



Environmental Monitoring Report

Project Number: 40648-034
September 2016

Period: January 2016 – June 2016

IND: Infrastructure Development Investment Program for Tourism - Tranche 3

Submitted by

Program Management Unit, Government of Uttarakhand, Dehrdaun

This environmental monitoring report has been submitted to ADB by the Program Management Unit, Government of Uttarakhand, Dehrdaun and is made publicly available in accordance with ADB's Public Communications Policy (2011). It does not necessarily reflect the views of ADB.

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

Asian Development Bank



Govt. of Uttarakhand

Program Management Unit
Infrastructure Development Investment Program for Tourism
(ADB Assisted – Loan No. 2833, India)
Government of Uttarakhand
Pandit Deendyal Upadhyay Paryatan Bhawan,
Near ONGC Helipad Garhi Cantt, Dehradun -248003
Tel: 91-135-2559987, Fax: 91-135-2559988 E-mail: utdb.pmu@gmail.com



for copy pls
Mitesh Kr./SM

Ref: 4099/2-10-ADB IDIPT/370/2014-15

Date: 19.09.2016

To

Country Director,
Indian Resident Mission (INRM),
Plot no -4, San Martin Marg, Chanakyapuri,
New Delhi 110021, PB No-53311 (HPO)



Sub: Loan No. 3223 IND- IDIPT, UK Submission of Semiannual Safeguard Monitoring Report (Environment and Social), for Jan – June, 2016

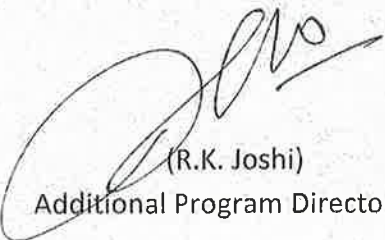
Ref: PMU's letter dt. 27.08.16 and observations communicated on 05.09.16

Respected Madam,

Kindly refer to submission of Semiannual Safeguard Monitoring Report (Tranche 3) vide PMU's referred letter and observations on the Semiannual Environment Monitoring Report communicated by ADB Safeguard Specialist. Modified report along with comments response matrix is enclosed for your kind perusal and approval.

Yours Sincerely

Encl.:- As above


(R.K. Joshi)
Additional Program Director



dep copy recd 20.09.

Response Matrix

S. No.	Comment	Compliance
1	Table 2, Please specify the work components as in the scope given in the IEEs	Scope as per IEEs listed in table 2
2	Relevant NOCs to be attached in table 4	NOCs attached in Annexure 3.
3	Table 7, pls. mention pointwise 'actions during reporting period' against the listed components	Complied
4	Please provide consultation details held in the reporting period	Separate section on consultation has been added in Section 10, table 10 and Annexure (ii)

Semi – Annual Environmental Monitoring Report

Loan No: 3223 IND

Period: January to June 2016

**IND: Infrastructure Development Investment Programme for Tourism,
Uttarakhand
(Tranche –III)**

**Prepared by Dept. of Tourism, Government of Uttarakhand for Asian
Development Bank**

Revised September, 2016

This Semi – Annual Environmental Monitoring Report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

Table of Contents

1. INTRODUCTION	1
2. COMPLIANCE STATUS	17
3. COMPLIANCE STATUS WITH NATIONAL/ STATE/ LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS	18
4. COMPLIANCE STATUS WITH THE ENVIRONMENTAL COVENANTS AS STIPULATED IN THE LOAN AGREEMENT	19
5. COMPLIANCE STATUS WITH ENVIRONMENT MANAGEMENT AND MONITORING PLANS AS STIPULATED IN THE ENVIRONMENTAL DOCUMENTATION AS AGREED WITH ADB.....	21
6. STATUS OF IMPLEMENTATION OF ENVIRONMENT MANAGEMENT PLAN.....	22
7. APPROACH & METHODOLOGY ENGAGED FOR ENVIRONMENTAL MONITORING OF THE PROJECT	44
8. MONITORING OF ENVIRONMENTAL RECEPTORS/ ATTRIBUTES.....	44
9. IMPLEMENTATION OF ENVIRONMENTAL MONITORING PLAN	46
10. PUBLIC CONSULTATION DETAILS	59
11. ANY OTHER ENVIRONMENTAL ASPECTS, IMPACTS OBSERVED DURING IMPLEMENTATION WHICH WERE NOT COVERED EARLIER	62
12. DETAILS OF COMPLAINTS RECEIVED FROM PUBLIC AND ACTION TAKEN THEREOF TO RESOLVE.....	62
13. FOLLOW UP ACTIONS AND CONCLUSIONS	62

List of Table

TABLE 1: PROJECT PROGRESS IN THE REPORTING PERIOD TILL JUNE, 2016.....	3
TABLE 2: WORK DETAILS AND RISKS FOR SUB PROJECTS	4

TABLE 3: STATUS OF COMPLIANCE WITH EARF/ADB PROCEDURES	17
TABLE 4: STATUS OF ENVIRONMENT, FOREST AND OTHER CLEARANCE.....	18
TABLE 5: STATUS OF COMPLIANCE WITH ENVIRONMENTAL LOAN COVENANTS	19
TABLE 6: EMP IMPLEMENTATION STATUS	21
TABLE 7 (I): EMP MONITORING STATUS CHART- DEVELOPMENT OF TOURISM INFRASTRUCTURE IN KARTIKEYA SWAMI CIRCUIT (LOT-1) (TUNGESHWAR & DURGADHAR TEMPLE)	23
TABLE 7 (II): EMP MONITORING STATUS CHART- CONSERVATION OF CULTURAL HERITAGE AND URBAN PLACE MAKING IN NAINITAL LOT-1	26
TABLE 7 (III): EMP MONITORING STATUS CHART- RESTORATION AND ADAPTIVE REUSE OF ALMORA FORT (RANI MAHAL).....	30
TABLE 7 (IV) : EMP MONITORING STATUS CHART- CREATION OF PEDESTRIAN ROUTE FOR PILGRIMS AND TOURISTS IN HARIDWAR	33
TABLE 7(V): EMP MONITORING STATUS CHART- DEVELOPMENT OF TOURISM INFRASTRUCTURE IN SEM MUKHEM	39
TABLE 8: PARAMETERS AND METHODOLOGY FOR ENVIRONMENTAL MONITORING	45
TABLE 9 (I): IMPLEMENTATION OF ENVIRONMENTAL MONITORING PLAN- FOR PROJECTS UNDER DSC DEHRADUN	46
TABLE 9 (II): IMPLEMENTATION OF ENVIRONMENTAL MONITORING PLAN- FOR PROJECTS UNDER DSC KOTDWARA	48
TABLE 9 (III): IMPLEMENTATION OF ENVIRONMENTAL MONITORING PLAN- FOR PROJECTS UNDER DSC BHIMTAL.....	51
TABLE 10(I): PUBLIC CONSULTATION MEETINGS FOR TRANCHE III SUB-PROJECTS UNDER DSC KOTDWARA	60
TABLE 10(II): PUBLIC CONSULTATION MEETINGS FOR TRANCHE III SUB-PROJECTS UNDER DSC DEHRADUN.....	61

**TABLE 10(III): PUBLIC CONSULTATION MEETINGS FOR TRANCHE III SUB-PROJECTS UNDER
DSC BHIMTAL 61**

ANNEXURE: 1: PHOTO ILLUSTRATION 63

ANNEXURE: 1(I): PHOTO ILLUSTRATION OF WORK PROGRESS..... 63

ANNEXURE: 1(II): PHOTO ILLUSTRATION OF CONSULTATION 67

ANNEXURE – 2: ENVIRONMENTAL MONITORING REPORT 71

ANNEXURE – 3: NOC..... 98

1. Introduction

Overall Project Description

1. The Infrastructure Development Investment Program for Tourism Financing Facility (the Facility) will develop and improve basic urban infrastructure and services in the four participating states of Himachal Pradesh, Punjab, Uttarakhand and Tamil Nadu—to support the tourism sector as a key driver for economic growth. It will focus on: (i) strengthening connectivity to and among key tourist destinations; (ii) improving basic urban infrastructure and services, such as water supply, road and public transport, solid waste management and environmental improvement, at existing and emerging tourist destinations to ensure urban amenities and safety for the visitors, and protect nature and culture-based attractions. Physical infrastructure investments will be accompanied by: (iii) capacity building programs for concerned sector agencies and local communities for better management of the tourist destinations and for more active participation in the tourism-related economic activities, respectively.
2. The proposed Project targets enhanced economic growth and provision of livelihood opportunities for local communities through tourism infrastructure development with a focus on preservation and development of natural and cultural heritage and incidental services. The Project supports the state of Uttarakhand to develop the tourism sector as a key driver for economic growth.
3. The Executing Agency (EA) for the Investment Program is Dept. of Tourism, Govt of Uttarakhand. The Loan Agreement and Project Agreement for the IDIPT, Uttarakhand is 3223-IND. Project Implementation Unit have been established in three towns respectively (Dehradun, Bhimtal and Kotdwar) for implementation of sub-projects. Design and Supervision Consultants (DSCs), has already been established in three towns for designing the Infrastructure, managing the tendering of Contractors and supervising construction, and providing support to the PIUs.

Outputs of the Project

4. The outputs of the Project are as follows:

Component 1: Urban Infrastructure and Service Improvement

Component 2: Improved connectivity

Component 3: Quality Enhancement of Natural and Cultural Attractions

Component 4: Greater participation by local communities

Component 5: Capacity Development, Community Participation and Project Management

Environment Category:

5. The project under IDIPT was categorized as Environment Category “B”, according to ADB’s Safeguard Policy Statement (2009). All the subprojects under execution have been categorized as category 'B'.

Environment Performance Indicators, if any:

6. For effective monitoring, selected environmental parameters have been identified as indicators which may be qualitatively and quantitatively measured and compared over a period of time in order to assess/ ensure the compliance to environmental management plans (EMPs). The environmental performance indicators selected are physical, biological and social characteristics identified as most important in affecting the environment at critical locations at all the sub projects. The parameters identified as performance indicators are:
 1. Compliance with environmental management and monitoring plan
 2. Compliance to State/ National environmental regulations.
 3. Monitoring of ambient air quality, water quality and noise levels and comparison with baseline environmental quality and State/ National Standards.

Overall project progress, agreed milestones and Implementation schedule

7. Construction works for the following sub projects are in progress and shown in Table 1.

Table 1: Project Progress in the Reporting Period till June, 2016

Sl. No.	Package Ref No.	General Description Goods or Works	Contract Signing Date and Start date	Name of the Contractor	Contract Value	Contract period
1	UK/IDIPT-III/ DDN/01 Lot1	Development of Tourism Infrastructure In Kartikeya Swami Circuit (Lot-1) (Tungeshwar & Durgadhar Temple)	26.02.2016	M/s Aaradhya Engineers	INR 7.59 Cr.	24 months
2	UK/IDIPT-III/ DDN/02*	Development of Tourism Infrastructure in Kartikeya Swami Circuit (Kartikeya Swami Temple)	LOA issued to contractor on 23.05.2016	M/S APS Structures Private Ltd	INR 3.97 Cr.	24 months
3	UK/IDIPT-III /DDN/03*	"Conservation & Development of Rural Tourism Sites of Rudraprayag, Chamoli and Uttarkashi Districts of Uttarakhand"	LOA issued to contractor on 23.05.2016	M/S Navya Associates in JV with Agrawal Brothers	INR 15.26 Cr.	24 months
4	UK/IDIPT/III/ BHT/01	Conservation of Cultural Heritage and urban place making in Nainital Lot-1	19-10-2015	M/s Simplex Project Limited 407, Skipper Corner, 88 Nehru Place, New Delhi - 110019, India	INR 38.52 Crore	24 months
5	UK/IDIPT/III/ BHT/03	Restoration and adaptive reuse of Almora Fort (Rani Mahal)	19-10-2015	M/s Simplex Project Limited 407, Skipper Corner, 88 Nehru Place, New Delhi - 110019, India	INR 29.90 Crore	24 months
6	UK/IDIPT/III/ BHT/05**	Restoration and adaptive reuse of Champawat Fort (Banasur)	19-10-2015	M/s Simplex Project Limited 407, Skipper Corner, 88 Nehru Place, New Delhi - 110019, India	INR 15.53 Crore	24 months
7	UK/IDIPT-III/ KOT/01	Creation of Pedestrian Route for Pilgrims and Tourists in Haridwar	22/07/2015	M/s SS InfratechJv, Tikola Nagar, Roorkee, Haridwar 247670	INR 22.38 Cr.	24 months
8	UK/IDIPT-III/ KOT/02	Development of Tourism Infrastructure in SemMukhem	22/08/2015	M/s Mangalam and Construction Company in JV with Sunil Garg and Company, Kesarganj, Meerut.	INR 10.18 Cr.	24 onths

* Work in packages UK/IDIPT-III/ DDN/02 and UK/IDIPT-III /DDN/03 (SI no 2 and 3) under PIU Dehradun not started. Only LOA has been issued in the reporting period.

**Work in UK/IDIPT/III/ BHT/05 (SI no 6) awarded but work not started in the reporting period.

8. Work Details In the reporting period has been shown in Table 2.

Since out of 08 awarded packages in the reporting period, works have started in 05 packages (as in table 1), work progress of 05 packages is reported henceforth.

Table 2: Work Details and Risks For sub projects

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
UK/IDIPT-III/ DDN/01 Lot1 Development of Tourism Infrastructure In Kartikeya Swami Circuit (Lot-1) (Tungeshwar, Durgadhar Temple)	Aradhya Engineers	Durgadhar Temple precinct Upgradation of infrastructure around the approach area of the temple, including drinking water facilities and sanitation Parking facility and vehicular approach along with adjoining retaining walls Solid waste management Pathway development with railings & protection wall wherever necessary and signage and seating and lighting Temple entrance arch Improvement of the temple complex in terms of restructuring of the newly added temporary structures and overall landscaping to facilitate better movement and space for gathering of pilgrims and tourists	22.01.2016	21.01.2018	Durgadhar:- RCC column, Retaining wall (kitchen, langar hall and toilet block) in progress.	15%	Not visualized till now	Nil	During monsoon season roads may be damaged due to landslides, which may affect material supply at site.

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		<p>Lodging facilities with rooms and dormitories and toilet block at the rear side of the temple complex and a langar hall</p> <p>Area confinement with edge wall , viewing decks etc</p> <p>Restoration of Temple premises</p> <p>Construction of C.C road(main road to Temple,400 mtr length with drain</p> <p>Development of Solar lighting and Fire Fighting work.</p> <p>Capacity building for temple committee members for O&M activities.</p> <p>Tungeshwar Temple precinct</p> <p>Entrance area development with appropriate signage</p> <p>Development of the 1.5km long pathway with railing to the main temple, increase in width and edge protection wherever required.</p> <p>Seating arrangements , viewing decks and toilet facilities</p> <p>Signage along the pathway and Temple</p>			Tungeshwar:- foundation work of Dharamshala is in progress				

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		<p>premises.</p> <p>Improvement in the temple precinct</p> <p>Construction of entrance gate</p> <p>Lodging facilities and langar hall</p> <p>Development of Solar lighting and Fire Fighting work</p> <p>Improvement in the drinking water facility for the approach areas</p> <p>Capacity building for temple committee members for O&M activities.</p>							
<p>UK/IDIPT/III/BHT/01 Lot 1</p> <p>Conservation of Cultural Heritage and urban place making in Nainital Lot-1</p>	<p>M/s Simplex Project Limited 407, Skipper Corner, 88 Nehru Place, New Delhi - 110019, India</p>	<p>Proposed Scope as per IEE (DPR)</p> <ol style="list-style-type: none"> Promenade development around Nainital lake <ul style="list-style-type: none"> Mechanical car parking Development of Children's park Enhancement of Nainital Lake Heritage Precinct <ul style="list-style-type: none"> Restoration of Municipal Corporation, DSA Pavilion, New Club Development of Gandhi gram, Takula Façade improvement of Dam wall at Mallital, 	19.10.2015	18.10.2017	Treatment of Dam wall, restoration of Band Stand and Municipal Library, construction of Toilet (Cheena Baba), in progress.	1.82%	Italicized works were proposed but may be dropped from the package	Nil	<p>Cooperation of LDA is integral for fulfillment of project objectives</p> <p>Treatment works of Dam wall may be delayed due to heavy rains</p>

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		<ul style="list-style-type: none">• Façade restoration and illumination of Govt. owned heritage buildings (Bishop Shaw, Municipal Library, Catholic church, Methodist Church• Provision of Public Amenities and facilities at appropriate location in Nainital area precinct• Integrated signage and interpretation in lake precinct• Reclamation of public and open spaces in the lake precinct• Removal and demolition of obsolete, damaged street furniture and structures• Rickshaw stand• Integrated stone paved pedestrian access and pathways with adequate plantation• Street furniture• Weather shelters• Heritage type railing and integrated lake edge lighting along lake edge• Improvement of Heritage Trekking Trail<ul style="list-style-type: none">○ Nature Trail 1 - Land's End & Tiffin Top○ Nature Trail 2 - Naina Peak							

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		<p>(Trail 1- Tiffin Top – Lands End Trail: Length 4.5 Km From Ayar Jungle Camp to Lands End + 1.17 Kms from Lands End to Barapatthar Trail 2 – Tanki Naina Peak: Length 3 Km starting at Tanki) Repair of damaged pathways Rough stone paving of steep, slushy stretches Provision of railings at outer sides in vulnerable stretches Wayside furniture at pause points Rain shelters at viewing points Camping sites Provision of portable toilets at appropriate points [where water pipeline already available] Signages [informative and regulatory]</p> <p>Out of above proposed scope in the IEE (based on DPR) only the components listed below are being taken up:</p> <p>Restoration of</p> <ul style="list-style-type: none"> • Catholic Church • Methodist church • Bishop Shaw • Library Building 							

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		<ul style="list-style-type: none"> • Municipality Building • DSA Flat • Gandhi Ashram- Takula • New Club • DSB College Chapel • Treatment of Dam Wall • Repaving of Upper Mall • Rickshaw Stand • Lake Front Development • Park Development • Railing & Band Stand • Construction of Toilets in Nainital- Cheena baba and National Hotel • Improvement of High mass light Electricity • Nature Heritage Trail: <ul style="list-style-type: none"> ○ Wayside furniture at pause points ○ Rain shelters at viewing points ○ Camping sites ○ Provision of portable toilets at appropriate points (water pipeline available) ○ Signages (informative & regulatory) <p>Mechanical car parking component shall be taken up in separate package UK/IDIPT/III/BHT/01 Lot 2</p>							

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
UK/IDIPT/III/BHT/03 Restoration and adaptive reuse of Almora Fort (Rani Mahal) ¹ The subproject was bid out in 02 packages (i) Rani Mahal UK/IDIPT/III/BHT/03 (ii) Malla Mahal UK/IDIPT/III/BHT/06	M/s Simplex Project Limited 407, Skipper Corner, 88 Nehru Place, New Delhi - 110019, India	Scope as per IEE: Restoration of the historic sites: Ram Shila Temple and the Malla Mahal or Fort Nanda Devi Complex 1.Revitalization of the entire precinct as a public space for experiencing regional history and culture, through creation of facilities such as: <ul style="list-style-type: none"> • Develop cobblestone-paved courtyard as a performance arena. • Create a Museum on Kumaon culture in the main building of the Malla Mahal • Create a Himalayan Art Gallery and nature interpretation centre in the Rani Mahal, • Restoration of the historic site of Ram Shila Temple • Creation of craft demonstration areas. • Removal or concealment some buildings through strategic landscaping and foliage coverage of structures • Create facilities in Almora town to enable it to emerge as a complete destination • Improve all three access routes that lead up to the fort and temple • Improve accessibility, especially for the differently-abled through the setting up of elevators leading from bazaar to the 	19-10-2015	18-10-2017	PCC work of Almora Collectorate in basement complete, RCC work in progress	3.26%	No Change		

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		<p>site.</p> <ul style="list-style-type: none"> • Improve basic tourist and pilgrim facilities and amenities • Improve vehicular parking facilities for about 100 vehicles in the town. • Improve basic environmental services like solid waste and wastewater management. • Enforcing strict standards for cleanliness and upkeep. Improving tourist/visitor wayside amenities along approximately 10 km of vehicular access. Improving access to places of tourist/pilgrim attractions by way of 15 km of connectivity improvement inclusive of roadside infrastructure and improved signage. • Improving about 4 km of pedestrian environment connecting the heritage site with different parts of the town. • Training and capacity building <p>2. Construction of District Collectorate office at Porth Free Estate near Vikas Bhavan. Construction of G + 4 building with office, parking within Govt. land of 2500 sq m</p> <p>¶ For Almora District Collectorate office, Water supply is planned from municipal water supply and water line will be</p>							

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		<p>extended to proposed building.</p> <p>▮ For waste water – discharge 4 nos. of soak pit and 4 nos. of septic tank will be utilized. In total 64 nos. of toilet, 32 nos. urinal will be constructed</p> <p>▮ Solid waste will be stored in bins of adequate capacity from where collection will be done by Almora Nagar Palika</p> <p>Out of above proposed scope in the IEE (based on DPR) only the components listed below are being taken up:</p> <p>(i) Rani Mahal package has been awarded and scope is</p> <ul style="list-style-type: none">• Restoration of Rani Mahal• Restoration of Courtyard+ Ramshila Temple• Restoration of Craft Centre + Toilet• Restoration of SDM office• Restoration of Fort Walls• Signage Plan• Civil work of Collectorate building in Almora• Site Development and							

