped during the night time between 10.00 pm to 6.00 am. Noise limits for construction equipment used in this	 Complaints from sensitive receptors Use of silencers in noise-producing equipment and sound barriers Monitoring data 	Project Locations	Contractor	Checking of records Visual inspection of sites	Environment Specialist of DSC and Environment Officer of PMU	No such noise producing machinery mobilized at site PPE are in use Base line monitoring done.

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		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.						During construction monitoring also done
26	Material Handling at Site	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 with welder's protective eye-shields. Workers engaged in stone breaking activities will be provided with protective goggles, masks, and clothing. All concrete mixing must take place on a designated, impermeable surface.	Available protective equipments	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Partially complied. Instruction given to contractor for full compliance
27	Damage, and disturbance to other infrastructure in the construction site		List of affected utilities / infrastructure if any and operators	Specific project location	Contractor	Observation and document checking	Environment Specialist of DSC and Environment Officer of PMU	Not required now.

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		disruptions						
28	Disposal of Construction Waste / Debris / Cut Material	The Contractor shall confirm that Safe disposal of the construction waste will be ensured in the pre-identified disposal locations. In no case, any construction waste will be disposed around the project site indiscriminately.	 Waste Management List Complaints from sensitive receptors 	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Complied Utilization of excess earth and demolish waste done
29	Disruption / cessation of existing water supply systems due to construction activity.	Care to be taken during improvement of existing water supply systems, so that disruption in existing water supply would not occur. Tentative schedule of closure should be known to affected people prior to cessation of water supply. In case disruption of water supply exceeds the intimated schedule, arrangement for supply of potable water should be made.	Schedule of closure	Project site	Contractor, PIU	Checking of records Visual observation	Environment Specialist of DSC and Environment Officer of PMU	Not required as per present nature of work
30	Safety Measures During Construction	Personal Protective Equipment for workers on the project and adequate safety measures for workers during handling of materials at site will be taken up. The contractor has to comply with all regulations regarding safe scaffolding, ladders, working platforms, gangway, stairwells, excavations, trenches and safe means of entry and egress. The contractor has to comply 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 be made available for all	 Site-specific Health and Safety (H&S) Plan Equipped first- aid stations; Medical insurance coverage for workers Supplies of potable drinking water; 	Project Locations	Contractor	Document check and visual observation	Environment Specialist of DSC and Environment Officer of PMU	PPE used by contractor First aid box available at all working ocations Safety tape / barricade provided at all excavated sites

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		injuries likely to be sustained during the course of work. Contractor shall also organize periodic visits by a qualified registered medical practitioner to the site and workers camp. Contact information of Doctor, availability & location of first aid box shall be displayed in appropriate language both at work site and workers camp. The Contractor will also ensure that the interests of the community are preferably not disturbed, and if unavoidable then disturbed to the minimum. Provide traffic management personnel, barricade, appropriate signage and safety information in and around the construction site and prevent local people entering into the construction site.	 Record of H&S orientation trainings Personal protective equipments Sign boards for comply public safety Complaints from sensitive receptors Number of signages placed at subproject location 					Signages present Overall complied
31	Clearing of Construction of Camps and Restoration	Contractor to prepare site restoration plans for approval by the Engineer. The plan is to be implemented by the contractor prior to demobilization.	Site restoration plan	Project Locations	Contractor	Site observation	Environment Specialist of DSC and Environment Officer of PMU	Not required , workers living in rented houses
32	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 if any finds are suspected; and	Chance find protocol	Project Locations	Contractor	Checking of record	Environment Specialist of DSC and Environment Officer of PMU	Not required

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Sr. No.	Field /Issue	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status/ Explanation
		Inform FPIU/DSC, and take any action they require ensuring its removal or protection in situ.						
33	Conflict with locals	Contractor shall ensure that mostly the local labourers are employed and migratory laborer shall be employed only in case of unavoidable circumstances.	Employment record	Project Locations	Contractor	Checking of records	Environment Specialist of DSC and Environment Officer of PMU	Complied Local labours are employed
34	Environment Safeguard Officer	Contractor shall appoint one full-time suitably qualified and experienced Environment and Safety Officer who shall be responsible for assisting contractor in implementation of EMP, community liaisoning, 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 project including demobilization are completed.	Available Environment and safety officer	Project site/ Office	Contractor	Observation, checking of presence and activity	Environment Specialist of DSC and Environment Officer of PMU	Complied

