



Initial Environment Examination

Project Number: 40648-033
January 2017
(Addendum)

IND: Infrastructure Development Investment Program for Tourism - Tranche 2

Subproject : Development of Tourist Facilities at Deoban–Lot 2 Yamuna Circuit

Submitted by

Program Management Unit, Government of Uttarakhand, Dehradun

This report has been submitted to ADB by the Program Management Unit, Government of Uttarakhand, Dehradun and is made publicly available in accordance with ADB's Public Communications Policy (2011). It does not necessarily reflect the views of ADB. This Environment Due Diligence Report is an addendum to the IEE report posted in November 2016 available on <https://www.adb.org/projects/documents/ind-idipt-t2-deoban-uttarakhand-nov-2016-iee>.

This 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 Deendayal Upadhyay Paryatan Bhawan,
Near ONGC Helipad Garhi Cantt, Dehradun -248003

Tel: 91-135-2559987, Fax: 91-135-2559988 E-mail: utdb.pmu@gmail.com



Ref: 4563/2-10-ADB IDIPT/130/2013-14

Date: 24.12.2016

To

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

**Sub: Loan No. 2833 IND- IDIPT, Submission of Environment Due Diligence Study for
“Development of Tourist Facilities at Deoban, Yamuna Circuit Lot II” sub project**

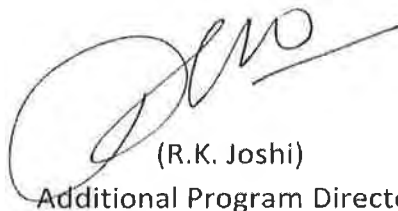
Ref: ADB mail dt. 22.11.16

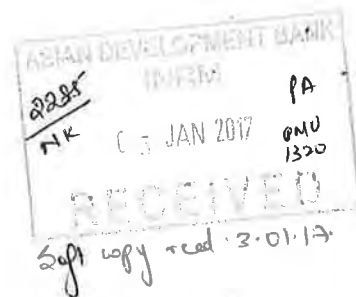
Respected Madam,

Kindly refer to PMU's submission of the revised IEE document of “Development of Tourist Facilities at Deoban, Yamuna Circuit Lot II” sub project (Package No. UK/IDIPT/DDN/04) and ADB's instructions on the same received vide mail dt. 22.11.16. In compliance to ADB observations, due diligence was undertaken and the study is submitted herewith for your kind perusal and approval.

Yours Sincerely

Encl.: - As above


(R.K. Joshi)
Additional Program Director



ENVIRONMENTAL DUE DILIGENCE REPORT

ADB Loan No Loan Number: 2833 /IND

Package no- UK/IDIPT/DDN/04

**Infrastructure Development Investment Programme for Tourism,
Uttarakhand**

**Subproject – Development of Tourist Facilities at Deoban–Lot 2
Yamuna Circuit**

Dec, 2016

**Prepared by the Government of Uttarakhand for the Asian
Development Bank**

Table of Contents

Table of Contents	2
Background	3
Table 1: Compliance Matrix of ADB observations dt. 22.11.16	3
Table 2: EMP table and Due Diligence	4
Conclusion	8
Annexure 1: Provisions of Forest Management Plan for Deoban FRH	9
Annexure 2: Mail From DFO Chakrata Confirming No Tourist Arrival During Repair Works.....	10
Annexure 3: Environment Monitoring Reports	11
Annexure 4a: Consultation Details	14
Annexure 4b: Consultation Details	15
Annexure 4c: Consultation Details.....	16
Annexure 4d: Photographs	18

Background

1. In Compliance to ADB's observations on the IEE Deoban, field based environment due diligence study has been done to ascertain existence of any residual environmental impacts arising on account of the disposal of construction waste at designated sites and restoration of construction camps and work sites.
2. Point wise Compliance Matrix is given in table 1.