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		Landscaping <ul style="list-style-type: none"> Sanitary& Electrical Works <p>Following works shall be taken up in (ii) Malla Mahal package</p> <ul style="list-style-type: none"> Museum on Kumaon culture in Malla Mahal and Removal or concealment some buildings through strategic landscaping and foliage coverage of structures 							
UK/IDIPT-III/KOT/01 Creation of Pedestrian Route for Pilgrims and Tourists in Haridwar	M/s SS Infratech Jv ,Tikola Nagar, Roorkee	<ul style="list-style-type: none"> Development of Pedestrian Route (6 .5 km 5.5.km at Haridwar and 1 km at Roorkee) Landscaping, sitting arrangements, murals etc. on the pedestrian route Providing lighting or illumination on pedestrian route of 6.5 km Providing safety hand railing on the canal side of pedestrian route Providing Solid waste bins along pedestrian route Toilet block and drinking water facilities at route near Shankaracharya chowk Multi facility complex near the 	22/07/2015	21/07/2017	Guard wall, Footing (Multi facility complex at Lohe Ka Pul), Pedestrian pathway is in progress	18%	No change	Appropriate measures have been taken for fulfillment of the objectives	In case of any restrictions by the UP Irrigation Department and permissions of Foot Over Bridge Construction at Rail line and on NH-58 at Manglaur

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		<p>proposed pedestrian pathway (before LoheKaPul on railway track near Jawalapur) including toilet complex, drinking water fountain, bathing and sanitation facilities, rest shelter, food distribution centre, police control room, solid waste bins, compound wall with entrance gate, landscaping, etc.</p> <ul style="list-style-type: none"> • Construction of Foot Over Bridge over Railway Track at Jwalapur • Foot Over bridge overNH-58 at Manglour Cross • Installation of tourist Signages (Direction Markers) on Kanwar Patri from Har Ki Pauri to Mangalour Cross. (Total length of the stretch of Kanwar Patri for the signage direction Markers works is 42 km) 							
UK/IDIPT-III/KOT/02 Development of Tourism Infrastructure in SemMukhem (Tehri)	M/s Mangalam and Construction Company in JV with Sunil Garg Company Meerut	i. Dharamshala/ rest shelter at fair ground. ii. Toilet complex at fair ground including septic tank with soak pit. iii. Water supply Arrangement at Fair Ground iv. Landscaping works at fair ground. v. Development of pathway from main road to fair ground. vi. Solar lighting system along with	23/09/2015	21/09/2017	Walkway, Rest Shelter, Toilet Block, Excavation works (for silt removal from reservoir)in progress.	31%	No change	Appropriate measures have been taken for fulfillment of the objectives	In case of heavy rainfall or snowfall works may get delayed since site is difficult. Project activities may also get delayed in case of any disagreement with Mela Committee

Name & No. of Package	Name of the contractor	Listing of works under the package	Starting Date(land clearance) and schedule date of completion		Type of works Continued at Present	Progress %	Expected change from Approved scope	Fulfillment of objective Type of remedial measures needed	Key assumption and risk affect attainment the objective
			Starting date	Date of Completion					
		d) Expansion of existing pipe water supply network. e) Installation of solar lighting system, f) Solid waste management with compost pits in Mukhem village. • Tourism Signages on the 23Km road from Kodar to Fair Ground.							are undertaken.

Any other information useful for assessing environmental performance of the project:

9. No additional information during this period

2. Compliance Status

10. Status of Compliance with EARF/ADB Procedures is shown in Table 3.

Table 3: Status of Compliance with EARF/ADB Procedures

S.No	Name & No. of Package	Environment Category	Status of preparation of IEE	Status of Approval by ADB	Date of Approval	Further Action needed For Compliance & Responsibility
1	UK/IDIPT-III/ DDN/01	B	Completed and approved	Approved	03.08.2015	Regular monitoring and reporting of EMP
2	UK/IDIPT-III/ DDN/02	B	Completed and approved	Approved	01.09.2015	Regular monitoring and reporting of EMP
3	UK/IDIPT-III/DDN/03	B	Completed and approved	Approved	25.05.2016	Regular monitoring and reporting of EMP
4*	UK/IDIPT/III/BHT/01Lot1 UK/IDIPT/III/BHT/01Lot2	B	Completed and approved	Approved	08.09.2015	Regular monitoring and reporting of EMP
5	UK/IDIPT/III/BHT/02	B	Design stage			
6*	UK/IDIPT/III/BHT/03 UK/IDIPT/III/BHT/06	B	Completed and approved	Approved	09.07.2015	Regular monitoring and reporting of EMP
7*	UK/IDIPT/III/BHT/04 UK/IDIPT/III/BHT/05	B	Completed and approved	Approved	06.08.2015	Regular monitoring and reporting of EMP
8	UK/IDIPT/III/BHT/07	B	Completed and approved	Approved	25.04.2016	Regular monitoring and reporting of EMP
9	UK/IDIPT-III/KOT/ 01	B	Completed and approved	Approved	11.05.2015	Regular monitoring and reporting of EMP
10	UK/IDIPT-III/KOT/ 02	B	Completed and approved	Approved	25.05.2015	Regular monitoring and reporting of EMP
11	UK/IDIPT-III/KOT/ 03	B	Design stage			
12	UK/IDIPT/III/GEN/01	Goods Package				
13	UK/IDIPT/III/GEN/02	B	Completed and approved	Approved	30.07.2015	Regular monitoring and reporting of EMP

*S.no 4, 6 and 7, Project bifurcated into 02 packages

3. Compliance status with National/ State/ Local statutory environmental requirements

11. Status of Compliance with National/ State/ Local statutory environmental requirements is shown in Table 4.

Table 4: Status of Environment, Forest and other Clearance

Work (Package No.)	Applicable Legislation/Type of clearance	Clearance Given by and date	Subject/Issue	Remarks/Action needed
UK/IDIPT-III/ DDN/01 Development of Tourism Infrastructure in Kartikeya Swami Circuit (Lot-1) (Tungeshwar & Durgadhar Temple)	No environmental and forest clearance required. No requirement of NOC from ASI	Not applicable		
UK/IDIPT-III/ DDN/02 Development of Tourism Infrastructure in Kartikeya Swami Circuit (Kartikeya Swami Temple)	Forest clearance required. No requirement of Environmental Clearance or NOC from ASI	In principle approval obtained from MoEF & CC, Regional Office dt. 12/05/16 Annexure 3 (i)	Kartikeya Swami Temple and pathway are located in Reserve Forest area, for which forest clearance is needed. Clearance received from MoEF & CC	Works to be done as per Clearance conditions.
UK/IDIPT-III/DDN/03 Conservation and Development of Rural Tourism in district Rudraprayag, Chamoli and Uttarkashi	No Environmental and forest clearance required. NOC required from Forest Dept. for Tungnath location. No requirement of NOC from ASI.	NOC obtained from Forest Department, GoUK dt. 08/09/14 Annexure 3 (ii)	Out of 9 rural sites, Tungnath lies in buffer zone of Kedamath Wildlife Sanctuary NOC received from Forest Department	Works to be done as per conditions of NOC given by the Forest department.
UK/IDIPT-III/KOT/01 Creation of Pedestrian Route for Pilgrims and Tourists in Haridwar	No environmental and forest clearance required. No requirement of NOC from ASI.	Not applicable		
UK/IDIPT-III/KOT/02 Development of Tourism Infrastructure in Sem Mukhem	No Environmental and forest clearance required. (Only a minor canopy component was proposed in reserve forest since trek over which canopy has to be installed falls in reserve forest) No requirement of		The project is for creation of Tourism Infrastructure in Sem Mukhem. No forest land acquisition involved, so no forest clearance required. The project site is not in ASI regulated Zone.	The canopy component will be dropped if Dept. does not get clearance for its project in the same area where trek repair works are proposed.

Work (Package No.)	Applicable Legislation/Type of clearance	Clearance Given by and date	Subject/Issue	Remarks/Action needed
	NOC from ASI.			
UK/IDIPT-III/BHT/01 Conservation of Cultural Heritage and Urban Place making in Nainital Lot 1	NOC from PWD, forest clearance required for pre fab toilets and view points on nature trail (Tiffin top and Tanki China). No requirement of NOC from ASI.	NOC obtained from PWD Forest Clearance is in progress	The project is for conservation of cultural heritage involving mostly repair, restoration works. There are 02 nature trails falling in reserve forest where portable toilet and view points are proposed. So forest clearance required. The project site is not in ASI regulated Zone.	Forest Clearance is in process and trek works will be taken up after forest clearance is obtained.
UK/IDIPT-III/BHT/03 Conservation and adaptive re-use of Almora Fort (Rani Mahal)	No Environmental and forest clearance required. No requirement of NOC from ASI.	Not applicable		
UK/IDIPT-III/BHT/05 Conservation and adaptive re-use of Champawat Fort (Banasur)	No Environmental and forest clearance required. Requirement of NOC from State ASI for Banasur Fort.	NOC obtained vide letter dt. 5 th Dec, 2014. Annexure 3 (iii)	Banasur Fort is a State Protected Monument and the custodian is State Culture Dept. NOC received from State ASI	Works as per NOC. Works should not interfere with the original character of the Fort structure.

4. Compliance status with the environmental covenants as stipulated in the Loan Agreement

12. The status of compliance with environmental loan covenants is presented in Table 5.

Table 5: Status of Compliance with Environmental Loan Covenants

S. No	Covenants	Compliance
1.	The Borrower and the States shall ensure that the preparation, design, construction, implementation, operation and	Compliance of (a) all applicable laws and regulations of the Borrower

S. No	Covenants	Compliance
	decommissioning of each Subproject and all Project facilities comply with (a) all applicable laws and regulations of the Borrower and the States relating to environment, health, and safety; (b) the Environment Safeguards; (c) the EAFR; and (d) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguard Monitoring Report.	and the States relating to environment, health, and safety (b) Environment Safeguards; (c) the EAFR; and (d) EMP is being ensured during sub projects implementation.
	Safeguards – Related Provisions in Bidding Documents and Works Contracts	
	<p>The States shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <ul style="list-style-type: none"> (a) Comply with the measures and requirement relevant to the contractor set forth in the IEE, the EMPs, any RO and any IPP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguard Monitoring Report; (b) make available a budget for all such environment and social measures; © provide the relevant State with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the or the IPP (if any): and (d) Fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction. 	<p>Full EMP made part of the contract agreements of respective subprojects, thus its provisions being complied with. Orientation sessions are being carried out in each site for better understanding of Safeguards Compliance by the Contractor</p> <p>Environmental monitoring and mitigation costs allocated/ incorporated in contract agreements. No such environmental impact has been identified so far that was not considered in the IEE and in the EMP. (If any such impact arises in future, will be suitably addressed)</p> <p>All the areas that if disturbed by construction activities will be restored to pre-project condition by the contractors.</p>
	Safeguards Monitoring and Reporting	
	<p>11. The States shall do the following:</p> <ul style="list-style-type: none"> (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 environment and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, any RP 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 Report any breach of compliance with the measures and requirements set forth in the EMP, any IPP promptly after becoming aware of the breach. 	<p>The second semiannual report for Loan No. 3223 IND is submitted herewith. Subsequent reports will be submitted on time.</p> <p>In case of any unanticipated environmental risks and impacts arise, that shall be immediately informed to ADB with detailed description of the event and proposed corrective action plan.</p> <p>Breach will be reported to ADB immediately after becoming aware of it.</p>

5. **Compliance Status with Environment Management and Monitoring Plans as stipulated in the environmental documentation as agreed with ADB.**

13. The compliance Status with Environment Management and Monitoring Plan is shown in Table 6.

Table 6: EMP Implementation Status

S. No	Sub Project Name	EMP Part of Contract Documents (Yes/No)	EMP being Implemented (Yes/ No)	Status of EMP Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfaction)	Actions Proposed/ Additional Corrective Measures Required
1	UK/IDIPT-III/ DDN/01	Yes	Yes	Partially Satisfactory	<p>DSC has carried out baseline monitoring. The next environmental monitoring is to be done by Contractor as per EMP. Contractor has been instructed to get environmental monitoring done and complete sanitation facilities (presently under construction) at construction camp.</p> <p>The contractor has been instructed to procure two first aid kits.</p> <p>The Contractor has been instructed to deploy safety officer to look after safety measures</p> <p>The contractor has been instructed to put adequate number of dustbins at the work site</p>
2	UK/IDIPT-III/ DDN/02	Yes	NA	NA	Works not started
3	UK/IDIPT-III/ DDN/03	Yes	NA	NA	Works not started
4	UK/IDIPT-III/BHT/01	Yes	Yes	Partially Satisfactory	<p>Baseline monitoring was not done by DSC. Contractor has submitted the environment monitoring report for the summer season.</p> <p>Contractor has been instructed for proper stockpiling of raw materials</p> <p>The contractor has also been instructed to procure two first aid kits and to deploy safety officer to look after safety measures</p>
5	UK/IDIPT-III/BHT/03	Yes	Yes	Partially Satisfactory	<p>Baseline monitoring was not done by DSC. Contractor has submitted the environment monitoring report for the summer season.</p> <p>Contractor has been instructed for proper stockpiling of raw materials</p>

S. No	Sub Project Name	EMP Part of Contract Documents (Yes/No)	EMP being Implemented (Yes/ No)	Status of EMP Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfaction)	Actions Proposed/ Additional Corrective Measures Required
					and regular sprinkling The contractor has also been instructed to procure two first aid kits and to deploy safety officer to look after safety measures
6	UK/IDIPT-III/BHT/05	Yes	Yes	NA	Works not started. Baseline monitoring done by Contractor
7	UK/IDIPT-III/KOT/01	Yes	Yes	Partially Satisfactory	Baseline monitoring was not done by DSC. Contractor has submitted the environment monitoring report for the winter season. The contractor has been instructed to carry out environmental monitoring for summer season and to complete sanitation facilities (presently under construction) at construction camp The contractor has also been instructed to procure two first aid kits. Contractor instructed to ensure usage of PPE at site
8	UK/IDIPT-III/KOT/02	Yes	Yes	Partially Satisfactory	Baseline monitoring was not done by DSC. Contractor has submitted the environment monitoring report for the summer season. The contractor has been instructed to complete sanitation facilities at construction camp, solid waste management at construction camps and putting adequate number of dustbins at site The contractor has also been instructed to procure two first aid kits.

6. Status of Implementation of Environment Management Plan

14. EMP Monitoring status of subprojects is presented in Table 7.

Table 7 (i): EMP Monitoring Status Chart- Development of Tourism Infrastructure In Kartikeya Swami Circuit (Lot-1) (Tungeshwar & Durgadhar Temple)

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
UK/IDIPT-III/ DDN/01					
Location	Lack of sufficient planning to assure long term sustainability of the facilities and ensure protection specially from earthquake and other natural disasters	PMU & DSC	IEE and EMP have been prepared and EMP being complied with. The project planning done in advance and after many stakeholder consultations. Measures for earthquake resistance incorporated in DPR No site of archaeological remains in the vicinity		
Pre-construction activities by the Contractor	1. Construction Camps 2. Defining of construction/work areas on ground for activities within 200m of the boundaries of the protected areas 3. Circulation plan during construction 4. Site clearance activities 5. Drinking water availability 6. Identification of disposal sites 7. Waste management on site	Contractor & DSC	1 Construction camp established in open land near the project site. It is away from habitation. Sanitation facilities at construction camp are not proper. Drinking water facilities available at site. Existing water supply arrangement from natural source is used. 2. No protected area within 200 m of project site 3. No impact on traffic movement due to construction as there is no frequent to and fro transportation of materials. The project site is on extreme left edge of NH-58 and construction activities are not interfering with traffic movement and tourist movement. 4. The site clearance activities have been carried out at guest house and excavated earth has been kept aside. 5. Potable drinking water is being made available for the construction force through the existing arrangement from natural source. 6. The waste material generated due to clearance and demolition activities will be used to the extent possible in the project. Towards the end of construction phase, the site for disposal of waste material will be identified, keeping in view the quantity to be disposed off. 7. The waste generated during the construction is segregated and stored at the site for possible reuse later. The waste disposal plan will be prepared in the end phase of construction period by the contractor and reviewed by the DSC and will be approved in consultation with PIU	1- Toilet Block at construction camp not completed. 2- First aid kits have not been procured.	1- The contractor has been instructed to complete the toilet block at construction camp immediately. 2- The contractor has been instructed to procure at least two first aid kits. One to be kept at camp and one at construction site. 3- A training program on environmental safeguards has been conducted by the DSC Environmental expert after mobilisation of the contractor

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
Construction	1. Improper stockpiling 2. Quarry/ Borrow pit operations 3. Stripping, stocking & preservation of top soil 4. Soil erosion 5. Water pollution due to fuel/lubricants 6. Siltation of water bodies 7. Generation of dust 8. Emission from construction vehicles 9. Noise from construction equipment 10. Material handling at site 11. Disposal of construction waste/debris 12. Sanitation facilities at project site 13. Safety measures 14. Risks force majeure		1. The main construction materials at present being used are bricks, cement, stone, sand and steel rods. These are being stocked properly. 2. The contractor is obtaining sand and sub grade from the licensed quarries. No borrow pit operations have been carried out so far. 3. The excavated earth for foundation work of Dharamshala in Tungeshwar has been kept aside and will be reused for filling. 4. The soil erosion issue is not there as there is no cutting or steep slope issues involved in the project. 5. The fuel and lubricants are not stored at site as project is small in nature. These are purchased from market as per need. 6. No water body in the impact area of the subproject. 7. Generation of dust is on account of material handling at site. Necessary dust suppression measures such as water sprinkling are followed. 8. The construction vehicles usage is not much in the project. It is only for the transportation of construction materials and there is a small concrete mixer at site. The trucks carrying construction material have pollution under control certificates. 9. In the current project the only noisy equipment used is concrete mixer and it is operated intermittently. No excess noise generation is on account of construction activities. 10. The material handling at site is fine as most of the workers were seen using personal protective equipment. 11. Construction waste generated so far has been stored for utilization and disposal further at designated location. 12. The construction camp has no functioning toilet at present. The toilet block is under construction. 13. Use of PPE's is satisfactory. Caution tape is provided and caution sign board is also put up at site. 14. Risk Force Majeure: situation not occurred so far. Necessary action will be taken as per contract provisions if such situation arises		

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	15. Malaria risk 16. Chance archaeological finds 17. Religious structures 18. Construction Staff causing disruption to migratory birds		15. Instructions have been given to contractor regarding malaria risk and prevention measures. 16. Chance Archaeological finds have not been found so far during the construction works. The contractor has been instructed to inform to PIU and DSC, if any chance find is found. 17. The project is not impacting any religious structures rather its meant for maintenance and restoration of religious structures. 18. There is neither any route of migratory birds nor any location where migratory birds are visiting.		
Operation	1-Environmental conditions 2.Uncontrolled tourism 3. Management of the toilet blocks 4. Adequate drainage 5. Unhygienic condition due to poor maintenance of sanitation facilities and irregular solid waste collection 6. Increased waste loads onto the existing waste disposal facilities	PMU, UTDB	The project not yet reached Operation phase	Not Applicable	Not applicable

Table 7 (ii): EMP Monitoring Status Chart- Conservation of Cultural Heritage and urban place making in Nainital Lot-1

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
UK/IDIPT/III/BHT/01					
Location	Lack of sufficient planning to assure long term sustainability of the facilities and ensure protection specially from earthquake and other natural disasters	PMU & DSC	1 .Environmental impacts were ascertained and accordingly IEE and EMP have been prepared and EMP being complied with. The project planning done in advance and after many stakeholder consultations		
Pre-construction activities by the Contractor	<p>1.Construction Camps</p> <p>2.Defining of construction/work areas on ground for activities within 200m of the boundaries of the protected areas</p> <p>3. Circulation plan during construction</p> <p>4. Site clearance activities</p> <p>5.Drinking water availability</p> <p>6. Identification of disposal sites</p>	Contractor & DSC	<p>1 Construction camp established in open land near the Methodist church project site. It is near habitation. Sanitation facilities at construction camp are not proper. Drinking water facilities available at site. The source of water is tap water.</p> <p>2. No protected area within 200 m of project site</p> <p>3.No impact on traffic movement during construction.</p> <p>4. The site clearance activities have been carried out and excavated earth has been kept aside.</p> <p>5. Potable drinking water is being made available for the construction force through the existing tap water supply.</p> <p>6. The waste material generated due to clearance and demolition activities will be used to the extent</p>	1- First aid kits have not been procured. First aid training has not been imparted to appropriate number of workers.	<p>1- The contractor has been instructed to procure at least two first aid kits. One to be kept at camp and one at construction site. Get first aid training to appropriate number of workers.</p> <p>3- A training program on environmental safeguards has been conducted by the DSC Environmental expert after mobilisation of the contractor</p>

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	7. Waste management on site		possible in the project. The site for disposal has been selected in consultation with Municipality and DFO. It is a designated dumping site. 7. So far the waste generated during the construction is segregated and stored at the site for possible reuse later. The waste disposal plan will be prepared in the end phase of construction period by the contractor and reviewed by the DSC and will be approved in consultation with PIU		
Construction	1. Improper stockpiling 2. Quarry/ Borrow pit operations 3. Stripping, stocking & preservation of top soil 4. Soil erosion 5. Water pollution due to fuel/lubricants 6. Siltation of water bodies		1. The main construction materials at present being used are bricks, cement, sand and steel rods. Proper stockpiling was not seen. So instructions were given to the Contractor. 2. Material is purchased from licensed quarries. No quarrying/ borrow pit operations done so far. 3. The top soil generated is preserved for further use. 4. The soil erosion issue is not there as there is no cutting or steep slope issues involved in the project. 5. The fuel and lubricants are not stored at site as project is small in nature. These are purchased from market as per need. 6. Silt prevention measures undertaken (silt traps) in Treatment	1- The contractor shall keep one safety officer at site.	1- The contractor shall maintain availability of PPEs. 2- Contractor shall use man at work board and red tape barricades. 3- Construction material and waste shall be stored in demarked area with barricades.