ANNEXURE 3: ENVIRONMENT PERFORMANCE FACT SHEET

S.No.	project Code	Name of Sub Project	Name of Contractor	Part of contract Document (Yes / No)	being Implemented (Yes / No)	Status of EMP Implementation Satisfactory, Partially Satisfactory, Below Satisfactory)	Ē	Environ		l Conse Require	nts / Clea	rances	Nomination of Environmental & Social Safeguard Officer by Contractor (Nominated / Yet to be Nominated)	Dust Control (Excellent, Satisfactory, Partially Satisfactory, Below Satisfaction)	Labour Camp Management (Excellent, Satisfactory, Partially Satisfactory, Below Satisfaction)	Workers Safety Measures (Excellent, Satisfactory, Partially Satisfactory, Below Satisfaction)	Traffic Safety Measures (Excellent, Satisfactory, Partially Satisfactory, Below Satisfaction)
	qnS	ຮູ້ ອີ້ ເສັ້ນ v supply sub Project	Name o	EMP Part of c	EMP being (Ye	Overall Status of (Excellent, Satisfacto Below S	Tree cutting	Crusher	Batching Plant	Hot Mix Plant	Diesel Generator set	PUC for Contractor's Vehicles					
1	(UK/UEAP-WSS-KU/01 Lot 1) Kapkot	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar & Dharchula	Kasmirilal Construction Pvt. Ltd.	Yes	Yes	Satisfactory	NR	Z Z	NR	N.	N.R.	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory.	Not required now

2	(UK/UEAP-WSS- KU/01 Lot 2) Bgeshwar	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar & Dharchula	Kasmirilal Construction Pvt. Ltd.	Yes	Yes	Satisfactory	NR	N N	NR	NR	NR	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Not required now
3	(UK/UEAP-WSS- KU/01 Lot 3) Dharchula	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. at Kapkot, Bageshwar & Dharchula	Kasmirilal Construction Pvt. Ltd.	Yes	Yes	Satisfactory	NR	NR	NR	NR	NR	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Not required now
4	(UK/UEAP-WSS- GW/01- Lot 1) Rudraprayag	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc.	R. K. Engineers Sales Ltd.	Yes	Yes.	Satisfactory	NR	NR	NR	NR	NR	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Not required now
5	(UK/UEAP-WSS- GW/01- Lot 2) Karnprayag	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc.	R. K. Engineers Sales Ltd.	Yes	Yes.	Satisfactory	NR	N	N.	NR	N N	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory.	Not required now
6	UK/UEAP-WSS- GW/01- Lot 3) Gauchar	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc. (R. K. Engineers Sales Ltd.	Yes	Yes.	Satisfactory -	NR	NR	N.	NR	N N	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory -	Not required now

7	(UK/UEAP-WSS-GW/01- Lot 4) Uttarkashi	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc.	R. K. Engineers Sales Ltd.	Yes	Yes.	Satisfactory	R R	N N	Z Z	N R	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Not required now
8	(UK/UEAP-WSS- GW/01- Lot 5) Devprayag	Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains and Design, Supply, Construction and Commissioning of Infiltration Wells, WTP, GLSR etc.		Yes	o Z	Satisfactory	under processes	N. N.	N.	NR	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Not required now
9	UK/UEAP-WSS-GW/02) Srinagar	Construction of low level pump house, installation of raw water and clear water pumping machinery, Supply, Laying, Jointing, Testing and Commissioning of Water Transmission Mains, Rehabilitation of WTP's Design, Supply, Construction and Commissioning of Infiltration Wells, Construction of Sump and Electrical and Instrumentation works (R. K. Engineers Sales Ltd.	Yes	Yes	Satisfactory	N N N N	N.	NR	NR	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Not required now
10	UK/UEAP-WSS-GW/02-01) Srinagar	Design and Construction of Tube Wells bore well, performance (yield) test, design, supply and installation of Mechanical equipment to suit yield test results (single stage pumping), testing, commissioning, laying of required lengths of pipe line up to termination / destination points, as per site requirements, Construction of Pump houses, chamber, Construction of Boundary Walls, operation and maintenance of tube wells for a period of 1 year and allied works in Srinagar	Uttaranchal Tubewell Construction	Yes	Yes	Satisfactory	NR NR	NR	NR	N.	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Not required now