Table 1: Compliance Matrix of ADB observations dt. 22.11.16

S.No	Comments	Action Taken
1.	Provisions of forest management plan	The restoration and repair works were done in accordance with provisions of forest management plan. (Annexure 1)
2.	Circulation Plan for safe passage of tourist/pilgrims during construction stage	During construction period, no booking was allowed in the forest house. The same was confirmed from DFO's mail (Annexure 2)
3.	Occupational Health and safety management at the construction camp and sites	Magnitude of works was very less. Maximum 8 nos. of labour was employed. No construction camp was made. The sanitation facilities of existing FRH was utilized.
4.	Environmental Monitoring plan proposed in the above IEE report	Environmental monitoring reports confirm all parameters within permissible levels (absence of any pollutants) (Annexure 3)
5.	Public consultation requirements during project implementation	This subproject did not involve any elements, which could have an adverse impact on the community. The Habitations were quite far from the project impact zone and did not share any common property resource. There was no deprivation of any sort for the residents or displacement of any groups. Hence the consultations were held with administration and forest officials only. The attendance sheet and photographs of consultations have been enclosed. (Annexure 4)

3. The observations have been shown against the Environmental issues identified in the IEE report and supported with requisite documents.

Table 2: EMP table and Due Diligence

SI No	Environmental Issues	Duration / Extent	Magnitude	Mitigation Measures	Due Diligence Observations
1.	Location Impacts				
1.1	Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created of the surroundings	Permanent	Major	Design will include provisions for ensuring effective maintenance and protection of the assets created so as to ensure the long term sustainability. Designs will be worked out and implemented in accordance with the provisions of Forest's Management Plan and will strictly conform to Uttarakhand architecture.	Activities were carried out in accordance with provisions of Forest Management Plan (annexure 1)
2.	Design and pre-construction Impacts				
2.3	Selection of materials and construction technologies, if not carefully chosen, will adversely impact the aesthetic appeal of the destinations	Permanent	Moderate	Selection of materials and construction technologies proposed will strictly conform to the Uttarakhand architecture. Any new landscaping elements will only utilize native species.	Only material for laying pipeline and refurbishment of the guest house were used. No new landscaping was done. Only fencing was done.
2.3	Construction Camps – Location, Selection, Design and Layout	Temporary	Moderate	Construction camps shall not be proposed and labour, if required will stay in the existing accommodation at the FRH. Location for stockyards for construction materials shall be identified at least 300m away from watercourses. Existing Sanitation facilities in the FRH shall be utilized by the labour.	Works were very small. 6-8 labours were employed for period of 03 months who utilized the sanitation facilities of the FRH
2.4	Circulation plan during construction in the tourist destinations	Temporary	Moderate	Prior to commencement of site activities and mobilization on ground, the UKFD will prepare circulation plan during	Tourists were not allowed during construction

SI No	Environmental Issues	Duration / Extent	Magnitude	Mitigation Measures	Due Diligence Observations
				construction for safe passage of tourists/pilgrims during construction stage, including development of alternative access routes, traffic regulations, signage, etc., during construction.	works. (DFO's mail annexure 2)
2.5	Site clearance activities, including delineation of construction areas	Temporary	Moderate	All works shall be carried out such that the damage or disruption of flora other than those identified for cutting is the minimum. Only ground cover/shrubs that impinge directly on the permanent works or necessary temporary works shall be removed as per management plan of the Forest Dept. All areas used for temporary construction operations will be subject to complete restoration to their former condition with appropriate rehabilitation procedures.	Works involved fencing, laying of pipeline, construction of water storage tank and renovation refurbishment works. Works were executed under direct control of Forest Dept.
2.6	Drinking water availability	Temporary	Moderate	Sufficient supply of cold potable water for labour to be provided and ensured by the UKFD.	Water availability for labour was through existing arrangement of forest dept.
2.7	Waste disposal	Temporary	Moderate	The pre-identified disposal location selected by UKFD shall be used for waste disposal. UKFD shall ensure that waste shall not be disposed off at location other than designated site.	Only excavated soil during laying of pipeline. The same was used in refilling.
3.	Construction Impacts				
3.1	Improper stockpiling of construction materials cause impacts starting from obstruction of drainage, disturbance/safety hazard to tourists, etc.	Temporary	Moderate	Due consideration will be given for material storage and construction sites such that it doesn't cause any discomfort to tourists. Tourists shall not be allowed in the FRH till repair work is completed. Any Stockpiles will be adequately	The magnitude of works was very less requiring very less quantity of raw material. The same were stored in the FRH campus.