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	<p>7. Generation of dust</p> <p>8. Emission from construction vehicles</p> <p>9. Noise from construction equipment</p> <p>10. Material handling at site</p> <p>11. Disposal of construction waste/debris</p> <p>12. Sanitation facilities at project site</p> <p>13. Safety measures</p> <p>14. Risks force majeure</p>		<p>of Dam wall, restoration of Band Stand and Municipal Library</p> <p>7. Generation of dust is on account of material handling at site. Necessary dust suppression measures such as water spray is followed.</p> <p>8. The construction vehicles usage is not much in the project. It is only for the transportation of construction materials and a small concrete mixer at site. The trucks carrying construction material have pollution under control certificates.</p> <p>9. In the current project the only noisy equipment used is concrete mixer and it is operated intermittently.</p> <p>10. The material handling at site is fine as most of the workers were seen using personal protective equipment.</p> <p>11. Construction waste generated so far has been stored for utilization and disposal further at designated location.</p> <p>12. Sanitation facilities at site are satisfactory.</p> <p>13. Use of PPE's is satisfactory. Caution tape is provided and caution sign board is also put up at site.</p> <p>14. Risk Force Majeure: situation not occurred so far. Necessary action will be taken as per contract provisions if such situation arises</p>		

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	15. Malaria risk 16. Chance archaeological finds 17. Religious structures 18. Construction Staff causing disruption to migratory birds		15. Instructions have been given to contractor regarding malaria risk and prevention measures. 16. Chance Archaeological finds have not been found so far during the construction works. The contractor has been instructed to inform to PIU and DSC, if any chance find is found. 17. The project is not impacting any religious structures 18. There is neither any route of migratory birds nor any location where migratory birds are visiting.		
Operation	1-Environmental conditions 2.Uncontrolled tourism 3. Management of the toilet blocks 4. Adequate drainage 5. Unhygienic condition due to poor maintenance of sanitation facilities and irregular solid waste collection 6. Increased waste loads onto the existing waste disposal facilities	PMU, UTDB	The project not yet reached Operation phase	Not Applicable	Not applicable

Table 7 (iii): EMP Monitoring Status Chart- Restoration and adaptive reuse of Almora Fort (Rani Mahal)

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
UK/IDIPT/III/BHT/03					
Location	Lack of sufficient planning to assure long term sustainability of the facilities and ensure protection specially from earthquake and other natural disasters	PMU & DSC	1. IEE and EMP have been prepared and EMP being complied with. The project planning done in advance and after many stakeholder consultations		
Pre-construction activities by the Contractor	<p>1. Construction Camps</p> <p>2. Defining of construction/work areas on ground for activities within 200m of the boundaries of the protected areas</p> <p>3. Circulation plan during construction</p> <p>4. Site clearance activities</p> <p>5. Drinking water availability</p> <p>6. Identification of disposal sites</p>	Contractor & DSC	<p>1 Construction camp established in open land near the project site. It is very far from habitation. Sanitation facilities at construction camp are not proper.</p> <p>2. No protected area within 200 m of project site</p> <p>3. No impact on traffic movement during construction.</p> <p>4. The site clearance activities have been carried out at excavated earth has been kept aside.</p> <p>5. Drinking water facilities available at site. The source of water is piped supply from natural source.</p> <p>6. The waste material generated due to clearance and demolition activities will be used to the extent possible in the project. Towards the end of construction phase, the</p>	1- First aid kits have not been procured. First aid training has not been imparted to appropriate number of workers.	<p>1- The contractor has been instructed to procure at least two first aid kits. One to be kept at camp and one at construction site. Give first aid training to appropriate number of workers.</p> <p>3- A training program on environmental safeguards has been conducted by the DSC Environmental expert after mobilisation of the contractor</p>

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	7. Waste management on site		<p>site for disposal of waste material will be identified, keeping in view the quantity to be disposed off.</p> <p>7. Presently, the waste generated is segregated and stored at the site for possible reuse later. The waste disposal plan will be prepared in the end phase of construction period by the contractor and reviewed by the DSC and will be approved in consultation with PIU</p>		
Construction	<p>1. Improper stockpiling</p> <p>2. Quarry/ Borrow pit operations</p> <p>3. Stripping, stocking & preservation of top soil</p> <p>4. Soil erosion</p> <p>5. Water pollution due to fuel/lubricants</p> <p>6. Siltation of water bodies</p>		<p>1. The main construction materials at present being used are bricks, cement, stones, sand and steel rods. These are not stocked properly, for which instructions were given.</p> <p>2. Material is being purchased from licensed quarries. No quarrying/borrow pit operations.</p> <p>3. Top soil generated from foundation work is preserved for reuse.</p> <p>4. The soil erosion issue is not there as there is no cutting or steep slope issues involved in the project.</p> <p>5. The construction vehicles usage is not much in the project. Fuel/ lubricants are not stored in larger quantities and brought as per demand.</p> <p>6. No water body in immediate</p>	<p>1- The contractor shall keep one safety officer at site. Increase sprinkling frequency Cover stockpiled material properly</p>	<p>1- The contractor shall keep availability of PPEs.</p> <p>2- Contractor shall use man at work board and red tape barricades.</p> <p>3- Construction material and waste shall be stored in demarked area with barricades.</p>

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	<p>7. Generation of dust</p> <p>8. Emission from construction vehicles</p> <p>9. Noise from construction equipment</p> <p>10. Material handling at site</p> <p>11. Disposal of construction waste/debris</p> <p>12. Sanitation facilities at project site</p> <p>13. Safety measures</p> <p>14. Risks force majeure</p> <p>15. Malaria risk</p> <p>16. Chance archaeological finds</p>		<p>vicinity</p> <p>7. Water sprinkling done. However, instructions were given to increase the frequency.</p> <p>8. Frequency of transportation vehicles is very limited. The trucks carrying construction material have pollution under control certificates.</p> <p>9. In the present phase, the only noisy equipment used is concrete mixer and it is operated intermittently.</p> <p>10. Usage of PPE not proper and directions were given.</p> <p>11. Presently stored at site. Construction waste generated so far has been stored for utilization and suitable disposal further at designated location.</p> <p>12. Sanitation facility at site is not proper, for which directions were given.</p> <p>13. Usage of PPE was not proper. The contractor was instructed to procure first aid kits and to deploy safety officer to look after safety measures</p> <p>14. Risk Force Majeure situation has not occurred so far. Necessary action will be taken as per contract provisions</p> <p>15. Instructions issued regarding malaria risk and prevention were given.</p> <p>16. Chance Archaeological finds</p>		

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	17. Religious structures 18. Construction Staff causing disruption to migratory birds		have not been found so far during the construction works. The contractor has been instructed to inform to PIU and DSC, if any chance find is found. 17. The project is not impacting any religious structures 18. There is neither any route of migratory birds nor any location where migratory birds are visiting.		
Operation	1- Environmental conditions 2. Uncontrolled tourism 3. Management of the toilet blocks 4. Adequate drainage 5. Unhygienic condition due to poor maintenance of sanitation facilities and irregular solid waste collection 6. Increased waste loads onto the existing waste disposal facilities	PMU, UTDB	The project not yet reached Operation phase	Not Applicable	Not applicable

Table 7 (iv) : EMP Monitoring Status Chart- Creation of Pedestrian Route for Pilgrims and Tourists in Haridwar

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
UK/IDIPT-III/KOT/01					
Location	1 Siting of facilities 2 Lack of sufficient Planning	PMU & DSC	1 Construction camp established in open land near multi facility complex. It is away from habitation. 2. IEE and EMP have been prepared and EMP being complied with. The project planning done in advance and	1- Toilet Block at construction camp not completed. 2- Contamination of upper Ganga canal water with	1- The contractor has been instructed to complete the toilet block immediately. 2- A strict vigil is kept by the DSC/PIU staff at site to

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	<p>3 Impact on archaeological remains</p> <p>4 Other</p>		<p>discussed in UTDB during DPR preparation.</p> <p>3. No site of archaeological remains in the vicinity</p> <p>4. Upper canal close to project influence area</p>	<p>earth and other construction material</p>	<p>ensure that no excavated earth or construction materials find their way in the canal and EMMP is strictly followed.</p>
Pre-construction activities by the Contractor	<p>1. Construction Camps</p> <p>2. Defining of construction/work areas on ground for activities within 200m of the boundaries of the protected areas</p> <p>3. Circulation plan during construction</p> <p>4. Site clearance activities</p> <p>5. Drinking water availability</p> <p>6. Identification of disposal sites</p>	Contractor & DSC	<p>1 The construction camp established and workers are using this as accommodation. Sanitation facilities at construction camp are not available. Drinking water facilities available at site. The source of water is existing bore well</p> <p>2. No protected area within 200 m of project site</p> <p>3. No impact on traffic movement during construction as there is no frequent to and fro transportation of materials from the construction camp site. The project site is on extreme left edge of NH-58 and construction activities are not interfering with traffic movement and tourist movement.</p> <p>4. The site clearance activities have been carried out at multi facility complex and excavated earth has been kept aside.</p> <p>5. Potable drinking water is being made available for the construction force through the existing bore well.</p> <p>6. The waste material generated due to clearance and demolition activities will be used to the extent possible in the project. Towards the end of construction phase, the site for</p>	<p>1- Toilet Block at construction camp not completed.</p> <p>2- First aid kits have not been procured.</p>	<p>1- The contractor has been instructed to complete the toilet block at construction camp immediately.</p> <p>2- The contractor has been instructed to procure at least two first aid kits. One to keep at camp and one at construction site.</p> <p>3- A training program on environmental safeguards has been conducted by the DSC Environmental expert after mobilisation of the contractor</p>

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	7. Waste management on site		disposal of waste material will be identified, keeping in view the quantity to be disposed off. 7. The waste generated during the construction is segregated and stored at the site for possible reuse later. The waste disposal plan will be prepared in the end phase of construction period by the contractor and reviewed by the DSC and will be approved in consultation with PIU		
Construction	1. Improper stockpiling 2.Quarry/ Borrow pit operations 3.Stripping, stocking & preservation of top soil 4.Soil erosion 5. Water pollution due to fuel/lubricants 6. Siltation of water bodies		1. The main construction materials at present being used are bricks, cement, sand and steel rods. These are being stocked properly. 2. The contractor is obtaining sand and sub grade from the licensed quarries. No borrow pit operations have been carried out so far. 3- The top soil generated at multi facility complex due to excavation is kept aside. 4. The soil erosion issue is not there as there is no cutting or steep slope issues involved in the project. 5. The fuel and lubricants are not stored at site as project is small in nature. These are purchased from market as per need. 6. The only excavated earth is at multi facility complex. This earth has been kept aside and is away from Upper Ganga canal. This earth after completion of foundation works will be filled back. No chance of siltation in	1- The construction workers' camp has toilet block but it is not functional. 2- The contractor has not procured any first aid kit. 3- PPE usage by the construction work force is not satisfactory	1- The contractor has been advised to make the toilet block functional as early as possible . 2- The contractor has been advised to procure at least two first aid kits. 3- Contractor to ensure usage of PPEs.

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	<p>7. Generation of dust</p> <p>8. Emission from constⁿ vehicles</p> <p>9. Noise from constⁿ equipment</p> <p>10. Material handling at site</p> <p>11. Disposal of constⁿ waste/debris</p> <p>12. Sanitation facilities at project site</p>		<p>Canal due to construction activities.</p> <p>7. Generation of dust is on account of material handling at site. Necessary dust suppression measures such as water spray are followed.</p> <p>8. The construction vehicles usage is not much in the project. It is only for the transportation of construction materials and a small concrete mixer at site. The trucks carrying construction material have pollution under control certificates. The mixer small generator and this operates intermittently.</p> <p>9. In the current project the only noisy equipment used is concrete mixer and it is operated intermittently. No excess noise generation is on account of construction activities.</p> <p>10. The material handling at site is not proper as most of the workers were not seen using personal protective equipment.</p> <p>11. So far there has been no generation of construction waste/debris as the only construction works being taken up are wall along the canal and foundation works at multi facility centre.</p> <p>12. The construction camp has no functioning toilet at present. The toilet block is under construction.</p>		

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	<p>13. Safety measures</p> <p>14. Risks force majeure</p> <p>15. Malaria risk</p> <p>16. Chance archaeological finds</p> <p>17. Religious structures</p> <p>18. Construction Staff causing disruption to migratory birds</p>		<p>13. The majority of the construction work force is not using personal protective equipment (PPE) such as hand gloves, shoes, helmets, jackets , etc. The reason given is that they feel uncomfortable.</p> <p>14. Risk Force Majeure situation has not occurred so far. Necessary action will be taken as per contract provisions</p> <p>15. The project site as well as workers' camp are close to Upper Ganga canal. There are chances of mosquito breeding although no water accumulation takes place at construction site. The contractor is instructed to keep good housekeeping at construction workers' camp and DSC staff at site monitors. Malarial risk is not anticipated.</p> <p>16. Chance Archaeological finds have not been found so far during the construction works. The contractor has been instructed to inform to PIU and DSC , if any chance find is found. Necessary procedure such informing to state Archeological Department and waiting for their instruction, will be followed.</p> <p>17. The project is not impacting any religious structures</p> <p>18. The project site is located in a urban area and there is neither any route of migratory birds or any location where migratory birds are visiting.</p>		
Operation	<p>1-Environmental conditions</p> <p>2.Uncontrolled tourism</p>	PMU, UTDB	The project not yet reached to	Not Applicable	Not applicable

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	3. Management of the toilet blocks 4. Adequate drainage 5. Unhygienic condition due to poor maintenance of sanitation facilities and irregular solid waste collection 6. Increased waste loads onto the existing waste disposal facilities		Operation phase		

Table 7(v): EMP Monitoring Status Chart- Development of Tourism Infrastructure in Sem Mukhem

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
UK/IDIPT-III/KOT/02					
Location impacts	1. Siting of facilities 2. Lack of sufficient planning 3. Impact on archaeological remains 4. Other	PMU & Line Agency	1. The Development of Tourism Infrastructure at SemMukhem has been finalised in consultation with administration and local needs and meets all requirements of local laws. 2. No Action but IEE and EMP have been prepared as part of sub project preparation. The project components have been finalised after detailed review of DPR and local level consultations. 3. No site of archaeological remains in the vicinity, hence no action needed 4. The project being at higher elevation, accessibility may be limited during extreme weather conditions.	No issue related to location finalisation	None
Design & pre construction impacts	1. Impact on sensitive areas 2. Slope stability related issues 3. Increased storm water runoff 4. Impact on ground water quality 5. Impact on aesthetic appeal 6. Integration of energy conservation	DSC & PIU	1. No acquisition of any forest (reserved/protected) area, hence no impacts and no action needed on this account. 2. The sub project construction works on pathway are on slope. The natural slope is maintained in the pathway and other construction works. The side slopes around pathway are compacted. 3. The storm water runoff issue will not be there at rest shelter or at pathway as these are in hilly terrain having quick natural drainage. No storm water runoff is anticipated at Mukhem village also. 4. No impact on ground water quality. Water requirement for construction is very less (<4000 liters/day) and is being met from nearby natural reservoir. The minor requirement for construction has no impact on reservoir or surrounding eco system. 5. No impact on aesthetic appeal.	1- The contractor work force may cut trees in the vicinity for fuel wood and may hunt natural habitat.	1- The contractor staff and work force has been given training on environmental safeguard issues and workers have been sensitized for not cutting trees and hunting animals and birds.

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
			6. Integration of Energy conservation measures have been planned in the project design. The project plans to use solar lighting system.		
Pre-construction activities by the Contractor	1. Construction Camp 2. Defining of construction/work areas on ground for activities within 200m of the boundaries of the protected areas 3. Circulation plan during construction 4. Site clearance activities 5. Drinking water availability 6. Identification of disposal sites 7. Waste mgt on site	Contractor & DSC	1. The contractor has hired a house in the vicinity of Mela ground (location of rest shelter) and provided drinking water and sanitation facilities. 2. The project components are not using any area of forest although forest area is around pathway. The pathway is being constructed on already existing track outside forest area. 3. No impact on traffic movement due to construction activity has been noticed as vehicular movement due to traffic is insignificant. The tourist movement to Sem Nagraja temple will also not be affected. 4. The site clearance activities have been completed. No tree cutting was required 5. The drinking water requirements are being met from nearby natural sources. 6. Till now no waste material is generated. The waste disposal site will be identified in the later phase of construction period depending upon quantity of waste material to be disposed off. 7. The waste material generated is being collected and stored aside. The disposal plan will be prepared in later phase of construction period.	Toilet Block at Rest Shelter Construction site incomplete.	The contractor has been instructed to complete the toilet block work at rest shelter.
Construction impacts	1. Improper stockpiling 2. Quarry/ Borrow pit operations 3. Stripping, stocking & preservation of top soil	Contractor	1. The site being at elevation, due to cold weather construction activity was not much, so only stock piling of bricks was seen. 2. The contractor is obtaining sand and subgrade from the licensed quarries and has been instructed to submit copy of license of the quarry. No borrow pit operations are required. 3. The excavated earth for foundation works of rest shelter has been kept aside and will be reused for filling.	1- Environmental monitoring during construction phase 3- Use of personal protective equipment	1- The contractor has not carried out environmental monitoring till date. The contractor has been advised to carry out environmental monitoring through an

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	<p>4. Soil erosion</p> <p>5. Water pollution due to fuel/lubricants</p> <p>6. Siltation of water bodies</p> <p>7. Generation of dust</p> <p>8. Emission from construction vehicles and equipment</p> <p>9. Noise from construction equipment</p>		<p>The Mela ground is a waste and barren land so top soil is of no importance as it has rocky and non fertile nature.</p> <p>4. So far in the construction works no soil erosion issue has been identified.</p> <p>5. The fuel and lubricants are not stored at site and these are purchased on need basis so question of water pollution due to fuel and lubricants.</p> <p>6. The project involves deepening of reservoir near Mela Ground. The work on this has not yet started. In other components of project there is no issue of siltation. when work start on the reservoir site necessary measures to avoid siltation will be taken up.</p> <p>7. The generation of dust is there from construction material handling such as sand, sub grade and cement. Necessary measures for dust suppression are taken. These measures include water spray and keeping sand and cement inside the cover shed.</p> <p>8. At project site no construction vehicles are used except trucks bringing construction materials at site. These trucks/tempo have pollution under control certificates. The only construction equipment used at site is currently mixer, which is Diesel Generator operated. This mixer is operating intermittently and as such there is no issue of air emissions. The contractor has been advised to carry out ambient air quality monitoring at two locations in project area.</p> <p>9. In the current construction phase of project mixer is the only noise generating equipment is in operation. No noise issue has been felt during the site visits. This</p>		<p>accredited laboratory</p> <p>2- The contractor has been instructed to enforce use of PPEs by the workers.</p>

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	10. Material handling at site		operated intermittently. The site is far away from Mukhem village.		
	11. Disposal of const ⁿ waste/debris		10. The material handling by the workers at site is proper as construction labour were seen using personal protective equipment such as gloves, shoes, helmets, etc. Some workers were seen not using personal protective equipment. The contractor has been instructed to enforce use of personal protective equipment.		
	12. Safety measures		11. At present construction waste /debris generation is not seen at project site as works have just started. It will be more during finishing works of rest shelter, reservoir and temple rehabilitation at Mukhem village. The maximum construction waste will be reutilised. The material which cannot be used will be disposed off for this a disposal plan will be prepared in later phase of construction period.		
	13. Risks force majeure		12. The contractor has procured personal protective equipment such as helmets, gum boots, jackets, gloves, etc. These are being used. Some of the workers were seen not using PPE. The contractor has been advised to enforce use of PPEs. A training program on safety and environmental safeguards has been conducted by the DSC environmental expert for the contractor staff.		
	14. Malaria risk		13. So far conditions for Force Majeure have not been faced at the project site.		
			14. The project site being at an elevated height in a hilly terrain where low temperatures prevail. No mosquito breeding has been felt. However, contractor has been		

IEE/EMP Component	Environmental issues	Responsibility	Actions during Reporting Period	Compliance issues	Corrective actions
	<p>15. Chance archaeological finds</p> <p>16. Religious structures</p> <p>17. Construction Staff causing disruption to migratory birds</p>		<p>instructed to take necessary measures in consultation with local state health department.</p> <p>15. Chance Archaeological finds have not been found so far during the construction works. The contractor has been instructed to inform to PIU and DSC , if any chance find is found. Necessary procedure such as informing to state Archeological Department and waiting for their instruction, will be followed.</p> <p>16. No action needed as there is no impact on any religious structure due to project implementation.</p> <p>17. No action needed as the project site is not close to any route of migratory birds or any location where migratory birds are visiting.</p>		
O & M impacts	<p>1. Environmental conditions</p> <p>2. Uncontrolled tourism</p> <p>3. Management of the toilet blocks</p> <p>4. Adequate drainage</p> <p>5. Unhygienic condition due to poor maintenance of sanitation facilities and irregular solid waste collection</p> <p>6. Increased waste loads onto the existing waste disposal facilities</p>	PMU, Contractor & DSC	Not Applicable as project not yet completed	Not Applicable	Not Applicable

7. Approach & Methodology engaged for environmental monitoring of the project

15. Continuous monitoring of EMP implementation is being carried out by DSC, PIU and PMU.
16. Concerned staff of DSC and PIU visit the construction sites and report to Team Leader DSC and PMC about issues/ problems related to environmental non-compliance. Necessary directions, in case of non-compliance are being issued to the contractors on the site and through letters about the procedures to resolve the problems/issues or requirements. The Safeguards Staff of DSC conduct regular site visits to monitor the implementation of safeguards measures on sites.