UK/UEAP-WSS/UJS- GW/02-02 Srinagar	Replacement of connection pipes for proper piping arrangement from water mains to consumer household upto the AMR meter and installation of AMR meter for proper consumer connections including remote reading of volumetric water consumptions at Srinagar.	RG AQUAFIL (JV)	Yes	Yes	Satisfactory	N N	N N	N. N.	Ϋ́ Z	N R	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Satisfactory
UK/UEAP-WSS/UJS-KU/01- 01 Kapkot II (Tank & pipe	Additional works of GLSRs 2 nos and distribution network at Kapkot	Kasmirilal Construction Pvt. Ltd	Yes	Yes	Satisfactory	N.	X X	NR	N N	N	Submitted	Nominated	Satisfactory	Rented house arranged	Satisfactory	Not required now

ANNEXURE 4: Public Consultations done during (January to June, 2017)

DURING CONSTRUCTION/ IMPLEMENTATION

Sr	Location	Pkg No	Date of consultation	Number of People
1	2	3	4	5
1	Uttarkashi	UK/UEAP-WSS-GW/01- Lot 4	17.01.17	21
2	Gauchar	UK/UEAP-WSS-GW/01- Lot 3	18.01.17	17
3	Devprayag	UK/UEAP-WSS-GW/01- Lot 5	19.01.17	8
4	Rudraprayag	UK/UEAP-WSS-GW/01- Lot 1	19.01.17	8
5	Karanprayag	UK/UEAP-WSS-GW/01- Lot 2	19.01.17	15
6	Srinagar	UK/UEAP-WSS-GW/02	19.01.17	10
7	Srinagar AMR meter work	UK/UEAP-WSS/UJS-GW/02-02	15.06.17	16

Annexure 5: Grievance Redressal Cell

	परियोजना प्रबन्धन ईकाई उत्तराखण्ड डिजास्टर रिकवरी प्रोजै उत्तराखण्ड ईमरजेन्सी असिस्टेंस प्र सिडकुल बिल्डिंग 29 आई.आई.ई. (आई.टी. पाव देहरादून–248001 उत्तराखण्ड	ोजीवट र्ह) सहस्त्रधारा रोड़
ो परिसम्पत्तियों, बहुउददेशीय भ त्ये परियोजना प्रबन्धन ईकाई एव न संपर्क सूत्रों पर कार्यालय । न्द्रीय समस्या निवारण प्रकोष	गत आवास, सडक, पुल दुगम क्षत्रा क ालय हल वनों एवं एफ आर पी. हट्स बनायें जा रहे है। इं जनपद स्तर पर समस्या निवारण प्रकोष्ठ गठित दिवसों एवं कार्यालय समयावधि में संपर्क वि दूरभाष संख्या 0135—2708376, दून ई मेल—grievancepmu@gmail.c	क्या जा सकता है।
- जनपद	नोडल अधिकारी	दूरमाष संख्या
द्रप्रयोग	श्री आशीष सेमवाल / रहिल अधिरा	8859504022 / 8859504026
द्रप्रयाग	श्री आशीष सेमवाल / सहल जीयरा श्री नन्द किशोर जोशी	
द्रप्रयाग मोली तरकाशी	श्री आशीष सेमवाल / सहस्र जीयल श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल	8859504022 / 8.859504026 9411352136
द्रप्रयाग गोली तरकाशी.	श्री आशीष सेमवाल / राहुल जीयरा श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल क्, रिया संगूरी	8859504022 / 8.859504026 9411352136 9410350338
द्रप्रयाग मोली तरकाशी गेश्वर थोरागढ	श्री आशीष सेमवाल / सहस्र जीयल श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल	8859504022 / 8859504026 9411352136 9410350338 8193917518
द्रप्रयाग मोली तरकाशी गंश्वर धोरागढ स्मोड	श्री आशीष संगवाल / सहस्र जीयरा श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल कु रिया संग्री श्री आर. एच. राणां	8859504022 / 8.859504026 9411352136 9410350338 8193917518 9412079945 9412929707 9412347265
द्रप्रयाग गोली तरकाशी गेश्वर धोरागढ स्मोड	श्री आशीप संगवाल / सहस्र जीयरा श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल कु रिया संग्री श्री आर एच राणां श्री राकेश जोशी	8859504022 / 8.859504026 9411352136 9410350338 8193917518 9412079945 9412929707 9412347265 9456523808
द्रप्रयाग नीली तरकाशी गुरवर धोरागढ स्पोड मावत	श्री आशीष संगवाल / सहस्र जीयरा श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल कु रिया संगूरी श्री आर एवं राणा श्री राकेश जोशी	8859504022 / 8859504026 9411352136 9410350338 8193917518 9412079945 9412929707 9412347265 9456528808 7447470470
द्रप्रयाग मोली तरकाशी गेश्वर धोरागढ त्मोड मावत नीताल	श्री आशीप संगवाल / सहस्र जीयरा श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल कु रिया संग्री श्री आर एच राणा श्री राकेश जोशी श्री मनोज पाण्डे	8859504022 / 8.859504026 9411352136 9410350338 8193917518 9412079945 9412929707 9412347265 9456523808 7417170470
द्रप्रयाग मोली तरकाशी गेश्वर धोरागढ त्मोड म्पावत नीताल इमसिंह नगर	श्री आशीप संगवाल / सहस्र जीयरा श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल कु रिया संग्री श्री आर एच राणा श्री राकेश जोशी श्री मनोज पाण्डे श्री शैलेश कुमार	8859504022 / 8859504026 9411352136 9410350338 8193917518 9412079945 9412347265 9456523808 7417170470
	श्री आशीप संगवाल / सहस्र जीयरा श्री नन्द किशोर जोशी श्री देवेन्द्र पटवाल कु रिया संग्री श्री आर एच राणा श्री राकेश जोशी श्री मनोज पाण्डे श्री शैलेश कुमार	8859504022 / 8.859504026 9411352136 9410350338 8193917518 9412079945 9412929707 9412347265 9456523808 7417170470