SI No	Environmental Issues	Duration / Extent	Magnitude	Mitigation Measures	Due Diligence Observations
				covered to protect from dust. Stockpiling of construction materials does not impact obstruct the drainage and Stockpiles will be covered to protect from dust and erosion.	
3.2	Quarry / Borrow pits Operations	Temporary	Moderate	UKFD shall procure construction material from licensed quarry after assessment of the availability of sufficient quantity of materials, quality and other logistic arrangements. Adequate safety precautions will be ensured during transportation of quarry material from quarries to the construction site. Vehicles transporting the material will be covered to prevent spillage.	Material was procured from licensed quarry
3.3	Arrangement for Construction Water	Temporary	Moderate	UKFD shall use surface water or tankers for construction	Construction water was made available from tankers.
3.4	Soil and Water Pollution due to fuel and lubricants, construction waste Water Pollution from Construction Wastes	Temporary	Moderate	The fuel storage will be stationed such that water discharge does not drain into the surface water body. UKFD shall not use water from nearby waterbody for washing vehicles	Works were very small in nature. Fuel storage not done.
3.5	Generation of Dust	Temporary	Moderate	UKFD will take every precaution to reduce the levels of dust at construction site. All earthworks to be protected/ covered in a manner to minimize dust generation.	Earthworks were covered to minimize dust generation and controlled through sprinkling
3.6	Emission from Construction Vehicles, Equipment and Machinery	Temporary	Moderate	All vehicles, equipment and machinery used for construction will conform to the relevant Standard. All vehicles, equipments and machinery used for construction will be regularly maintained to	Vehicle with PUC was allowed by the Forest Dept. The total frequency of construction

SI No	Environmental Issues	Duration / Extent	Magnitude	Mitigation Measures	Due Diligence Observations
				ensure that pollution emission levels comply with the relevant requirements.	vehicle to the site was 08 times during entire duration.
3.7	Noise from construction activities and equipment	Temporary	Moderate	UKFD shall ensure that all Construction equipment used in construction shall strictly conform to the MoEF/CPCB noise standards and all vehicles and equipment used in construction shall be fitted with exhaust silencers. No noisy construction work including operation of DG set shall be taken up during night time.	Mainly repair works. No major construction equipment or machinery was used.
3.8	Material Handling at Site	Temporary	Minor	Workers employed on mixing cement, lime mortars, concrete, stone work etc., will be provided with protective footwear and protective goggles. Workers engaged in stone breaking activities will be provided with protective goggles and clothing.	Protective footwear was provided.
3.9	Disposal of Construction Waste / Debris / Cut Material	Temporary	Moderate	UKFD shall confirm that Safe disposal of the construction waste will be ensured in the pre-identified disposal locations. In no case, any construction waste will be disposed around the project site indiscriminately.	No major construction waste was generated. Excavated soil during pipeline laying was used in refilling
3.10	Safety Measures During Construction	Temporary	Moderate	Personal Protective Equipment for workers on the project and adequate safety measures for workers during handling of materials at site will be taken up. The contractor has to comply with all regulations regarding safe scaffolding, ladders, working platforms, gangway, stairwells, excavations, trenches and safe means of entry and egress. First aid treatment will be made available for all injuries likely to be	First aid facilities available within the FRH.

SI No	Environmental Issues	Duration / Extent	Magnitude	Mitigation Measures	Due Diligence Observations
				sustained during the course of work.	
3.11	Clearing of Construction of Camps & Restoration	Temporary	Major	UKFD shall prepare and get implemented site restoration plan in consultation with DSC Engineer. On completion of the works, all temporary structures will be cleared away, all rubbish burnt, excreta or other disposal pits or trenches filled in and effectively sealed off and the site left clean and tidy.	No construction camps.
4.	O&M Impacts				
4.1	Unhygienic condition due to poor maintenance of sanitation facilities and irregular solid waste collection	Permanent	Moderate	The Forest department will carry out maintenance of the toilets, and carry out the regular collection of wastes, and will also ensure that sanitation improvements proposed do not result in pollution of groundwater. The transfer of waste will also ensure no spillage and all wastes will be transported to a designated solid waste treatment site.	During site visit sanitation facilities and waste management were found satisfactory. Also values of different environmental parameters monitored were found much below the permissible levels indicating no residual impacts on environment quality. (Annexure 3)

Conclusion

- It is concluded from this due diligence study that no residual impacts from the proposed infrastructure improvements in the FRH were observed. Monitoring has already been conducted and will be conducted in summer season to confirm the findings.