8. Monitoring of environmental receptors/ attributes

Monitoring basis

17. Monitoring for the implementation of Environmental Monitoring Plan/Management Plan is required to be done to check if any adverse impact is being caused by the construction activities. The monitoring of these variables is to be carried out in construction sites within 100 m impact zone of the sub project.
18. The monitoring of environmental variables is to be carried out as per the agreed Environmental Monitoring Plan.

Type of environmental receptor/ attribute to be monitored

19. The environmental attributes to be monitored include the air, noise and water quality parameters at the construction sites in sub project sites. The air quality parameters monitored include RSPM (PM₁₀), PM_{2.5} SO₂ and NO₂. The water quality parameters include temperature, pH, electrical conductivity (EC), dissolved oxygen (DO), biochemical oxygen demand (BOD), total suspended solids (TSS), total dissolved solids (TDS) and turbidity. In case of noise the day and night time Leq values are monitored.

Methods of monitoring and equipment used

20. The parameters and standard methodology used for monitoring is given in Table 8.

Table 8: Parameters and Methodology for Environmental Monitoring

Parameter	Methodology
(PM ₁₀)	High Volume Sampler method (attached with cyclone)/Respirable Dust samplers.
(PM _{2.5})	PM _{2.5} sampler, Gravimetric method
SO ₂	IS Modified West and Gaeke Method
NO ₂	Jacob & Hochheiser Modified (Sodium Arsenite) Method.
Noise Level	Direct Reading Sound Level Meter.
Temperature	Digital/Mercury Thermometer Method.
pH	Electrometric Method.
EC	Electrometric Method.
DO	Winkle's Method Using Azide Modification
BOD ₅	Five Days BOD as per APHA 2005
TDS	Digital Meter Method.
TSS	Gravimetry (Filtration and Drying at 105°C)
Turbidity	Nephelo Turbidity Method.

9. Implementation of Environmental Monitoring Plan

21. Implementation of Environmental Monitoring Plan for sub projects is shown in Table 9.

Table 9 (i): Implementation of Environmental Monitoring Plan- For Projects under DSC
Dehradun

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project implementation	Remarks
UK/IDIPT-III/DDN/01 Development of Tourism Infrastructure In Kartikeya Swami Circuit (Lot-1) (Durgadhar Temple)						
Noise	09/03/2016	Sound Level Leq. dB(A)	Noise Standards for 55 dB(A) for Day Time and 45 dB(A) for Night Time	- Day Time-49.5, 44.5, 50.0 Night Time- 38.1,31.4,40.0		Within permissible limits
Air Quality	09/03/2016	Particulate Matter (PM ₁₀), µg/m ³	100	59.12		Within permissible limits
		Particulate Matter (PM _{2.5}), µg/m ³	60	25.05		
		Sulphur Dioxide (So ₂). µg/m ³	80	8.14		
		Nitrogen Dioxide (No ₂) µg/m ³	80	19.30		
		Carbon Monoxide (Co), mg/m ³	4	0.40		
Water Quality	09/03/2016	PH (at 25°C) Colour Turbidity Odour Taste Total Hardness	CPCB Standards for Surface water bodies and Drinking Water Standards for Potable water	7.25 <5 BDL Agreeable Agreeable 210.00		Within permissible limits

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
		as CaCo ₃ Calcium as Ca Alkalinity as CaCo ₃ Chloride as Cl Magnesium as Mg Total Dissolved Solids Iron as Fe Copper as Cu Total Coliform E. Coli		56.11 186.00 61.07 17.98 190.00 0.12 <0.05 <2/100ml Absent		
UK/IDIPT-III/DDN/01 Development of Tourism Infrastructure In Kartikeya Swami Circuit (Lot-1) (Tungeshwar)						
Noise	09/03/2016	Sound Level Leq. dB(A)	Noise Standards for 55 dB(A) for Day Time and 45 dB(A) for Night Time	Day Time-58.5, 49.9, 65.0 Night Time-50.1, 44.4, 55.0		Within permissible limits
Air Quality	09/03/2016	Particulate Matter (PM ₁₀), µg/m ³ Particulate Matter (PM _{2.5}), µg/m ³ Sulphur Dioxide (So ₂). µg/m ³ Nitrogen Dioxide (No ₂) µg/m ³ Carbon Monoxide (Co), mg /m ³	NAAQS Standards	61.39 28.42 9.74 21.30 0.45	Industrial, Residential, Rural and other Areas	Within permissible limits

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
Water Quality	09/03/2016	PH (at 25°C)	Drinking Water Standards specified in IS: 10500	7.25		Within permissible limits
		Colour		<5		
		Turbidity		BDL		
		Odour		Agreeable		
		Taste		Agreeable		
		Total Hardness as CaCo3		226.00		
		Calcium as Ca		60.92		
		Alkalinity as CaCo3		186.00		
		Chloride as Cl		61.07		
		Magnesium as Mg		17.98		
		Total Dissolved Solids		208.00		
		Iron as Fe		0.10		
		Copper as Cu		<0.05		
		Total Coliform		<2/100ml		
		E. Coli		Absent		

Table 9 (ii): Implementation of Environmental Monitoring Plan- For Projects under DSC Kotdwara

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
UK/IDIPT-III/KOT/01 Creation of Pedestrian Route for Pilgrims and Tourists in Haridwar						
Noise	Winter Season	Sound Level Leq. dB(A)	Noise Standards for 55 dB(A) for Day Time and 45 dB(A) for Night Time	Baseli ne was not done by DSC. Monito ring was	1-Leq (Day) 71.50 dB(A) at Prem Nagar Ashram to Rishikul Chowk stretch and 71.0 dB(A) at Singh DwarChowk to Prem Nagar Ashram Chowk	Values in day time are exceeding the limits because of vehicular noise on NH-58. In night time monitoring has not been carried out as no construction activity is taken up during night time.

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
				done by contractor in winter season , post commencement of works which may be considered base line.	2- No monitoring done in night time	
Air Quality	Winter Season	SO ₂ , NO _X , CO , PM ₁₀ and PM _{2.5}	NAAQS Standards		Industrial, Residential, Rural and other Areas	All parameters of ambient air quality are well within the limits.
		Particulate Matter < 10 micron	100		82.70 ug/m ³ at Prem Nagar Ashram to RishikulChowk stretch and 82.40 ug/m ³ at Singh DwarChowk to Prem Nagar Ashram Chowk	
		Particulate Matter < 2.5 micron	60µg/m ³		57.30 ug/m ³ at Prem Nagar Ashram to RishikulChowk stretch and 57.50 ug/m ³ at Singh DwarChowk to Prem Nagar Ashram Chowk	
		Sulphur dioxide,(SO ₂)	80 µg/m ³		18.20 ug/m ³ at Prem Nagar Ashram to RishikulChowk stretch and 18.50 ug/m ³ at Singh DwarChowk to Prem Nagar Ashram Chowk	
		Nitrogen dioxide(NO ₂)	80 µg/m ³		14.1 ug/m ³ at Prem Nagar Ashram to RishikulChowk stretch and 14.30 ug/m ³ at Singh DwarChowk to Prem Nagar Ashram Chowk	

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
		Carbon Monoxide (CO) mg/m3	02 mg/m3 for 08 hrs		Not Detected in both locations	
Water Quality	Winter Season	Parameters given below for Upper Ganga Canal and Drinking Water BOD₃ at 27°C DO Iron Lead Nickel Oil & grease pH Zinc (as Zn) BACTERIOLOGICAL TESTS Total Coli form Organisms 100 ml. at 37°C (MPN) Feacal Coli form / 100ml	CPCB Standards for Surface water bodies and Drinking Water Standards for Potable water		1- Colour- <5 Hazen units 2- Agreeable 3- Turbidity - Nil 4- pH- 7.4 5- Total Hardness 169 mg/l 6- Iron as Fe - Nil mg/l 7- Chlorides- 75 mg/l 8- Fluoride - 0.8 mg/l 9- TDS- 378 mg/l 10- Total Coli form - Not Detected 11- Ecoli - Not Detected	All parameters of drinking water at camp are well within the limits of Drinking water specified in IS: 10500
UK/IDIPT-III/KOT/02 Development of Tourism Infrastructure in SemMukhem						
Noise	Winter Season	Sound Level Leq. dB(A)	Noise Standards for 55 dB(A) for Day Time and 45 dB(A) for Night Time	Baseline monitoring was not done by DSC. Monitoring was done by contractor in	Leq (Day) at Mela Ground - 57 dB(A)	The noise level is well within limits during day. No monitoring carried out during night time as construction activities are not carried out during night time.
Air Quality	Winter Season	SO2, NOX, CO , PM10 and PM2.5	NAAQS Standards		Industrial, Residential, Rural and other Areas	All monitored ambient air quality parameters are well within the stipulated limits of air quality.
		Particulate Matter < 10 micron	100		75.70 ug/m3 at Mela Ground	

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
		Particulate Matter < 2.5 micron Sulphur dioxide,(SO ₂) Nitrogen dioxide(NO ₂) Carbon Monoxide (CO) mg/m ³	60µg/m ³ 80 µg/m ³ 80 µg/m ³ 02 mg/m ³ for 08 hrs	winter season, post commencement of works which may be considered base line.	53.2 ug/m ³ 14.50 ug/m ³ 11.6 ug/m ³ Not Detected (All values monitored at Mela Ground)	
Water Quality	Winter Season	Parameters specified for Drinking water in IS: 10500	Drinking Water Standards specified in IS: 10500		1- Colour- <5 Hazen units 2- Agreeable 3- Turbidity - Nil 4- pH- 7.3 5- Total Hardness 175 mg/l 6- Iron as Fe - Nil mg/l 7- Chlorides- 74 mg/l 8- Fluoride - 0.77 mg/l 9- TDS- 378 mg/l 10- Total Coli form - Not Detected 11- Ecoli - Not Detected	All monitoring parameters are for drinking water available at Mela ground where construction works were in Progress. The monitoring parameters of drinking water are well within the stipulated limits of Drinking Water specified in IS: 10500.

Table 9 (iii): Implementation of Environmental Monitoring Plan- For Projects under DSC Bhimtal

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
Restoration and Adaptive Reuse of Champawat Fort (Banasur)						

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
Noise	Summer Season	Sound Level Lmax, Lmin. dB(A)	Noise Standards for 55 dB(A) for Day Time and 45 dB(A) for Night Time (Residential Zone)	Baseline monitoring was not done by DSC.	At Village Karnkart Lmax -49.3(Day), 41.4 (Night) dB(A) Lmin – 39.1(Day), 32.0(Night) dB(A)	Values are well within permissible level
Noise	Summer Season	Sound Level Lmax, Lmin. dB(A)	Noise Standards for 50 dB(A) for Day Time and 40 dB(A) for Night Time (Silent Zone)	Baseline Monitoring was done by contractor in winter season	At Project Site Lmax - 48.2(Day), 42.0 (Night)dB(A) Lmin – 39.6(Day), 31.4 (Night)dB(A)	Values are well within permissible level
Air Quality	Winter Season	SO ₂ , NO _X , CO , PM ₁₀ and PM _{2.5}	NAAQS Standards		Industrial, Residential, Rural and other Areas	All parameters of ambient air quality are well within the limits.
		Particulate Matter < 10 micron	100 µg/m ³		65.50 µg/m ³ at Near Village, PostKarnkart	
		Particulate Matter < 2.5 micron	60µg/m ³		36.50 µg/m ³ at Near Village, PostKarnkart	
		Sulphur dioxide, (SO ₂)	80 µg/m ³		6.30 µg/m ³ at Near Village, PostKarnkart	

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
		Nitrogen dioxide(NO ₂)	80 µg/m ³		14.30 µg/m ³ at Near Village,PostKarnkar t	
		Carbon Monoxide (CO) mg/m ³	02 mg/m ³ for 08 hrs		0.38 mg/m ³ at Near Village,PostKarnkar t	
Water Quality	Summer Season	Drinking water Village :- Bonga Mehra	CPCB Standards for Surface water bodies and Drinking Water Standards for Potable water		<ol style="list-style-type: none"> 1. pH-7.44 2. Colour <5 3. Turbidity –BDL 4. Odour – Agreeable 5. Taste – Agreeable 6. Total Hardness - 310.30 7. Calcium as Ca- 80.10 8. Alkalinity - 251.20 9. Chloride-68.42 10. Magnisium and Mg- 24.35 11. Total Dissolved Solids – 354.09 12. Iron -0.12 13. Copper<0.04 14. Total Coliform <2/100ml 15. E-Coli –Absent 	All parameters of drinking water are well within the limits of Drinking water specified in IS: 10500
Water Quality	Summer Season	Surface water Village :- Bonga Mehra	CPCB Standards for Surface water bodies and Drinking Water Standards for Potable water		<ol style="list-style-type: none"> 1. pH-7.0 2. Colour<5 3. Turbidity –BDL 4. Total Hardness - 362.50 5. Calcium as Ca - 98.52 6. Total Alkalinity - 271.44 7. Chloride-65.30 8. Magnisium Hardness -36.34 	

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
					9. Sulfate as SO ₄ -52.30 10. Nitrate as NO ₃ -6.44 11. Flouride as F -0.8 12. Sodium as Na –19.70 13. Potassium as K-3.70 14. TKN as N- 1.40 15. Total Phosphorous -0.26 16. COD-4.15 17. Phenolic Compound -<0.002 18. Iron as Fe-0.15 19. Boron -0.26 20. Sodium Absorption ratio -2.84 21. Free Ammonia as N-0.82 22. Dissolved Oxygen -7.00 23. BOD(3 days at 27) -2.00 24. Zinc as Zn- 0.14 25. Arsanic as As -<0.012 26. Total dissolved Solids -420	
Conservation of Cultural Heritage and Urban Place- making in Nanital						
Noise	Summer Season	Sound Level Lmax, Lmin. dB(A)	Noise Standards for 65 dB(A) for Day Time and 55 dB(A) for Night Time (Commercial Zone)	-	At Nainilake near Dam Wall, Tallital Lmax -61.2(Day), 47.0(Night) dB(A) Lmin – 38.2(Day), 34.5(Night) dB(A)	Values are well within permissible level
Noise	Summer Season	Sound Level Lmax, Lmin. dB(A)	Noise Standards	-	At Nainilake near Dam Wall, Tallital	Values are well within permissible level

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
			for 65 dB(A) for Day Time and 55 dB(A) for Night Time (Commercial Zone)		Lmax - 63.4(Day),44.3 (Night)dB(A) Lmin – 42.8(Day),32.2 (Night)dB(A)	
Air Quality	Summer Season	SO ₂ , NO _X , CO , PM ₁₀ and PM _{2.5}	NAAQS Standards		Industrial, Residential, Rural and other Areas	All monitored ambient air quality parameters are well within the stipulated limits of air quality.
		Particulate Matter < 10 micron	100		56.62ug/m3 at Nainilake Tallital	
		Particulate Matter < 2.5 micron	60µg/m3		25.19ug/m3	
		Sulphur dioxide,(SO ₂)	80 µg/m3		7.54ug/m3	
		Nitrogen dioxide(NO ₂)	80 µg/m3		17.40 ug/m3	
		Carbon Monoxide (CO) mg/m3	02 mg/m3 for 08 hrs		0.22 mg/m3 for 08 hrs	
Water Quality	Summer Season	Drinking water (Tap Water)	CPCB Standards for Surface water bodies and Drinking Water Standards for Potable water		<ol style="list-style-type: none"> 1. pH-7.38 2. Colour <5 3. Turbidity –BDL 4. Odour – Agreeable 5. Taste – Agreeable 6. Total Hardness -332.00 7. Calcium as Ca- 82.20 8. Alkalinity - 254.00 9. Chloride- 68.40 10. Magnesium and 	All parameters of drinking water are well within the limits of Drinking water specified in IS: 10500

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
					Mg- 28.62 11. Total Dissolved Solids – 365.00 12. Iron -0.12 13. Copper<0.05 14. Total Coliform <2/100ml 15. E-Coli – Absent	
Water Quality	Summer Season	Surface water –Naini lake	CPCB Standards for Surface water bodies and Drinking Water Standards for Potable water		1. pH-7.80 2. Colour<5 3. Turbidity – BDL 4. Total Hardness -362.50 5. Calcium as Ca - 98.52 6. Total Alkalinity - 271.44 7. Chloride- 65.30 8. Magnesium Hardness -36.34 9. Sulfate as SO4- 52.30 10. Nitrate as NO3-2.44 11. Fluoride as F -0.8 12. Sodium as Na – 19.70 13. Potassium as K- 3.70 14. TKN as N- 1.40 15. Total Phosphor	

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
					ous -0.26 16. COD-4.15 17. Phenolic Compound - <0.002 18. Iron as Fe-0.15 19. Boron - 0.26 20. Sodium Absorption ratio -2.84 21. Free Ammonia as N-0.82 22. Dissolved Oxygen - 7.00 23. BOD(3 days at 27) -10.00 24. Zinc as Zn- 0.14 25. Arsanic as As - <0.012 26. Mercury as Hg - <0.002 27. Total dissolved Solids - 420	
Restoration and Adaptive Reuse of Almora Fort (Rani Mahal)						
Noise	Summer Season	Sound Level Lmax, Lmin. dB(A)	Noise Standards for 55 dB(A) for Day Time and 45 dB(A) for Night Time (Residential Zone)	-	At VikashBhawanDistt Almora Lmax - 48.9(Day),39.8(Night) dB(A) Lmin – 44.2(Day), 32.5(Night) dB(A)	Values are well within permissible level
Noise	Summer	Sound Level Lmax, Lmin.	Noise Standards	-	Near Construction	Values are well within

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
	Season	dB(A)	for 55 dB(A) for Day Time and 45 dB(A) for Night Time (Residential Zone)		Site Lmax - 52.0(Day),42.4 (Night)dB(A) Lmin – 44.1(Day),34.3 (Night)dB(A)	permissible level
Air Quality	Summer Season	SO ₂ , NO _X , CO , PM ₁₀ and PM _{2.5}	NAAQS Standards		Industrial, Residential, Rural and other Areas	All monitored ambient air quality parameters are well within the stipulated limits of air quality.
		Particulate Matter < 10 micron	100 µg/m ³		56.20 ug/m ³ Near VikashBhawanDistt Almora	
		Particulate Matter < 2.5 micron	60µg/m ³		29.33ug/m ³	
		Sulphur dioxide,(SO ₂)	80 µg/m ³		7.22ug/m ³	
		Nitrogen dioxide(NO ₂)	80 µg/m ³		16.43 ug/m ³	
		Carbon Monoxide (CO) mg/m ³	02 mg/m ³ for 08 hrs		0.3 mg/m ³ for 08 hrs	
Air Quality	Summer Season	SO ₂ , NO _X , CO , PM ₁₀ and PM _{2.5}	NAAQS Standards		Industrial, Residential, Rural and other Areas	All monitored ambient air quality parameters are well within the stipulated limits of air quality.
		Particulate Matter < 10 micron	100 µg/m ³		61.81 ug/m ³ Near Construction site Almora	
		Particulate Matter < 2.5 micron	60µg/m ³		23.09ug/m ³	
		Sulphur dioxide,(SO ₂)	80 µg/m ³		6.50ug/m ³	
		Nitrogen dioxide(NO ₂)	80 µg/m ³		19.22 ug/m ³	

Component	Periods of monitoring	Parameters/Pollutants	Standard	Base line status	Monitoring result during project Implementation	Remarks
		Carbon Monoxide (CO) mg/m3	02 mg/m3 for 08 hrs		0.38 mg/m3 for 08 hrs	
Water Quality	Summer Season	Drinking water (Tap Water)	CPCB Standards for Surface water bodies and Drinking Water Standards for Potable water		1. pH-7.22 2. Colour <5 3. Turbidity –BDL 4. Odour – Agreeable 5. Taste – Agreeable 6. Total Hardness -345.0 7. Calcium as Ca- 86.55 8. Alkalinity - 268.00 9. Chloride- 70.40 10. Magnesium and Mg- 28.62 11. Total Dissolved Solids – 365.00 12. Iron -0.12 13. Copper<0 .05 14. Total Coliform <2/100ml 15. E-Coli – Absent	All parameters of drinking water are well within the limits of Drinking water specified in IS: 10500

10. Public Consultation Details

22. Meaningful Public Consultation has been done with the stakeholders and the Community, in all the project areas. Details of Public Consultation held in the Reporting period are given in Table 10. Consultation Photographs are provided in Annexure 1(ii).