ANNEXURE 6: Sample Grievance Registration Form

Date

(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

Contact Informat	ion/Personal Details	S					
Name			(Gender	Male Female	Age	
Home Address			•		•		
Village / Town							
District							
Phone no.							
E-mail							
your grievance b If included as att	estion/Comment/Que elow: achment/note/letter, t us to reach you for	, please tick here:			•		ow) or
FOR OFFICIAL USI	•	- Toodback of apa					
Registered by: (N	Name of official regis	stering grievance	·)				
If – then mode:							
Note/Letter							
• E-mail							
Verbal/Telep	honic						
Reviewed by: (Na	ames/Positions of O	Official(s) reviewir	ıg gı	rievance)			
Action Taken:							
Whether Action	Taken Disclosed:						
			•	Yes			
			•	No			
Means of Disclos	LIFO'						

GRIVENCES RECORD AND ACTION TAKEN

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

परिशिष्ट 7: नम्ना शिकायत पंजीकरण फार्म

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

UEAP शिकायतें, स्झाव, 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 ताकि 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 जायगा 1 आपका नाम ऊपर (गोपनीय) * लेखन / टाइपिंग द्वारा हमें सूचित करें धन्यवाद

तारीख			पंजीकरण का स्था	T	
संपर्क करने संबंधी	जानकारी / ट्यक्तिग	त विवरण			
नाम		लिंग	पुरुष	आयु	
			महिला		
घर का पता					
गांव / शहर					
जनपद					
फोन नं.					
ई मेल					
शिकायत / सुझाव /	/ टिप्पणी / प्रश्न नीचे	अपनी शिकायत क	विवरण (जो, क्या, व	कहां और कैसे) प्रदान	करें:
सलगनक / नोट / प	गत्र के रूप में, शामिल	हैं, कृपया यहाँ टिक	करें		
हम आप तक प्रतिर्ा	क्रेया के लिए कैसे पहुँ	उँच संकते हैं या अपर्न	ो टिप्पणी / शिकायत	पर नवीनीकरण?	
केवल कार्यालय उपर	प्रोग के लिए				