Annexure 1: Provisions of Forest Management Plan for Deoban FRH

	Basis of Proposal
<p>damages to the forests. The main object of this working circle is to give guidelines to the field staff in fighting forest fires.</p>	<p>areas, areas where there are natural sources of water which are drying up due to different reasons. The forest division is spread over lesser Himalaya with fragile geology resulting in frequent landslides. This process is accelerated by unscientific road construction, agricultural practices etc. There are many <i>nalas</i> and other slide prone areas within the reserve forests which need immediate treatments. The treatments proposed for these areas are of engineering structures augmented by vegetative measures.</p>
<p>10. The Participatory Working Circle: This working circle is introduced for the first time in this present working plan. Participatory approach of forests management becomes the paradigm with the advent of the new Forest Policy in 1988. There has been paradigm shift in the forestry sector towards decentralization and participatory approach to forest management. The need of the hour is the active participation of the local people in managing the forests. This trend is reflected in major policy formulation in the state. In the new state of Uttaranchal, there is Van Panchayat Rule, 2005 and Village Forest Joint Management Rule 2005 which is the guiding principles for this working circle. With the Centrally Sponsored Schemes Forest Development Agency, under National Eco-development and Afforestation Board, Rural Tourism, Eco-Tourism etc. coming in the state, it is found appropriate to form one working circle under this ambit. This working circle is also mandatory under the New National Working Plan Code June, 2004</p>	<p>12. The Eco-Tourism Working Circle: Under the rural tourism project there is one undergoing project for villages Koti, Indroli and Patyur with a sanctioned amount of Rs. 47.1 lakhs from the government of India. This project will be implemented with the active participation of the villagers. Some of the important items included in the project are – renovations of Forest Rest House at Kanasar, Deoban and Mundali, village paths development, sanitation improvements in the villages, solar energy, eco-trail developments within the forests, important signage, construction of stay houses in the villages. Besides these items, solid waste disposal, rain water harvesting structures, water supply for the villages etc are included in the project.</p>
<p>11. The Soil and Moisture Conservation Working Circle: In this working circle those areas are included which are inherently prone to soil erosion, fragile areas, landslide</p>	<p>13. The Wildlife Management Working Circle: The wild lives are vanishing at a rapid rate and this</p>

Annexure 2: Mail From DFO Chakrata Confirming No Tourist Arrival During Repair Works

submitting Deoban IEE and require document for due diligence report

Ranjan Mallick <mallickdevelopment@gmail.com>

Wed, Dec 14, 2016 at 5:59 F

To: anjali semwal <semwal.anjali1@gmail.com>, STC DEHRADUN <dscdiptdehradun@stc.co.in>

From: dfo chakrata <dfo_chakrata_uta@yahoo.co.in>

Date: Wed, Dec 14, 2016 at 4:30 PM

Subject: Re: submitting Deoban IEE and require document for due diligence report

To: Ranjan Mallick <mallickdevelopment@gmail.com>

Dear Sir,

As per your request the following pointwise information is being sent:

1. Forest Management Plan pertains to the whole of Forest division. There is no specific plan for Deoban F.R.H. There is mention of renovation of Forest Rest House Deoban under The Eco-Tourism Working Circle in the 10 Years Working Plan (2007-08 to 2016-17) of Chakrata Forest Division. The same renovation work has been carried out under your instant Project. The relevant portion of the provision in the Working Plan (Management Plan) is being enclosed.

2. Rest houses are booked from Division office Kalsi. Repair work was done in the month of February and March-2016. No booking was made during this period.