Table 10(i): Public Consultation Meetings for Tranche III sub-projects Under DSC Kotdwara

Sl. N o.	Sub Project Name and Location	Date	Members Present	Issues Discussed	Outcome
1	Creation of Pedestrian route for Pilgrims and Tourist in Haridwar	01/Jan/2016 and 03/Jan/2016	12	Discussion with Mela Adhikari and his team over Implementation of Haridwar Sub-Project and obtaining permission and NOC from Mela Adhikari Office	1- The Mela Adhikari explained the consultants team procedure to obtain NOC and permission and advised to submit details of the facilities to be constructed for tourists and pedestrians as part of the sub project. 2- The consultants later submitted necessary information.
2	Development of Tourism Infrastructure in Sem Mukhem (Tehri Garhwal)	05/Jan/2016	7	Discussion about the sub-project components, in detail, with SDM at sub project site. Explained the Member and Pradhan of Gram Mukhem Village Panchayat and SDM that the project will improve the Tourism potential in Sem Mukhem which will improve the livelihood opportunities to the local people. Team ask suggestions from the participants for the successful implementation of the subproject	1- The Panchayat Members of team suggested Mukhem village and walkways to be taken up for improvement as well as suggestions for Mukhem village temple beautification. The suggestions noted and incorporated in revised sub project cost estimates. 2- The participants suggested for plantation of trees and other local shrubs on the periphery of reservoir being taken up for deepening and collection of rain water near Mela ground. The suggestion was noted by the consultants.
3.	Creation of Pedestrian route for Pilgrims and Tourist in Haridwar	03/Feb/2016	25	Visit to the sub-project site to identify and verify the affected person for resettlement for the disbursement of compensation.	1- Before verification of affected persons for the implementation of micro plan, consultants explained the procedure and requested the participants what details they need to provide. 2- The above discussion helped in compensation disbursement in a smooth manner.
4.	Development of Rural Tourism Infrastructure in Pauri and Tehri District	15/Mar/2016	60	Discussion with local community regarding Rural Tourism project. Aware people about the Home Stay Program of Government.	1- The local villagers at the potential rural areas identified for rural tourism were explained the concept and requirements for Home stay. 2- Local village Panchayat helped the consultant team to see the potential sites of tourism interest. Locations of visits include Kanvashram, Kalaghathi and Jehari Khal.
5	Development of Rural Tourism Infrastructure in Pauri and Tehri District	11/June/2016	100	1- Visit to Kanvashram village to participant in Minister program regarding discussion of Rural Tourism Project in Kanvashram. 2- Visit to Kanvashram village with DFO and Irrigation department for discussion over sub-project	1- The concept of Rural Tourism was explained to the participants and their suggestions were noted for the improvements in Kanvashram to make it a Rural Tourism destination. This helped in the DPR preparation. 2- During visit with DFO, issues related to NOC were discussed at site.

Table 10(ii): Public Consultation Meetings for Tranche III sub-projects Under DSC Dehradun

Name of Sub project and Location	Date of Consultation	Issues Discussed	Members present	Outcome
Kartikeya swami Circuit Durgadhar	18/05/2016	Community awareness about infrastructure works at Durgadhar village	15	Project objectives and outcomes were briefed to the public. Villagers assured to provide their support.
Kartikeya swami Circuit Tungeshwar	19/05/2016	Community awareness about infrastructure work at Tungeshwar village	14	
Durgadhar & Tungeshwar	24/05/2016 To 25.05.2016	Conducted orientation of contractor and labour on environment and Health issues. Also briefed EMP obligations for the contractor		Contractor was sensitized on EMP obligations and necessary duties like usage of PPEs, safe drinking water, anti malaria
Kartikeya swami Circuit Durgadhar	15/06/2016	Regarding Plantation work which is to be done in the Temple Premises in the coming month, by the involvement of local Villagers and Committee members.	16	Villager confirmed their active participation in plantation like digging pits forming manure for plants
Kartikeya swami Circuit Tungeshwar	16/06/2016	Regarding Plantation work which is to be done in the Temple Premises in the coming month, by the involvement of local Villagers and Committee members.	13	

Table 10(iii): Public Consultation Meetings for Tranche III sub-projects Under DSC Bhimtal

Activity /Event at a glance	Date	Issues Discussed	Members present	Outcome
Project Review Meeting at Nainital	09-04-16	Discussion on the progress of Nainital sub project.	18	Stakeholders meeting LDA, PWD, UTDB
Meeting with District Administration at Champawat	11-05-16	Discussion on the land Issues and progress of Champawat sub project.	10	District Administration, Project Team
Public Consultation Meeting at Nainital	20-06-16	Discussion with community for better implementation of Nainital sub project.	12	Public, environmentalists, Project Team. Community was assured about benefits of the project.
Community and Stakeholders	24-06-16	Discussion on present status and better implementation of	20	Commissioner Kumaon reviewed project progress

Meeting at Nainital		Nainital sub project.		in presence of other stakeholders and community
---------------------	--	-----------------------	--	---

11. Any other environmental aspects, impacts observed during implementation which were not covered earlier

23. No such impact observed during the reporting period

12. Details of Complaints received from public and action taken thereof to resolve

UK/IDIPT-III/KOT/01

24. There has been one complaint from a local Haridwar resident named Mr. Sachin Sant. In the issues raised by him in his complaint, pertaining to safeguards, there is only one point regarding work force not working with proper safety norms. Though Contractor is regularly instructed for usage of PPE by the labour, yet it was tried to sensitize the contractor work force for use of personal protective equipment through organizing a training program on safeguards aspects by the Environmental Expert of DSC. During every visit of safeguards experts (environmental and social) the contractor is instructed to enforce the use of PPEs by his work force. The contractor has procured safety shoes, gloves, helmets, jackets, etc. The DSC site staff has been directed to be extra vigilant for the compliance with PPEs usage during working hours at site.

25. No other complaint received during the reporting period.

13. Follow up actions and Conclusions

26. Site supervision is being regularly carried out to ensure that environmental impacts are being adequately mitigated and to ensure continuation of compliance with statutory regulations as required by laws and agreed upon in EMP. The contractors are being regularly guided and instructed to pay attention to environmental issues and adhere to the provisions of EMP. Training Programs for engineers, contractors, and project staff are being conducted and regular informal onsite orientation for the contractor's supervisory staff and site engineers on EMP will be continued.

Annexure: 1: Photo Illustration
Annexure: 1(i): Photo Illustration of Work Progress

Photographs of UK/ IDIPT-III/DDN/01 (Before Intervention) Tungeshwar



Temple Premises



Pathway to Tungeshwar Temple



LabourOrientation



Information board at the site

Photographs of UK/ IDIPT-III/DDN/01 (Before Intervention) Durgadhar



Pathway



Main Temple



Staff with safety equipment



Laborer Training Programme

Photographs of UK/IDIPT/III/BHT/01 Conservation of Cultural Heritage and urban place making in Nainital Lot-1



Flooring Work at Band Stand



Breaking of old plaster methodist church



Basement column strengthening work



Catholic Church Scaffolding is being erected for cleaning and repair of structure

Photographs of UK/IDIPT/III/BHT/03 Restoration and adaptive reuse of Almora Fort (Rani Mahal)1



Steel Work in Almora

Photographs of UK/ IDIPT-III/KOT/01 Creation of Pedestrian Route for Pilgrims and Tourists in Haridwar Project Site



Discussion over Environmental monitoring at Haridwar Project Site



View of Construction Work of Guard Wall in Progress at Upper Ganga Canal bank

**Photographs of UK/ IDIPT-III/KOT/02 Development of Tourism Infrastructure in Sem-Mukhem (Tehri)
Project Site**



View of construction Material Storage at Mela Ground Construction site



Work in Progress at Rest Shelter at Mela Ground



View of Pathway Under Construction

Annexure: 1(ii): Photo Illustration of Consultation



Community Meeting at Durgadhar 18.05.2016



Community Meeting at Durgadhar 15.06.2016



Consultation at Tungeshwar 19.05.2016



Meeting at Tungeshwar 16.06.2016

उत्तर दिनांक 15/06/16 को नोरा गाँव में बैठक की गई। इस बैठक का मुख्य उद्देश्य था कि गाँव नाथिया की आसपास की गाँव जहाँ की तब परित्याक प्रभावशाली के निरुद्ध था सोचने का। सभी लोग का प्रत्यक्ष बडल था। जब इन लोगों का सम्मान के तौर पर नमस्कार था। सभी लोग का को वे लोग शल पैड को जिम्मेवारी लम्बे लेने के लिए तैयार थे। म. धन मंगल दल ने सबसे पहले गड्डा खोदनी जिम्मेवारी ले। उनके बाद हम दल ने इनकी शलखाल न देवता की जिम्मेवारी ली।

1. निरुद्ध शल खोदनी
2. शिखर प्रसाद खोदनी
3. श्रीमती गुरुप्रसाद खोदनी
4. श्रीमती गुरुप्रसाद खोदनी
5. श्रीमती गुरुप्रसाद खोदनी
6. श्रीमती गुरुप्रसाद खोदनी
7. श्रीमती गुरुप्रसाद खोदनी
8. श्रीमती गुरुप्रसाद खोदनी
9. श्रीमती गुरुप्रसाद खोदनी
10. श्रीमती गुरुप्रसाद खोदनी
11. श्रीमती गुरुप्रसाद खोदनी
12. श्रीमती गुरुप्रसाद खोदनी
13. श्रीमती गुरुप्रसाद खोदनी
14. श्रीमती गुरुप्रसाद खोदनी
15. श्रीमती गुरुप्रसाद खोदनी
16. श्रीमती गुरुप्रसाद खोदनी

Attendance Details of meeting on 15/06/16

उत्तर दिनांक 16.06.16 को नोरा गाँव में बैठक का सार्वजनिक स्थिति में। इस बैठक का मुख्य उद्देश्य था कि गाँव नाथिया की आसपास की गाँव जहाँ की तब परित्याक प्रभावशाली के निरुद्ध था सोचने का। सभी लोग का प्रत्यक्ष बडल था। जब इन लोगों का सम्मान के तौर पर नमस्कार था। सभी लोग का को वे लोग शल पैड को जिम्मेवारी लम्बे लेने के लिए तैयार थे। म. धन मंगल दल ने सबसे पहले गड्डा खोदनी जिम्मेवारी ले। उनके बाद हम दल ने इनकी शलखाल न देवता की जिम्मेवारी ली।

1. निरुद्ध शल खोदनी
2. शिखर प्रसाद खोदनी
3. श्रीमती गुरुप्रसाद खोदनी
4. श्रीमती गुरुप्रसाद खोदनी
5. श्रीमती गुरुप्रसाद खोदनी
6. श्रीमती गुरुप्रसाद खोदनी
7. श्रीमती गुरुप्रसाद खोदनी
8. श्रीमती गुरुप्रसाद खोदनी
9. श्रीमती गुरुप्रसाद खोदनी
10. श्रीमती गुरुप्रसाद खोदनी
11. श्रीमती गुरुप्रसाद खोदनी
12. श्रीमती गुरुप्रसाद खोदनी
13. श्रीमती गुरुप्रसाद खोदनी
14. श्रीमती गुरुप्रसाद खोदनी
15. श्रीमती गुरुप्रसाद खोदनी
16. श्रीमती गुरुप्रसाद खोदनी

Attendance Details of meeting on 16/06/2016



Public Consultation Meeting at Nainital- 20-06-16



**Community and Stakeholders Meeting at Nainital
24-06-16**



**Meeting with Hon. Health Minister for Kanvashram Jheel
& Museum Center (Rural Tourism Project)**



Visit of Haridwar Pedestrian Project site by DFO



**Meeting with local community for Rural Tourism at
Kalalghati Kotdwar Pauri District**



**Meeting with Mandir Committee of Kanvashram
Temple(Rural Tourism Project)**



Meeting with Gram Pardhan & mela committee for Rural Tourist at Mawakot





Visit of Haridwar Pedestrian site by DM and other official of district Administration

Annexure – 2: Environmental Monitoring Report

(a) Environmental Monitoring Report for Haridwar Sub Project

(ISO Certified & NABL Accredited Lab.)

M. E. TESTING LABORATORY

C-31, Urmila Marg, Hanuman Nagar, Khati Pura Road, (Near Jodhpur Mishan Bhandar) Jaipur (Raj.) INDIA

ISO 9001:2008 Certified Testing Lab.
www.metestinglaboratory.com

Branch – Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun (U.K.) India | **Phone:** 0135 6500172
Mobile: +91 7535000490, 491 | **Email:** metiddn@gmail.com | metestinglaboratoryddn@gmail.com

TEST REPORT

Description of Sample: Noise Monitoring
Letter Dated: 26/01/2016
Package No.: UK/IDIPT/III/KOT/01
N.O.W.: Creation of Pedestrian Route for Pilgrims and Tourist in Haridwar, Uttarakhand.
Location: Singh Nagar to Premnagar Ashram
Environmental Conditions: N.A.
Sampling Period: 01/02/2016
Issued to: S.S. Infratech,
 New Mandi Iqbalpur Road,
 Jhabera, Haridwar (UK)


Report No.: METL/DDN/029(02)/2016
Date of Report: 04/02/2016
Date of Receipt: 03/02/2016

TEST CERTIFICATE OF NOISE MONITORING

Parameter			Test-Value	Ambient Air Quality Standards in respect of Noise Limits in dB(A) Leq, (the Noise Pollution Regulation & Control) RULES-2000			
				Industrial	Commercial	Residential	Silence
Noise Level (Day)	Leq	Day	71.0	75	65	55	50
dB (A)	L _{max}	Day	72.3	--	--	--	--
	L _{min}	Day	69.8	--	--	--	--

Protocol Used: IS: 9989-1981

*****End of Report*****


 Checked & Issued by
 Authorised Signatory

1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.

2. Total liability of our Lab. is limited to the invoiced amount.

3. Samples will be destroyed after 10 Days/30 Days from the date of issue of test report.

4. This report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



M. E. TESTING LABORATORY

C-31, Urmila Marg, Hanuman Nagar, Khati Pura Road, (Near Jodhpur Mishan Bhandar) Jaipur (Raj.) INDIA

Branch - Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun (U.K.) India | Phone: 0135 6500172

Mobile: +91 7535000490, 491 | Email: metiddn@gmail.com | metestinglaboratoryddn@gmail.com

ISO 9001:2008 Certified Testing Lab.
www.metestinglaboratory.com

TEST REPORT

Description of Sample: Noise Monitoring

Letter Dated: 26/01/2016

Package No.: UK/IDIPT/III/KOT/01

N.O.W.: Creation of Pedestrian Route for Pilgrims and Tourist in Haridwar, Uttarakhand.

Location: Premnagar Ashram to Rishikesh Chowk

Environmental Conditions: N.A.

Sampling Period: 01/02/2016

Issued to:

S.S. Infratech,
New Mandi Iqbalpur Road,
Jhabera, Haridwar (UK)

Report No.: METL/DDN/029(03)/2016

Date of Report: 04/02/2016

Date of Receipt: 03/02/2016

TEST CERTIFICATE OF NOISE MONITORING

Parameter			Test-Value	Ambient Air Quality Standards in respect of Noise Limits in dB(A) Leq, (the Noise Pollution Regulation & Control) RULES-2000			
				Industrial	Commercial	Residential	Silence
Noise Level (Day)	Leq	Day	71.5	75	65	55	50
dB (A)	L _{max}	Day	73.5	--	--	--	--
	L _{min}	Day	70.1	--	--	--	--

Protocol Used: IS: 9989-1981

*****End of Report*****



Checked & Issued by
Authorised Signatory

1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
2. Total liability of our Lab. is limited to the invoiced amount.
3. Samples will be destroyed after 10 Days/30 Days from the date of issue of test report.
4. This report is not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



ISO 9001:2008 Certified Testing Lab.
www.metestinglaboratory.com

M. E. TESTING LABORATORY

C-31, Urmila Marg, Hanuman Nagar, Khatai Pura Road, (Near Jodhpur Mishan Bhandar) Jaipur (Raj.) INDIA

Branch - Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun (U.K.) India | Phone: 0135 6500172
Mobile: +91 7535000490, 491 | Email: metiddn@gmail.com | metestinglaboratoryddn@gmail.com

TEST REPORT

Description of Sample: Ambient Air Monitoring

Letter Dated: 26/01/2016

Package No.: UK/IDIPT/III/KOT/01

N.O.W.: Creation of Pedestrian Route for Pilgrims and Tourist in Haridwar, Uttarakhand.

Location: Singh Nagar to Premnagar Ashram

Environmental Conditions: N.A.

Sampling Period: Twenty Four Hours form 01-02/02/2016

Issued to:

S.S. Infratech,
New Mandi Iqbalpur Road,
Jhabera, Haridwar (UK)

Report No.: METL/DDN/032(01)/2016

Date of Report: 08/02/2016

Date of Testing: 03-06/02/2016

Date of Receipt: 03/02/2016

TEST CERTIFICATE OF AIR MONITORING

S. No.	Parameters	Test-Value	Requirement as per National Ambient Air Quality Standards CPCB	
			Industrial, Rural & other area	Sensitive Area
1.	Particulate Matter (size < 10 μ m), μ g/m ³ (24 hrs)	82.4	100 Max.	100 Max.
2.	Particulate Matter (size < 2.5 μ m), μ g/m ³ (24 hrs)	57.5	60 Max.	60 Max.
3.	Sulphur dioxide, μ g/m ³ (24 hrs.)	18.5	80 Max.	80 Max.
4.	Oxides of Nitrogen, μ g/m ³ (24 hrs.)	14.3	80 Max.	80 Max.
5.	Carbon Mono Oxide, μ g/m ³	N.D	02*, 04 [#]	02*, 04 [#]

Protocol Used: IS: 5182 (P-2, 3 & 23), CPCB Guidelines.

Note: ND stands for Non-Detectable.

Note: * Maximum limits for 8 hourly monitoring, # Maximum limits for 1 hourly monitoring.

*****End of Report*****



Checked & Issued by
Authorised Signatory

- The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
- Total liability of our Lab. is limited to the invoiced amount.
- Samples will be destroyed after 10 Days/30 Days from the date of issue of test report.
- This report is not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



ISO 9001:2008 Certified Testing Lab.
www.metestinglaboratory.com

M. E. TESTING LABORATORY

C-31, Urmila Marg, Hanuman Nagar, Khatai Pura Road, (Near Jodhpur Mishthan Bhandar) Jaipur (Raj.) INDIA

Branch - Harbaniswala, Shimla By-Pass, Telpur Chowk, Dehradun (U.K.) India | Phone: 0135 6500172
Mobile: +91 7535000490, 491 | Email: metiddn@gmail.com | metestinglaboratoryddn@gmail.com

TEST REPORT

Description of Sample: Ambient Air Monitoring

Letter Dated: 26/01/2016

Package No.: UK/IDIPT/III/KOT/01

N.O.W.: Creation of Pedestrian Route for Pilgrims and Tourist in Haridwar, Uttarakhand.

Location: Premnagar Ashram to Rishikesh Chowk

Environmental Conditions: N.A.

Sampling Period: Twenty Four Hours form 01-02/2016

Issued to:

S.S. Infratech,
New Mandi Iqbalpur Road,
Jhabera, Haridwar (UK)

Report No.: METL/DDN/032(02)/2016

Date of Report: 08/02/2016

Date of Testing: 03-06/02/2016

Date of Receipt: 03/02/2016

TEST CERTIFICATE OF AIR MONITORING

S. No.	Parameters	Test-Value	Requirement as per National Ambient Air Quality Standards CPCB	
			Industrial, Rural & other area	Sensitive Area
1.	Particulate Matter (size < 10 μ m), μ g/m ³ (24 hrs)	82.7	100 Max.	100 Max.
2.	Particulate Matter (size < 2.5 μ m), μ g/m ³ (24 hrs)	57.3	60 Max.	60 Max.
3.	Sulphur dioxide), μ g/m ³ (24 hrs.)	18.2	80 Max.	80 Max.
4.	Oxides of Nitrogen, μ g/m ³ (24 hrs.)	14.1	80 Max.	80 Max.
5.	Carbon Mono Oxide), μ g/m ³	N.D	02* , 04 [#]	02* , 04 [#]

Protocol Used: IS: 5182 (P-2, 3 & 23), CPCB Guidelines.

Note: ND stands for Non-Detectable.

Note: * Maximum limits for 8 hourly monitoring, # Maximum limits for 1 hourly monitoring.

*****End of Report*****



Checked & Issued by
Authorised Signatory

- The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
- Total liability of our Lab. is limited to the invoiced amount.
- Samples will be destroyed after 10 Days/30 Days from the date of issue of test report.
- This report is not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



ISO 9001:2008 Certified Testing Lab.
www.metestinglaboratory.com

M. E. TESTING LABORATORY

C-31, Urmila Marg, Hanuman Nagar, Khati Pura Road, (Near Jodhpur Misthan Bhandar) Jaipur (Raj.) INDIA

Branch - Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun (U.K.) India | Phone: 0135 6500172

Mobile: +91 7535000490, 491 | Email: metiddn@gmail.com | metestinglaboratoryddn@gmail.com

TEST REPORT

Description of Sample: Drinking Water

Letter Dated: 26/01/2016

Package No.: UK/IDIPT/III/KOT/01

N.O.W.: Creation of Pedestrian Route for Pilgrims and Tourist in Haridwar, Uttarakhand.