द्वारा पंजीकृत:	(सरकारी पंजीकरप	ग शिकायत का नाम	Γ)				
यदि -फिर विधि	:						
• नोट / १	पत्र						
• ई मेल							
• मौखि	क / टेलीफोन						
से समीक्षित: (न	ाम / अधिकारी की	पोजिशन समीक्षा वि	शेकाय	त)			
की गई कार्रवाई:							
की गई कार्रवाई	का खुलासा:			• ह	गं		
				• -	नहीं		
प्रकटीकरण का व	मतलब:			1			
शिकायत	तारीख	नाम और	शिक	ायत के	जगह	निवारण की	टिप्पणियाँ
रिकॉर्ड और की		complainer का	प्रकार	τ		स्थिति	
गई कार्रवाई		संपर्क नंबर					
क्रम संख्या							

Annexure -8: PUBLIC CONSULTATION RECORD

List of Participants - Public Consultation & Focused Group Discussions

Name of the Sub-Project : Uttarakhand Emergency Assistance Project:

Water Supply Sector, Uttarkashi

Number of Participants

Name of the District

Date

: 21 : Uttarkashi

: 17/01/2017

BUBLIC CONSULTATION AT - Ultarckashi (UEAP water Supply Project)
Date- 17.01.2017

SL No.	Name of the person consulted	Signature	Phone no.
t -	K. C. Ramola GMVN	Mand:	9997258202
2	Gopal Singh Rana GIMVN	apilerm	3568504162
3	Rom Bhey one	Rys	999718042
4	Courer wino	=> withe	9557595565
5	Southyan	Syan	9557607917
6	Narundra Kumar Garg	Din	9410354023
7	Rita Gay Telen	Rite	4)
0	Synta Tilleth	Sem 29	
,	Goker Singh Gusco'n "	Semiler two T	
10	Keisan sing Gasain "		
11	Mulayam Singh "	83 MINNES	9639548048
12	Man Singh	Store &	9839545048 THE 945676
B	Gangeer Kuman	Seen 1000	941-17-2738
4.	Mathi Singh Panwall	- cias	
15	Balwant Churchan Gygnay	= alun	9897682652
16	Go Rey Gygany	Bolow.	
17	Kirkal Singh Rano Gryansy	\$50	9012059130
18-	Trepan Singh Cyony	- Journal	9412919580
19	SIVEER SOME H Permier	4	9456312800
20	22010110	Ruly	8126409599
aprile	दोलत विष ह ने भी	· ETO	7627119229
	A STATE OF THE STA		~~

Name of the Sub-Project

: Uttarakhand Emergency Assistance Project:

Water Supply Sector, Gauchar

Number of Participants Name of the District

Date

: Chamoli

: 18/01/2017

BUBLIC CONSULTATION AT- Gauchar town.

Date- 18.01-2017.

SL No.	Name of the person consulted	Signature	Phone no.
1	Jayanti Rana.	514000	
2	Rupa Devi	रुपा दिवी	
3	3 wish up	Sansans	8057545253
4	Dispel Bight	Army	989721437
5	Asvind Kerman	Bland	941296082
6	ग्रहान्द्रीमुह	Graphin	94103237
フ	Javendra Singh	Convehar	9410722654
8	Kailash	Cauchen	991725136-
9	Ashish majhhuni	Cravely	8126924177
10	Dhiraj Singh,	Mary Strank	7055112225
11	Rakesh Singh	Rapasheingh	8979 165949
12.	adustus	an	9 Rous 17 50
13.	Sachin Semuel	Sex chil	735141411 4
14.	Kowindowa Singh Hondori	- Bolow	9788479463
12	ast) = 2118-)	(3)	7310522144
16.	Balant single	Buyued	875536262
17.	cecial a mosia	- Anim	4012026429
18.			
19.		4	
20.			