Enclosed : As above

Thanking your

Regards


(D.C. Arya)

Divisional Forest Officer,

Chakrata

[Quoted text hidden]

[Quoted text hidden]

 deoban.pdf
356K

Annexure 3: Environment Monitoring Reports



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/STC/S/01

Report No: ECON/S/1359

Name & Address of Party: **M/s. Shah Technical Consultants Private Limited,**
Room No 41, Uttarakhand Tourism Development Board,
Prayatan Bhawan, Near ONGC Helipad, Gahri Cantt,
Dehradun, Uttarakhand

Format No: **5.10-F-01**

Party Reference No: **By Mail**

Reporting Date: **03/11/2016**

Receipt Date: **02/11/2016**

Sampling Date: **01/11/2016**

Period of Testing: **02-03/11/2016**

Sampling Type: **Grab**

Preservation: **Refrigerated**

Parameters Required: **As per Work Order**

Sample Description: **Drinking Water**
Sampling Location: Forest Guest House, Devvan, Block: Chakrata
Dist.: Dehradun, Uttarakhand
Sample Collected By: Lab Representative
Sampling & Analysis Protocol: IS 10500-2012, IS: 3025

Test Results

S. No.	Parameters	Test Methods	Results	Units	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	7.42	-	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	348.00	mg/l	200	600
7.	Calcium as Ca	IS 3025 (P-40): 1991 Reaff.2009	68.30	mg/l	75	200
8.	Alkalinity as CaCO ₃	IS 3025 (P-23): 1983 Reaff.2003	218.35	mg/l	200	600
9.	Chloride as Cl	IS 3025 (P-32): 1988 Reaff.2009	32.10	mg/l	250	1000
10.	Magnesium as Mg	IS 3025 (P-46): 1994 Reaff.2009	26.42	mg/l	30	100
11.	Total Dissolved Solids	IS 3025 (P-16): 1984 Reaff.2006	348.52	mg/l	500	2000
12.	Iron as Fe	IS 3025 (P-53): 2003 Reaff.2009	0.16	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/STC/A/01

Report No: ECON/A/1357

Name & Address of Party: M/s. Shah Technical Consultants Private Limited,
Room No 41, Uttarakhand Tourism Development Board,
Prayatan Bhawan, Near ONGC Helipad, Gahri Cantt,
Dehradun Uttarakhand,

Format No: 5.10-F-01
Party Reference No: By Mail
Reporting Date: 03/11/2016
Receipt Date: 02/11/2016
Period of testing: 02-03/11/2016

Sample Description:

AMBIENT AIR QUALITY MONITORING

General Information:

Sample Collected by : Lab Representative
Sampling Location : Near Forest Guest House, Devvan, P.O.: Chakrata, Block: Chakrata, Dist.: Dehradun
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 : 01/11/2016 to 02/11/2016
Time of Monitoring : 10:00 AM to 10:00 AM
Ambient Temperature (°C) : Min. 08:00 Max. 26.00
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	56.10	IS : 5182 (P-23), 2006	100
2.	Particulate Matter (PM _{2.5}), µg/m ³	21.10	PM _{2.5} Sampler (Gravimetric)	60
3.	Sulphur Dioxide (SO ₂), µg/m ³	6.24	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	0.20	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/STC/AN/01 Report No: ECON/AN/1358
Name & Address of Party: M/s. Shah Technical Consultants Private Limited,
Room No 41, Uttarakhand Tourism Development Board,
Prayatan Bhawan, Near ONGC Helipad, Gahri Cantt,
Dehradun, Uttarakhand
Format No: 5.10-F-01
Party Reference No: By Mail
Reporting Date: 03/11/2016
Receipt Date: 02/11/2016

Sample Description: AMBIENT NOISE LEVEL MONITORING

General Information:

Sample Collected by : Lab Representative
Sampling Location : Near Forest Guest House, Devvan, P.O.: Chakrata, Block: Chakrata, Dist.: Dehradun
Instrument Used : Sound Level Meter
Instrument Code : ECON/SLM/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 01/11/2016 to 02/11/2016
Time of Monitoring : 10:00 AM to 6:00 AM
Ambient Temperature (°C) : Min. 08.00, Max. 26.00
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

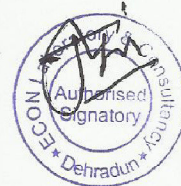
Test Results

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	49.8	39.1	dB(A)
2.	L _{Min}	CPCB Guideline/IS 9989	35.4	32.1	dB(A)
3.	CPCB Limit for Sensitive Area 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: +91-8534957815, 8126534344,



Annexure 4a: Consultation Details

Location : Deoban FRH

Date: 05/07/15

Name of the persons consulted:

S.No	Name	Occupation/position/designation	Address
1	G.S Verma	Section Officer	Forest Department
2	Hayath Rana	Beat Guard	Forest Department
3	Raja vurma	Choukidar	Forest Department
4	Batan Chowan	Beat sahayak	Forest Department
5	Devi singh	Plantation choukidar	Forest Department

Issues discussed and outcomes:

S. No.	Key Issues/Demands	Feedback Received	Remarks
1	Deovan FRH is in dilapidated condition		TRH renovation is necessary
2	Awareness and extent of knowledge about the subproject	Forest people have no idea about the sub projects components. Only 20% have some knowledge.	Awareness related to the project components is essential.
3	Information on the perceived benefits of the subproject in terms of economic and environmental enhancement	Basic services and improvement of FRH will increase tourist inflow.	tourist inflow will increase due to sub project
4	Information on the perceived losses from the proposed subproject during execution stage in terms of disruptions in traffic, temporary access disruptions during execution and air and noise pollution, etc.	No such problem	As it is located within the RF area with its dedicated forest road and no common property resource is there, no such problem
5	Information on Economic development in terms of reduction in problems due to lacking in tourism development and generation of direct employment during the execution of subproject	Increase of tourist inflow will benefit the forest department.	Forest department will gain more revenue due to in flow of tourist

Annexure 4b: Consultation Details

Location : Chakrata Forest Range Office

Date : 08/07/15

Name of the persons consulted

S.No.	Name	Occupation/position/designation	Address
1	Mr Divakar Sinha	DFO	Chakrata
2	Mr G.S Bisht	Ranger	Chakrata

4. Issues discussed and outcomes:

S. No.	Key Issues/Demands	Feedback Received
1	Basic problems at the project site are water, electricity, etc	The facilities should be Improved
2	Awareness and extent of knowledge about the subproject	FRH staff has knowledge about the sub project components
3	Information on the perceived benefits of the subproject in terms of economic and environmental enhancement	After execution of this number of tourists and tourist satisfaction will increase.
4	Information on the perceived losses from the proposed subproject during execution stage in terms of disruptions in traffic, temporary access disruptions during execution and air and noise pollution, etc.	No such loss foreseen. As it is located within the RF area with its dedicated forest road traffic will not be a problem
5	Information on Economic development in terms of reduction in problems due to lacking in tourism development and generation of direct employment during the execution of subproject	Increase of tourist inflow benefitted the forest department.

Annexure 4c: Consultation Details

Location : Deoban FRH

Date : 02/12/16

Name of the persons consulted: Attendance enclosed

S.N o.	Name	Occupation/position/designation	Address
1	Mr. D.C. Arya	DFO	Chakrata
2	FRH staff (list enclosed)		

4. Issues discussed and outcomes:

S. No.	Key Issues/Demands	Feedback Received
1	Water supply works not completed; Pipeline has been laid but system not functional	Peyjal Dept. has been requested to complete the works
2	FRH to share the incumbency records with UTDB	DFO agreed

Date- 02/12/2016

Place- Deoban Relt House
Public Consultation

Sl. No	Name of the Participant	Signature
1	श्रीधर सिंह (बल बन्धु)	श्रीधर
2	रोहित कुमार वंशीचक्रवर्ती	Rohit
3	रमेश लाल	रमेश
4	सुमेश चन्द पाण्डेय	Sunder
5	मोनु	मनु
6	मनिया	मानिया
7	कलिया	कलीया
8	जय अजक	जय
9	रमेश	रमेश
10	आनन्द सिंह	आनन्द सिंह
11		
12		
13		
14		

Annexure 4d: Photographs

	<p>Activity: consultation with DFO Deoban regarding work progress</p> <p>Location: Kalsi</p> <p>Date: 2.12.2016</p>
	<p>Activity: Consultation with Forest department staff</p> <p>Location: Deoban</p> <p>Date: 2.12.2016</p>
	<p>Activity: Guest house colouring</p> <p>Location: Deoban</p> <p>Date: 2.12.2016</p>
	<p>Activity: water source</p> <p>Location: Deoban</p> <p>Date: 2.12.2016</p>



Activity: fencing work

Location: Deoban

Date: 2.12.2016



Activity: water storage and Pump house

Location: Deoban

Date: 2.12.2016