Report No.: METL/DDN/034(02)/2016

Date of Report: 10/02/2016

Date of Testing: 04-09/02/2016

Date of Receipt: 03/02/2016

Issued to:

S.S. Infratech,
New Mandi Iqbalpur Road,
Jhabera, Haridwar (UK)

Requirement as per IS: 10500-2012(Drinking Water)

S. No.	Characteristics	Test -Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	Colour, Hazen unit. Max.	≤5	5	15	IS-3025(P-4)-1983
2	Odour	Agreeable	Agreeable	Agreeable	IS-3025(P-5)-1983
3	Turbidity, NTU. Max.	Nil	1	5	IS-3025(P-10)-1984
4	pH Value	7.4	6.5 - 8.5	No Relaxation	IS-3025(P-11)-1983
5	Total Hardness, (as CaCO ₃), mg/l Max.	169	200	600	APHA-22 nd Ed/2012
6	Iron (as Fe), mg/l Max.	Nil	0.3	No Relaxation	IS-3025(P-53)-2012
7	Chloride (as Cl), mg/l Max.	75	250	1000	APHA-22 nd Ed/2012
8	Fluoride (as F), mg/l Max.	0.80	1.0	1.5	APHA-22 nd Ed/2012
9	Total Dissolved Solids mg/l Max.	378	500	2000	IS-3025(P-16)-1984

Bacteriological Test

S. No.	Characteristics	Test -Value	Acceptable Limit	Method of Test
1	Total Coliform Organisms (MPN)	Not Detected	Shall not be detectable in 100ml, sample	IS-1622-1981
2	E Coli	Not Detected	Shall not be detectable in 100ml, sample	IS-1622-1981

Remark: With respect to the above test, Sample water comply IS-10500-2012.

*****End of Report*****





Checked & Issued by
Authorised Signatory

- The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
- Total liability of our Lab. is limited to the invoiced amount.
- Samples will be destroyed after 10 Days/30 Days from the date of issue of test report.
- This report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

(b) Environmental Monitoring Report for SemMukhem Sub Project

(ISO Certified & NABL Accredited Lab.)



M. E. TESTING LABORATORY

C-31, Urmila Marg, Hanuman Nagar, Khadi Pura Road, (Near Jodhpur Misthan Bhandar) Jaipur (Raj.) INDIA

Branch - Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun (U.K.) India | **Phone:** 0135 6500172
Mobile: +91 7535000490, 491 | **Email:** metladdn@gmail.com | metestinglaboratoryddn@gmail.com

TEST REPORT

Description of Sample: Noise Monitoring
Letter No.: Semi/Testing(Env.) **Dated:** 27/01/2016
Package No.: UK/IDIPT-111/KOT/02
N.O.W: Adventure & Tourist Centre, (UK)
Location.: At Mela Ground
Environmental Conditions: N.A.
Sampling Period: 30/01/2016
Issued To:

M/s Mangalam Engineers & Construction Company,
34, Kaiser Ganj Mandi, Meerut (UP)


Report No.: METL/DDN/027(01)/2016
Date of Report: 02/02/2016
Date of Receipt: 01/02/2016

TEST CERTIFICATE OF NOISE MONITORING

Parameter			Test-Value	Ambient Air Quality Standards in respect of Noise Limits in dB(A) Leq, (the Noise Pollution Regulation & Control) RULES-2000			
				Industrial	Commercial	Residential	Silence
Noise Level (Day) dB (A)	Leq	Day	57.0	75	65	55	50
	L _{max}	Day	58.4	--	--	--	--
	L _{min}	Day	56.1	--	--	--	--

Protocol Used: IS: 9989-1981

*****End of Report*****



Checked & Issued by
Authorised Signatory

1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
2. Total liability of our Lab. is limited to the invoiced amount.
3. Samples will be destroyed after 10 Days/30 Days from the date of issue of test report.
4. This report is not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

(ISO Certified & NABL Accredited Lab.)



ISO 9001:2008 Certified Testing Lab.
www.metestinglaboratory.com

M. E. TESTING LABORATORY

C-31, Urmila Marg, Hanuman Nagar, Khali Pura Road, (Near Jodhpur Mishan Bhandar) Jaipur (Raj.) INDIA

Branch - Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun (U.K.) India | Phone: 0135 6500172

Mobile: +91 7535000490, 491 | Email: metiddn@gmail.com | metestinglaboratoryddn@gmail.com

TEST REPORT

Description of Sample: Ambient Air Monitoring

Letter No.: Semi/Testing(Env.) Dated: 27/01/2016

Package No.: UK/IDIPT-111/KOT/02

N.O.W: Adventure & Tourist Centre, Tehri (UK)

Location.: At Mela Ground

Environmental Conditions: N.A.

Sampling Period: Twenty Four Hours form 30-31/01/2016

Issued To:

Report No.: METL/DDN/031(01)2016

Date of Report: 06/02/2016

Date of Testing: 02-05/02/2016

Date of Receipt: 01/02/2016

M/s Mangalam Engineers & Construction Company,
34, Kaiser Ganj Mandi, Meerut (UP)

TEST CERTIFICATE OF AIR MONITORING

S. No.	Parameters	Test-Value	Requirement as per National Ambient Air Quality Standards CPCB	
			Industrial, Rural & other area	Sensitive Area
1.	Particulate Matter (size < 10 μ m), μ g/m ³ (24 hrs)	75.7	100 Max.	100 Max.
2.	Particulate Matter (size < 2.5 μ m), μ g/m ³ (24 hrs)	53.2	60 Max.	60 Max.
3.	Sulphur Dioxide), μ g/m ³ (24 hrs.)	14.5	80 Max.	80 Max.
4.	Oxides of Nitrogen, μ g/m ³ (24 hrs.)	11.6	80 Max.	80 Max.
5.	Carbon Mono Oxide), μ g/m ³	N.D	02*, 04*	02*, 04*

Protocol Used: IS: 5182 (P-2, 3 & 23), CPCB Guidelines.

Note: ND stands for Non-Detectable.

Note: * Maximum limits for 8 hourly monitoring, # Maximum limits for 1 hourly monitoring.

*****End of Report*****

Checked & Issued by
Authorised Signatory

1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
2. Total liability of our Lab. is limited to the invoiced amount.
3. Samples will be destroyed after 10 Days/30 Days from the date of issue of test report.
4. This report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



ISO 9001:2008 Certified Testing Lab.
www.metestinglaboratory.com

M. E. TESTING LABORATORY

C-31, Urmila Marg, Hanuman Nagar, Khata Pura Road, (Near Jodhpur Mishthan Bhandar) Jaipur (Raj.) INDIA

Branch - Harbanswala, Shimla By-Pass, Telpur Chowk, Dehradun (U.K.) India | Phone: 0135 6500172

Mobile: +91 7535000490, 491 | Email: metiddn@gmail.com | metestinglaboratoryddn@gmail.com

TEST REPORT

Description of Sample: Drinking Water

Letter No.: Semi/Testing(Env.) Dated: 27/01/2016

Package No.: UK/DIPT-111/KOT/02

N.O.W: Adventure & Tourist Centre, Tehri (UK)

Location.: At Mela Ground

Report No.: METL/DDN/031(02)/2016

Date of Report: 06/02/2016

Date of Testing: 01-06/02/2016

Date of Receipt: 01/02/2016

Issued To:

M/s Mangalam Engineers & Construction Company,
34, Kaiser Ganj Mandi, Meerut (UP)

Requirement as per IS: 10500-2012(Drinking Water)

S. No.	Characteristics	Test -Value	Acceptable Limit	Permissible Limit in absence of Alternate Source	Method of Test
1	Colour, Hazen unit. Max.	≤5	5	15	IS-3025(P-4)-1983
2	Odour	Agreeable	Agreeable	Agreeable	IS- 3025(P-5)-1983
3	Turbidity, NTU, Max.	Nil	1	5	IS-3025(P-10)-1984
4	pH Value	7.3	6.5 – 8.5	No Relaxation	IS-3025(P-11)-1983
5	Total Hardness, (as CaCO ₃), mg/l Max.	175	200	600	APHA-22 nd Ed/2012
6	Iron (as Fe), mg/l Max.	Nil	0.3	No Relaxation	IS-3025(P-53)-2012
7	Chloride (as Cl), mg/l Max.	74	250	1000	APHA-22 nd Ed/2012
8	Fluoride (as F), mg/l Max.	0.77	1.0	1.5	APHA-22 nd Ed/2012
9	Total Dissolved Solids mg/l Max.	378	500	2000	IS-3025(P-16)-1984

Bacteriological Test

S. No.	Characteristics	Test -Value	Acceptable Limit	Method of Test
1	Total Coliform Organisms (MPN)	Not Detected	Shall not be detectable in 100ml, sample	IS-1622-1981
2	E Coli	Not Detected	Shall not be detectable in 100ml, sample	IS-1622-1981

Remark: With respect to the above test, Sample water comply IS-10500-2012.

*****End of Report*****

Checked & Issued by
Authorised Signatory

1. The result listed refer only to the tested samples and applicable parameters endorsement of product is neither inferred nor implied.
2. Total liability of our Lab. is limited to the involved amount.
3. Samples will be destroyed after 10 Days/30 Days from the date of issue of test report.
4. This report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005

(ISO 9001|ISO14001 Certified|NABL Accredited Laboratory)

Test Certificate

Sample Number: ECON/SPL/A/01 Report No: ECON/A/798
Name & Address of Party: M/s. Simplex Projects Limited
12/1-Nellie Sangupta Sarani
Kolkatta-700087.
Format No: 5.10-F-01
Party Reference No: By Mail
Reporting Date: 02/06/2016
Receipt Date: 26/05/2016
Period of testing: 26-30/05/2016

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:

Name of Project : Restoration and Adaptive Reuse of Champawat Fort (Banasur)
Sample Collected by : Lab Representative
Sampling Location : Near Banasaur Fort, Block: Lohaghat, Champawat
Instrument Used : RDS with PM 2.5 Attachment
Instrument Code : ECON/EQP/01, ECON/EQP/01A & ECON/EQP/01B
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 24/05/2016 to 25/05/2016
Time of Monitoring : 10:00 AM to 10:00 AM
Ambient Temperature ($^{\circ}$ C) : Min. 10.00, Max. 28.00
Surrounding activity : Human Activities & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if any : No
Sampling & Analysis Protocol : IS-5182
Parameters Required : As per Work Order

Test Results

S. No.	Parameters	Test Results	Test Methods	NAAQS*
1.	Particulate Matter (PM_{10}), $\mu g/m^3$	60.15	IS : 5182 (P-23), 2006	100
2.	Particulate Matter ($PM_{2.5}$), $\mu g/m^3$	35.00	$PM_{2.5}$ Sampler (Gravimetric)	60
3.	Sulphur Dioxide (SO_2), $\mu g/m^3$	7.20	IS : 5182 (P-2), 2001	80
4.	Nitrogen Dioxide (NO_2), $\mu g/m^3$	16.40	IS : 5182 (P-6), 1975 Reaffirmed-1998	80
5.	Carbon Monoxide (CO), mg/ m^3	0.34	CO Gas Analyser	4

*NAAQS-National Ambient Air Quality Standard; Schedule-VII, [Rule 3 (38)], [Part-II-Sec.-3(i)16.11.2009].

- Note:
1. The results listed refer only to the tested sample & applicable parameters
 2. Total liabilities of our lab will be restricted to the invoice amount only
 3. The sample will be destroyed after retention time unless otherwise specified
 4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-824007815 8176038288





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001|ISO14001 Certified|NABL Accredited Laboratory)

Test Certificate

Sample Number:

ECON/SPL/A/02

Report No:

ECON/A/799

Name & Address of Party:

M/s. Simplex Projects Limited,
12/1-Nellie Sangupta Sarani
Kolkatta-700087,

Format No:

5,10-F-01

Party Reference No:

By Mail

Reporting Date:

02/06/2016

Receipt Date:

26/05/2016

Period of testing:

26-30/05/2016

Sample Description:

AMBIENT AIR QUALITY MONITORING

General Information:

Name of Project : Restoration and Adaptive Reuse of Champawat Fort (Banasur)
Sample Collected by : Lab Representative
Sampling Location : Near Vill.: & Po.: Kamkarat, Block.: Lohaghat, Distt.: Champawat
Instrument Used : RDS with PM 2.5 Attachment
Instrument Code : ECON/EQP/02, ECON/EQP/02A & ECON/EQP/02B
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 24/05/2016 to 25/05/2016
Time of Monitoring : 10:00 AM to 10:00 AM
Ambient Temperature (°C) : Min. 10.00, Max. 28.00
Surrounding activity : Human Activities & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if any : No
Sampling & Analysis Protocol : IS-5182
Parameters Required : As per Work Order

Test Results

S. No.	Parameters	Test Results	Test Methods	NAAQS*
1.	Particulate Matter (PM ₁₀), µg/m ³	65.50	IS : 5182 (P-23), 2006	100
2.	Particulate Matter (PM _{2.5}), µg/m ³	36.50	PM _{2.5} Sampler (Gravimetric)	60
3.	Sulphur Dioxide (SO ₂), µg/m ³	6.30	IS : 5182 (P-2), 2001	80
4.	Nitrogen Dioxide (NO ₂), µg/m ³	14.30	IS : 5182 (P-6), 1975 Reaffirmed-1998	80
5.	Carbon Monoxide (CO), mg/ m ³	0.38	CO Gas Analyser	4

*NAAQS-National Ambient Air Quality Standard: Schedule-VII, [Rule 3 (3B)], [Part-II-Sec.-3(i)] 16.11.2009.



Note:

1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: 051-252407854 8176038284



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001/ISO14001 Certified/NABL Accredited Laboratory)

Test Certificate

Sample Number:

ECON/SPL/AN/01

Report No:

ECON/AN/800

Name & Address of Party:

M/s. Simplex Projects Limited
12/1-Nellie Sangupta Sarani
Kolkatta 700087.

Format No:

5.10-F-01

Party Reference No:

By Mail

Reporting Date:

02/06/2016

Receipt Date:

26/05/2016

Sample Description:

General Information:

Name of Project
Sample Collected by
Sampling Location
Instrument Used
Instrument Code
Instrument Calibration Status
Meteorological condition during monitoring
Date of Monitoring
Time of Monitoring
Ambient Temperature (°C)
Surrounding activity
Scope of Monitoring
Control measure if any
Sampling & Analysis Protocol
Parameters Required

AMBIENT NOISE LEVEL MONITORING

: Restoration and Adaptive Reuse of Champawat Fort (Banasar)
: Lab Representative
: Near Banasaur fort, Block- Lohaghat, Champawat
: Sound Level Meter
: ECON/SLM/01
: Calibrated
: Clear Sky
: 24/05/2016 to 25/05/2016
: 6:00 AM to 6:00 AM
: Min. 11.0, Max. 29.00
: Human Activities & Vehicular Activities
: Regulatory Requirement
: No Any
: CPCB Guideline & IS 9989
: As per Work Order

Test Results

S. No.	Parameters	Protocol	Test Results (dB) (A)		Unit
			Day Time (6:00 AM to 10:00 PM)	Night Time (10:00 PM to 6:00 AM)	
1.	L _{max}	CPCB Guideline/IS 9989	48.2	39.6	dB(A)
2.	L _{Min}	CPCB Guideline/IS 9989	42.0	31.4	dB(A)
3.	CPCB limit for Silence Zone dB(A)		50.0	40.0	dB (A)



Note:

1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com email: uk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8228047814 813644322



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001|ISO14001 Certified|NABL Accredited Laboratory)

Test Certificate

Sample Number: ECON/SPL/AN/02 Report No: ECON/AN/801
Name & Address of Party: M/s. Simplex Projects Limited.
12/1-Nellie Sangupta Sarani
Kolkatta-700087. Format No: 5.10-F-01
Party Reference No: By Mail
Reporting Date: 02/06/2016
Receipt Date: 26/05/2016

Sample Description:

AMBIENT NOISE LEVEL MONITORING

General Information:

Name of Project : Restoration and Adaptive Reuse of Champawat Fort (Banasur)
Sample Collected by : Lab Representative
Sampling Location : Near Vill. & Po.: Karnkarat, Block: Lohaghat, Distt.: Champawat
Instrument Used : Sound Level Meter
Instrument Code : ECON/SLM/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 24/05/2016 to 25/05/2016
Time of Monitoring : 6:00 AM to 6:00 AM
Ambient Temperature (°C) : Min. 11.0, Max. 29.00
Surrounding activity : Human Activities & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if any : No Any
Sampling & Analysis Protocol : CPCB Guideline & IS 9989
Parameters Required : As per Work Order

Test Results

S. No.	Parameters	Protocol	Test Results (dB) (A)		Unit
			Day Time (6:00 AM to 10:00 PM)	Night Time (10:00 PM to 6:00 AM)	
1.	L _{max}	CPCB Guideline/IS 9989	49.3	39.1	dB(A)
2.	L _{Min}	CPCB Guideline/IS 9989	41.4	32.0	dB(A)
3.	CPCB Limit for Residential Zone dB(A)		55.0	45.0	dB (A)



- Note:
1. The results listed refer only to the tested sample & applicable parameters
 2. Total liabilities of our lab will be restricted to the invoice amount only
 3. The sample will be destroyed after retention time unless otherwise specified
 4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8528957815 8176532322



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001|ISO14001 Certified|NABL Accredited Laboratory)

Test Certificate

Sample Number:

ECON/SPL/DW/01

Name & Address of Party:

M/s. Simplex Projects Limited,
12/1 Nellie Sangupta Sarani
Kolkatta-700087.

Report No:

ECON/DW/802

Format No:

5.10-F-01

Party Reference No:

By Mail

Reporting Date:

02/06/2016

Receipt Date:

26/05/2016

Sampling Date:

24/05/2016

Period of Testing:

26-30/05/2016

Sampling Type:

Grab

Preservation:

Refrigerated

Parameters Required:

As per Work Order

Name of Project: **Restoration and Adaptive Reuse of Champawat Fort(Banasur)**
Sample Description: **Drinking Water (Hand pump)**
Sampling Location: **Vill & Po.: Bonga Mehra, Block:**

Lohaghat, Distt: Champawat, Uttarakhand
Lab Representative

Sample Collected By:

Sampling & Analysis Protocol

IS 10500-2012, IS: 3025

Test Results

S. No.	Parameters	Test Methods	Results	Unit	Limit of IS 10500-2012	
					Desirable Limit (Max)	Permissible Limit the absence of Alternate Source (Max)
1.	pH (at 25°C)	IS 3025 (P-11): 1984 Reaff.2012	7.44	-	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (P-4): 1983	<5	Hazen	5	15
3.	Turbidity	IS 3025 (P-10): 1984	BDL	NTU	1	5
4.	Odour	IS 3025 (P-5): 1983	Agreeable	-	Agreeable	Agreeable
5.	Taste	IS 3025 (P-7): 1984	Agreeable	-	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	IS 3025 (P-21): 1983 Reaff.2009	310.30	mg/l	200	600
7.	Calcium as Ca	IS 3025 (P-40): 1991 Reaff.2009	80.10	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (P-23): 1983 Reaff.2003	251.20	mg/l	200	600
9.	Chloride as Cl	IS 3025 (P-32): 1988 Reaff.2009	68.42	mg/l	250	1000
10.	Magnesium as Mg	IS 3025 (P-46): 1994 Reaff.2009	24.35	mg/l	30	100
11.	Total Dissolved Solids	IS 3025 (P-16): 1984 Reaff.2006	354.09	mg/l	500	2000
12.	Iron as Fe	IS 3025 (P-53): 2003 Reaff.2009	0.12	mg/l	0.3	No Relaxation
13.	Copper as Cu	IS 3025 (P-42): 1992	<0.04	mg/l	0.05	1.5
14.	Total Coliform	IS:1622,1981(Reaffirmed 2003)	<2/100 ml	MPN/100ml	-	10.00
15.	E. Coli	IS:1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Signature



Note:

1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in

Printed At: 401, B-24, G-7, B-2, B-2, B-2, B-2



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001|ISO14001 Certified|NABL Accredited Laboratory)

Test Certificate

Sample Number: **ECON/SPL/SW/01**
Name & Address of Party: **M/s. Simplex Projects Limited,**
12/1 Nellie Sangupta Sarani,
Kolkatta 700087.