Name of the Sub-Project

: Uttarakhand Emergency Assistance Project:

Water Supply Sector, Rudraprayag

Number of Participants Name of the District

Date

: 6+2

:Rudraprayag

: 19/01/2017

BUBLIC CONSULTATION AT - Rudra prayage
Date- 19.01.2017

SL No.	Name of the person consulted	Signature	Phone no.
V-	विनोद प्रसाद	An	7830035022
2-	देवेश उमार	Devely	9836962439
3-	मूनि देखी	طامها	
4-	प्रया देशी	grai	
ST-	दीया देवी	दीप् देवी	
6.	मश्रापाल हिंह डिकेट	yhous	8126925373
		-	
	<u> </u>		

Name of the Sub-Project : Uttarakhand Emergency Assistance Project:

: 13+2

: Chamoli

Water Supply Sector, Karanprayag

Number of Participants Name of the District

Date : 19/01/2017

BUBLIC CONSULTATION AT - Karnaprayag
Date- 19.01. 2017.

SL No.	Name of the person consulted	Signature	Phone no.
1	VIJAY KHAHDURI	long	9760319797
2	framod Nautijas	Jamms	7500710089
3	Himmed Singh	(Val)	75179121579
4	Naven Namoni	Bourspain	989776477
5	Weshor Ahmed	11845 31821A	/
6	Shahrukh	_ miniedyna	8192857913
7	Mustag Ahmed,	मुरलकी म	
8	Wazir Armed		
9	Ashroaf Khan	Anos O	2760681564
10	Brosel - Singh	Days	
11	plemant negà	Frank	9997001505
12	vikas Singh	Nikas	7830 566694
13.	Dipendoa Kumar	Docpenduamon	9927639664
	A		
		**	
	*	, <mark>la</mark>	7917

Name of the Sub-Project : Uttarakhand Emergency Assistance Project:

, Srinagar : 10+2

Number of Participants

Name of the District : Pau<u>ri</u>
Date : 19/01/2017

BUBLIC CONSULTATION AT - Socinagas Jown Date 19.01.2017

SL No.	Name of the person consulted	Signature	Phone no.
1	Mitya Nand Bhat	(Bohel)	75339399
2	Ashok	dregio	
2 3	Ravi	Ravi	956800844
4	Sachin	Sachin	
5	Digambur	255	8/2602182
8	Anuta	Drify_	
(7)	Sarot Simph Asusal	Ben	01346253494
8	Sarot Singh Aswal om parkash Bhatt Satendar Sing But	ET SHOTTE	
9	Satendar Sing But	(1000).	
10	Kasay Nand Batt	BRELL	941234/272
		- 1112	
	17		

Name of the Sub-Project

: Uttarakhand Emergency Assistance Project:

Water Supply Sector, Devprayag

Number of Participants Name of the District

Date

: Devprayag : 19/01/2017

Pue		
S. No	Dals:- 19.01,2017 Name	Sign
1 →	Sangay Bhatt	Democking
2 >	Any Bhatt	Any-
3 >	Maychand Siligh Rowert (Japon shabha Adhyakah)	She she
4 >		frem
5 > 6 -> 7- Q	Dwycoh Punchpwei Rinko Jangra Pybri Om Mukesh Birothi	De la

Name of the Sub-Project : Uttarakhand Emergency Assistance Project:

AMR meter, **Srinagar**

Number of Participants Name of the District Date

: Pau<u>ri</u> :15/06/17

S. No.	NAME .	ADDRESS	CONTACT NO.	SIGN रोमा रेमेमवाट)
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UTTARAKHAND EMERGENCY ASSISTANCE PROJECT (URBAN WATER SUPPLY SUB- PROJECT) Funded By Asian Development Bank (ADB LOAN NO. 3055-IND)

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CAPACITY BUILDING FOR IMPLEMENTATIONOF ENVIROMENTAL & SOCIAL SAFEGUARDS IN PROJECTS Organized by