Sample Description: **Surface Water**
Sampling Location: **Near Vill & Po., Bonga Mehra**
Distt. Champawat

Report No: **ECON/SW/803**
Format No: **5.10-F-01**
Party Reference No: **By Mail**
Reporting Date: **02/06/2016**
Receipt Date: **26/05/2016**
Sampling Date: **24/05/2016**
Period of Testing: **26-30/05/2016**
Sampling Type: **Grab**
Sample Collected By: **Lab Representative**
Preservation: **Refrigerated**
Parameters Required: **As per Work Order**

Sampling & Analysis Protocol **IS 10500-2012, IS: 3025**

Test Results

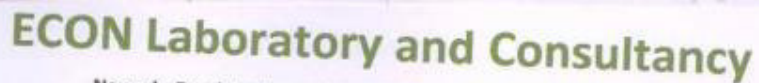
S. No.	Parameters	Test Methods	Results	Unit	Limit of IS 10500-2012	
					Desirable Limit (Max.)	Permissible Limit the absence of Alternate Source (Max)
1.	pH (at 25°C)	APHA 22 nd Edition, 4500-H ⁺ B	7.80	-	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22 nd Edition, 2120-B	<5	Hazen	5	15
3.	Turbidity	APHA 22 nd Edition, 2130-B	BDL (DL-I NTU)	NTU	4-2	5
4.	Total Hardness as CaCO ₃	APHA 22 nd Edition, 2340-C	362.50	mg/l	200	600
5.	Calcium as Ca	APHA 22 nd Edition, 3500-CaB	98.52	mg/l	75	200
6.	Total Alkalinity as CaCO ₃	APHA 22 nd Edition, 2320-B	271.44	mg/l	200	600
7.	Chloride as Cl	APHA 22 nd Edition, 4500-Cl-B	65.30	mg/l	250	1000
8.	Magnesium Hardness as CaCO ₃	APHA 22 nd Edition, 2340 B	36.34	mg/l	30	100
9.	Sulphate as SO ₄	APHA 22 nd Edition, 4500-E	52.30	mg/l	200	400
10.	Nitrate as NO ₃	IS 3025 (P-36)1988	6.44	mg/l	45	No Relaxation
11.	Flouride as F	APHA 22 nd Edition, 4500-F-D	0.80	mg/l	1.00	1.5
12.	Sodium as Na	APHA 22 nd Edition, 3500-Na-B	19.70	mg/l	-	-



- Note:
1. The results listed refer only to the tested sample & applicable parameters
 2. Total liabilities of our lab will be restricted to the invoice amount only
 3. The sample will be destroyed after retention time unless otherwise specified
 4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-893867816 8176538588



Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001|ISO14001 Certified|NABL Accredited Laboratory)

Test Certificate

P. M.



1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: yk@econlaboratory.com, econlab.consultancy@yahoo.in

Copyright No: 491.8452057815 817653834



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001| ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number: **ECON/SPL/A/01** Report No: **ECON/A/786**
Name & Address of Party: **M/s Simplex Projects Limited,**
12/1 Nellie Sengupta Sarani,
Kolkatta- 700087. Format No: **5.10-F-01**
Party Reference No: **By Mail**
Reporting Date: **02/06/2016**
Receipt Date: **26/05/2016**
Period of testing: **26-30/05/2016**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information:

Project Name: Conservation of Cultural Heritage and Urban Place-Making in Nainital
Sample Collected by: Lab Representative
Sampling Location: Near Dam Wall of Nainital, Tallital, Distt - Nainital
Instrument Used: RDS with PM 2.5 Attachment
Instrument Code: ECON/EQP/01, ECON/EQP/01A & ECON/EQP/01B
Instrument Calibration Status: Calibrated
Meteorological condition during monitoring: Clear Sky
Date of Monitoring: 22/05/2016 to 23/05/2016
Time of Monitoring: 10:00 AM to 10:00 AM
Ambient Temperature ($^{\circ}\text{C}$): Min: 11.00, Max: 32.00
Surrounding activity: Human Activities & Vehicular Activities
Scope of Monitoring: Regulatory Requirement
Control measure if any: No
Sampling & Analysis Protocol: IS-5182
Parameters Required: As per Work Order

Test Results

S. No.	Parameters	Test Results	Test Methods	NAAQS*
1.	Particulate Matter (PM_{10}), $\mu\text{g}/\text{m}^3$	58.66	IS : 5182 (P-23), 2006	100
2.	Particulate Matter ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	29.12	$\text{PM}_{2.5}$ Sampler (Gravimetric)	60
3.	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	6.52	IS : 5182 (P-2), 2001	80
4.	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	18.40	IS : 5182 (P-6), 1975 Reaffirmed-1998	80
5.	Carbon Monoxide (CO), mg/m^3	0.28	CO Gas Analyser	4

*NAAQS-National Ambient Air Quality Standard; Schedule-VII, [Rule 3 (3B)], [Part-II Sec.-3(i)] 16.11.2009.

- Note:
1. The results listed refer only to the tested sample & applicable parameters
 2. Total liabilities of our lab will be restricted to the invoice amount only
 3. The sample will be destroyed after retention time unless otherwise specified
 4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: sk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8534957815, 8126534344.





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number:	ECON/SPL/A/02	Report No:	ECON/A/787
Name & Address of Party:	M/s Simplex Projects Limited. 12/1 Nellie Sengupta Sarani, Kolkatta- 700087.	Format No:	5.10-F-01
		Party Reference No:	By Mail
		Reporting Date:	03/06/2016
		Receipt Date:	26/05/2016
		Period of testing:	26-30/05/2016

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:

Project Name	: Conservation of Cultural Heritage and Urban Place-Making in Nainital
Sample Collected by	: Lab Representative
Sampling Location	: Near Construction Site, Nainital, Distt.-Nainital
Instrument Used	: RDS with PM 2.5 Attachment
Instrument Code	: ECON/EQP/02, ECON/EQP/02A & ECON/EQP/02B
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 22/05/2016 to 23/05/2016
Time of Monitoring	: 10:00 AM to 10:00 AM
Ambient Temperature (°C)	: Min. 11, Max. 32.00
Surrounding activity	: Human Activities & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if any	: No
Sampling & Analysis Protocol	: IS-5182
Parameters Required	: As per Work Order

Test Results

S. No.	Parameters	Test Results	Test Methods	NAAQS*
1.	Particulate Matter (PM ₁₀), µg/m ³	56.62	IS : 5182 (P-23), 2006	100
2.	Particulate Matter (PM _{2.5}), µg/m ³	25.19	PM _{2.5} Sampler (Gravimetric)	60
3.	Sulphur Dioxide (SO ₂), µg/m ³	7.54	IS : 5182 (P-2), 2001	80
4.	Nitrogen Dioxide (NO ₂), µg/m ³	17.40	IS : 5182 (P-6), 1975 Reaffirmed-1998	80
5.	Carbon Monoxide (CO), mg/ m ³	0.22	CO Gas Analyser	4

*NAAQS-National Ambient Air Quality Standard: Schedule-VII, [Rule 3 (3B)], [Part-II-Sec.-3(i)] 16.11.2009.

Note:

1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: info@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8534857815, 8126534344.





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001| ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number: ECON/SPL/AN/01
Name & Address of Party: M/s Simplex Projects Limited,
12/1 Nellie Sengupta Sarani,
Kolkatta- 700087.
Report No: ECON/AN/788
Format No: 5.10-F-01
Party Reference No: By Mail
Reporting Date: 02/06/2016
Receipt Date: 26/05/2016

Sample Description:

General Information:

Project Name: Conservation of Cultural Heritage and Urban Place-Making in Nainital
Sample Collected by: Lab Representative
Sampling Location: Dam Wall of Nainilake, Tallital, Distt. Nainital.
Instrument Used: Sound Level Meter
Instrument Code: ECON/SLM/01
Instrument Calibration Status: Calibrated
Meteorological condition during monitoring: Clear Sky
Date of Monitoring: 22/05/2016 to 23/05/2016
Time of Monitoring: 6:00 AM to 6:00 AM
Ambient Temperature (°C): Min. 11.0, Max. 31.00
Surrounding activity: Human Activities & Vehicular Activities
Scope of Monitoring: Regulatory Requirement
Control measure if any: No Any
Sampling & Analysis Protocol: CPCB Guideline & IS 9989
Parameters Required: As per Work Order

AMBIENT NOISE LEVEL MONITORING

Test Results

S. No.	Parameters	Protocol	Test Results (dB) (A)		Unit
			Day Time (6:00 AM to 10:00 PM)	Night Time (10:00 PM to 6:00 AM)	
1.	L_{max}	CPCB Guideline/IS 9989	61.2	47.0	dB(A)
2.	L_{Min}	CPCB Guideline/IS 9989	38.2	34.5	dB(A)
3.	CPCB limit for Commercial Zone dB (A)		65.0	55.0	dB (A)

Note:

1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in,
Contact No: +91-8534957815, 8126534344.





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number:

ECON/SPL/AN/02

Report No:

ECON/AN/789

Name & Address of Party:

M/s Simplex Projects Limited,
12/1 Nellie Sengupta Sarani,
Kolkatta- 700087.

Format No:

5.10-F-01

Party Reference No:

By Mail

Reporting Date:

02/06/2016

Receipt Date:

26/05/2016

Sample Description:

General Information:

Project Name
Sample Collected by
Sampling Location
Instrument Used
Instrument Code
Instrument Calibration Status
Meteorological condition during monitoring
Date of Monitoring
Time of Monitoring
Ambient Temperature (°C)
Surrounding activity
Scope of Monitoring
Control measure if any
Sampling & Analysis Protocol
Parameters Required

AMBIENT NOISE LEVEL MONITORING

: Conservation of Cultural Heritage and Urban Place-Making in Nainital
: Lab Representative
: Dam wall of Nainital, Tallital, Distt-Nainital.
: Sound Level Meter
: ECON/SLM/02
: Calibrated
: Clear Sky
: 22/05/2016 to 23/05/2016
: 6:00 AM to 6:00 AM
: Min. 11.00, Max. 31.00
: Human Activities & Vehicular Activities
: Regulatory Requirement
: No Any
: CPCB Guideline & IS 9989
: As per Work Order

Test Results

S. No.	Parameters	Protocol	Test Results (dB) (A)		Unit
			Day Time (6:00 AM to 10:00 PM)	Night Time (10:00 PM to 6:00 AM)	
1.	L _{max}	CPCB Guideline/IS 9989	63.4	44.3	dB(A)
2.	L _{Min}	CPCB Guideline/IS 9989	42.8	32.2	dB(A)
3.	CPCB limit for Commercial Zone dB(A)		65.0	55.0	dB (A)

Note:

1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: ek@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8534957815, 8126534344.





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number: **ECON/SPL/DW/01** Report No.: **ECON/DW/790**
Name & Address of Party: **M/s Simplex Projects Limited.**
12/-Nellie Sengupta Sarani,
Kolkatta-700087.
Format No: **5.10-F-01**
Party Reference No: **By Mail**
Reporting Date: **02/06/2016**
Receipt Date: **25/05/2016**
Sampling Date: **22/05/2016**
Period of Testing: **26-30/05/2016**
Sampling Type: **Grab**
Preservation: **Refrigerated**
Parameters Required: **As per Work Order**

Project Name: **Conservation of Cultural Heritage and Urban Place-Making in Nainital**
Sample Description: **Drinking Water (Tap Water)**
Sampling Location: **Near Tallital, Bus Stand, Construction, Site-Nainital**

Sample Collected By: **Lab Representative**
Sampling & Analysis Protocol: **IS 10500-2012, IS: 3025**

Test Results

S. No.	Parameters	Test Methods	Results	Unit	Limit of IS 10500-2012	
					Desirable Limit (Max)	Permissible Limit the absence of Alternate Source (Max)
1.	pH (at 25°C)	IS 3025 (P-11): 1984 Reaff. 2012	7.38	-	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (P-4): 1983	<5	Hazen	5	15
3.	Turbidity	IS 3025 (P-10): 1984	BDL	NTU	1	5
4.	Odour	IS 3025 (P-5): 1983	Agreeable	-	Agreeable	Agreeable
5.	Taste	IS 3025 (P-7): 1984	Agreeable	-	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	IS 3025 (P-21): 1983 Reaff. 2009	332.00	mg/l	200	600
7.	Calcium as Ca	IS 3025 (P-40): 1991 Reaff. 2009	82.20	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (P-23): 1983 Reaff. 2003	254.00	mg/l	200	600
9.	Chloride as Cl	IS 3025 (P-32): 1988 Reaff. 2009	68.40	mg/l	250	1000
10.	Magnesium as Mg	IS 3025 (P-46): 1994 Reaff. 2009	28.62	mg/l	30	100
11.	Total Dissolved Solids	IS 3025 (P-16): 1984 Reaff. 2006	365.00	mg/l	500	2000
12.	Iron as Fe	IS 3025 (P-53): 2003 Reaff. 2009	0.12	mg/l	0.3	No Relaxation
13.	Copper as Cu	IS 3025 (P-42): 1992	<0.05	mg/l	0.05	1.5
14.	Total Coliform	IS:1622,1981(Reaffirmed 2003)	<2/100 ml	MPN/100ml	-	10.00
15.	E. Coli	IS:1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: 1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in,
Contact No: +91-8534957815, 8126534344.





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number: ECON/SPL/SW/01
Name & Address of Party: M/s. Simplex Projects Limited,
12/1 Nellie Sangupta Sarani,
Kolkatta-700087.

Sample Description: Surface Water (Nainitalake)
Sampling Location: Tallital, Nainital
Distt. Nainital

Sampling & Analysis Protocol IS 10500-2012, IS: 3025

Report No: ECON/SW/803
Format No: 5.10-F-01
Party Reference No: By Mail
Reporting Date: 02/06/2016
Receipt Date: 25/05/2016
Sampling Date: 24/05/2016
Period of Testing: 26-30/05/2016
Sampling Type: Grab
Sample Collected By: Lab Representative
Preservation: Refrigerated
Parameters Required: As per Work Order

Test Results

S. No.	Parameters	Test Methods	Results	Unit	Limit of IS 10500-2012	
					Desirable Limit (Max.)	Permissible Limit the absence of Alternate Source (Max)
1.	pH (at 25°C)	APHA 22 nd Edition, 4500-H-B	7.80	-	6.5 to 8.5	No Relaxation
2.	Colour	APHA 22 nd Edition, 2120-B	<5	Hazen	5	15
3.	Turbidity	APHA 22 nd Edition, 2130-B	BDL (DL-1 NTU)	NTU	4-2	5
4.	Total Hardness as CaCO ₃	APHA 22 nd Edition, 2340-C	362.50	mg/l	200	600
5.	Calcium as Ca	APHA 22 nd Edition, 3500-CaB	98.52	mg/l	75	200
6.	Total Alkalinity as CaCO ₃	APHA 22 nd Edition, 2320-B	271.44	mg/l	200	600
7.	Chloride as Cl	APHA 22 nd Edition, 4500-Cl-B	65.30	mg/l	250	1000
8.	Magnesium Hardness as CaCO ₃	APHA 22 nd Edition, 2340-B	36.34	mg/l	30	100
9.	Sulphate as SO ₄	APHA 22 nd Edition, 4500-E	52.30	mg/l	200	400
10.	Nitrate as NO ₃	IS 3025 (P-36) 1988	2.44	mg/l	45	No Relaxation
11.	Flouride as F	APHA 22 nd Edition, 4500-F-D	0.80	mg/l	1.00	1.5
12.	Sodium as Na	APHA 22 nd Edition, 3500-Na-B	19.70	mg/l	-	-

Note: 1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: info@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8534957815, 8126534344.





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

ECON/SPL/SW/01					ECON/SW/803	
S. No.	Parameters	Test Methods	Results	Unit	Limit of IS 10500-2012	
					Desirable Limit (Max.)	Permissible Limit the absence of Alternate Source (Max.)
13.	Potassium as K	APHA 22 nd Edition	3.70	mg/l	-	-
14.	TKN as N	APHA 22 nd Edition	1.40	mg/l	-	-
15.	Total phosphorous as P	APHA 22 nd Edition	0.26	mg/l	-	-
16.	COD	APHA 22 nd Edition 5220 B	4.15	mg/l	-	-
17.	Phenolic Compound as C ₆ H ₅ OH	APHA 22 nd Edition 5530	<0.002	mg/l	0.001	0.002
18.	Iron as Fe	APHA 22 nd 3500-Fe B	0.15	mg/l	-	No Relaxation
19.	Boron	APHA 22 nd 3500-Fe B	0.26	mg/l	-	1
20.	Sodium Absorption Ratio	APHA 22 nd Edition	2.84	mg/l	-	-
21.	Free Ammonia as N	APHA 22 nd Edition	0.82	mg/l	-	-
22.	Dissolved oxygen	APHA 22 nd Edition 4500 OC	7.00	mg/l	-	-
23.	BOD (3 Days at 27 °C)	IS 3025, P-44,1999(Reaffirmed 2003)	10.00	mg/l	-	-
24.	Zinc as Zn	APHA 22 nd Edition, 3111 B	0.14	mg/l	5	15
25.	Arsenic as As	APHA 22 nd Edition, 3111B	<0.012	mg/l	-	No Relaxation
26.	Mercury As Hg	APHA 22 nd Edition, 3111B	<0.002	mg/l	0.001	No Relaxation
27.	Total dissolved Solid	APHA 22 nd Edition, 2540 C	420	mg/l	500	2000



- Note:
1. The results listed refer only to the tested sample & applicable parameters
 2. Total liabilities of our lab will be restricted to the invoice amount only
 3. The sample will be destroyed after retention time unless otherwise specified
 4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: info@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8534957815, 8126534344.



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number: **ECON/SPL/A01** Report No: **ECON/A/792**
Name & Address of Party: **M/s. Simplex Projects Limited**
12/1-Nellie Sangupta Sarani
Kolkata-700087
Format No: **5.10-F-01**
Party Reference No: **By Mail**
Reporting Date: **02/06/2016**
Receipt Date: **26/05/2016**
Period of testing: **26-30/05/2016**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information:

Name of Project: Restoration and Adaptive Reuse of Almora Fort (Rani Mahal)
Sample Collected by: Lab Representative
Sampling Location: Near Vikash Bhawan, Distt. Almora
Instrument Used: RDS with PM 2.5 Attachment
Instrument Code: ECON/EQP/01, ECON/EQP/01A & ECON/EQP/01B
Instrument Calibration Status: Calibrated
Meteorological condition during monitoring: Clear Sky
Date of Monitoring: 23/05/2016 to 24/05/2016
Time of Monitoring: 10:00 AM to 10:00 AM
Ambient Temperature ($^{\circ}\text{C}$): Min. 10.00, Max. 28.00
Surrounding activity: Human Activities & Vehicular Activities
Scope of Monitoring: Regulatory Requirement
Control measure if any: No
Sampling & Analysis Protocol: IS-5182
Parameters Required: As per Work Order

Test Results

S. No.	Parameters	Test Results	Test Methods	NAAQS*
1.	Particulate Matter (PM_{10}), $\mu\text{g}/\text{m}^3$	56.20	IS : 5182 (P-23), 2006	100
2.	Particulate Matter ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	29.33	$\text{PM}_{2.5}$ Sampler (Gravimetric)	60
3.	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	7.22	IS : 5182 (P-2), 2001	80
4.	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	16.43	IS : 5182 (P-6), 1975 Reaffirmed-1998	80
5.	Carbon Monoxide (CO), mg/m^3	0.30	CO Gas Analyser	4

*NAAQS-National Ambient Air Quality Standard: Schedule-VII, [Rule 3 (3B)], [Part-II-Sec.-3(i)] 16.11.2009.

Note: 1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8534957815, 8126534344.





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number: ECON/SPL/A/02
Name & Address of Party: M/s. Simplex Projects Limited.
12/1 Nellie Sangupta Sarani
Kolkatta-700087

Report No: ECON/A/793
Format No: 5.10-F-01
Party Reference No: By Mail
Reporting Date: 02/06/2016
Receipt Date: 26/05/2016
Period of testing: 26-30/05/2016

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:

Name of Project : Restoration and Adaptive Reuse of Almora Fort (Rani Mahal)
Sample Collected by : Lab Representative
Sampling Location : Near Construction Site Distt. Almora
Instrument Used : RDS with PM 2.5 Attachment
Instrument Code : ECON/EQP/02, ECON/EQP/02A & ECON/EQP/02B
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 23/05/2016 to 24/05/2016
Time of Monitoring : 10:00 AM to 10:00 AM
Ambient Temperature ($^{\circ}$ C) : Min. 12.00, Max. 28.00
Surrounding activity : Human Activities & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if any : No
Sampling & Analysis Protocol : IS-5182
Parameters Required : As per Work Order

Test Results

S. No.	Parameters	Test Results	Test Methods	NAAQS*
1.	Particulate Matter (PM_{10}), $\mu g/m^3$	61.81	IS : 5182 (P-23), 2006	100
2.	Particulate Matter ($PM_{2.5}$), $\mu g/m^3$	23.09	$PM_{2.5}$ Sampler (Gravimetric)	60
3.	Sulphur Dioxide (SO_2), $\mu g/m^3$	6.50	IS : 5182 (P-2), 2001	80
4.	Nitrogen Dioxide (NO_2), $\mu g/m^3$	19.22	IS : 5182 (P-6), 1975 Reaffirmed-1998	80
5.	Carbon Monoxide (CO), mg/m^3	0.38	CO Gas Analyser	4

*NAAQS-National Ambient Air Quality Standard: Schedule-VII, [Rule 3 (38)], [Part-II-Sec.-3(i)] 16.11.2009.

Note:

1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8534957815, 8126534344.





ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number:

ECON/SPL/AN/01

Report No:

ECON/AN/794

Name & Address of Party:

M/s. Simplex Projects Limited.
12/1 Nellie Sangupta Sarani
Kolkatta 700087.

Format No:

5.10-F-01

Party Reference No:

By Mail

Reporting Date:

02/06/2016

Receipt Date:

26/05/2016

Sample Description:

General Information:

Name of Project
Sample Collected by
Sampling Location
Instrument Used
Instrument Code
Instrument Calibration Status
Meteorological condition during monitoring
Date of Monitoring
Time of Monitoring
Ambient Temperature (°C)
Surrounding activity
Scope of Monitoring
Control measure if any
Sampling & Analysis Protocol
Parameters Required

AMBIENT NOISE LEVEL MONITORING

: Restoration and Adaptive Reuse of Almora Fort (Rani Mahal)
: Lab Representative
: Near Vikash Bhawan, Distt.-Almora
: Sound Level Meter
: ECON/SLM/02
: Calibrated
: Clear Sky
: 23/05/2016 to 24/05/2016
: 6:00 AM to 6:00 AM
: Min. 11.0, Max. 29.00
: Human Activities & Vehicular Activities
: Regulatory Requirement
: No Any
: CPCB Guideline & IS 9989
: As per Work Order

Test Results

S. No.	Parameters	Protocol	Test Results (dB) (A)		Unit
			Day Time (6:00 AM to 10:00 PM)	Night Time (10:00 PM to 6:00 AM)	
1.	L_{max}	CPCB Guideline/IS 9989	48.9	39.0	dB(A)
2.	L_{min}	CPCB Guideline/IS 9989	44.2	32.5	dB(A)
3.	CPCB limit for Residential Zone dB(A)		55.0	45.0	dB (A)



Note:

1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: uk@econlaboratory.com, eeconlab.consultancy@yahoo.in

Contact No: +91-8534957815, 8126534344,



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number:

ECON/SPL/AN/02

Report No:

ECON/AN/795

Name & Address of Party:

M/s. Simplex Projects Limited,
12/1 Nellie Sangupta Sarani
Kolkatta 700087.

Format No:

5.10-F-01

Party Reference No:

By Mail

Reporting Date:

02/06/2016

Receipt Date:

26/05/2016

Sample Description:

General Information:

Name of Project
Sample Collected by
Sampling Location
Instrument Used
Instrument Code
Instrument Calibration Status
Meteorological condition during monitoring
Date of Monitoring
Time of Monitoring
Ambient Temperature (°C)
Surrounding activity
Scope of Monitoring
Control measure if any
Sampling & Analysis Protocol
Parameters Required

AMBIENT NOISE LEVEL MONITORING

: Restoration and Adaptive Reuse of Almora Fort (Rani Mahal)
: Lab Representative
: Near Construction Site, Dist.- Almora.
: Sound Level Meter
: ECON/SLM/02
: Calibrated
: Clear Sky
: 23/05/2016 to 24/05/2016
: 6:00 AM to 6:00 AM
: Min. 11.0, Max. 29.00
: Human Activities & Vehicular Activities
: Regulatory Requirement
: No Any
: CPCB Guideline & IS 9989
: As per Work Order

Test Results

S. No.	Parameters	Protocol	Test Results (dB) (A)		Unit
			Day Time (6:00 AM to 10:00 PM)	Night Time (10:00 PM to 6:00 AM)	
1.	L _{max}	CPCB Guideline/IS 9989	52.0	42.4	dB(A)
2.	L _{min}	CPCB Guideline/IS 9989	44.1	34.3	dB(A)
3.	CPCB limit for Residential Zone dB(A)		55.0	45.0	dB (A)



- Note:
1. The results listed refer only to the tested sample & applicable parameters
 2. Total liabilities of our lab will be restricted to the invoice amount only
 3. The sample will be destroyed after retention time unless otherwise specified
 4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: suk@econlaboratory.com, econlab.consultancy@yahoo.in

Contact No: +91-8534957815, 8126534344.



ECON Laboratory and Consultancy

Nawada Road, Inderpur, Near Defence Colony Police Chowki,
Dehradun, Uttarakhand-248005
(ISO 9001 | ISO 14001 Certified | NABL Accredited Laboratory)

Test Certificate

Sample Number: **ECON/SPL/DW/01**
Name & Address of Party: **M/s. Simplex Projects Limited,**
12/1 Nellie Sangupta Sarani
Kolkatta-700087
Project Name : **Restoration and Adaptive Reuse of Almora Fort (Rani Mahal)**
Sample Description : **Drinking Water (Tap Water)**
Sampling Location: **Near Vill. Pandukhola, Vikash Bhawan**
Dist. Almora Uttarakhand.
Sample Collected By: **Lab Representative**
Sampling & Analysis Protocol: **IS 10500-2012, IS: 3025**

Report No: **ECON/DW/7**
Format No: **5.10-F-01**
Party Reference No: **By Mail**
Reporting Date: **02/06/2016**
Receipt Date: **25/05/2016**
Sampling Date: **23/05/2016**
Period of Testing: **26-30/05/2016**
Sampling Type: **Grab**
Preservation: **Refrigerated**
Parameters Required: **As per Work**

Test Results

S. No.	Parameters	Test Methods	Results	Unit	Limit of IS 10500-2012	
					Desirable Limit (Max)	Permissible Limit the absence of Alternate Source (Max)
1.	pH (at 25°C)	IS 3025 (P-11): 1984 Reaff.2012	7.22	-	6.5 to 8.5	No Relaxation
2.	Colour	IS 3025 (P-4): 1983	< 5	Hazen	5	15
3.	Turbidity	IS 3025 (P-10): 1984	BDL	NTU	1	5
4.	Odour	IS 3025 (P-5): 1983	Agreeable	-	Agreeable	Agreeable
5.	Taste	IS 3025 (P-7): 1984	Agreeable	-	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	IS 3025 (P-21): 1983 Reaff.2009	345.00	mg/l	200	600
7.	Calcium as Ca	IS 3025 (P-40): 1991 Reaff.2009	86.55	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (P-23): 1983 Reaff.2003	268.00	mg/l	200	600
9.	Chloride as Cl	IS 3025 (P-32): 1988 Reaff.2009	70.40	mg/l	250	1000
10.	Magnesium as Mg	IS 3025 (P-46): 1994 Reaff.2009	28.62	mg/l	30	100
11.	Total Dissolved Solids	IS 3025 (P-16): 1984 Reaff.2006	365.00	mg/l	500	2000
12.	Iron as Fe	IS 3025 (P-53): 2003 Reaff.2009	0.12	mg/l	0.3	No Relaxation
13.	Copper as Cu	IS 3025 (P-42): 1992	<0.05	mg/l	0.05	1.5
14.	Total Coliform	IS:1622,1981(Reaffirmed 2003)	<2/100 ml	MPN/100ml	-	10.00
15.	E. Coli	IS:1622,1981(Reaffirmed 2003)	Absent	MPN/100ml	Absent	Absent

Note: 1. The results listed refer only to the tested sample & applicable parameters
2. Total liabilities of our lab will be restricted to the invoice amount only
3. The sample will be destroyed after retention time unless otherwise specified
4. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

Web: www.econlaboratory.com, email: info@econlaboratory.com, econlab.consultancy@yahoo.in
Contact No: +91-8534957815, 8126534344.



Annexure – 3: NOC

Annexure 3 (i) Clearance from MoEF & CC for works in Kartikeya Swamy Circuit



भारत सरकार
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
क्षेत्रीय कार्यालय,
पिर्सन रोड,
वन अनुसंधान संस्थान परिसर,
पो.ओ. न्यू फॉरेस्ट, देहरादून-248006
दूरभाष: 0135-2750809
ईमेल/Email - moef.ddu@gmail.com

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT,
FORESTS & CLIMATE CHANGE,
REGIONAL OFFICE,
Pearson Road, FRI Campus,
P.O. New Forest, Dehradun - 248006
Phone: 0135-2750809

दिनांक: 12/05/2016

पत्र सं. 03बी/79सीओ/09/C1/2016/एफसी/308

सेवा में,

अपर मुख्य सचिव (वन),
उत्तराखण्ड शासन,
मुनाष रोड, देहरादून।

विषय: जनपद-ऊदप्रयाग के अन्तर्गत कार्तिक स्वामी मन्दिर परिसर एवं परिसर से कनकचौरी तक पैदल मार्ग के सुदृढीकरण एवं सौन्दर्यीकरण हेतु 0.94 हे. वन भूमि का Uttarakhand Tourism Development Board को प्रत्यवर्तन।

सन्दर्भ: प्रमुख वन संरक्षक एवं नोडल अधिकारी, उत्तराखण्ड की पत्र संख्या-1893/FP/UK/OTHERS/9276/2015 दिनांक 04.01.2016

गहोदय,

उत्तराखण्ड विभाग पर Online Proposal No. FP/UK/OTHERS/9276/2015 एवं प्रमुख वन संरक्षक एवं नोडल अधिकारी, उत्तराखण्ड के सन्दर्भित पत्र के अपलोडिंग करने का कष्ट करें जिसके द्वारा विवरणित प्रस्ताव पर केन्द्र सरकार से वन (संरक्षण) अधिनियम, 1980 की धारा-2 के तहत स्वीकृति मांगी थी।

इस विषय में मुझे यह सूचित करने का निर्देश हुआ है कि प्रस्तावित प्रकरण पर समय-समय पर राज्य सरकार से आवश्यक जानकारी/दस्तावेज online मंगवाए जाते रहे हैं, जिनके प्राप्त होने के उपरान्त व प्रस्ताव पर ध्यानपूर्वक विचार करने के उपरान्त केन्द्र सरकार जनपद-ऊदप्रयाग के अन्तर्गत कार्तिक स्वामी मन्दिर परिसर एवं परिसर से कनकचौरी तक पैदल मार्ग के सुदृढीकरण एवं सौन्दर्यीकरण हेतु 0.94 हे. वन भूमि का Uttarakhand Tourism Development Board को प्रत्यवर्तन हेतु सैद्धान्तिक स्वीकृति निम्नलिखित शर्तों पर प्रदान करती है:

1. प्रस्ताव के अनुसार प्रस्तावित क्षेत्र में कोई भी वृक्ष विद्यमान नहीं है, अतः प्रयोक्ता अभिकरण द्वारा 100 वृक्षों के वृक्षारोपण एवं दत्त यंत्रों तक रखरखाव हेतु आवश्यक धनराशि (वर्तमान दरों को समाहित करते हुये यथासंशोधित) जमा की जायेगी।
2. प्रयोक्ता अभिकरण द्वारा भारत सरकार के पत्र संख्या E-3/2007-एफ.सी. दिनांक 05.02.2009 के तहत दिये गये आदेशानुसार शुद्ध वर्तमान मूल्य (एन.पी.वी.) की निर्धारित राशि जमा की जायेगी।
3. निर्माण कार्यों के पूर्ण होने के पश्चात् जहाँ-जहाँ समर्थ हो, परियोजना क्षेत्र के रिक्ते स्थानों पर प्रयोक्ता अभिकरण द्वारा अपने व्यय पर वन विभाग की देख-रेख में वृक्षारोपण किया जाएगा। इस आशय की वचन बद्धता प्रेषित करनी होगी।
4. शुद्ध वर्तमान मूल्य की दर में अगर बढ़ोतरी होती है, तो वही हुई दर के अनुसार अतिरिक्त धनराशि प्रयोक्ता अभिकरण द्वारा जमा की जायेगी। इस आशय को प्रयोक्ता अभिकरण द्वारा वचन बद्धता प्रस्तुत की जाए।
5. प्रयोक्ता अभिकरण द्वारा भारत सरकार पत्र संख्या E-3/2007-एफ.सी. दिनांक 05.02.2009 के तहत दिये गये आदेशानुसार शुद्ध वर्तमान मूल्य (एन.पी.वी.) तथा दूसरी सभी निधियां प्रतिपूर्ति वृक्षारोपण निधि प्रबन्धन तथा योजना प्राधिकरण (CAMP) के तदर्थ निकाले जायें।

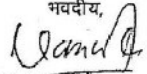
037100101025229 कार्पोरेशन बैंक (भारत सरकार का उपक्रम), ब्लॉक-11 गूतल, सी0जी0ओ0 काम्पलेक्स, फेज-1, लोधी रोड, नई दिल्ली-110003 में जमा कराया जाए एवं इस कार्यालय को सूचित किया जाए। धनराशि का हस्तान्तरण Online portal के माध्यम द्वारा ही किया जाना आवश्यक है।

उपरोक्त सभी शर्तों के परिपूर्ण एवं विन्दुवार सुस्पष्ट परिपालन आख्या प्राप्त होने पर ही वन (संरक्षण) अधिनियम, 1980 के तहत विधिवत स्वीकृति जारी की जायेगी। कृपया अपूर्ण परिपालना आख्या इस कार्यालय को प्रेषित न की जाये।

राज्य सरकार द्वारा विधिवत् स्वीकृति तथा प्रयोक्ता अभिकरण को वन भूमि हस्तान्तरण की कार्यवाही तब तक नहीं की जायेगी जब तक वन भूमि हस्तान्तरण की विधिवत् स्वीकृति भारत सरकार द्वारा जारी नहीं की जाती।

सैद्धान्तिक स्वीकृति की अनुपालन आख्या प्रेषित करने के पश्चात् विधिवत् स्वीकृति अन्य आवश्यक शर्तों सहित निम्नलिखित शर्तों के साथ प्रदान की जायेगी:-

1. वन भूमि की विधिक परिस्थिति नहीं बदली जाएगी।
2. एन.पी.पी. की दरों में अगर बढ़ोतरी होती है तो प्रयोक्ता अभिकरण बड़ी दरों पर एन.पी.पी. देने के लिए बाध्य होगा।
3. प्रयोक्ता अभिकरण द्वारा प्रस्तावित वन क्षेत्र के आस-पास मजदूरों/स्टॉफ के लिये किसी भी प्रकार का लेबर कैम्प नहीं लगाया जायेगा।
4. प्रयोक्ता अभिकरण प्रत्यावर्तन हेतु प्रस्तावित वन भूमि का चार फीट ऊँचे आस0सी0सी0 पिलर लगाकर सीमांकन करेगा जिन पर Forward एवं Back bearing अंकित किया जायेगा।
5. प्रयोक्ता अभिकरण को द्वारा निर्माण कार्य के दौरान स्थल पर कार्यरत मजदूरों एवं स्टॉफ के लिये रसीई गैस/कंसाइन तैल की आपूर्ति की जायेगी, जिससे निकटवर्ती वनों को क्षति न पहुँचे।
6. परियोजना के निर्माण व रख-रखाव के दौरान आस-पास के क्षेत्र की वनस्पतियाँ एवं जीव-जन्तुओं को किसी प्रकार की क्षति नहीं पहुँचायी जायेगी।
7. वन भूमि का प्रयोग प्रस्ताप में दर्शाये गये उद्देश्य के अलावा अन्य किसी उद्देश्य के लिए नहीं किया जायेगा।
8. प्रस्ताप के अनुसार कोई भी वृक्षों का कटान/पातन नहीं किया जायेगा।
9. परियोजना निर्माण से उत्सर्जित मलवे का निस्तारण प्रयोक्ता अभिकरण द्वारा प्रस्तुत मलवा निस्तारण योजना के अनुसार प्रमाणीय वनाधिकारी की देख-रेख में किया जाएगा एवं निर्दिष्ट स्थानों के अलावा अन्यत्र मलवा नहीं फेंका जाएगा।
10. यदि कोई अन्य सम्बन्धित अधिनियम/अनुच्छेद/नियम/न्यायालय आदेश/अनुदेश आदि इस प्रस्ताप पर लागू होते हैं तो उनके अधीन जरूरी अनुमति लेना राज्य सरकार/प्रयोक्ता एजेंसी की जिम्मेवारी होगी।
11. यदि विधिवत् स्वीकृति में दी गई शर्तों का संतोषजनक अनुपालन नहीं किया जाता है तो स्वीकृति को तत्काल प्रभाव से निरस्त किया जा सकता है।

भवदीय,

(एम0एस0 नेगी)
वन संरक्षक

सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:

अपर वन महानिदेशक (एफ0सी0), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इन्दिरा पर्यावरण भवन, जोरबाग रोड, अलीगंज, नई दिल्ली।

प्रमुख वन संरक्षक एवं नोडल अधिकारी, वन संरक्षण, इन्दिरा नगर फारेस्ट कालोनी, देहरादून, उत्तराखण्ड।

आदेश पत्रावली।

(एम0एस0 नेगी)
वन संरक्षक

Annexure 3 (ii) NOC from Forest Wildlife division for works in Tungnath Temple

3-2

कार्यालय उप वन संरक्षक, केदारनाथ वन्यजीव प्रभाग, गोपेश्वर।
Office of Deputy Conservator of Forest, Kedarnath Wildlife Division, Gopeshwar.

पत्रांक:- 954 / 12-1 गोपेश्वर, दिनांक 08 सितम्बर 2014

सेवा में,

अपर कार्यक्रम निदेशक,
परियोजना संरचना विकास निवेश कार्यक्रम,
पं० दीनदयाल उपाध्याय पर्यटन भवन,
नियर ओ०एन०जी०सी० हैलीपैड,
गढ़ी कैन्ट देहरादून।

विषय:- जनपद रुद्रप्रयाग के ऊखीमठ तहसील स्थित तुंगनाथ मन्दिर में एशियन डेपेलपमेन्ट बैंक द्वारा सहायित प्रोजेक्ट के अन्तर्गत प्रस्तावित कार्यों हेतु अनापत्ति प्रमाण पत्र के सम्बन्ध में।

सन्दर्भ:- आपका पत्रांक 1517/पी०एम०यू०/ए०डी०वी०/120/आई०डी०पी०आई०टी०/2014-15 दिनांक 14-08-2014

महोदय,

उपरोक्त विषयक संदर्भित पत्र में वर्णित प्रस्तावित निम्न कार्यों के सम्बन्ध में बिन्दुवार निम्न बातों का अनुश्रवण किया जाय:-

बिन्दु संख्या 1-चौपता से तुंगनाथ के लिए पैदल मार्ग में निर्मित पीने के पानी के स्टैंडों के सुधारीकरण कार्य में किसी भी नये स्थान पर नया निर्माण न किया जाय।

बिन्दु संख्या 2- चौपता से तुंगनाथ के लिए पैदल मार्ग में पूर्व में निर्मित विश्राम पोइन्टों के सुधारीकरण कार्य में कोई नया कार्य न जोड़ा जाय।

बिन्दु संख्या 3- मन्दिर के पास शौचालय के मरम्मत करने में कोई नया कार्य / निर्माण न किया जाय।

बिन्दु संख्या 4- मन्दिर परिसर में पूर्व से स्थित भूधारक दीवार के सुधारीकरण कार्य करने में कोई आपत्ति नहीं है।

बिन्दु संख्या 5- मन्दिर परिसर में कुण्ड के सुधारीकरण कार्य का विस्तृत विवरण प्रेषित करें।

बिन्दु संख्या 6- सोलिड वेस्ट मैनेजमेन्ट के विस्तृत प्लान की भूल प्रति इस कार्यालय को उपलब्ध कराई जाय।

बिन्दु संख्या 7- मन्दिर परिसर में स्थित कार्यालय का फसाड कार्य करने में कोई नया निर्माण न जोड़ा जाय।

बिन्दु संख्या 8- सालर लाइटों को मन्दिर परिसर तक ही सीमित रखा जाए। यह ध्यान दिया जाय लाइटों का फोकस / वितरण मन्दिर परिसर की ओर हो, न कि मन्दिर से बाहर की तरफ, जिससे स्थानीय वन्य जीवों में व्यग्रता न हो।

संख्या / दिनांकित।

प्रतिलिपि निदेशक / वन संरक्षक, नन्दादेवी वायोस्फियर रिजर्व गोपेश्वर को सूचनार्थ प्रेषित।

(आकाश कुमार वर्मा)
उप वन संरक्षक,
केदारनाथ वन्यजीव प्रभाग, गोपेश्वर।

संख्या / दिनांकित।

प्रतिलिपि उप प्रभागीय वनाधिकारी गोपेश्वर उप वन प्रभाग एवं वन क्षेत्राधिकारी, ऊखीमठ रेंज को सूचनार्थ प्रेषित।

(आकाश कुमार वर्मा)
उप वन संरक्षक,
केदारनाथ वन्यजीव प्रभाग, गोपेश्वर।

आई०डी०पी०आई०टी०, यू०टी०डी०वी०
गढ़ी कैन्ट देहरादून।

पत्र प्राप्ति संख्या 5055

दिनांक 12/9/14

Annexure 3 (iii) NOC from State Archeological Dept. for restoration work at Banasur Fort

प्रेषक,

क्षेत्रीय पुरातत्व अधिकारी,
संस्कृति भवन, जाखनदेवी
अल्मोड़ा।

सेवा में,

परियोजना प्रबन्धक
पी0एम0यू0
पर्यटन विभाग
भीमताल, नैनीताल।

सं0 351/क्ष0पु0इ0/प्रथम-20(17)/14,

दिनांक 05 दिसम्बर, 2014

विषय:- संरक्षित स्थल बाणासुर का किला, चंपावत के अनुरक्षण/सौन्दर्यीकरण कार्य के सम्बन्ध में।

महोदय,

कृपया उपरोक्त विषयक अपने कार्यालय के पत्र सं0 408/पी.आई.यू./415/15, दिनांक 23.09.2014 एवं इस कार्यालय के पत्र सं0 250/क्ष0पु0इ0/प्रथम-20(11)/14, दिनांक 04 अक्टूबर, 2014 का अवलोकन करने की कृपा करें। इस क्रम में निदेशक, संस्कृति निदेशालय, उत्तराखण्ड, देहरादून के पत्र सं0 2234/सं0नि0उ0/दो-3/14-15, दिनांक 30 नवम्बर, 2014 द्वारा पत्र में वर्णित बिन्दुओं एवं इस अनुबन्ध के साथ स्वीकृति प्रदान की गयी है कि अनुरक्षण/सौन्दर्यीकरण के कार्यों से स्मारक-स्थल का मौलिक स्वरूप किसी भी प्रकार से प्रभावित न हों। पत्र की छायाप्रति संलग्न की जा रही है।

संलग्न:- उपरोक्तानुसार।

भवदीय

(डा0 चन्द्र सिंह चौहान)

प्रभारी

क्षेत्रीय पुरातत्व इकाई
अल्मोड़ा।