PROJECT IMPLEMENTATION UNIT, UTTARAKAND JAL SANSTHAN DEHRADUN STUP CONSULTANTS PVT. LTD. DSC, UEAP, DEHRADUN

VENUE: Conference Hall, Uttarakand Jal Sansthan, Dehradun DATE: JANUARY 21, 2017

		Registration Shee		
SI No.	Name	Designation with Address	Contact No.	Signature
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2	Dr. Nulan Gustal	Env. Consultant PMV	941153087	with high
3_	Hitesh Joshi	IT MIS Expert PMU	9887036666	Wikes
4	Q' Asmish AniThNAL	ERS - PMU	9456765725	Agus.
5	P. C. Kimoty	SECS PLU Uyban	The state of the s	y,
6	Asm Nen	DAM-PIV- UEAPA	9897934726	W
7	Rejear Salmi	A. E. Jel Sout Pari	9897598019	7
8	BILAL YUNUS	E.E. UTS, DIDIHAT	94.58993180	Philalyms
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10	Bhuwan chadra Bhatt	C.S. Derprayas	7060208478	Box
11	Bhazat Singh Bisht	Q.S Dharchula	7575016 380	Birt
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22	Mayank Sah (ESO)	KCPL Ranikhed	9456321523	Jm Sall
23	Bironder Buhila ESO	R. K. Engineers S.ls LAZ	7705804595	- Joseph
24	BERNA DHYANI	IFC EXPERT	706097 7030	Land
25	Chandra Shokhar Tothi	K.C.P.L Dhourchules.	9410793622	Oderosty

UTTARAKHAND EMERGENCY ASSISTANCE PROJECT (URBAN WATER SUPPLY SUB- PROJECT) Funded By Asian Development Bank (ADB LOAN NO. 3055- IND) TRAINING ON

CAPACITY BUILDING FOR IMPLEMENTATIONOF ENVIROMENTAL & SOCIAL SAFEGUARDS IN PROJECTS

Organized by PROJECT IMPLEMENTATION UNIT, UTTARAKAND JAL SANSTHAN DEHRADUN STUP CONSULTANTS PVT. LTD. DSC, UEAP, DEHRADUN VENUE: Conference Hall, Uttarakand Jal Sansthan, Dehradun DATE: JANUARY 21, 2017

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26	Deepah menta	ICCPL , Deuproyay	99976261/2	Geopar
27	BHARAT BHUSHAW	R.K Frainces Lyckhas	9410704861	BO
28	Munish Pakeer	Site Engg. R.K. Gauchar	84758-46700	Hallen Chaleur
29	Vipen charcheur	AE Jalsaghen Koograge		Mary
30	Sonan Singh Jethin	A At Takenshan Cring	9412916597	Test.
31	Sanjay singh	AF Jalsons than somag	02789565252B	Jay
32	Luzendra Cinch Munola	J.E. U.J.S. Bidihat	7351703933	Cyrude
33	Albrendra Brazad	JAE STUP DSC	7060208484	
34	Kamal Risher	AAE UIS Didikat	9410534098	Color
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ANNEXURE 9: PUBLIC CONSULTATION PHOTOGRAPHS





Uttarkashi





Devprayag



Rudraprayag



Gauchar





Karanprayag









Srinagar (AMR metering works)

Annexure -10

PHOTOGRAPHS OF ENVIRONMENTAL MONITORING (Jan.- June, 17)
AT KAPKOT AND RUDRAPRAYAG









ANNEXURE 11: PHOTOGRAPHIC ILLUSTRATION OF INFORMATION BOARDS AT WORK SITES











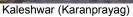


ANNEXURE 12: PHOTOGRAPHIC ILLUSTRATION OF EMP IMPLEMENTATION AT WORK SITES





Srinagar







Uttarkashi



Bageshwar

Labours using PPEs during work





Bageshwar

Karanprayag

OSHA training to labourers on site



Fire safety arrangements at Bageshwar



Barricading and warning sign board being used, in AMR metering works at Srinagar





Capacity Building Training for PIU, F-PIU and Contractors on 21.01.17

ANNEXURE 13: PHOTOGRAPHS OF PROGRESS OF WORK





Infiltration well, Bageshwar

Alum Godown, Bageshwar

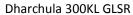




Infiltration well, Kapkot

Excavation work in progress at Kakpot II







Devprayag 50KL GLSR



500KL sump, Srinagar







Pump house at RBF site, Srinagar

Raw water pump house, Srinagar





Clear water pump house, Srinagar

SCADA system, Srinagar



Tubewell at RBF site, Srinagar



AMR meter work in progress, Srinagar



AMR survey, Srinagar



Office Building, Rudraprayag



Pump House, Gauchar





Office Building, Gauchar (Karanprayag)

Infiltration well, Gauchar (Karanprayag)





100KL, GLSR Gauchar (Karanprayag)

Pump house, Uttarkashi